

# TERMS AND CONDITIONS FOR SEPARATELY LICENSED CODE

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	License found in Section	IBM IBM ToolsCenter Bootable Media Creator	IBM Dynamic System Analysis	IBM UpdateXpress System Pack Installer	IBM ServerGuide Setup and Installation	IBM ServerGuide Scripting Toolkit, Linux Edition	IBM ServerGuide Scripting Toolkit, Windows Edition	IBM Advanced Settings Utility	IBM System Enablement Pack
aaa_base	<a href="#">PACKAGE L1</a>	X	X	X		X	X		
autofs	<a href="#">PACKAGE L2</a>	X	X	X		X	X		
bash	<a href="#">PACKAGE L3</a>	X	X	X		X	X		
bc	<a href="#">PACKAGE L4</a>	X	X	X		X	X		
binutils	<a href="#">PACKAGE L5</a>	X	X	X		X	X		
bridge-utils	<a href="#">PACKAGE L6</a>	X	X	X		X	X		
busybox	<a href="#">PACKAGE L7</a>	X	X	X		X	X		
coreutils	<a href="#">PACKAGE L8</a>	X	X	X		X	X		
cpio	<a href="#">PACKAGE L9</a>	X	X	X		X	X		
dbus-1	<a href="#">PACKAGE L10</a>	X	X	X		X	X		
device-mapper	<a href="#">PACKAGE L11</a>	X	X	X		X	X		
diffutils	<a href="#">PACKAGE L12</a>	X	X	X		X	X		
e2fsprogs	<a href="#">PACKAGE L13</a>	X	X	X		X	X		
eject	<a href="#">PACKAGE L14</a>	X	X	X		X	X		
ethtool	<a href="#">PACKAGE L15</a>	X	X	X		X	X		
findutils	<a href="#">PACKAGE L16</a>	X	X	X		X	X		
freetype2	<a href="#">PACKAGE L17</a>	X	X	X		X	X		
fuse	<a href="#">PACKAGE L18</a>	X	X	X		X	X		
gawk	<a href="#">PACKAGE L19</a>	X	X	X		X	X		
gdbm	<a href="#">PACKAGE L20</a>	X	X	X		X	X		
glib	<a href="#">PACKAGE L21</a>	X	X	X		X	X		
glib2	<a href="#">PACKAGE L22</a>	X	X	X		X	X		
glibc	<a href="#">PACKAGE L23</a>	X	X	X		X	X		
gpgme	<a href="#">PACKAGE L24</a>	X	X	X		X	X		
gpm	<a href="#">PACKAGE L25</a>	X	X	X		X	X		
grep	<a href="#">PACKAGE L26</a>	X	X	X		X	X		
grub	<a href="#">PACKAGE L27</a>	X	X	X		X	X		
gzip	<a href="#">PACKAGE L28</a>	X	X	X		X	X		
hwinfo	<a href="#">PACKAGE L29</a>	X	X	X		X	X		
kernel	<a href="#">PACKAGE L30</a>	X	X	X		X	X		

kexec-tools	<a href="#">PACKAGE L31</a>	X	X	X		X	X		
libpgp-error	<a href="#">PACKAGE L32</a>	X	X	X		X	X		
libidn	<a href="#">PACKAGE L33</a>	X	X	X		X	X		
libnl	<a href="#">PACKAGE L34</a>	X	X	X		X	X		
libnscd	<a href="#">PACKAGE L35</a>	X	X	X		X	X		
libstdcxx	<a href="#">PACKAGE L36</a>	X	X	X		X	X		
libstdcxx-compat	<a href="#">PACKAGE L37</a>	X	X	X		X	X		
libtool	<a href="#">PACKAGE L38</a>	X	X	X		X	X		
libupnp	<a href="#">PACKAGE L39</a>	X	X	X		X	X		
libusb	<a href="#">PACKAGE L40</a>	X	X	X		X	X		
lvm2	<a href="#">PACKAGE L41</a>	X	X	X		X	X		
module-init-tools	<a href="#">PACKAGE L42</a>	X	X	X		X	X		
OpenIPMI	<a href="#">PACKAGE L43</a>	X	X	X		X	X		
pam	<a href="#">PACKAGE L44</a>	X	X	X		X	X		
parted	<a href="#">PACKAGE L45</a>	X	X	X		X	X		
readline	<a href="#">PACKAGE L46</a>	X	X	X		X	X		
resmgr	<a href="#">PACKAGE L47</a>	X	X	X		X	X		
rpm	<a href="#">PACKAGE L48</a>	X	X	X		X	X		
scsi	<a href="#">PACKAGE L49</a>	X	X	X		X	X		
sed	<a href="#">PACKAGE L50</a>	X	X	X		X	X		
sysconfig	<a href="#">PACKAGE L51</a>	X	X	X		X	X		
sysfsutils	<a href="#">PACKAGE L52</a>	X	X	X		X	X		
syslinux	<a href="#">PACKAGE L53</a>	X	X	X		X	X		
syslogd	<a href="#">PACKAGE L54</a>	X	X	X		X	X		
sysvinit	<a href="#">PACKAGE L55</a>	X	X	X		X	X		
tar	<a href="#">PACKAGE L56</a>	X	X	X		X	X		
termcap	<a href="#">PACKAGE L57</a>	X	X	X		X	X		
usbutils	<a href="#">PACKAGE L58</a>	X	X	X		X	X		
util-linux	<a href="#">PACKAGE L59</a>	X	X	X		X	X		
Emulex HBACmd	<a href="#">Package 6</a>	X	X	X		X	X		
mkisofs 2.01.01.a4	<a href="#">Package 1</a>	X	X	X		X	X		
cdrecord 2.01.01.a4	<a href="#">Package 2</a>	X	X	X		X	X		
cygwin1.dll 1.5.24-2	<a href="#">Package 3</a>	X	X	X		X	X		
GTK+ 1.2.10	<a href="#">Package 4</a>	X	X	X		X	X		
Firefox 1.5.0.6	<a href="#">Package 5</a>	X	X	X		X	X		
Libsysfs	<a href="#">Package 7</a>	X	X	X		X	X		

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Program Number: Tool  
Program Name: IBM IBM ToolsCenter Bootable Media Creator  
Program Number: Tool  
Program Name: IBM System Enablement Pack  
Program Number: Tool  
Program Name: IBM Dynamic System Analysis  
Program Number: Tool  
Program Name: IBM ServerGuide Scripting Toolkit, Linux Edition  
Program Number: Tool  
Program Name: IBM ServerGuide Scripting Toolkit, Windows Edition  
Program Number: Tool  
Program Name: IBM ServerGuide Setup and Installation for BoMC  
Program Number: Tool  
Program Name: IBM ServerGuide Setup and Installation CD  
Program Number: Tool  
Program Name: IBM Advanced Settings Utility  
Program Number: Tool

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The following are Separately Licensed Code:

Emulex HBACmd

Libsysfs

mkisofs 2.01.01.a44

cdrecord 2.01.01.a44

cygwin1.dll 1.5.24-2

GTK+ 1.2.10

Firefox 1.5.0.6

aaa\_base, aaa\_skel, acl, adaptec-firmware, attr, autofs, bash, bc, binutils, bridge-utils, busybox, coreutils, cpio, dbus-1, device-mapper, devs, diffutils, dmidecode, dosfstools, e2fsprogs, eject, ethtool, filesystem, fillup, findutils, freetype2, fuse, gawk, gdbm, glib, glib2, glibc, gpgme, gpm,

grep, grub, gzip, hwinfo, ibmasm, ibmusbasn, insserv, iproute2, kernel, kexec-tools, libelf, libgpg-error, libidn, libnl, libnscd, libstdcxx, libstdcxx-compat, libtool, libupnp, libusb, loadlin, lvm2, mingetty, module-init-tools, net-tools, netcfg, OpenIPMI, pam, parted, pciutils, permissions, procps, readline, resmgr, rpm, sed, sensors, squashfs-tools, sysconfig, sysfsutils, syslinux, syslogd, sysvinit, tar, termcap, udev, usbutils, utempter, util-linux

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Níže je uveden Samostatně licencovaný kód:

Emulex HBAcmd

Libsysfs

mkisofs 2.01.01.a44

cdrecord 2.01.01.a44

cygwin1.dll 1.5.24-2

GTK+ 1.2.10

Firefox 1.5.0.6

aaa\_base, aaa\_skel, acl, adaptec-firmware, attr, autofs, bash, bc, binutils, bridge-utils, busybox, coreutils, cpio, dbus-1, device-mapper, devs, diffutils, dmidecode, dosfstools, e2fsprogs, eject, ethtool, filesystem, fillup, findutils, freetype2, fuse, gawk, gdbm, glib, glib2, glibc, gpgme, gpm, grep, grub, gzip, hwinfo, ibmasm, ibmusbasn, insserv, iproute2, kernel, kexec-tools, libelf, libgpg-error, libidn, libnl, libnsd, libstdcxx, libstdcxx-compat, libtool, libupnp, libusb, loadlin, lvm2, mingetty, module-init-tools, net-tools, netcfg, OpenIPMI, pam, parted, pciutils, permissions, procps, readline, resmgr, rpm, scsi, sed, sensors, squashfs-tools, sysconfig, sysfsutils, syslinux, syslogd, sysvinit, tar, termcap, udev, usbutils, utempter, util-linux

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Diese Liste enthält den separat lizenzierten Code:

Emulex HBACmd

Libsysfs

mkisofs 2.01.01.a44

cdrecord 2.01.01.a44

cygwin1.dll 1.5.24-2

GTK+ 1.2.10

Firefox 1.5.0.6

aaa\_base, aaa\_skel, acl, adaptec-firmware, attr, autofs, bash, bc, binutils, bridge-utils, busybox, coreutils, cpio, dbus-1, device-mapper, devs, diffutils, dmidecode, dosfstools, e2fsprogs, eject, ethtool, filesystem, fillup, findutils, freetype2, fuse, gawk, gdbm, glib, glib2, glibc, gpgme, gpm, grep, grub, gzip, hwinfo, ibmasm, ibmusbasn, insserv, iproute2, kernel, kexec-tools, libelf, libpgp-error, libidn, libnl, libnscd, libstdcxx, libstdcxx-compat, libtool, libupnp, libusb, loadlin, lvm2, mingetty, module-init-tools, net-tools, netcfg, OpenIPMI, pam, parted, pciutils, permissions, procps, readline, resmgr, rpm, scsi, sed, sensors, squashfs-tools, sysconfig, sysfsutils, syslinux, syslogd, sysvinit, tar, termcap, udev, usbutils, utempter, util-linux

## **ΠΛΗΡΟΦΟΡΙΕΣ ΓΙΑ ΤΗΝ ΑΔΕΙΑ ΧΡΗΣΗΣ**

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## Κώδικας με Χωριστή Άδεια Χρήσης

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Σε μελλοντικές αναβαθμίσεις ή επιδιορθώσεις του Προγράμματος μπορεί να περιέχεται πρόσθετος Κώδικας με Χωριστή Άδεια Χρήσης. Ο εν λόγω πρόσθετος Κώδικας με Χωριστή Άδεια Χρήσης και οι αντίστοιχες άδειες χρήσης θα προσδιορίζονται σε άλλο αρχείο NON\_IBM\_LICENSE που θα συνοδεύει την αναβάθμιση ή επιδιόρθωση του Προγράμματος. Ο Δικαιούχος Άδειας Χρήσης δηλώνει ότι έχει διαβάσει και συμφωνεί με τις συμβάσεις άδειας χρήσης που περιέχονται στο (στα) αρχείο(-α) NON\_IBM\_LICENSE. Εάν ο Δικαιούχος Άδειας Χρήσης δεν συμφωνεί με τους όρους των εν λόγω συμβάσεων άδειας χρήσης τρίτων, ο Δικαιούχος Άδειας Χρήσης δεν έχει το δικαίωμα να χρησιμοποιεί τον Κωδικό με Χωριστή Άδεια Χρήσης.

Για Προγράμματα που αποκτήθηκαν βάσει των όρων της Διεθνούς Σύμβασης Άδειας Χρήσης Προγράμματος (International Program License Agreement - "Σύμβαση IPLA") ή της Διεθνούς Σύμβασης Άδειας Χρήσης για Προγράμματα χωρίς Εγγύηση (International Program License Agreement for Non-Warranted Programs - "Σύμβαση ILAN") και εφόσον ο Δικαιούχος Άδειας Χρήσης είναι ο αρχικός δικαιούχος άδειας χρήσης του Προγράμματος, εάν ο Δικαιούχος Άδειας Χρήσης δεν συμφωνεί με τις συμβάσεις άδειας χρήσης τρίτων, μπορεί να επιστρέψει το Πρόγραμμα σύμφωνα με τους όρους του άρθρου "Εγγύηση Επιστροφής Χρημάτων" της Σύμβασης IPLA ή ILAN της IBM και εντός της χρονικής προθεσμίας που ορίζεται στο εν λόγω άρθρο.

Σημείωση: Ανεξαρτήτως οποιωνδήποτε όρων της σύμβασης άδειας χρήσης του τρίτου μέρους, της Σύμβασης και οποιασδήποτε άλλης σύμβασης που μπορεί να έχει συνάψει ο Δικαιούχος Άδειας Χρήσης με την IBM:

(α) Η IBM παρέχει αυτό τον Κώδικα με Χωριστή Άδεια Χρήσης στο Δικαιούχο Άδειας Χρήσης ΧΩΡΙΣ ΕΓΓΥΗΣΕΙΣ ΚΑΝΕΝΟΣ ΕΙΔΟΥΣ

(β) Η IBM ΑΠΟΠΟΙΕΙΤΑΙ ΟΠΟΙΩΝΔΗΠΟΤΕ ΡΗΤΩΝ ΚΑΙ ΣΙΩΠΗΡΩΝ ΕΓΓΥΗΣΕΩΝ ΚΑΙ ΠΡΟΫΠΟΘΕΣΕΩΝ, ΣΥΜΠΕΡΙΛΑΜΒΑΝΟΜΕΝΗΣ, ΕΝΔΕΙΚΤΙΚΑ ΚΑΙ ΟΧΙ ΠΕΡΙΟΡΙΣΤΙΚΑ, ΤΗΣ ΕΓΓΥΗΣΗΣ ΤΙΤΛΟΥ ΚΥΡΙΟΤΗΤΑΣ, ΜΗ ΠΑΡΑΒΙΑΣΗΣ ΔΙΚΑΙΩΜΑΤΩΝ Ή ΠΑΡΕΜΒΑΣΗΣ ΚΑΙ ΤΩΝ ΣΙΩΠΗΡΩΝ ΕΓΓΥΗΣΕΩΝ ΚΑΙ ΠΡΟΫΠΟΘΕΣΕΩΝ ΕΜΠΟΡΕΥΣΙΜΟΤΗΤΑΣ ΚΑΙ ΚΑΤΑΛΛΗΛΟΤΗΤΑΣ ΓΙΑ ΣΥΓΚΕΚΡΙΜΕΝΟΥΣ ΣΚΟΠΟΥΣ, ΑΝΑΦΟΡΙΚΑ ΜΕ ΤΟΝ ΚΩΔΙΚΑ ΜΕ ΧΩΡΙΣΤΗ ΑΔΕΙΑ ΧΡΗΣΗΣ

(γ) Η IBM δεν φέρει ευθύνη προς το Δικαιούχο Άδειας Χρήσης και δεν θα υποστηρίξει, θα αποζημιώνει ή θα απαλλάσσει το Δικαιούχο Άδειας Χρήσης έναντι οποιωνδήποτε αξιώσεων που απορρέουν από ή σχετίζονται με τον Κώδικα με Χωριστή Άδεια Χρήσης, και

(δ) Η IBM δεν φέρει ευθύνη για οποιασδήποτε άμεσες, έμμεσες, παρεπόμενες, ειδικές ή επακόλουθες ζημιές, ζημιές ηθικής βλάβης ή ποινικές ρήτρες, συμπεριλαμβανομένων, ενδεικτικά και όχι περιοριστικά, της απώλειας δεδομένων, διαφυγουσών οικονομιών και διαφυγόντων κερδών, αναφορικά με τον Κώδικα με Χωριστή Άδεια Χρήσης.

Παρά τους αποκλεισμούς αυτούς, στη Γερμανία και στην Αυστρία η εγγύηση και η ευθύνη της IBM για τα Κώδικα με Χωριστή Άδεια Χρήσης διέπονται μόνο από τους αντίστοιχους όρους για τη Γερμανία και την Αυστρία στις συμβάσεις άδειας χρήσης της IBM.

Σημείωση: Η IBM μπορεί να παρέχει περιορισμένη υποστήριξη για ορισμένα στοιχεία Κώδικα με Χωριστή Άδεια Χρήσης. Εάν διατίθεται τέτοια υποστήριξη, οι λεπτομέρειες και οποιοδήποτε πρόσθετοι όροι που διέπουν την εν λόγω υποστήριξη θα καθορίζονται στο έγγραφο Πληροφορίες για την Άδεια Χρήσης.

Τα ακόλουθα στοιχεία αποτελούν Κώδικα με Χωριστή Άδεια Χρήσης:

Emulex HBACmd

Libsysfs

mkisofs 2.01.01.a44

cdrecord 2.01.01.a44

cygwin1.dll 1.5.24-2

GTK+ 1.2.10

Firefox 1.5.0.6

aaa\_base, aaa\_skel, acl, adaptec-firmware, attr, autofs, bash, bc, binutils, bridge-utils, busybox, coreutils, cpio, dbus-1, device-mapper, devs, diffutils, dmidecode, dosfstools, e2fsprogs, eject, ethtool, filesystem, fillup, findutils, freetype2, fuse, gawk, gdbm, glib, glib2, glibc, gpgme, gpm, grep, grub, gzip, hwinfo, ibmasm, ibmusbasn, insserv, iproute2, kernel, kexec-tools, libelf, libgpg-error, libidn, libnl, libnsd, libstdcxx, libstdcxx-compat, libtool, libupnp, libusb, loadlin, lvm2, mingetty, module-init-tools, net-tools, netcfg, OpenIPMI, pam, parted, pciutils, permissions, procps, readline, resmgr, rpm, scsi, sed, sensors, squashfs-tools, sysconfig, sysfsutils, syslinux, syslogd, sysvinit, tar, termcap, udev, usbutils, utempter, util-linux

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A continuación se enumera Código con Licencia Separada:

Emulex HBAcmd

Libsysfs

mkisofs 2.01.01.a44

cdrecord 2.01.01.a44

cygwin1.dll 1.5.24-2

GTK+ 1.2.10

Firefox 1.5.0.6

aaa\_base, aaa\_skel, acl, adaptec-firmware, attr, autofs, bash, bc, binutils, bridge-utils, busybox, coreutils, cpio, dbus-1, device-mapper, devfs, diffutils, dmidecode, dosfstools, e2fsprogs, eject, ethtool, filesystem, fillup, findutils, freetype2, fuse, gawk, gdbm, glib, glib2, glibc, gpgme, gpm, grep, grub, gzip, hwinfo, ibmasm, ibmusbasn, insserv, iproute2, kernel, kexec-tools, libelf, libpgp-error, libidn, libnl, libnscd, libstdcxx, libstdcxx-compat, libtool, libupnp, libusb, loadlin, lvm2, mingetty, module-init-tools, net-tools, netcfg, OpenIPMI, pam, parted, pciutils, permissions, procps, readline, resmgr, rpm, scsi, sed, sensors, squashfs-tools, sysconfig, sysfsutils, syslinux, syslogd, sysvinit, tar, termcap, udev, usbutils, utempter, util-linux

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Libsysfs

mkisofs 2.01.01.a44

cdrecord 2.01.01.a44

cygwin1.dll 1.5.24-2

GTK+ 1.2.10

Firefox 1.5.0.6

aaa\_base, aaa\_skel, acl, adaptec-firmware, attr, autofs, bash, bc, binutils, bridge-utils, busybox, coreutils, cpio, dbus-1, device-mapper, devs, diffutils, dmidecode, dosfstools, e2fsprogs, eject, ethtool, filesystem, fillup, findutils, freetype2, fuse, gawk, gdbm, glib, glib2, glibc, gpgme, gpm, grep, grub, gzip, hwinfo, ibmasm, ibmusbasn, insserv, iproute2, kernel, kexec-tools, libelf, libgpg-error, libidn, libnl, libnsd, libstdcxx, libstdcxx-compat, libtool, libupnp, libusb, loadlin, lvm2, mingetty, module-init-tools, net-tools, netcfg, OpenIPMI, pam, parted, pciutils, permissions, procps, readline, resmgr, rpm, scsi, sed, sensors, squashfs-tools, sysconfig, sysfsutils, syslinux, syslogd, sysvinit, tar, termcap, udev, usbutils, utempter, util-linux

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Emulex HBAcmd

Libsysfs

mkisofs 2.01.01.a44

cdrecord 2.01.01.a44

cygwin1.dll 1.5.24-2

GTK+ 1.2.10

Firefox 1.5.0.6

aaa\_base, aaa\_skel, acl, adaptec-firmware, attr, autofs, bash, bc, binutils, bridge-utils, busybox, coreutils, cpio, dbus-1, device-mapper, devs, diffutils, dmidecode, dosfstools, e2fsprogs, eject, ethtool, filesystem, fillup, findutils, freetype2, fuse, gawk, gdbm, glib, glib2, glibc, gpgme, gpm, grep, grub, gzip, hwinfo, ibmasm, ibmusbasn, insserv, iproute2, kernel, kexec-tools, libelf, libgpg-error, libidn, libnl, libnscd, libstdcxx, libstdcxx-compat, libtool, libupnp, libusb, loadlin, lvm2, mingetty, module-init-tools, net-tools, netcfg, OpenIPMI, pam, parted, pciutils, permissions, procs, readline, resmgr, rpm, scsi, sed, sensors, squashfs-tools, sysconfig, sysfsutils, syslinux, syslogd, sysvinit, tar, termcap, udev, usbutils, utempter, util-linux

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注: IBM

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以下は、別途使用許諾されるコードです。

Emulex HBACmd

Libsysfs

mkisofs 2.01.01.a44

cdrecord 2.01.01.a44

cygwin1.dll 1.5.24-2

GTK+ 1.2.10

Firefox 1.5.0.6

aaa\_base, aaa\_skel, acl, adaptec-firmware, attr, autofs, bash, bc, binutils, bridge-utils, busybox, coreutils, cpio, dbus-1, device-mapper, devs, diffutils, dmidcode, dosfstools, e2fsprogs, eject, ethtool, filesystem, fillup, findutils, freetype2, fuse, gawk, gdbm, glib, glib2, glibc, gpgme, gpm, grep, grub, gzip, hwinfo, ibmasm, ibmusbasm, insserv, iproute2, kernel, kexec-tools, libelf, libgpg-error, libidn, libnl, libnscd, libstdcxx, libstdcxx-compat, libtool, libupnp, libusb, loadlin, lvm2, mingetty, module-init-tools, net-tools, netcfg, OpenIPMI, pam, parted, pciutils, permissions, procps, readline, resmgr, rpm, scsi, sed, sensors, squashfs-tools, sysconfig, sysfsutils, syslinux, syslogd, sysvinit, tar, termcap, udev, usbutils, utempter, util-linux

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다음은 별도로 라이선스가 부여된 코드입니다.

Emulex HBACmd

Libsysfs

mkisofs 2.01.01.a44

cdrecord 2.01.01.a44

cygwin1.dll 1.5.24-2

GTK+ 1.2.10

Firefox 1.5.0.6

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Toliau išvardyti Atskirai licencijuoti kodai:

Emulex HBACmd

Libsysfs

mkisofs 2.01.01.a44

cdrecord 2.01.01.a44

cygwin1.dll 1.5.24-2

GTK+ 1.2.10

Firefox 1.5.0.6

aaa\_base, aaa\_skel, acl, adaptec-firmware, attr, autofs, bash, bc, binutils, bridge-utils, busybox, coreutils, cpio, dbus-1, device-mapper, devfs, diffutils, dmidecode, dosfstools, e2fsprogs, eject, ethtool, filesystem, fillup, findutils, freetype2, fuse, gawk, gdbm, glib, glib2, glibc, gpgme, gpm, grep, grub, gzip, hwinfo, ibmasm, ibmusbasm, insserv, iproute2, kernel, kexec-tools, libelf, libpgp-error, libidn, libnl, libnscd, libstdcxx, libstdcxx-compat, libtool, libupnp, libusb, loadlin, lvm2, mingetty, module-init-tools, net-tools, netcfg, OpenIPMI, pam, parted, pciutils, permissions, procps, readline, resmgr, rpm, scsi, sed, sensors, squashfs-tools, sysconfig, sysfsutils, syslinux, syslogd, sysvinit, tar, termcap, udev, usbutils, utempter, util-linux



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Emulex HBAcmd

Libsysfs

mkisofs 2.01.01.a44

cdrecord 2.01.01.a44

cygwin1.dll 1.5.24-2

GTK+ 1.2.10

Firefox 1.5.0.6

aaa\_base, aaa\_skel, acl, adaptec-firmware, attr, autofs, bash, bc, binutils, bridge-utils, busybox, coreutils, cpio, dbus-1, device-mapper, devs, diffutils, dmidecode, dosfstools, e2fsprogs, eject, ethtool, filesystem, fillup, findutils, freetype2, fuse, gawk, gdbm, glib, glib2, glibc, gpgme, gpm, grep, grub, gzip, hwinfo, ibmasm, ibmusbasn, insserv, iproute2, kernel, kexec-tools, libelf, libgpg-error, libidn, libnl, libnsd, libstdcxx, libstdcxx-compat, libtool, libupnp, libusb, loadlin, lvm2, mingetty, module-init-tools, net-tools, netcfg, OpenIPMI, pam, parted, pciutils, permissions, procps, readline, resmgr, rpm, scsi, sed, sensors, squashfs-tools, sysconfig, sysfsutils, syslinux, syslogd, sysvinit, tar, termcap, udev, usbutils, utempter, util-linux

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Emulex HBAcmd

Libsysfs

mkisofs 2.01.01.a44

cdrecord 2.01.01.a44

cygwin1.dll 1.5.24-2

GTK+ 1.2.10

Firefox 1.5.0.6

aaa\_base, aaa\_skel, acl, adaptec-firmware, attr, autofs, bash, bc, binutils, bridge-utils, busybox, coreutils, cpio, dbus-1, device-mapper, devs, diffutils, dmidecode, dosfstools, e2fsprogs, eject, ethtool, filesystem, fillup, findutils, freetype2, fuse, gawk, gdbm, glib, glib2, glibc, gpgme, gpm, grep, grub, gzip, hwinfo, ibmasm, ibmusbasn, insserv, iproute2, kernel, kexec-tools, libelf, libpgp-error, libidn, libnl, libnscd, libstdcxx, libstdcxx-compat, libtool, libupnp, libusb, loadlin, lvm2, mingetty, module-init-tools, net-tools, netcfg, OpenIPMI, pam, parted, pciutils, permissions, procps,

readline, resmgr, rpm, scsi, sed, sensors, squashfs-tools, sysconfig, sysfsutils, syslinux, syslogd, sysvinit, tar, termcap, udev, usbutils, utempter, util-linux

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Nize spodaj našli so posebej Licenciруемый Программный Код:

Emulex HBAcmd

Libsysfs

mkisofs 2.01.01.a44

cdrecord 2.01.01.a44

cygwin1.dll 1.5.24-2

GTK+ 1.2.10

Firefox 1.5.0.6

aaa\_base, aaa\_skel, acl, adaptec-firmware, attr, autofs, bash, bc, binutils, bridge-utils, busybox, coreutils, cpio, dbus-1, device-mapper, devscripts, diffutils, dmidecode, dosfstools, e2fsprogs, eject, ethtool, filesystem, fillup, findutils, freetype2, fuse, gawk, gdbm, glib, glib2, glibc, gpgme, gpm, grep, grub, gzip, hwinfo, ibmasm, ibmusbasm, insserv, iproute2, kernel, kexec-tools, libelf, libgpg-error, libidn, libnl, libnscd, libstdc++-compat, libtool, libupnp, libusb, loadlin, lvm2, mingetty, module-init-tools, net-tools, netcfg, OpenIPMI, pam, parted, pciutils, permissions, procs, readline, resmgr, rpm, scsi, sed, sensors, squashfs-tools, sysconfig, sysfsutils, syslinux, syslogd, sysvinit, tar, termcap, udev, usbutils, utempter, util-linux

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Sledijo ločeno licencirane kode:

Emulex HBAcmd

Libsysfs

mkisofs 2.01.01.a44

cdrecord 2.01.01.a44

cygwin1.dll 1.5.24-2

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aaa\_base, aaa\_skel, acl, adaptec-firmware, attr, autofs, bash, bc, binutils, bridge-utils, busybox, coreutils, cpio, dbus-1, device-mapper, devfs, diffutils, dmidecode, dosfstools, e2fsprogs, eject, ethtool, filesystem, fillup, findutils, freetype2, fuse, gawk, gdbm, glib, glib2, glibc, gpgme, gpm, grep, grub, gzip, hwinfo, ibmasm, ibmusbasn, insserv, iproute2, kernel, kexec-tools, libelf, libpgp-error, libidn, libnl, libnscd, libstdcxx, libstdcxx-compat, libtool, libupnp, libusb, loadlin, lvm2, mingetty, module-init-tools, net-tools, netcfg, OpenIPMI, pam, parted, pciutils, permissions, procps, readline, resmgr, rpm, scsi, sed, sensors, squashfs-tools, sysconfig, sysfsutils, syslinux, syslogd, sysvinit, tar, termcap, udev, usbutils, utempter, util-linux

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Libsysfs

mkisofs 2.01.01.a44

cdrecord 2.01.01.a44

cygwin1.dll 1.5.24-2

GTK+ 1.2.10

Firefox 1.5.0.6

aaa\_base, aaa\_skel, acl, adaptec-firmware, attr, autofs, bash, bc, binutils, bridge-utils, busybox, coreutils, cpio, dbus-1, device-mapper, devs, diffutils, dmidecode, dosfstools, e2fsprogs, eject, ethtool, filesystem, fillup, findutils, freetype2, fuse, gawk, gdbm, glib, glib2, glibc, gpgme, gpm, grep, grub, gzip, hwinfo, ibmasm, ibmusbasn, insserv, iproute2, kernel, kexec-tools, libelf, libgpg-error, libidn, libnl, libnsd, libstdcxx, libstdcxx-compat, libtool, libupnp, libusb, loadlin, lvm2, mingetty, module-init-tools, net-tools, netcfg, OpenIPMI, pam, parted, pciutils, permissions, procps, readline, resmgr, rpm, scsi, sed, sensors, squashfs-tools, sysconfig, sysfsutils, syslinux, syslogd, sysvinit, tar, termcap, udev, usbutils, utempter, util-linux

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Firefox 1.5.0.6

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```
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the library `Frob' (a library for tweaking knobs) written  
by James Random Hacker.  
signature of Ty Coon, 1 April 1990  
Ty Coon, President of Vice

That's all there is to it!

---

## Section 2:

### Libsysfs Source Code

#### sysfsutils-2.1.0 \

#### aclocal.m4

```
# generated automatically by aclocal 1.9.6 -*- Autoconf -*-

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# PARTICULAR PURPOSE.

# libtool.m4 - Configure libtool for the host system. -*-Autoconf*-

# serial 48 AC_PROG_LIBTOOL

# AC_PROVIDE_IFELSE(MACRO-NAME, IF-PROVIDED, IF-NOT-PROVIDED)
# -----
# If this macro is not defined by Autoconf, define it here.
m4_ifdef([AC_PROVIDE_IFELSE],
  [],
  [m4_define([AC_PROVIDE_IFELSE],
    [m4_ifdef([AC_PROVIDE_$1],
      [$2], [$3])])])

# AC_PROG_LIBTOOL
# -----
AC_DEFUN([AC_PROG_LIBTOOL],
[AC_REQUIRE([_AC_PROG_LIBTOOL])dnl
dnl If AC_PROG_CXX has already been expanded, run AC_LIBTOOL_CXX
dnl immediately, otherwise, hook it in at the end of AC_PROG_CXX.
  AC_PROVIDE_IFELSE([AC_PROG_CXX],
    [AC_LIBTOOL_CXX],
    [define([AC_PROG_CXX], defn([AC_PROG_CXX])[AC_LIBTOOL_CXX
  ])])
dnl And a similar setup for Fortran 77 support
  AC_PROVIDE_IFELSE([AC_PROG_F77],
    [AC_LIBTOOL_F77],
```

```

    [define([AC_PROG_F77], defn([AC_PROG_F77])[AC_LIBTOOL_F77
]])

dnl Quote A][M_PROG_GCJ so that aclocal doesn't bring it in needlessly.
dnl If either AC_PROG_GCJ or A][M_PROG_GCJ have already been expanded,
run
dnl AC_LIBTOOL_GCJ immediately, otherwise, hook it in at the end of both.
  AC_PROVIDE_IFELSE([AC_PROG_GCJ],
    [AC_LIBTOOL_GCJ],
    [AC_PROVIDE_IFELSE([A][M_PROG_GCJ],
      [AC_LIBTOOL_GCJ],
      [AC_PROVIDE_IFELSE([LT_AC_PROG_GCJ],
        [AC_LIBTOOL_GCJ],
        [ifdef([AC_PROG_GCJ],
          [define([AC_PROG_GCJ], defn([AC_PROG_GCJ])[AC_LIBTOOL_GCJ]])]
        ifdef([A][M_PROG_GCJ],
          [define([A][M_PROG_GCJ],
            defn([A][M_PROG_GCJ])[AC_LIBTOOL_GCJ]])]
        ifdef([LT_AC_PROG_GCJ],
          [define([LT_AC_PROG_GCJ],
            defn([LT_AC_PROG_GCJ])[AC_LIBTOOL_GCJ]])]
        ])]
    ])]# AC_PROG_LIBTOOL

# _AC_PROG_LIBTOOL
# -----
AC_DEFUN([_AC_PROG_LIBTOOL],
[AC_REQUIRE([AC_LIBTOOL_SETUP])dnl
AC_BEFORE([$0],[AC_LIBTOOL_CXX])dnl
AC_BEFORE([$0],[AC_LIBTOOL_F77])dnl
AC_BEFORE([$0],[AC_LIBTOOL_GCJ])dnl

# This can be used to rebuild libtool when needed
LIBTOOL_DEPS="$ac_aux_dir/ltmain.sh"

# Always use our own libtool.
LIBTOOL='$(SHELL) $(top_builddir)/libtool'
AC_SUBST(LIBTOOL)dnl

# Prevent multiple expansion
define([_AC_PROG_LIBTOOL], [])
])# _AC_PROG_LIBTOOL

# AC_LIBTOOL_SETUP
# -----
AC_DEFUN([AC_LIBTOOL_SETUP],
[AC_PREREQ(2.50)dnl
AC_REQUIRE([AC_ENABLE_SHARED])dnl
AC_REQUIRE([AC_ENABLE_STATIC])dnl
AC_REQUIRE([AC_ENABLE_FAST_INSTALL])dnl
AC_REQUIRE([AC_CANONICAL_HOST])dnl
AC_REQUIRE([AC_CANONICAL_BUILD])dnl
AC_REQUIRE([AC_PROG_CC])dnl

```

```

AC_REQUIRE([AC_PROG_LD])dn1
AC_REQUIRE([AC_PROG_LD_RELOAD_FLAG])dn1
AC_REQUIRE([AC_PROG_NM])dn1

AC_REQUIRE([AC_PROG_LN_S])dn1
AC_REQUIRE([AC_DEPLIBS_CHECK_METHOD])dn1
# Autoconf 2.13's AC_OBJEXT and AC_EXEEXT macros only works for C
compilers!
AC_REQUIRE([AC_OBJEXT])dn1
AC_REQUIRE([AC_EXEEXT])dn1
dn1

AC_LIBTOOL_SYS_MAX_CMD_LEN
AC_LIBTOOL_SYS_GLOBAL_SYMBOL_PIPE
AC_LIBTOOL_OBJDIR

AC_REQUIRE([_LT_AC_SYS_COMPILER])dn1
_LT_AC_PROG_ECHO_BACKSLASH

case $host_os in
aix3*)
  # AIX sometimes has problems with the GCC collect2 program. For some
  # reason, if we set the COLLECT_NAMES environment variable, the
problems
  # vanish in a puff of smoke.
  if test "X${COLLECT_NAMES+set}" != Xset; then
    COLLECT_NAMES=
    export COLLECT_NAMES
  fi
  ;;
esac

# Sed substitution that helps us do robust quoting. It backslashifies
# metacharacters that are still active within double-quoted strings.
Xsed='sed -e 1s/^X//'
[sed_quote_subst='s/([\\"\`$\\])/\\\\1/g']

# Same as above, but do not quote variable references.
[double_quote_subst='s/([\\"\`$\\])/\\\\1/g']

# Sed substitution to delay expansion of an escaped shell variable in a
# double_quote_subst'ed string.
delay_variable_subst='s/\\\$\\/$\\$/g'

# Sed substitution to avoid accidental globbing in eval'd expressions
no_glob_subst='s/\*/\\\*/g'

# Constants:
rm="rm -f"

# Global variables:
default_ofile=libtool
can_build_shared=yes

```

```

# All known linkers require a `.a' archive for static linking (except
MSVC,
# which needs '.lib').
libext=a
ltmain="$ac_aux_dir/ltmain.sh"
ofile="$default_ofile"
with_gnu_ld="$lt_cv_prog_gnu_ld"

AC_CHECK_TOOL(AR, ar, false)
AC_CHECK_TOOL(RANLIB, ranlib, :)
AC_CHECK_TOOL(STRIP, strip, :)

old_CC="$CC"
old_CFLAGS="$CFLAGS"

# Set sane defaults for various variables
test -z "$AR" && AR=ar
test -z "$AR_FLAGS" && AR_FLAGS=cru
test -z "$AS" && AS=as
test -z "$CC" && CC=cc
test -z "$LTCC" && LTCC=$CC
test -z "$LTCFLAGS" && LTCFLAGS=$CFLAGS
test -z "$DLLTOOL" && DLLTOOL=dlltool
test -z "$LD" && LD=ld
test -z "$LN_S" && LN_S="ln -s"
test -z "$MAGIC_CMD" && MAGIC_CMD=file
test -z "$NM" && NM=nm
test -z "$SED" && SED=sed
test -z "$OBJDUMP" && OBJDUMP=objdump
test -z "$RANLIB" && RANLIB=:
test -z "$STRIP" && STRIP=:
test -z "$ac_objext" && ac_objext=o

# Determine commands to create old-style static archives.
old_archive_cmds='$AR $AR_FLAGS $oldlib$oldobjs$old_deplibs'
old_postinstall_cmds='chmod 644 $oldlib'
old_postuninstall_cmds=

if test -n "$RANLIB"; then
  case $host_os in
    openbsd*)
      old_postinstall_cmds="$old_postinstall_cmds~$RANLIB -t \ $oldlib"
      ;;
    *)
      old_postinstall_cmds="$old_postinstall_cmds~$RANLIB \ $oldlib"
      ;;
  esac
  old_archive_cmds="$old_archive_cmds~$RANLIB \ $oldlib"
fi

_LT_CC_BASENAME([$compiler])

# Only perform the check for file, if the check method requires it
case $deplibs_check_method in

```

```

file_magic*)
  if test "$file_magic_cmd" = '$MAGIC_CMD'; then
    AC_PATH_MAGIC
  fi
  ;;
esac

AC_PROVIDE_IFELSE([AC_LIBTOOL_DLOPEN], enable_dlopen=yes,
enable_dlopen=no)
AC_PROVIDE_IFELSE([AC_LIBTOOL_WIN32_DLL],
enable_win32_dll=yes, enable_win32_dll=no)

AC_ARG_ENABLE([libtool-lock],
  [AC_HELP_STRING([--disable-libtool-lock],
    [avoid locking (might break parallel builds)])])
test "x$enable_libtool_lock" != xno && enable_libtool_lock=yes

AC_ARG_WITH([pic],
  [AC_HELP_STRING([--with-pic],
    [try to use only PIC/non-PIC objects @<:@default=use both@:>@]),
  [pic_mode="$withval"],
  [pic_mode=default])
test -z "$pic_mode" && pic_mode=default

# Use C for the default configuration in the libtool script
tagname=
AC_LIBTOOL_LANG_C_CONFIG
_LT_AC_TAGCONFIG
])# AC_LIBTOOL_SETUP

# _LT_AC_SYS_COMPILER
# -----
AC_DEFUN([_LT_AC_SYS_COMPILER],
[AC_REQUIRE([AC_PROG_CC])dnl

# If no C compiler was specified, use CC.
LTCC=${LTCC-"$CC"}

# If no C compiler flags were specified, use CFLAGS.
LTCFLAGS=${LTCFLAGS-"$CFLAGS"}

# Allow CC to be a program name with arguments.
compiler=$CC
])# _LT_AC_SYS_COMPILER

# _LT_CC_BASENAME(CC)
# -----
# Calculate cc_basename.  Skip known compiler wrappers and cross-prefix.
AC_DEFUN([_LT_CC_BASENAME],
[for cc_temp in $1""; do
  case $cc_temp in
    compile | *[[\\]]compile | ccache | *[[\\]]ccache ) ;;

```



```

        distcc | *[[\\\/]]distcc | purify | *[[\\\/]]purify ) ;;
        \-*) ;;
        *) break;;
    esac
done
cc_basename=`$echo "X$cc_temp" | $Xsed -e 's%.*/%%' -e "s%^$host_alias-
%%" `
])

# _LT_COMPILER_BOILERPLATE
# -----
# Check for compiler boilerplate output or warnings with
# the simple compiler test code.
AC_DEFUN([_LT_COMPILER_BOILERPLATE],
[ac_outfile=conftest.$ac_objext
printf "$lt_simple_compile_test_code" >conftest.$ac_ext
eval "$ac_compile" 2>&1 >/dev/null | $SED '/^$/d; /^ *+/d' >conftest.err
_lt_compiler_boilerplate=`cat conftest.err`
$rm conftest*
])# _LT_COMPILER_BOILERPLATE

# _LT_LINKER_BOILERPLATE
# -----
# Check for linker boilerplate output or warnings with
# the simple link test code.
AC_DEFUN([_LT_LINKER_BOILERPLATE],
[ac_outfile=conftest.$ac_objext
printf "$lt_simple_link_test_code" >conftest.$ac_ext
eval "$ac_link" 2>&1 >/dev/null | $SED '/^$/d; /^ *+/d' >conftest.err
_lt_linker_boilerplate=`cat conftest.err`
$rm conftest*
])# _LT_LINKER_BOILERPLATE

# _LT_AC_SYS_LIBPATH_AIX
# -----
# Links a minimal program and checks the executable
# for the system default hardcoded library path. In most cases,
# this is /usr/lib:/lib, but when the MPI compilers are used
# the location of the communication and MPI libs are included too.
# If we don't find anything, use the default library path according
# to the aix ld manual.
AC_DEFUN([_LT_AC_SYS_LIBPATH_AIX],
[AC_LINK_IFELSE(AC_LANG_PROGRAM, [
aix_libpath=`dump -H conftest$ac_exeext 2>/dev/null | $SED -n -e '/Import
File Strings/,/^$/ { /^0/ { s/^0  *\(.*)$/\1/; p; }
}' `
# Check for a 64-bit object if we didn't find anything.
if test -z "$aix_libpath"; then aix_libpath=`dump -HX64
conftest$ac_exeext 2>/dev/null | $SED -n -e '/Import File Strings/,/^$/ {
/^0/ { s/^0  *\(.*)$/\1/; p; }
}' `; fi], [])

```

```

if test -z "$aix_libpath"; then aix_libpath="/usr/lib:/lib"; fi
])# _LT_AC_SYS_LIBPATH_AIX

# _LT_AC_SHELL_INIT(ARG)
# -----
AC_DEFUN([_LT_AC_SHELL_INIT],
[ifdef([AC_DIVERSION_NOTICE],
      [AC_DIVERT_PUSH(AC_DIVERSION_NOTICE)],
      [AC_DIVERT_PUSH(NOTICE)])]
$1
AC_DIVERT_POP
])# _LT_AC_SHELL_INIT

# _LT_AC_PROG_ECHO_BACKSLASH
# -----
# Add some code to the start of the generated configure script which
# will find an echo command which doesn't interpret backslashes.
AC_DEFUN([_LT_AC_PROG_ECHO_BACKSLASH],
[_LT_AC_SHELL_INIT([
# Check that we are running under the correct shell.
SHELL=${CONFIG_SHELL-/bin/sh}

case X$ECHO in
X*--fallback-echo)
  # Remove one level of quotation (which was required for Make).
  ECHO=`echo "$ECHO" | sed 's,\\\[\\\]0, '\[\\\]0', '`
  ;;
esac

echo=${ECHO-echo}
if test "X[$]1" = X--no-reexec; then
  # Discard the --no-reexec flag, and continue.
  shift
elif test "X[$]1" = X--fallback-echo; then
  # Avoid inline document here, it may be left over
  :
elif test "X`($echo '\t') 2>/dev/null`" = 'X\t' ; then
  # Yippee, $echo works!
  :
else
  # Restart under the correct shell.
  exec $SHELL "[$]0" --no-reexec ${1+"[$]@"}
fi

if test "X[$]1" = X--fallback-echo; then
  # used as fallback echo
  shift
  cat <<EOF
[$]*
EOF
  exit 0
fi

```

```

# The HP-UX ksh and POSIX shell print the target directory to stdout
# if CDPATH is set.
(unset CDPATH) >/dev/null 2>&1 && unset CDPATH

if test -z "$ECHO"; then
if test "X${echo_test_string+set}" != Xset; then
# find a string as large as possible, as long as the shell can cope with
it
  for cmd in 'sed 50q "[${}0"' 'sed 20q "[${}0"' 'sed 10q "[${}0"' 'sed 2q
"[${}0"' 'echo test'; do
    # expected sizes: less than 2Kb, 1Kb, 512 bytes, 16 bytes, ...
    if (echo_test_string=`eval $cmd`) 2>/dev/null &&
        echo_test_string=`eval $cmd` &&
        (test "X$echo_test_string" = "X$echo_test_string") 2>/dev/null
    then
      break
    fi
  done
fi

if test "X`($echo '\t') 2>/dev/null`" = 'X\t' &&
    echo_testing_string=`($echo "$echo_test_string") 2>/dev/null` &&
    test "X$echo_testing_string" = "X$echo_test_string"; then
  :
else
# The Solaris, AIX, and Digital Unix default echo programs unquote
# backslashes. This makes it impossible to quote backslashes using
# echo "$something" | sed 's/\\/\\\\/g'
#
# So, first we look for a working echo in the user's PATH.

lt_save_ifs="$IFS"; IFS=$PATH_SEPARATOR
for dir in $PATH /usr/ucb; do
  IFS="$lt_save_ifs"
  if (test -f $dir/echo || test -f $dir/echo$ac_exeext) &&
      test "X`($dir/echo '\t') 2>/dev/null`" = 'X\t' &&
      echo_testing_string=`($dir/echo "$echo_test_string") 2>/dev/null`
&&
      test "X$echo_testing_string" = "X$echo_test_string"; then
    echo="$dir/echo"
    break
  fi
done
IFS="$lt_save_ifs"

if test "X$echo" = Xecho; then
# We didn't find a better echo, so look for alternatives.
if test "X`(print -r '\t') 2>/dev/null`" = 'X\t' &&
    echo_testing_string=`(print -r "$echo_test_string") 2>/dev/null`
&&
    test "X$echo_testing_string" = "X$echo_test_string"; then
# This shell has a builtin print -r that does the trick.
echo='print -r'

```

```

elif (test -f /bin/ksh || test -f /bin/ksh$ac_exeext) &&
    test "X$CONFIG_SHELL" != X/bin/ksh; then
    # If we have ksh, try running configure again with it.
    ORIGINAL_CONFIG_SHELL=${CONFIG_SHELL-/bin/sh}
    export ORIGINAL_CONFIG_SHELL
    CONFIG_SHELL=/bin/ksh
    export CONFIG_SHELL
    exec $CONFIG_SHELL "[$]0" --no-reexec ${1+"[$]@"}
else
    # Try using printf.
    echo='printf %s\n'
    if test "X`($echo '\t') 2>/dev/null`" = 'X\t' &&
        echo_testing_string=`($echo "$echo_test_string") 2>/dev/null` &&
        test "X$echo_testing_string" = "X$echo_test_string"; then
    # Cool, printf works
    :
    elif echo_testing_string=`($ORIGINAL_CONFIG_SHELL "[$]0" --
fallback-echo '\t') 2>/dev/null` &&
        test "X$echo_testing_string" = 'X\t' &&
        echo_testing_string=`($ORIGINAL_CONFIG_SHELL "[$]0" --fallback-
echo "$echo_test_string") 2>/dev/null` &&
        test "X$echo_testing_string" = "X$echo_test_string"; then
    CONFIG_SHELL=$ORIGINAL_CONFIG_SHELL
    export CONFIG_SHELL
    SHELL="$CONFIG_SHELL"
    export SHELL
    echo="$CONFIG_SHELL "[$]0 --fallback-echo"
    elif echo_testing_string=`($CONFIG_SHELL "[$]0" --fallback-echo
'\t') 2>/dev/null` &&
        test "X$echo_testing_string" = 'X\t' &&
        echo_testing_string=`($CONFIG_SHELL "[$]0" --fallback-echo
"$echo_test_string") 2>/dev/null` &&
        test "X$echo_testing_string" = "X$echo_test_string"; then
    echo="$CONFIG_SHELL "[$]0 --fallback-echo"
    else
    # maybe with a smaller string...
    prev=:

    for cmd in 'echo test' 'sed 2q "[$]0"' 'sed 10q "[$]0"' 'sed 20q
"[$]0"' 'sed 50q "[$]0"'; do
        if (test "X$echo_test_string" = "X`eval $cmd`") 2>/dev/null
        then
            break
        fi
        prev="$cmd"
    done

    if test "$prev" != 'sed 50q "[$]0"'; then
        echo_test_string=`eval $prev`
        export echo_test_string
        exec ${ORIGINAL_CONFIG_SHELL-${CONFIG_SHELL-/bin/sh}} "[$]0"
${1+"[$]@"}
    else
    # Oops. We lost completely, so just stick with echo.

```

```

        echo=echo
    fi
    fi
fi
fi
fi
fi

# Copy echo and quote the copy suitably for passing to libtool from
# the Makefile, instead of quoting the original, which is used later.
ECHO=$echo
if test "X$ECHO" = "X$CONFIG_SHELL [$]0 --fallback-echo"; then
    ECHO="$CONFIG_SHELL \\$\\[$]0 --fallback-echo"
fi

AC_SUBST(ECHO)
])])# _LT_AC_PROG_ECHO_BACKSLASH

# _LT_AC_LOCK
# -----
AC_DEFUN([_LT_AC_LOCK],
[AC_ARG_ENABLE([libtool-lock],
    [AC_HELP_STRING([--disable-libtool-lock],
        [avoid locking (might break parallel builds)])])
test "x$enable_libtool_lock" != xno && enable_libtool_lock=yes

# Some flags need to be propagated to the compiler or linker for good
# libtool support.
case $host in
ia64-*-hpux*)
    # Find out which ABI we are using.
    echo 'int i;' > conftest.$ac_ext
    if AC_TRY_EVAL(ac_compile); then
        case `file conftest.$ac_objext` in
        *ELF-32*)
            HPUX_IA64_MODE="32"
            ;;
        *ELF-64*)
            HPUX_IA64_MODE="64"
            ;;
        esac
    fi
    rm -rf conftest*
    ;;
*-*-irix6*)
    # Find out which ABI we are using.
    echo '[#]line __oline__ "configure"' > conftest.$ac_ext
    if AC_TRY_EVAL(ac_compile); then
        if test "$lt_cv_prog_gnu_ld" = yes; then
            case `file conftest.$ac_objext` in
            *32-bit*)
                LD="{LD-ld} -melf32bsmip"
                ;;
            ;;
        fi
    fi

```

```

*N32*)
    LD="{LD-ld} -melf32bmipn32"
    ;;
*64-bit*)
    LD="{LD-ld} -melf64bmip"
    ;;
esac
else
case `/usr/bin/file confptest.$ac_objext` in
*32-bit*)
    LD="{LD-ld} -32"
    ;;
*N32*)
    LD="{LD-ld} -n32"
    ;;
*64-bit*)
    LD="{LD-ld} -64"
    ;;
esac
fi
fi
rm -rf confptest*
;;

```

```

x86_64-*linux*|ppc*-*linux*|powerpc*-*linux*|s390*-*linux*|sparc*-*linux*)

```

```

# Find out which ABI we are using.
echo 'int i;' > confptest.$ac_ext
if AC_TRY_EVAL(ac_compile); then
  case `/usr/bin/file confptest.o` in
*32-bit*)
    case $host in
x86_64-*linux*)
        LD="{LD-ld} -m elf_i386"
        ;;
ppc64-*linux*|powerpc64-*linux*)
        LD="{LD-ld} -m elf32ppclinux"
        ;;
s390x-*linux*)
        LD="{LD-ld} -m elf_s390"
        ;;
sparc64-*linux*)
        LD="{LD-ld} -m elf32_sparc"
        ;;
    esac
    ;;
*64-bit*)
    case $host in
x86_64-*linux*)
        LD="{LD-ld} -m elf_x86_64"
        ;;
ppc*-*linux*|powerpc*-*linux*)
        LD="{LD-ld} -m elf64ppc"
        ;;
    esac
    ;;

```

```

        s390*-*linux*)
            LD="{LD-ld} -m elf64_s390"
            ;;
        sparc*-*linux*)
            LD="{LD-ld} -m elf64_sparc"
            ;;
    esac
    ;;
esac
fi
rm -rf confptest*
;;

*-*--sco3.2v5*)
    # On SCO OpenServer 5, we need -belf to get full-featured binaries.
    SAVE_CFLAGS="$CFLAGS"
    CFLAGS="$CFLAGS -belf"
    AC_CACHE_CHECK([whether the C compiler needs -belf],
lt_cv_cc_needs_belf,
        [AC_LANG_PUSH(C)

AC_TRY_LINK([], [], [lt_cv_cc_needs_belf=yes], [lt_cv_cc_needs_belf=no])
        AC_LANG_POP])
    if test x"$lt_cv_cc_needs_belf" != x"yes"; then
        # this is probably gcc 2.8.0, egcs 1.0 or newer; no need for -belf
        CFLAGS="$SAVE_CFLAGS"
    fi
    ;;
sparc*-*solaris*)
    # Find out which ABI we are using.
    echo 'int i;' > confptest.$ac_ext
    if AC_TRY_EVAL(ac_compile); then
        case `usr/bin/file confptest.o` in
            *64-bit*)
                case $lt_cv_prog_gnu_ld in
                    yes*) LD="{LD-ld} -m elf64_sparc" ;;
                    *) LD="{LD-ld} -64" ;;
                esac
            ;;
        esac
    fi
    rm -rf confptest*
    ;;

AC_PROVIDE_IFELSE([AC_LIBTOOL_WIN32_DLL],
[*-*--cygwin* | *-*--mingw* | *-*--pw32*)
    AC_CHECK_TOOL(DLLTOOL, dlltool, false)
    AC_CHECK_TOOL(AS, as, false)
    AC_CHECK_TOOL(OBJDUMP, objdump, false)
    ;;
])
esac

need_locks="$enable_libtool_lock"

```

```

])# _LT_AC_LOCK

# AC_LIBTOOL_COMPILER_OPTION(MESSAGE, VARIABLE-NAME, FLAGS,
#                             [OUTPUT-FILE], [ACTION-SUCCESS], [ACTION-FAILURE])
# -----
# Check whether the given compiler option works
AC_DEFUN([AC_LIBTOOL_COMPILER_OPTION],
[AC_REQUIRE([LT_AC_PROG_SED])
AC_CACHE_CHECK([$1], [$2],
  [$2=no
  ifelse([$4], , [ac_outfile=conftest.$ac_objext], [ac_outfile=$4])
  printf "$lt_simple_compile_test_code" > conftest.$ac_ext
  lt_compiler_flag="$3"
  # Insert the option either (1) after the last *FLAGS variable, or
  # (2) before a word containing "conftest.", or (3) at the end.
  # Note that $ac_compile itself does not contain backslashes and begins
  # with a dollar sign (not a hyphen), so the echo should work
correctly.
  # The option is referenced via a variable to avoid confusing sed.
  lt_compile=`echo "$ac_compile" | $SED \
-e 's:.*FLAGS}\{0,1\}:&$lt_compiler_flag ;; t' \
-e 's: [[^ ]]*conftest\.: $lt_compiler_flag&; t' \
-e 's:$: $lt_compiler_flag:'`
  (eval echo "\"\$as_me:__oline__: $lt_compile\"" >&AS_MESSAGE_LOG_FD)
  (eval "$lt_compile" 2>conftest.err)
  ac_status=$?
  cat conftest.err >&AS_MESSAGE_LOG_FD
  echo "$as_me:__oline__: \ $? = $ac_status" >&AS_MESSAGE_LOG_FD
  if (exit $ac_status) && test -s "$ac_outfile"; then
    # The compiler can only warn and ignore the option if not recognized
    # So say no if there are warnings other than the usual output.
    $echo "X$lt_compiler_boilerplate" | $Xsed -e '/^$/d' >conftest.exp
    $SED '/^$/d; /^ *+/d' conftest.err >conftest.er2
    if test ! -s conftest.er2 || diff conftest.exp conftest.er2
>/dev/null; then
      $2=yes
    fi
  fi
  $rm conftest*
])

if test x"$[$2]" = xyes; then
  ifelse([$5], , :, [$5])
else
  ifelse([$6], , :, [$6])
fi
])# AC_LIBTOOL_COMPILER_OPTION

# AC_LIBTOOL_LINKER_OPTION(MESSAGE, VARIABLE-NAME, FLAGS,
#                            [ACTION-SUCCESS], [ACTION-FAILURE])
# -----

```



```

# Check whether the given compiler option works
AC_DEFUN([AC_LIBTOOL_LINKER_OPTION],
[AC_CACHE_CHECK([$1], [$2],
[$2=no
save_LDFLAGS="$LDFLAGS"
LDFLAGS="$LDFLAGS $3"
printf "$lt_simple_link_test_code" > conftest.$ac_ext
if (eval $ac_link 2>conftest.err) && test -s conftest.$ac_exeext; then
# The linker can only warn and ignore the option if not recognized
# So say no if there are warnings
if test -s conftest.err; then
# Append any errors to the config.log.
cat conftest.err 1>&AS_MESSAGE_LOG_FD
$echo "X$lt_linker_boilerplate" | $Xsed -e '/^$/d' > conftest.exp
$SED '/^$/d; /^ *+/d' conftest.err >conftest.er2
if diff conftest.exp conftest.er2 >/dev/null; then
$2=yes
fi
else
$2=yes
fi
fi
$rm conftest*
LDFLAGS="$save_LDFLAGS"
])

if test x"[$]$2" = xyes; then
ifelse([$4], , :, [$4])
else
ifelse([$5], , :, [$5])
fi
])# AC_LIBTOOL_LINKER_OPTION

# AC_LIBTOOL_SYS_MAX_CMD_LEN
# -----
AC_DEFUN([AC_LIBTOOL_SYS_MAX_CMD_LEN],
[# find the maximum length of command line arguments
AC_MSG_CHECKING([the maximum length of command line arguments])
AC_CACHE_VAL([lt_cv_sys_max_cmd_len], [dnl
i=0
teststring="ABCD"

case $build_os in
msdosdjgpp*)
# On DJGPP, this test can blow up pretty badly due to problems in
libc
# (any single argument exceeding 2000 bytes causes a buffer overrun
# during glob expansion). Even if it were fixed, the result of this
# check would be larger than it should be.
lt_cv_sys_max_cmd_len=12288; # 12K is about right
;;

gnu*)

```

```

# Under GNU Hurd, this test is not required because there is
# no limit to the length of command line arguments.
# Libtool will interpret -1 as no limit whatsoever
lt_cv_sys_max_cmd_len=-1;
;;

cygwin* | mingw*)
# On Win9x/ME, this test blows up -- it succeeds, but takes
# about 5 minutes as the teststring grows exponentially.
# Worse, since 9x/ME are not pre-emptively multitasking,
# you end up with a "frozen" computer, even though with patience
# the test eventually succeeds (with a max line length of 256k).
# Instead, let's just punt: use the minimum linelength reported by
# all of the supported platforms: 8192 (on NT/2K/XP).
lt_cv_sys_max_cmd_len=8192;
;;

amigaos*)
# On AmigaOS with pdksh, this test takes hours, literally.
# So we just punt and use a minimum line length of 8192.
lt_cv_sys_max_cmd_len=8192;
;;

netbsd* | freebsd* | openbsd* | darwin* | dragonfly*)
# This has been around since 386BSD, at least. Likely further.
if test -x /sbin/sysctl; then
  lt_cv_sys_max_cmd_len=`/sbin/sysctl -n kern.argmax`
elif test -x /usr/sbin/sysctl; then
  lt_cv_sys_max_cmd_len=`/usr/sbin/sysctl -n kern.argmax`
else
  lt_cv_sys_max_cmd_len=65536 # usable default for all BSDs
fi
# And add a safety zone
lt_cv_sys_max_cmd_len=`expr $lt_cv_sys_max_cmd_len \/ 4`
lt_cv_sys_max_cmd_len=`expr $lt_cv_sys_max_cmd_len \* 3`
;;

interix*)
# We know the value 262144 and hardcode it with a safety zone (like
BSD)
lt_cv_sys_max_cmd_len=196608
;;

osf*)
# Dr. Hans Ekkehard Plesser reports seeing a kernel panic running
configure
# due to this test when exec_disable_arg_limit is 1 on Tru64. It is
not
# nice to cause kernel panics so lets avoid the loop below.
# First set a reasonable default.
lt_cv_sys_max_cmd_len=16384
#
if test -x /sbin/sysconfig; then
  case ` /sbin/sysconfig -q proc exec_disable_arg_limit` in

```

```

        *1*) lt_cv_sys_max_cmd_len=-1 ;;
    esac
    fi
    ;;
sco3.2v5*)
    lt_cv_sys_max_cmd_len=102400
    ;;
sysv5* | sco5v6* | sysv4.2uw2*)
    kargmax=`grep ARG_MAX /etc/conf/cf.d/stune 2>/dev/null`
    if test -n "$kargmax"; then
        lt_cv_sys_max_cmd_len=`echo $kargmax | sed 's/.*[[ ]]//'\`
    else
        lt_cv_sys_max_cmd_len=32768
    fi
    ;;
*)
    # If test is not a shell built-in, we'll probably end up computing a
    # maximum length that is only half of the actual maximum length, but
    # we can't tell.
    SHELL=${SHELL-${CONFIG_SHELL-/bin/sh}}
    while (test "X"`$SHELL [$@]0 --fallback-echo "X$teststring"
2>/dev/null` \
        = "XX$teststring") >/dev/null 2>&1 &&
        new_result=`expr "X$teststring" : ".*" 2>&1` &&
        lt_cv_sys_max_cmd_len=$new_result &&
        test $i != 17 # 1/2 MB should be enough
    do
        i=`expr $i + 1`
        teststring=$teststring$teststring
    done
    teststring=
    # Add a significant safety factor because C++ compilers can tack on
massive
    # amounts of additional arguments before passing them to the linker.
    # It appears as though 1/2 is a usable value.
    lt_cv_sys_max_cmd_len=`expr $lt_cv_sys_max_cmd_len \/ 2`
    ;;
esac
])
if test -n $lt_cv_sys_max_cmd_len ; then
    AC_MSG_RESULT($lt_cv_sys_max_cmd_len)
else
    AC_MSG_RESULT(none)
fi
])# AC_LIBTOOL_SYS_MAX_CMD_LEN

# _LT_AC_CHECK_DLFCN
# -----
AC_DEFUN([_LT_AC_CHECK_DLFCN],
[AC_CHECK_HEADERS(dlfcn.h)dnl
])# _LT_AC_CHECK_DLFCN

```

```

# _LT_AC_TRY_DLOPEN_SELF (ACTION-IF-TRUE, ACTION-IF-TRUE-W-USCORE,
#                          ACTION-IF-FALSE, ACTION-IF-CROSS-COMPILING)
# -----
AC_DEFUN([_LT_AC_TRY_DLOPEN_SELF],
[AC_REQUIRE([_LT_AC_CHECK_DLFCN])dnl
if test "$cross_compiling" = yes; then :
  [$4]
else
  lt_dlunknown=0; lt_dlno_uscore=1; lt_dlneed_uscore=2
  lt_status=$lt_dlunknown
  cat > conftest.$ac_ext <<EOF
[#line __oline__ "configure"
#include "confdefs.h"

#if HAVE_DLFCN_H
#include <dlfcn.h>
#endif

#include <stdio.h>

#ifdef RTLD_GLOBAL
#  define LT_DLGLOBAL          RTLD_GLOBAL
#else
#  ifdef DL_GLOBAL
#    define LT_DLGLOBAL        DL_GLOBAL
#  else
#    define LT_DLGLOBAL        0
#  endif
#endif

/* We may have to define LT_DLLAZY_OR_NOW in the command line if we
   find out it does not work in some platform. */
#ifndef LT_DLLAZY_OR_NOW
#  ifdef RTLD_LAZY
#    define LT_DLLAZY_OR_NOW    RTLD_LAZY
#  else
#    ifdef DL_LAZY
#      define LT_DLLAZY_OR_NOW    DL_LAZY
#    else
#      ifdef RTLD_NOW
#        define LT_DLLAZY_OR_NOW    RTLD_NOW
#      else
#        ifdef DL_NOW
#          define LT_DLLAZY_OR_NOWDL_NOW
#        else
#          define LT_DLLAZY_OR_NOW0
#        endif
#      endif
#    endif
#  endif
#endif

#ifdef __cplusplus
extern "C" void exit (int);

```

```

#endif

void fnord() { int i=42;}
int main ()
{
  void *self = dlopen (0, LT_DLGLOBAL|LT_DLLAZY_OR_NOW);
  int status = $lt_dlunknown;

  if (self)
    {
      if (dlsym (self,"fnord"))      status = $lt_dlno_uscore;
      else if (dlsym( self,"_fnord")) status = $lt_dlneed_uscore;
      /* dlclose (self); */
    }
  else
    puts (dlerror ());

  exit (status);
}]
EOF
if AC_TRY_EVAL(ac_link) && test -s conftest${ac_exeext} 2>/dev/null;
then
  (./conftest; exit; ) >&AS_MESSAGE_LOG_FD 2>/dev/null
  lt_status=$?
  case x$lt_status in
    x$lt_dlno_uscore) $1 ;;
    x$lt_dlneed_uscore) $2 ;;
    x$lt_dlunknown|x*) $3 ;;
  esac
else :
  # compilation failed
  $3
fi
fi
rm -fr conftest*
])# _LT_AC_TRY_DLOPEN_SELF

# AC_LIBTOOL_DLOPEN_SELF
# -----
AC_DEFUN([AC_LIBTOOL_DLOPEN_SELF],
[AC_REQUIRE([_LT_AC_CHECK_DLFCN])dnl
if test "x$enable_dlopen" != xyes; then
  enable_dlopen=unknown
  enable_dlopen_self=unknown
  enable_dlopen_self_static=unknown
else
  lt_cv_dlopen=no
  lt_cv_dlopen_libs=

  case $host_os in
    beos*)
      lt_cv_dlopen="load_add_on"
      lt_cv_dlopen_libs=

```

```

    lt_cv_dlopen_self=yes
    ;;

mingw* | pw32*)
    lt_cv_dlopen="LoadLibrary"
    lt_cv_dlopen_libs=
    ;;

cygwin*)
    lt_cv_dlopen="dlopen"
    lt_cv_dlopen_libs=
    ;;

darwin*)
# if libdl is installed we need to link against it
    AC_CHECK_LIB([dl], [dlopen],
        [lt_cv_dlopen="dlopen" lt_cv_dlopen_libs="-ldl"], [
    lt_cv_dlopen="dyld"
    lt_cv_dlopen_libs=
    lt_cv_dlopen_self=yes
    ])
    ;;

*)
    AC_CHECK_FUNC([shl_load],
        [lt_cv_dlopen="shl_load"],
        [AC_CHECK_LIB([dld], [shl_load],
            [lt_cv_dlopen="shl_load" lt_cv_dlopen_libs="-dld"],
            [AC_CHECK_FUNC([dlopen],
                [lt_cv_dlopen="dlopen"],
                [AC_CHECK_LIB([dl], [dlopen],
                    [lt_cv_dlopen="dlopen" lt_cv_dlopen_libs="-ldl"],
                    [AC_CHECK_LIB([svld], [dlopen],
                        [lt_cv_dlopen="dlopen" lt_cv_dlopen_libs="-lsvld"],
                        [AC_CHECK_LIB([dld], [dld_link],
                            [lt_cv_dlopen="dld_link" lt_cv_dlopen_libs="-dld"])
                        ])
                    ])
                ])
            ])
        ])
    ;;
esac

if test "x$lt_cv_dlopen" != xno; then
    enable_dlopen=yes
else
    enable_dlopen=no
fi

case $lt_cv_dlopen in
dlopen)
    save_CPPFLAGS="$CPPFLAGS"

```

```

    test "x$ac_cv_header_dlfcn_h" = xyes && CPPFLAGS="$CPPFLAGS -
DHAVE_DLFCN_H"

    save_LDFLAGS="$LDFLAGS"
    wl=$lt_prog_compiler_wl eval LDFLAGS="\`$LDFLAGS
$export_dynamic_flag_spec\`"

    save_LIBS="$LIBS"
    LIBS="$lt_cv_dlopen_libs $LIBS"

    AC_CACHE_CHECK([whether a program can dlopen itself],
        lt_cv_dlopen_self, [dnl
        _LT_AC_TRY_DLOPEN_SELF(
            lt_cv_dlopen_self=yes, lt_cv_dlopen_self=yes,
            lt_cv_dlopen_self=no, lt_cv_dlopen_self=cross)
        ])

    if test "x$lt_cv_dlopen_self" = xyes; then
        wl=$lt_prog_compiler_wl eval LDFLAGS="\`$LDFLAGS
$lt_prog_compiler_static\`"
        AC_CACHE_CHECK([whether a statically linked program can dlopen
itself],
            lt_cv_dlopen_self_static, [dnl
            _LT_AC_TRY_DLOPEN_SELF(
                lt_cv_dlopen_self_static=yes, lt_cv_dlopen_self_static=yes,
                lt_cv_dlopen_self_static=no, lt_cv_dlopen_self_static=cross)
            ])
        fi

        CPPFLAGS="$save_CPPFLAGS"
        LDFLAGS="$save_LDFLAGS"
        LIBS="$save_LIBS"
        ;;
    esac

    case $lt_cv_dlopen_self in
    yes|no) enable_dlopen_self=$lt_cv_dlopen_self ;;
    *) enable_dlopen_self=unknown ;;
    esac

    case $lt_cv_dlopen_self_static in
    yes|no) enable_dlopen_self_static=$lt_cv_dlopen_self_static ;;
    *) enable_dlopen_self_static=unknown ;;
    esac
fi
])# AC_LIBTOOL_DLOPEN_SELF

# AC_LIBTOOL_PROG_CC_C_O([TAGNAME])
# -----
# Check to see if options -c and -o are simultaneously supported by
compiler
AC_DEFUN([AC_LIBTOOL_PROG_CC_C_O],
[AC_REQUIRE([_LT_AC_SYS_COMPILER])dnl

```

```

AC_CACHE_CHECK([if $compiler supports -c -o file.$ac_objext],
[_LT_AC_TAGVAR(lt_cv_prog_compiler_c_o, $1)],
[_LT_AC_TAGVAR(lt_cv_prog_compiler_c_o, $1)=no
  $rm -r confptest 2>/dev/null
  mkdir confptest
  cd confptest
  mkdir out
  printf "$lt_simple_compile_test_code" > confptest.$ac_ext

  lt_compiler_flag="-o out/confptest2.$ac_objext"
  # Insert the option either (1) after the last *FLAGS variable, or
  # (2) before a word containing "confptest.", or (3) at the end.
  # Note that $ac_compile itself does not contain backslashes and begins
  # with a dollar sign (not a hyphen), so the echo should work
correctly.
  lt_compile=`echo "$ac_compile" | $SED \
-e 's:.*FLAGS}\{0,1\} :&$lt_compiler_flag ;; t' \
-e 's: [[^ ]]*confptest\. : $lt_compiler_flag&; t' \
-e 's:$ : $lt_compiler_flag:'`
  (eval echo "\"\$as_me:__oline__: $lt_compile\"" >&AS_MESSAGE_LOG_FD)
  (eval "$lt_compile" 2>out/confptest.err)
  ac_status=$?
  cat out/confptest.err >&AS_MESSAGE_LOG_FD
  echo "$as_me:__oline__: \ $? = $ac_status" >&AS_MESSAGE_LOG_FD
  if (exit $ac_status) && test -s out/confptest2.$ac_objext
  then
    # The compiler can only warn and ignore the option if not recognized
    # So say no if there are warnings
    $echo "X$lt_compiler_boilerplate" | $Xsed -e '/^$/d' >
out/confptest.exp
    $SED '/^$/d; /^ *+/d' out/confptest.err >out/confptest.er2
    if test ! -s out/confptest.er2 || diff out/confptest.exp
out/confptest.er2 >/dev/null; then
      _LT_AC_TAGVAR(lt_cv_prog_compiler_c_o, $1)=yes
    fi
  fi
  chmod u+w . 2>&AS_MESSAGE_LOG_FD
  $rm confptest*
  # SGI C++ compiler will create directory out/ii_files/ for
  # template instantiation
  test -d out/ii_files && $rm out/ii_files/* && rmdir out/ii_files
  $rm out/* && rmdir out
  cd ..
  rmdir confptest
  $rm confptest*
])
])# AC_LIBTOOL_PROG_CC_C_O

# AC_LIBTOOL_SYS_HARD_LINK_LOCKS([TAGNAME])
# -----
# Check to see if we can do hard links to lock some files if needed
AC_DEFUN([AC_LIBTOOL_SYS_HARD_LINK_LOCKS],
[AC_REQUIRE([_LT_AC_LOCK])dnl

```



```

hard_links="nottested"
if test "$_LT_AC_TAGVAR(lt_cv_prog_compiler_c_o, $1)" = no && test
"$need_locks" != no; then
  # do not overwrite the value of need_locks provided by the user
  AC_MSG_CHECKING([if we can lock with hard links])
  hard_links=yes
  $rm conftest*
  ln conftest.a conftest.b 2>/dev/null && hard_links=no
  touch conftest.a
  ln conftest.a conftest.b 2>&5 || hard_links=no
  ln conftest.a conftest.b 2>/dev/null && hard_links=no
  AC_MSG_RESULT([$hard_links])
  if test "$hard_links" = no; then
    AC_MSG_WARN([`$CC' does not support `-c -o', so `make -j' may be
unsafe])
    need_locks=warn
  fi
else
  need_locks=no
fi
])# AC_LIBTOOL_SYS_HARD_LINK_LOCKS

# AC_LIBTOOL_OBJDIR
# -----
AC_DEFUN([AC_LIBTOOL_OBJDIR],
[AC_CACHE_CHECK([for objdir], [lt_cv_objdir],
[rm -f .libs 2>/dev/null
mkdir .libs 2>/dev/null
if test -d .libs; then
  lt_cv_objdir=.libs
else
  # MS-DOS does not allow filenames that begin with a dot.
  lt_cv_objdir=_libs
fi
rmdir .libs 2>/dev/null])
objdir=$lt_cv_objdir
])# AC_LIBTOOL_OBJDIR

# AC_LIBTOOL_PROG_LD_HARDCODE_LIBPATH([TAGNAME])
# -----
# Check hardcoding attributes.
AC_DEFUN([AC_LIBTOOL_PROG_LD_HARDCODE_LIBPATH],
[AC_MSG_CHECKING([how to hardcode library paths into programs])
_LT_AC_TAGVAR(hardcode_action, $1)=
if test -n "$_LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)" || \
test -n "$_LT_AC_TAGVAR(runpath_var, $1)" || \
test "X$_LT_AC_TAGVAR(hardcode_automatic, $1)" = "Xyes" ; then

# We can hardcode non-existent directories.
if test "$_LT_AC_TAGVAR(hardcode_direct, $1)" != no &&
  # If the only mechanism to avoid hardcoding is shlibpath_var, we

```

```

    # have to relink, otherwise we might link with an installed library
    # when we should be linking with a yet-to-be-installed one
    ## test "$_LT_AC_TAGVAR(hardcode_shlibpath_var, $1)" != no &&
    test "$_LT_AC_TAGVAR(hardcode_minus_L, $1)" != no; then
    # Linking always hardcodes the temporary library directory.
    _LT_AC_TAGVAR(hardcode_action, $1)=relink
  else
    # We can link without hardcoding, and we can hardcode nonexisting
    dirs.
    _LT_AC_TAGVAR(hardcode_action, $1)=immediate
  fi
else
  # We cannot hardcode anything, or else we can only hardcode existing
  # directories.
  _LT_AC_TAGVAR(hardcode_action, $1)=unsupported
fi
AC_MSG_RESULT([$_LT_AC_TAGVAR(hardcode_action, $1)])

if test "$_LT_AC_TAGVAR(hardcode_action, $1)" = relink; then
  # Fast installation is not supported
  enable_fast_install=no
elif test "$shlibpath_overrides_runpath" = yes ||
  test "$enable_shared" = no; then
  # Fast installation is not necessary
  enable_fast_install=needless
fi
])# AC_LIBTOOL_PROG_LD_HARDCODE_LIBPATH

# AC_LIBTOOL_SYS_LIB_STRIP
# -----
AC_DEFUN([AC_LIBTOOL_SYS_LIB_STRIP],
[striplib=
old_striplib=
AC_MSG_CHECKING([whether stripping libraries is possible])
if test -n "$STRIP" && $STRIP -V 2>&1 | grep "GNU strip" >/dev/null; then
  test -z "$old_striplib" && old_striplib="$STRIP --strip-debug"
  test -z "$striplib" && striplib="$STRIP --strip-unneeded"
  AC_MSG_RESULT([yes])
else
# FIXME - insert some real tests, host_os isn't really good enough
  case $host_os in
    darwin*)
      if test -n "$STRIP" ; then
        striplib="$STRIP -x"
        AC_MSG_RESULT([yes])
      else
        AC_MSG_RESULT([no])
      fi
    *)
      AC_MSG_RESULT([no])
    ;;
  esac
]

```

```

fi
])# AC_LIBTOOL_SYS_LIB_STRIP

# AC_LIBTOOL_SYS_DYNAMIC_LINKER
# -----
# PORTME Fill in your ld.so characteristics
AC_DEFUN([AC_LIBTOOL_SYS_DYNAMIC_LINKER],
[AC_MSG_CHECKING([dynamic linker characteristics])
library_names_spec=
libname_spec='lib$name'
soname_spec=
shrext_cmds=".so"
postinstall_cmds=
postuninstall_cmds=
finish_cmds=
finish_eval=
shlibpath_var=
shlibpath_overrides_runpath=unknown
version_type=none
dynamic_linker="$host_os ld.so"
sys_lib_dlsearch_path_spec="/lib /usr/lib"
if test "$GCC" = yes; then
  sys_lib_search_path_spec=`$CC -print-search-dirs | grep "^libraries:" |
$SED -e "s/^libraries://" -e "s,=,/,g"`
  if echo "$sys_lib_search_path_spec" | grep ';' >/dev/null ; then
    # if the path contains ";" then we assume it to be the separator
    # otherwise default to the standard path separator (i.e. ":") - it is
    # assumed that no part of a normal pathname contains ";" but that
    should
    # okay in the real world where ";" in dirpaths is itself problematic.
    sys_lib_search_path_spec=`echo "$sys_lib_search_path_spec" | $SED -e
's;/ /g'`
  else
    sys_lib_search_path_spec=`echo "$sys_lib_search_path_spec" | $SED -e
"s/$PATH_SEPARATOR/ /g"`
  fi
else
  sys_lib_search_path_spec="/lib /usr/lib /usr/local/lib"
fi
need_lib_prefix=unknown
hardcode_into_libs=no

# when you set need_version to no, make sure it does not cause -
set_version
# flags to be left without arguments
need_version=unknown

case $host_os in
aix3*)
  version_type=linux
  library_names_spec='${libname}${release}${shared_ext}$versuffix
$libname.a'
  shlibpath_var=LIBPATH

```

```

# AIX 3 has no versioning support, so we append a major version to the
name.
soname_spec='${libname}${release}${shared_ext}$major'
;;

aix4* | aix5*)
version_type=linux
need_lib_prefix=no
need_version=no
hardcode_into_libs=yes
if test "$host_cpu" = ia64; then
# AIX 5 supports IA64
library_names_spec='${libname}${release}${shared_ext}$major
${libname}${release}${shared_ext}$versuffix $libname${shared_ext}'
shlibpath_var=LD_LIBRARY_PATH
else
# With GCC up to 2.95.x, collect2 would create an import file
# for dependence libraries. The import file would start with
# the line `#! .' . This would cause the generated library to
# depend on `.', always an invalid library. This was fixed in
# development snapshots of GCC prior to 3.0.
case $host_os in
aix4 | aix4.[[01]] | aix4.[[01]].*)
if { echo '#if __GNUC__ > 2 || (__GNUC__ == 2 && __GNUC_MINOR__ >=
97)';
echo ' yes '
echo '#endif'; } | ${CC} -E - | grep yes > /dev/null; then
:
else
can_build_shared=no
fi
fi
;;
esac
# AIX (on Power*) has no versioning support, so currently we can not
hardcode correct
# soname into executable. Probably we can add versioning support to
# collect2, so additional links can be useful in future.
if test "$aix_use_runtimelinking" = yes; then
# If using run time linking (on AIX 4.2 or later) use lib<name>.so
# instead of lib<name>.a to let people know that these are not
# typical AIX shared libraries.
library_names_spec='${libname}${release}${shared_ext}$versuffix
${libname}${release}${shared_ext}$major $libname${shared_ext}'
else
# We preserve .a as extension for shared libraries through AIX4.2
# and later when we are not doing run time linking.
library_names_spec='${libname}${release}.a $libname.a'
soname_spec='${libname}${release}${shared_ext}$major'
fi
shlibpath_var=LIBPATH
fi
;;

```

```

amigaos*)
    library_names_spec='$libname.ixlibrary $libname.a'
    # Create ${libname}_ixlibrary.a entries in /sys/libs.
    finish_eval='for lib in `ls $libdir/*.ixlibrary 2>/dev/null`; do
libname=`$echo "X$lib" | $Xsed -e
'\''s%^.*/\([[^/]]*\)\.ixlibrary$%\1%'\''`; test $rm
/sys/libs/${libname}_ixlibrary.a; $show "cd /sys/libs && $LN_S $lib
${libname}_ixlibrary.a"; cd /sys/libs && $LN_S $lib
${libname}_ixlibrary.a || exit 1; done'
    ;;

beos*)
    library_names_spec='${libname}${shared_ext}'
    dynamic_linker="$host_os ld.so"
    shlibpath_var=LIBRARY_PATH
    ;;

bsdi[[45]]*)
    version_type=linux
    need_version=no
    library_names_spec='${libname}${release}${shared_ext}$versuffix
${libname}${release}${shared_ext}$major $libname${shared_ext}'
    soname_spec='${libname}${release}${shared_ext}$major'
    finish_cmds='PATH="$PATH:/sbin" ldconfig $libdir'
    shlibpath_var=LD_LIBRARY_PATH
    sys_lib_search_path_spec="/shlib /usr/lib /usr/X11/lib /usr/contrib/lib
/lib /usr/local/lib"
    sys_lib_dlsearch_path_spec="/shlib /usr/lib /usr/local/lib"
    # the default ld.so.conf also contains /usr/contrib/lib and
    # /usr/X11R6/lib (/usr/X11 is a link to /usr/X11R6), but let us allow
    # libtool to hard-code these into programs
    ;;

cygwin* | mingw* | pw32*)
    version_type=windows
    shrext_cmds=".dll"
    need_version=no
    need_lib_prefix=no

    case $GCC,$host_os in
    yes,cygwin* | yes,mingw* | yes,pw32*)
        library_names_spec='$libname.dll.a'
        # DLL is installed to $(libdir)/../bin by postinstall_cmds
        postinstall_cmds='base_file=`basename \${file}`~
        dlpath=`$SHELL 2>&1 -c '\''. $dir/\${base_file}'\''i;echo
\${dlname}'\''`~
        dldir=$destdir/`dirname \${dlpath}`~
        test -d \${dldir} || mkdir -p \${dldir}~
        $install_prog $dir/\${dlname} \${dldir}/\${dlname}~
        chmod a+x \${dldir}/\${dlname}'
        postuninstall_cmds='dldll=`$SHELL 2>&1 -c '\''. $file; echo
\${dlname}'\''`~
        dlpath=$dir/\${dldll}~
        $rm \${dlpath}'
    esac

```

```

shlibpath_overrides_runpath=yes

case $host_os in
  cygwin*)
    # Cygwin DLLs use 'cyg' prefix rather than 'lib'
    soname_spec=`echo ${libname} | sed -e 's/^lib/cyg/'`echo
    ${release} | $SED -e 's/[[]]/-/g'`${versuffix}${shared_ext}'
    sys_lib_search_path_spec="/usr/lib /lib/w32api /lib /usr/local/lib"
    ;;
  mingw*)
    # MinGW DLLs use traditional 'lib' prefix
    soname_spec='${libname}`echo ${release} | $SED -e 's/[[]]/-/'
    /g'`${versuffix}${shared_ext}'
    sys_lib_search_path_spec=`$CC -print-search-dirs | grep
    "^libraries:" | $SED -e "s/^libraries://" -e "s,=,/,g"`
    if echo "$sys_lib_search_path_spec" | [grep ';[c-zA-Z]:/'
    >/dev/null]; then
      # It is most probably a Windows format PATH printed by
      # mingw gcc, but we are running on Cygwin. Gcc prints its search
      # path with ; separators, and with drive letters. We can handle
      the
      # drive letters (cygwin fileutils understands them), so leave
      them,
      # especially as we might pass files found there to a mingw
      objdump,
      # which wouldn't understand a cygwinified path. Ahh.
      sys_lib_search_path_spec=`echo "$sys_lib_search_path_spec" | $SED
      -e 's;/ /g'`
    else
      sys_lib_search_path_spec=`echo "$sys_lib_search_path_spec" | $SED
      -e "s/$PATH_SEPARATOR/ /g"`
    fi
    ;;
  pw32*)
    # pw32 DLLs use 'pw' prefix rather than 'lib'
    library_names_spec=`echo ${libname} | sed -e 's/^lib/pw/'`echo
    ${release} | $SED -e 's/[[]]/-/g'`${versuffix}${shared_ext}'
    ;;
  esac
  ;;
*)
    library_names_spec='${libname}`echo ${release} | $SED -e 's/[[]]/-/'
    /g'`${versuffix}${shared_ext} $libname.lib'
    ;;
  esac
  dynamic_linker='Win32 ld.exe'
  # FIXME: first we should search . and the directory the executable is
  in
  shlibpath_var=PATH
  ;;
darwin* | rhapsody*)
  dynamic_linker="$host_os dyld"

```

```

version_type=darwin
need_lib_prefix=no
need_version=no
library_names_spec='${libname}${release}${versuffix}$shared_ext
${libname}${release}${major}$shared_ext ${libname}$shared_ext'
soname_spec='${libname}${release}${major}$shared_ext'
shlibpath_overrides_runpath=yes
shlibpath_var=DYLD_LIBRARY_PATH
shrext_cmds='`test $.module = .yes && echo .so || echo .dylib`'
# Apple's gcc prints 'gcc -print-search-dirs' doesn't operate the same.
if test "$GCC" = yes; then
    sys_lib_search_path_spec=`$CC -print-search-dirs | tr "\n"
"$PATH_SEPARATOR" | sed -e 's/libraries:@libraries:/' | tr "@" "\n" |
grep "^libraries:" | sed -e "s/^libraries:/" -e "s,=/,/,g" -e
"s,$PATH_SEPARATOR, ,g" -e "s,.*, & /lib /usr/lib /usr/local/lib,g"`
else
    sys_lib_search_path_spec='/lib /usr/lib /usr/local/lib'
fi
sys_lib_dlsearch_path_spec='/usr/local/lib /lib /usr/lib'
;;

```

dgux\*)

```

version_type=linux
need_lib_prefix=no
need_version=no
library_names_spec='${libname}${release}${shared_ext}$versuffix
${libname}${release}${shared_ext}$major ${libname}$shared_ext'
soname_spec='${libname}${release}${shared_ext}$major'
shlibpath_var=LD_LIBRARY_PATH
;;

```

freebsd1\*)

```

dynamic_linker=no
;;

```

kfreebsd\*-gnu)

```

version_type=linux
need_lib_prefix=no
need_version=no
library_names_spec='${libname}${release}${shared_ext}$versuffix
${libname}${release}${shared_ext}$major ${libname}${shared_ext}'
soname_spec='${libname}${release}${shared_ext}$major'
shlibpath_var=LD_LIBRARY_PATH
shlibpath_overrides_runpath=no
hardcode_into_libs=yes
dynamic_linker='GNU ld.so'
;;

```

freebsd\* | dragonfly\*)

```

# DragonFly does not have aout.  When/if they implement a new
# versioning mechanism, adjust this.
if test -x /usr/bin/objformat; then
    objformat=`/usr/bin/objformat`
else

```

```

        case $host_os in
            freebsd[[123]]*) objformat=aout ;;
            *) objformat=elf ;;
        esac
    fi
    version_type=freebsd-$objformat
    case $version_type in
        freebsd-elf*)
            library_names_spec='${libname}${release}${shared_ext}$versuffix
${libname}${release}${shared_ext} $libname${shared_ext}'
            need_version=no
            need_lib_prefix=no
            ;;
        freebsd-*)
            library_names_spec='${libname}${release}${shared_ext}$versuffix
$libname${shared_ext}$versuffix'
            need_version=yes
            ;;
    esac
    shlibpath_var=LD_LIBRARY_PATH
    case $host_os in
        freebsd2*)
            shlibpath_overrides_runpath=yes
            ;;
        freebsd3.[[01]]* | freebsdelf3.[[01]]*)
            shlibpath_overrides_runpath=yes
            hardcode_into_libs=yes
            ;;
        freebsd3.[[2-9]]* | freebsdelf3.[[2-9]]* | \
        freebsd4.[[0-5]] | freebsdelf4.[[0-5]] | freebsd4.1.1 |
        freebsdelf4.1.1)
            shlibpath_overrides_runpath=no
            hardcode_into_libs=yes
            ;;
        freebsd*) # from 4.6 on
            shlibpath_overrides_runpath=yes
            hardcode_into_libs=yes
            ;;
    esac
    ;;
gnu*)
    version_type=linux
    need_lib_prefix=no
    need_version=no
    library_names_spec='${libname}${release}${shared_ext}$versuffix
${libname}${release}${shared_ext}${major} ${libname}${shared_ext}'
    soname_spec='${libname}${release}${shared_ext}$major'
    shlibpath_var=LD_LIBRARY_PATH
    hardcode_into_libs=yes
    ;;
hpux9* | hpux10* | hpux11*)

```



```

# Give a soname corresponding to the major version so that dld.sl
refuses to
# link against other versions.
version_type=sunos
need_lib_prefix=no
need_version=no
case $host_cpu in
ia64*)
    shrext_cmds='.so'
    hardcode_into_libs=yes
    dynamic_linker="$host_os dld.so"
    shlibpath_var=LD_LIBRARY_PATH
    shlibpath_overrides_runpath=yes # Unless +noenvvar is specified.
    library_names_spec='${libname}${release}${shared_ext}$versuffix
${libname}${release}${shared_ext}$major $libname${shared_ext}'
    soname_spec='${libname}${release}${shared_ext}$major'
    if test "X$HPUX_IA64_MODE" = X32; then
        sys_lib_search_path_spec="/usr/lib/hpux32 /usr/local/lib/hpux32
/usr/local/lib"
    else
        sys_lib_search_path_spec="/usr/lib/hpux64 /usr/local/lib/hpux64"
    fi
    sys_lib_dlsearch_path_spec=$sys_lib_search_path_spec
    ;;
hppa*64*)
    shrext_cmds='.sl'
    hardcode_into_libs=yes
    dynamic_linker="$host_os dld.sl"
    shlibpath_var=LD_LIBRARY_PATH # How should we handle SHLIB_PATH
shlibpath_overrides_runpath=yes # Unless +noenvvar is specified.
    library_names_spec='${libname}${release}${shared_ext}$versuffix
${libname}${release}${shared_ext}$major $libname${shared_ext}'
    soname_spec='${libname}${release}${shared_ext}$major'
    sys_lib_search_path_spec="/usr/lib/pa20_64 /usr/ccs/lib/pa20_64"
    sys_lib_dlsearch_path_spec=$sys_lib_search_path_spec
    ;;
*)
    shrext_cmds='.sl'
    dynamic_linker="$host_os dld.sl"
    shlibpath_var=SHLIB_PATH
    shlibpath_overrides_runpath=no # +s is required to enable SHLIB_PATH
    library_names_spec='${libname}${release}${shared_ext}$versuffix
${libname}${release}${shared_ext}$major $libname${shared_ext}'
    soname_spec='${libname}${release}${shared_ext}$major'
    ;;
esac
# HP-UX runs *really* slowly unless shared libraries are mode 555.
postinstall_cmds='chmod 555 $lib'
;;

interix3*)
    version_type=linux
    need_lib_prefix=no
    need_version=no

```

```

    library_names_spec='${libname}${release}${shared_ext}$versuffix
    ${libname}${release}${shared_ext}$major ${libname}${shared_ext}'
    soname_spec='${libname}${release}${shared_ext}$major'
    dynamic_linker='Interix 3.x ld.so.1 (PE, like ELF)'
    shlibpath_var=LD_LIBRARY_PATH
    shlibpath_overrides_runpath=no
    hardcode_into_libs=yes
    ;;

irix5* | irix6* | nonstopux*)
    case $host_os in
        nonstopux*) version_type=nonstopux ;;
        *)
            if test "$lt_cv_prog_gnu_ld" = yes; then
                version_type=linux
            else
                version_type=irix
            fi ;;
    esac
    need_lib_prefix=no
    need_version=no
    soname_spec='${libname}${release}${shared_ext}$major'
    library_names_spec='${libname}${release}${shared_ext}$versuffix
    ${libname}${release}${shared_ext}$major ${libname}${release}${shared_ext}
    $libname${shared_ext}'
    case $host_os in
        irix5* | nonstopux*)
            libsuff= shlibsuff=
            ;;
        *)
            case $LD in # libtool.m4 will add one of these switches to LD
                *-32|*" -32 |*" -melf32bsmip|*" -melf32bsmip ")
                    libsuff= shlibsuff= libmagic=32-bit;;
                *-n32|*" -n32 |*" -melf32bmipn32|*" -melf32bmipn32 ")
                    libsuff=32 shlibsuff=N32 libmagic=N32;;
                *-64|*" -64 |*" -melf64bmip|*" -melf64bmip ")
                    libsuff=64 shlibsuff=64 libmagic=64-bit;;
                *) libsuff= shlibsuff= libmagic=never-match;;
            esac
            ;;
    esac
    shlibpath_var=LD_LIBRARY${shlibsuff}_PATH
    shlibpath_overrides_runpath=no
    sys_lib_search_path_spec="/usr/lib${libsuff} /lib${libsuff}
    /usr/local/lib${libsuff}"
    sys_lib_dlsearch_path_spec="/usr/lib${libsuff} /lib${libsuff}"
    hardcode_into_libs=yes
    ;;

# No shared lib support for Linux oldld, aout, or coff.
linux*oldld* | linux*aout* | linux*coff*)
    dynamic_linker=no
    ;;

```

```

# This must be Linux ELF.
linux*)
    version_type=linux
    need_lib_prefix=no
    need_version=no
    library_names_spec='${libname}${release}${shared_ext}$versuffix
${libname}${release}${shared_ext}$major $libname${shared_ext}'
    soname_spec='${libname}${release}${shared_ext}$major'
    finish_cmds='PATH="$PATH:/sbin" ldconfig -n $libdir'
    shlibpath_var=LD_LIBRARY_PATH
    shlibpath_overrides_runpath=no
    # This implies no fast_install, which is unacceptable.
    # Some rework will be needed to allow for fast_install
    # before this can be enabled.
    hardcode_into_libs=yes

# find out which ABI we are using
libsuff=
case "$host_cpu" in
x86_64*|s390x*|powerpc64*)
    echo '[#]line __oline__ "configure"' > conftest.$ac_ext
    if AC_TRY_EVAL(ac_compile); then
        case `:/usr/bin/file conftest.$ac_objext` in
        *64-bit*)
            libsuff=64
            sys_lib_search_path_spec="/lib${libsuff} /usr/lib${libsuff}
/usr/local/lib${libsuff}"
            ;;
        esac
    fi
    rm -rf conftest*
    ;;
esac

# Append ld.so.conf contents to the search path
if test -f /etc/ld.so.conf; then
    lt_ld_extra=`awk '/^include / { system(sprintf("cd /etc; cat %s",
\[ $2)); skip = 1; } { if (!skip) print \[$]0; skip = 0; }' <
/etc/ld.so.conf | $SED -e 's/#.*//;s/[:,\t]*/ /g;s/=[^=]*$//;s/=[^= ]*
/ /g;/^$/d' | tr '\n' ' '`
    sys_lib_dlsearch_path_spec="/lib${libsuff} /usr/lib${libsuff}
$lt_ld_extra"
fi

# We used to test for /lib/ld.so.1 and disable shared libraries on
# powerpc, because MkLinux only supported shared libraries with the
# GNU dynamic linker. Since this was broken with cross compilers,
# most powerpc-linux boxes support dynamic linking these days and
# people can always --disable-shared, the test was removed, and we
# assume the GNU/Linux dynamic linker is in use.
dynamic_linker='GNU/Linux ld.so'
;;

knetbsd*-gnu)

```

```

    version_type=linux
    need_lib_prefix=no
    need_version=no
    library_names_spec='${libname}${release}${shared_ext}$versuffix
${libname}${release}${shared_ext}$major ${libname}${shared_ext}'
    soname_spec='${libname}${release}${shared_ext}$major'
    shlibpath_var=LD_LIBRARY_PATH
    shlibpath_overrides_runpath=no
    hardcode_into_libs=yes
    dynamic_linker='GNU ld.so'
    ;;

netbsd*)
    version_type=sunos
    need_lib_prefix=no
    need_version=no
    if echo __ELF__ | $CC -E - | grep __ELF__ >/dev/null; then
        library_names_spec='${libname}${release}${shared_ext}$versuffix
${libname}${shared_ext}$versuffix'
        finish_cmds='PATH="\$PATH:/sbin" ldconfig -m $libdir'
        dynamic_linker='NetBSD (a.out) ld.so'
    else
        library_names_spec='${libname}${release}${shared_ext}$versuffix
${libname}${release}${shared_ext}$major ${libname}${shared_ext}'
        soname_spec='${libname}${release}${shared_ext}$major'
        dynamic_linker='NetBSD ld.elf_so'
    fi
    shlibpath_var=LD_LIBRARY_PATH
    shlibpath_overrides_runpath=yes
    hardcode_into_libs=yes
    ;;

newsos6)
    version_type=linux
    library_names_spec='${libname}${release}${shared_ext}$versuffix
${libname}${release}${shared_ext}$major $libname${shared_ext}'
    shlibpath_var=LD_LIBRARY_PATH
    shlibpath_overrides_runpath=yes
    ;;

nto-qnx*)
    version_type=linux
    need_lib_prefix=no
    need_version=no
    library_names_spec='${libname}${release}${shared_ext}$versuffix
${libname}${release}${shared_ext}$major $libname${shared_ext}'
    soname_spec='${libname}${release}${shared_ext}$major'
    shlibpath_var=LD_LIBRARY_PATH
    shlibpath_overrides_runpath=yes
    ;;

openbsd*)
    version_type=sunos
    sys_lib_dldsearch_path_spec="/usr/lib"

```

```

    need_lib_prefix=no
    # Some older versions of OpenBSD (3.3 at least) *do* need versioned
libs.
    case $host_os in
        openbsd3.3 | openbsd3.3.*) need_version=yes ;;
        *) need_version=no ;;
    esac
    library_names_spec='${libname}${release}${shared_ext}$versuffix
${libname}${shared_ext}$versuffix'
    finish_cmds='PATH="\$PATH:/sbin" ldconfig -m $libdir'
    shlibpath_var=LD_LIBRARY_PATH
    if test -z "`echo __ELF__ | $CC -E - | grep __ELF__`" || test
"$host_os-$host_cpu" = "openbsd2.8-powerpc"; then
        case $host_os in
            openbsd2.[[89]] | openbsd2.[[89]].*)
                shlibpath_overrides_runpath=no
                ;;
            *)
                shlibpath_overrides_runpath=yes
                ;;
        esac
    else
        shlibpath_overrides_runpath=yes
    fi
    ;;

os2*)
    libname_spec='$name'
    shrext_cmds=".dll"
    need_lib_prefix=no
    library_names_spec='$libname${shared_ext} $libname.a'
    dynamic_linker='OS/2 ld.exe'
    shlibpath_var=LIBPATH
    ;;

osf3* | osf4* | osf5*)
    version_type=osf
    need_lib_prefix=no
    need_version=no
    soname_spec='${libname}${release}${shared_ext}$major'
    library_names_spec='${libname}${release}${shared_ext}$versuffix
${libname}${release}${shared_ext}$major $libname${shared_ext}'
    shlibpath_var=LD_LIBRARY_PATH
    sys_lib_search_path_spec="/usr/shlib /usr/ccs/lib /usr/lib/cmplrs/cc
/usr/lib /usr/local/lib /var/shlib"
    sys_lib_dlsearch_path_spec="$sys_lib_search_path_spec"
    ;;

solaris*)
    version_type=linux
    need_lib_prefix=no
    need_version=no
    library_names_spec='${libname}${release}${shared_ext}$versuffix
${libname}${release}${shared_ext}$major $libname${shared_ext}'

```

```

soname_spec='${libname}${release}${shared_ext}$major'
shlibpath_var=LD_LIBRARY_PATH
shlibpath_overrides_runpath=yes
hardcode_into_libs=yes
# ldd complains unless libraries are executable
postinstall_cmds='chmod +x $lib'
;;

sunos4*)
    version_type=sunos
    library_names_spec='${libname}${release}${shared_ext}$versuffix
${libname}${shared_ext}$versuffix'
    finish_cmds='PATH="\$PATH:/usr/etc" ldconfig $libdir'
    shlibpath_var=LD_LIBRARY_PATH
    shlibpath_overrides_runpath=yes
    if test "$with_gnu_ld" = yes; then
        need_lib_prefix=no
    fi
    need_version=yes
    ;;

sysv4 | sysv4.3*)
    version_type=linux
    library_names_spec='${libname}${release}${shared_ext}$versuffix
${libname}${release}${shared_ext}$major $libname${shared_ext}'
    soname_spec='${libname}${release}${shared_ext}$major'
    shlibpath_var=LD_LIBRARY_PATH
    case $host_vendor in
        sni)
            shlibpath_overrides_runpath=no
            need_lib_prefix=no
            export_dynamic_flag_spec='${wl}-Blargedynsym'
            runpath_var=LD_RUN_PATH
            ;;
        siemens)
            need_lib_prefix=no
            ;;
        motorola)
            need_lib_prefix=no
            need_version=no
            shlibpath_overrides_runpath=no
            sys_lib_search_path_spec='/lib /usr/lib /usr/ccs/lib'
            ;;
    esac
    ;;

sysv4*MP*)
    if test -d /usr/nec ;then
        version_type=linux
        library_names_spec='$libname${shared_ext}.$versuffix
$libname${shared_ext}.$major $libname${shared_ext}'
        soname_spec='$libname${shared_ext}.$major'
        shlibpath_var=LD_LIBRARY_PATH
    fi

```

```

;;

sysv5* | sco3.2v5* | sco5v6* | unixware* | OpenUNIX* | sysv4*uw2*)
  version_type=freebsd-elf
  need_lib_prefix=no
  need_version=no
  library_names_spec='${libname}${release}${shared_ext}$versuffix
${libname}${release}${shared_ext} $libname${shared_ext}'
  soname_spec='${libname}${release}${shared_ext}$major'
  shlibpath_var=LD_LIBRARY_PATH
  hardcode_into_libs=yes
  if test "$with_gnu_ld" = yes; then
    sys_lib_search_path_spec='/usr/local/lib /usr/gnu/lib /usr/ccs/lib
/usr/lib /lib'
    shlibpath_overrides_runpath=no
  else
    sys_lib_search_path_spec='/usr/ccs/lib /usr/lib'
    shlibpath_overrides_runpath=yes
    case $host_os in
      sco3.2v5*)
        sys_lib_search_path_spec="$sys_lib_search_path_spec /lib"
      ;;
    esac
  fi
  sys_lib_dlsearch_path_spec='/usr/lib'
;;

uts4*)
  version_type=linux
  library_names_spec='${libname}${release}${shared_ext}$versuffix
${libname}${release}${shared_ext}$major $libname${shared_ext}'
  soname_spec='${libname}${release}${shared_ext}$major'
  shlibpath_var=LD_LIBRARY_PATH
  ;;

*)
  dynamic_linker=no
  ;;
esac
AC_MSG_RESULT([$dynamic_linker])
test "$dynamic_linker" = no && can_build_shared=no

variables_saved_for_relink="PATH $shlibpath_var $runpath_var"
if test "$GCC" = yes; then
  variables_saved_for_relink="$variables_saved_for_relink GCC_EXEC_PREFIX
COMPILER_PATH LIBRARY_PATH"
fi
])# AC_LIBTOOL_SYS_DYNAMIC_LINKER

# _LT_AC_TAGCONFIG
# -----
AC_DEFUN([_LT_AC_TAGCONFIG],
[AC_ARG_WITH([tags],

```

```

[AC_HELP_STRING([--with-tags@<:@=TAGS@:>@],
  [include additional configurations @<:@automatic@:>@]),
[tagnames="$withval")]

if test -f "$ltmain" && test -n "$tagnames"; then
  if test ! -f "${ofile}"; then
    AC_MSG_WARN([output file `${ofile}' does not exist])
  fi

  if test -z "$LTCC"; then
    eval "`$SHELL ${ofile} --config | grep '^LTCC='`"
    if test -z "$LTCC"; then
      AC_MSG_WARN([output file `${ofile}' does not look like a libtool
script])
    else
      AC_MSG_WARN([using `LTCC=$LTCC', extracted from `${ofile}'])
    fi
  fi
  if test -z "$LTCFLAGS"; then
    eval "`$SHELL ${ofile} --config | grep '^LTCFLAGS='`"
  fi

  # Extract list of available tagged configurations in $ofile.
  # Note that this assumes the entire list is on one line.
  available_tags=`grep "^available_tags=" "${ofile}" | $SED -e
's/available_tags=\.*/\1/' -e 's/\/\//g'`

  lt_save_ifs="$IFS"; IFS="$IFS$PATH_SEPARATOR,"
  for tagname in $tagnames; do
    IFS="$lt_save_ifs"
    # Check whether tagname contains only valid characters
    case `echo "X$tagname" | $Xsed -e 's:[-
_ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz1234567890,/]]::g'`
in
    "") ;;
    *) AC_MSG_ERROR([invalid tag name: $tagname])
      ;;
  esac

  if grep "^# ### BEGIN LIBTOOL TAG CONFIG: $tagname$" < "${ofile}" >
/dev/null
  then
    AC_MSG_ERROR([tag name \"$tagname\" already exists])
  fi

  # Update the list of available tags.
  if test -n "$tagname"; then
    echo appending configuration tag \"$tagname\" to $ofile

    case $tagname in
    CXX)
      if test -n "$CXX" && ( test "X$CXX" != "Xno" &&
        ( (test "X$CXX" = "Xg++" && `g++ -v >/dev/null 2>&1` ) ||
          (test "X$CXX" != "Xg++"))) ; then

```



```

        AC_LIBTOOL_LANG_CXX_CONFIG
    else
        tagname=""
    fi
    ;;

    F77)
    if test -n "$F77" && test "X$F77" != "Xno"; then
        AC_LIBTOOL_LANG_F77_CONFIG
    else
        tagname=""
    fi
    ;;

    GCJ)
    if test -n "$GCJ" && test "X$GCJ" != "Xno"; then
        AC_LIBTOOL_LANG_GCJ_CONFIG
    else
        tagname=""
    fi
    ;;

    RC)
    AC_LIBTOOL_LANG_RC_CONFIG
    ;;

    *)
    AC_MSG_ERROR([Unsupported tag name: $tagname])
    ;;
esac

# Append the new tag name to the list of available tags.
if test -n "$tagname" ; then
    available_tags="$available_tags $tagname"
fi
fi
done
IFS="$lt_save_ifs"

# Now substitute the updated list of available tags.
if eval "sed -e
's/^available_tags=.*\$/available_tags=\"$available_tags\"/' \"$ofile\" >
\"${ofile}T\""; then
    mv "${ofile}T" "$ofile"
    chmod +x "$ofile"
else
    rm -f "${ofile}T"
    AC_MSG_ERROR([unable to update list of available tagged
configurations.])
fi
fi
])# _LT_AC_TAGCONFIG

```

```

# AC_LIBTOOL_DLOPEN
# -----
# enable checks for dlopen support
AC_DEFUN([AC_LIBTOOL_DLOPEN],
  [AC_BEFORE([$0], [AC_LIBTOOL_SETUP])
])# AC_LIBTOOL_DLOPEN

# AC_LIBTOOL_WIN32_DLL
# -----
# declare package support for building win32 DLLs
AC_DEFUN([AC_LIBTOOL_WIN32_DLL],
  [AC_BEFORE([$0], [AC_LIBTOOL_SETUP])
])# AC_LIBTOOL_WIN32_DLL

# AC_ENABLE_SHARED([DEFAULT])
# -----
# implement the --enable-shared flag
# DEFAULT is either `yes' or `no'.  If omitted, it defaults to `yes'.
AC_DEFUN([AC_ENABLE_SHARED],
  [define([AC_ENABLE_SHARED_DEFAULT], ifelse($1, no, no, yes))dnl
AC_ARG_ENABLE([shared],
  [AC_HELP_STRING([--enable-shared@<:@=PKGS@:>@],
    [build shared libraries
@<:@default=]AC_ENABLE_SHARED_DEFAULT[@:>@])],
  [p=${PACKAGE-default}
  case $enableval in
  yes) enable_shared=yes ;;
  no) enable_shared=no ;;
  *)
    enable_shared=no
    # Look at the argument we got.  We use all the common list
  separators.
    lt_save_ifs="$IFS"; IFS="${IFS}$PATH_SEPARATOR,"
    for pkg in $enableval; do
      IFS="$lt_save_ifs"
      if test "X$pkg" = "X$p"; then
        enable_shared=yes
      fi
    done
    IFS="$lt_save_ifs"
  ;;
  esac],
  [enable_shared=]AC_ENABLE_SHARED_DEFAULT)
])# AC_ENABLE_SHARED

# AC_DISABLE_SHARED
# -----
# set the default shared flag to --disable-shared
AC_DEFUN([AC_DISABLE_SHARED],
  [AC_BEFORE([$0], [AC_LIBTOOL_SETUP])dnl
AC_ENABLE_SHARED(no)

```

```

])# AC_DISABLE_SHARED

# AC_ENABLE_STATIC([DEFAULT])
# -----
# implement the --enable-static flag
# DEFAULT is either `yes' or `no'. If omitted, it defaults to `yes'.
AC_DEFUN([AC_ENABLE_STATIC],
[define([AC_ENABLE_STATIC_DEFAULT], ifelse($1, no, no, yes))dnl
AC_ARG_ENABLE([static],
  [AC_HELP_STRING([--enable-static@<:@=PKGS@:>@],
    [build static libraries
@<:@default=]AC_ENABLE_STATIC_DEFAULT[@:>@])],
  [p=${PACKAGE-default}
  case $enableval in
  yes) enable_static=yes ;;
  no) enable_static=no ;;
  *)
    enable_static=no
    # Look at the argument we got. We use all the common list
separators.
    lt_save_ifs="$IFS"; IFS="${IFS}$PATH_SEPARATOR,"
    for pkg in $enableval; do
      IFS="$lt_save_ifs"
      if test "X$pkg" = "X$p"; then
        enable_static=yes
      fi
    done
    IFS="$lt_save_ifs"
  ;;
  esac],
  [enable_static=]AC_ENABLE_STATIC_DEFAULT)
])# AC_ENABLE_STATIC

# AC_DISABLE_STATIC
# -----
# set the default static flag to --disable-static
AC_DEFUN([AC_DISABLE_STATIC],
[AC_BEFORE([$0], [AC_LIBTOOL_SETUP])dnl
AC_ENABLE_STATIC(no)
])# AC_DISABLE_STATIC

# AC_ENABLE_FAST_INSTALL([DEFAULT])
# -----
# implement the --enable-fast-install flag
# DEFAULT is either `yes' or `no'. If omitted, it defaults to `yes'.
AC_DEFUN([AC_ENABLE_FAST_INSTALL],
[define([AC_ENABLE_FAST_INSTALL_DEFAULT], ifelse($1, no, no, yes))dnl
AC_ARG_ENABLE([fast-install],
  [AC_HELP_STRING([--enable-fast-install@<:@=PKGS@:>@],
    [optimize for fast installation
@<:@default=]AC_ENABLE_FAST_INSTALL_DEFAULT[@:>@])],

```

```

    [p=${PACKAGE-default}
    case $enableval in
    yes) enable_fast_install=yes ;;
    no) enable_fast_install=no ;;
    *)
        enable_fast_install=no
        # Look at the argument we got. We use all the common list
separators.
        lt_save_ifs="$IFS"; IFS="${IFS}$PATH_SEPARATOR,"
        for pkg in $enableval; do
            IFS="$lt_save_ifs"
            if test "X$pkg" = "X$p"; then
                enable_fast_install=yes
            fi
        done
        IFS="$lt_save_ifs"
        ;;
    esac],
    [enable_fast_install=]AC_ENABLE_FAST_INSTALL_DEFAULT)
])# AC_ENABLE_FAST_INSTALL

# AC_DISABLE_FAST_INSTALL
# -----
# set the default to --disable-fast-install
AC_DEFUN([AC_DISABLE_FAST_INSTALL],
[AC_BEFORE([$0],[AC_LIBTOOL_SETUP])dnl
AC_ENABLE_FAST_INSTALL(no)
])# AC_DISABLE_FAST_INSTALL

# AC_LIBTOOL_PICMODE([MODE])
# -----
# implement the --with-pic flag
# MODE is either `yes' or `no'. If omitted, it defaults to `both'.
AC_DEFUN([AC_LIBTOOL_PICMODE],
[AC_BEFORE([$0],[AC_LIBTOOL_SETUP])dnl
pic_mode=ifelse($#,1,$1,default)
])# AC_LIBTOOL_PICMODE

# AC_PROG_EGREP
# -----
# This is predefined starting with Autoconf 2.54, so this conditional
# definition can be removed once we require Autoconf 2.54 or later.
m4_ifndef([AC_PROG_EGREP], [AC_DEFUN([AC_PROG_EGREP],
[AC_CACHE_CHECK([for egrep], [ac_cv_prog_egrep],
[if echo a | (grep -E '(a|b)') >/dev/null 2>&1
then ac_cv_prog_egrep='grep -E'
else ac_cv_prog_egrep='egrep'
fi])
EGREP=$ac_cv_prog_egrep
AC_SUBST([EGREP])
])])

```

```

# AC_PATH_TOOL_PREFIX
# -----
# find a file program which can recognise shared library
AC_DEFUN([AC_PATH_TOOL_PREFIX],
[AC_REQUIRE([AC_PROG_EGREP])dnl
AC_MSG_CHECKING([for $1])
AC_CACHE_VAL([lt_cv_path_MAGIC_CMD],
[case $MAGIC_CMD in
[\\/* | ?:[\\/*]*)
  lt_cv_path_MAGIC_CMD="$MAGIC_CMD" # Let the user override the test with
a path.
  ;;
*)
  lt_save_MAGIC_CMD="$MAGIC_CMD"
  lt_save_ifs="$IFS"; IFS=$PATH_SEPARATOR
dnl $ac_dummy forces splitting on constant user-supplied paths.
dnl POSIX.2 word splitting is done only on the output of word expansions,
dnl not every word. This closes a longstanding sh security hole.
  ac_dummy="ifelse([$2], , $PATH, [$2])"
  for ac_dir in $ac_dummy; do
    IFS="$lt_save_ifs"
    test -z "$ac_dir" && ac_dir=.
    if test -f $ac_dir/$1; then
      lt_cv_path_MAGIC_CMD="$ac_dir/$1"
      if test -n "$file_magic_test_file"; then
        case $deplibs_check_method in
"file_magic "*)
          file_magic_regex=`expr "$deplibs_check_method" : "file_magic
\(.*\)"`
          MAGIC_CMD="$lt_cv_path_MAGIC_CMD"
          if eval $file_magic_cmd \$file_magic_test_file 2> /dev/null |
            $EGREP "$file_magic_regex" > /dev/null; then
            :
          else
            cat <<EOF 1>&2
*** Warning: the command libtool uses to detect shared libraries,
*** $file_magic_cmd, produces output that libtool cannot recognize.
*** The result is that libtool may fail to recognize shared libraries
*** as such. This will affect the creation of libtool libraries that
*** depend on shared libraries, but programs linked with such libtool
*** libraries will work regardless of this problem. Nevertheless, you
*** may want to report the problem to your system manager and/or to
*** bug-libtool@gnu.org
EOF
          fi ;;
        esac
      fi
      break
    fi
  done
done

```

```

    IFS="$lt_save_ifs"
    MAGIC_CMD="$lt_save_MAGIC_CMD"
    ;;
esac])
MAGIC_CMD="$lt_cv_path_MAGIC_CMD"
if test -n "$MAGIC_CMD"; then
  AC_MSG_RESULT($MAGIC_CMD)
else
  AC_MSG_RESULT(no)
fi
])# AC_PATH_TOOL_PREFIX

# AC_PATH_MAGIC
# -----
# find a file program which can recognise a shared library
AC_DEFUN([AC_PATH_MAGIC],
[AC_PATH_TOOL_PREFIX({ac_tool_prefix}file, /usr/bin$PATH_SEPARATOR$PATH)
if test -z "$lt_cv_path_MAGIC_CMD"; then
  if test -n "$ac_tool_prefix"; then
    AC_PATH_TOOL_PREFIX(file, /usr/bin$PATH_SEPARATOR$PATH)
  else
    MAGIC_CMD=:
  fi
fi
])# AC_PATH_MAGIC

# AC_PROG_LD
# -----
# find the pathname to the GNU or non-GNU linker
AC_DEFUN([AC_PROG_LD],
[AC_ARG_WITH([gnu-ld],
  [AC_HELP_STRING([--with-gnu-ld],
    [assume the C compiler uses GNU ld @<:@default=no@:>@]),
  [test "$withval" = no || with_gnu_ld=yes],
  [with_gnu_ld=no])
AC_REQUIRE([LT_AC_PROG_SED])dnl
AC_REQUIRE([AC_PROG_CC])dnl
AC_REQUIRE([AC_CANONICAL_HOST])dnl
AC_REQUIRE([AC_CANONICAL_BUILD])dnl
ac_prog=ld
if test "$GCC" = yes; then
  # Check if gcc -print-prog-name=ld gives a path.
  AC_MSG_CHECKING([for ld used by $CC])
  case $host in
  *-*-mingw*)
    # gcc leaves a trailing carriage return which upsets mingw
    ac_prog=`($CC -print-prog-name=ld) 2>&5 | tr -d '\015'` ;;
  *)
    ac_prog=`($CC -print-prog-name=ld) 2>&5` ;;
  esac
case $ac_prog in
  # Accept absolute paths.

```

```

[[[\\/] ]* | ?:[[\\/] ]*)
  re_direlt='/[[^/]]*[/\.\.\/]'
  # Canonicalize the pathname of ld
  ac_prog=`echo $ac_prog | $SED 's%\\\\\\%/g'`
  while echo $ac_prog | grep "$re_direlt" > /dev/null 2>&1; do
  ac_prog=`echo $ac_prog | $SED "s%$re_direlt%/"`
  done
  test -z "$LD" && LD="$ac_prog"
  ;;
"" )
  # If it fails, then pretend we aren't using GCC.
  ac_prog=ld
  ;;
*)
  # If it is relative, then search for the first ld in PATH.
  with_gnu_ld=unknown
  ;;
esac
elif test "$with_gnu_ld" = yes; then
  AC_MSG_CHECKING([for GNU ld])
else
  AC_MSG_CHECKING([for non-GNU ld])
fi
AC_CACHE_VAL([lt_cv_path_LD],
[if test -z "$LD"; then
  lt_save_ifs="$IFS"; IFS=$PATH_SEPARATOR
  for ac_dir in $PATH; do
    IFS="$lt_save_ifs"
    test -z "$ac_dir" && ac_dir=.
    if test -f "$ac_dir/$ac_prog" || test -f
"$ac_dir/$ac_prog$ac_exeext"; then
      lt_cv_path_LD="$ac_dir/$ac_prog"
      # Check to see if the program is GNU ld.  I'd rather use --version,
      # but apparently some variants of GNU ld only accept -v.
      # Break only if it was the GNU/non-GNU ld that we prefer.
      case `"$lt_cv_path_LD" -v 2>&1 </dev/null` in
        *GNU* | *'with BFD'*)
          test "$with_gnu_ld" != no && break
          ;;
        *)
          test "$with_gnu_ld" != yes && break
          ;;
      esac
    fi
  done
  IFS="$lt_save_ifs"
else
  lt_cv_path_LD="$LD" # Let the user override the test with a path.
fi])
LD="$lt_cv_path_LD"
if test -n "$LD"; then
  AC_MSG_RESULT($LD)
else
  AC_MSG_RESULT(no)

```

```

fi
test -z "$LD" && AC_MSG_ERROR([no acceptable ld found in \${PATH}])
AC_PROG_LD_GNU
])# AC_PROG_LD

# AC_PROG_LD_GNU
# -----
AC_DEFUN([AC_PROG_LD_GNU],
[AC_REQUIRE([AC_PROG_EGREP])dnl
AC_CACHE_CHECK([if the linker ($LD) is GNU ld], lt_cv_prog_gnu_ld,
[# I'd rather use --version here, but apparently some GNU lds only accept
-v.
case ` $LD -v 2>&1 </dev/null ` in
*GNU* | *'with BFD'*)
  lt_cv_prog_gnu_ld=yes
  ;;
*)
  lt_cv_prog_gnu_ld=no
  ;;
esac])
with_gnu_ld=$lt_cv_prog_gnu_ld
])# AC_PROG_LD_GNU

# AC_PROG_LD_RELOAD_FLAG
# -----
# find reload flag for linker
# -- PORTME Some linkers may need a different reload flag.
AC_DEFUN([AC_PROG_LD_RELOAD_FLAG],
[AC_CACHE_CHECK([for $LD option to reload object files],
  lt_cv_ld_reload_flag,
  [lt_cv_ld_reload_flag='-r'])
reload_flag=$lt_cv_ld_reload_flag
case $reload_flag in
"" | " ") ;;
*) reload_flag="$reload_flag" ;;
esac
reload_cmds='$LD$reload_flag -o $output$reload_objs'
case $host_os in
darwin*)
  if test "$GCC" = yes; then
    reload_cmds='$LTCC $LTCFLAGS -nostdlib ${wl}-r -o
$output$reload_objs'
  else
    reload_cmds='$LD$reload_flag -o $output$reload_objs'
  fi
  ;;
esac
])# AC_PROG_LD_RELOAD_FLAG

# AC_DEPLIBS_CHECK_METHOD
# -----

```



```

# how to check for library dependencies
# -- PORTME fill in with the dynamic library characteristics
AC_DEFUN([AC_DEPLIBS_CHECK_METHOD],
[AC_CACHE_CHECK([how to recognise dependent libraries],
lt_cv_deplibs_check_method,
[lt_cv_file_magic_cmd='$MAGIC_CMD'
lt_cv_file_magic_test_file=
lt_cv_deplibs_check_method='unknown'
# Need to set the preceding variable on all platforms that support
# interlibrary dependencies.
# 'none' -- dependencies not supported.
# `unknown' -- same as none, but documents that we really don't know.
# 'pass_all' -- all dependencies passed with no checks.
# 'test_compile' -- check by making test program.
# 'file_magic [[regex]]' -- check by looking for files in library path
# which responds to the $file_magic_cmd with a given extended regex.
# If you have `file' or equivalent on your system and you're not sure
# whether `pass_all' will *always* work, you probably want this one.

case $host_os in
aix4* | aix5*)
  lt_cv_deplibs_check_method=pass_all
  ;;

beos*)
  lt_cv_deplibs_check_method=pass_all
  ;;

bsdi[[45]]*)
  lt_cv_deplibs_check_method='file_magic ELF [[0-9]][[0-9]]*-bit [[ML]]SB
(shared object|dynamic lib)'
  lt_cv_file_magic_cmd='/usr/bin/file -L'
  lt_cv_file_magic_test_file=/shlib/libc.so
  ;;

cygwin*)
  # func_win32_libid is a shell function defined in ltmain.sh
  lt_cv_deplibs_check_method='file_magic ^x86 archive import|^x86 DLL'
  lt_cv_file_magic_cmd='func_win32_libid'
  ;;

mingw* | pw32*)
  # Base MSYS/MinGW do not provide the 'file' command needed by
  # func_win32_libid shell function, so use a weaker test based on
  'objdump'.
  lt_cv_deplibs_check_method='file_magic file format pei*-
i386(.*architecture: i386)?'
  lt_cv_file_magic_cmd='$OBJDUMP -f'
  ;;

darwin* | rhapsody*)
  lt_cv_deplibs_check_method=pass_all
  ;;

```

```

freebsd* | kfreebsd*-gnu | dragonfly*)
  if echo __ELF__ | $CC -E - | grep __ELF__ > /dev/null; then
    case $host_cpu in
      i*86 )
        # Not sure whether the presence of OpenBSD here was a mistake.
        # Let's accept both of them until this is cleared up.
        lt_cv_deplibs_check_method='file_magic
(FreeBSD|OpenBSD|DragonFly)/i[[3-9]]86 (compact )?demand paged shared
library'
        lt_cv_file_magic_cmd=/usr/bin/file
        lt_cv_file_magic_test_file=`echo /usr/lib/libc.so.*`
        ;;
      esac
    else
      lt_cv_deplibs_check_method=pass_all
    fi
  ;;

gnu*)
  lt_cv_deplibs_check_method=pass_all
  ;;

hpux10.20* | hpux11*)
  lt_cv_file_magic_cmd=/usr/bin/file
  case $host_cpu in
    ia64*)
      lt_cv_deplibs_check_method='file_magic (s[[0-9]][[0-9]][[0-9]]|ELF-
[[0-9]][[0-9]]) shared object file - IA64'
      lt_cv_file_magic_test_file=/usr/lib/hpux32/libc.so
      ;;
    hppa*64*)
      [lt_cv_deplibs_check_method='file_magic (s[0-9][0-9][0-9]|ELF-[0-
9][0-9]) shared object file - PA-RISC [0-9].[0-9]']
      lt_cv_file_magic_test_file=/usr/lib/pa20_64/libc.sl
      ;;
    *)
      lt_cv_deplibs_check_method='file_magic (s[[0-9]][[0-9]][[0-9]]|PA-
RISC[[0-9]].[[0-9]]) shared library'
      lt_cv_file_magic_test_file=/usr/lib/libc.sl
      ;;
    esac
  ;;

interix3*)
  # PIC code is broken on Interix 3.x, that's why |\a not |\_pic\a here
  lt_cv_deplibs_check_method='match_pattern /lib[[^/]]+(\.so|\.a)$'
  ;;

irix5* | irix6* | nonstopux*)
  case $LD in
    *-32|*-32 ") libmagic=32-bit;;
    *-n32|*-n32 ") libmagic=N32;;
    *-64|*-64 ") libmagic=64-bit;;
    *) libmagic=never-match;;
  )

```

```

esac
lt_cv_deplibs_check_method=pass_all
;;

# This must be Linux ELF.
linux*)
lt_cv_deplibs_check_method=pass_all
;;

netbsd*)
if echo __ELF__ | $CC -E - | grep __ELF__ > /dev/null; then
lt_cv_deplibs_check_method='match_pattern /lib[[^/]]+(\.so\.[[0-9]]+\.[[0-9]]+|_pic\.a)$'
else
lt_cv_deplibs_check_method='match_pattern /lib[[^/]]+(\.so|_pic\.a)$'
fi
;;

newos6*)
lt_cv_deplibs_check_method='file_magic ELF [[0-9]][[0-9]]*-bit [[ML]]SB
(executable|dynamic lib)'
lt_cv_file_magic_cmd=/usr/bin/file
lt_cv_file_magic_test_file=/usr/lib/libnls.so
;;

nto-qnx*)
lt_cv_deplibs_check_method=unknown
;;

openbsd*)
if test -z "`echo __ELF__ | $CC -E - | grep __ELF__`" || test
"$host_os-$host_cpu" = "openbsd2.8-powerpc"; then
lt_cv_deplibs_check_method='match_pattern /lib[[^/]]+(\.so\.[[0-9]]+\.[[0-9]]+|_pic\.a)$'
else
lt_cv_deplibs_check_method='match_pattern /lib[[^/]]+(\.so\.[[0-9]]+\.[[0-9]]+|_pic\.a)$'
fi
;;

osf3* | osf4* | osf5*)
lt_cv_deplibs_check_method=pass_all
;;

solaris*)
lt_cv_deplibs_check_method=pass_all
;;

sysv4 | sysv4.3*)
case $host_vendor in
motorola)
lt_cv_deplibs_check_method='file_magic ELF [[0-9]][[0-9]]*-bit
[[ML]]SB (shared object|dynamic lib) M[[0-9]][[0-9]]* Version [[0-9]]*'
lt_cv_file_magic_test_file=`echo /usr/lib/libc.so*`

```

```

;;
ncr)
  lt_cv_deplibs_check_method=pass_all
;;
sequent)
  lt_cv_file_magic_cmd='/bin/file'
  lt_cv_deplibs_check_method='file_magic ELF [[0-9]][[0-9]]*-bit
[[LM]]SB (shared object|dynamic lib )'
;;
sni)
  lt_cv_file_magic_cmd='/bin/file'
  lt_cv_deplibs_check_method="file_magic ELF [[0-9]][[0-9]]*-bit
[[LM]]SB dynamic lib"
  lt_cv_file_magic_test_file=/lib/libc.so
;;
siemens)
  lt_cv_deplibs_check_method=pass_all
;;
pc)
  lt_cv_deplibs_check_method=pass_all
;;
esac
;;

sysv5* | sco3.2v5* | sco5v6* | unixware* | OpenUNIX* | sysv4*uw2*)
  lt_cv_deplibs_check_method=pass_all
;;
esac
])
file_magic_cmd=$lt_cv_file_magic_cmd
deplibs_check_method=$lt_cv_deplibs_check_method
test -z "$deplibs_check_method" && deplibs_check_method=unknown
)# AC_DEPLIBS_CHECK_METHOD

# AC_PROG_NM
# -----
# find the pathname to a BSD-compatible name lister
AC_DEFUN([AC_PROG_NM],
[AC_CACHE_CHECK([for BSD-compatible nm], lt_cv_path_NM,
[if test -n "$NM"; then
  # Let the user override the test.
  lt_cv_path_NM="$NM"
else
  lt_nm_to_check="{ac_tool_prefix}nm"
  if test -n "$ac_tool_prefix" && test "$build" = "$host"; then
    lt_nm_to_check="$lt_nm_to_check nm"
  fi
  for lt_tmp_nm in $lt_nm_to_check; do
    lt_save_ifs="$IFS"; IFS=$PATH_SEPARATOR
    for ac_dir in $PATH /usr/ccs/bin/elf /usr/ccs/bin /usr/ucb /bin; do
      IFS="$lt_save_ifs"
      test -z "$ac_dir" && ac_dir=.
      tmp_nm="$ac_dir/$lt_tmp_nm"

```

```

    if test -f "$tmp_nm" || test -f "$tmp_nm$ac_exeext" ; then
    # Check to see if the nm accepts a BSD-compatible flag.
    # Adding the `sed lq' prevents false positives on HP-UX, which
says:
    #   nm: unknown option "B" ignored
    # Tru64's nm complains that /dev/null is an invalid object file
    case `"$tmp_nm" -B /dev/null 2>&1 | sed 'lq'` in
    */dev/null* | *'Invalid file or object type'*)
        lt_cv_path_NM="$tmp_nm -B"
        break
        ;;
    *)
        case `"$tmp_nm" -p /dev/null 2>&1 | sed 'lq'` in
        */dev/null*)
            lt_cv_path_NM="$tmp_nm -p"
            break
            ;;
        *)
            lt_cv_path_NM=${lt_cv_path_NM="$tmp_nm"} # keep the first
match, but
            continue # so that we can try to find one that supports BSD
flags
            ;;
        esac
        ;;
    esac
    fi
done
IFS="$lt_save_ifs"
done
test -z "$lt_cv_path_NM" && lt_cv_path_NM=nm
fi])
NM="$lt_cv_path_NM"
])# AC_PROG_NM

# AC_CHECK_LIBM
# -----
# check for math library
AC_DEFUN([AC_CHECK_LIBM],
[AC_REQUIRE([AC_CANONICAL_HOST])dnl
LIBM=
case $host in
*-beos* | *-cygwin* | *-pw32* | *-darwin*)
    # These system don't have libm, or don't need it
    ;;
*-ncr-sysv4.3*)
    AC_CHECK_LIB(mw, _mwvalidcheck1, LIBM="-lmw")
    AC_CHECK_LIB(m, cos, LIBM="$LIBM -lm")
    ;;
*)
    AC_CHECK_LIB(m, cos, LIBM="-lm")
    ;;
esac

```

```

])# AC_CHECK_LIBM

# AC_LIBLTDL_CONVENIENCE([DIRECTORY])
# -----
# sets LIBLTDL to the link flags for the libltdl convenience library and
# LTDLINCL to the include flags for the libltdl header and adds
# --enable-ltdl-convenience to the configure arguments. Note that
# AC_CONFIG_SUBDIRS is not called here. If DIRECTORY is not provided,
# it is assumed to be `libltdl'. LIBLTDL will be prefixed with
# '${top_builddir}/' and LTDLINCL will be prefixed with '${top_srcdir}/'
# (note the single quotes!). If your package is not flat and you're not
# using automake, define top_builddir and top_srcdir appropriately in
# the Makefiles.
AC_DEFUN([AC_LIBLTDL_CONVENIENCE],
[AC_BEFORE([$0],[AC_LIBTOOL_SETUP])dnl
  case $enable_ltdl_convenience in
    no) AC_MSG_ERROR([this package needs a convenience libltdl]) ;;
    "") enable_ltdl_convenience=yes
        ac_configure_args="$ac_configure_args --enable-ltdl-convenience" ;;
  esac
  LIBLTDL='${top_builddir}/'ifelse($#,1,[$1],['libltdl'])/libltdlc.la
  LTDLINCL='-I${top_srcdir}/'ifelse($#,1,[$1],['libltdl'])
  # For backwards non-gettext consistent compatibility...
  INCLTDL="$LTDLINCL"
])# AC_LIBLTDL_CONVENIENCE

# AC_LIBLTDL_INSTALLABLE([DIRECTORY])
# -----
# sets LIBLTDL to the link flags for the libltdl installable library and
# LTDLINCL to the include flags for the libltdl header and adds
# --enable-ltdl-install to the configure arguments. Note that
# AC_CONFIG_SUBDIRS is not called here. If DIRECTORY is not provided,
# and an installed libltdl is not found, it is assumed to be `libltdl'.
# LIBLTDL will be prefixed with '${top_builddir}/#' and LTDLINCL with
# '${top_srcdir}/' (note the single quotes!). If your package is not
# flat and you're not using automake, define top_builddir and top_srcdir
# appropriately in the Makefiles.
# In the future, this macro may have to be called after AC_PROG_LIBTOOL.
AC_DEFUN([AC_LIBLTDL_INSTALLABLE],
[AC_BEFORE([$0],[AC_LIBTOOL_SETUP])dnl
  AC_CHECK_LIB(ltdl, lt_dlinit,
  [test x"$enable_ltdl_install" != xyes && enable_ltdl_install=no],
  [if test x"$enable_ltdl_install" = xno; then
    AC_MSG_WARN([libltdl not installed, but installation disabled])
  else
    enable_ltdl_install=yes
  fi
  ])
  if test x"$enable_ltdl_install" = x"yes"; then
    ac_configure_args="$ac_configure_args --enable-ltdl-install"
    LIBLTDL='${top_builddir}/'ifelse($#,1,[$1],['libltdl'])/libltdl.la
    LTDLINCL='-I${top_srcdir}/'ifelse($#,1,[$1],['libltdl'])
  fi
])

```

```

else
  ac_configure_args="$ac_configure_args --enable-ltdl-install=no"
  LIBLTDL="-lltdl"
  LTDLINCL=
fi
# For backwards non-gettext consistent compatibility...
INCLTDL="$LTDLINCL"
])# AC_LIBLTDL_INSTALLABLE

# AC_LIBTOOL_CXX
# -----
# enable support for C++ libraries
AC_DEFUN([AC_LIBTOOL_CXX],
[AC_REQUIRE([_LT_AC_LANG_CXX])
])# AC_LIBTOOL_CXX

# _LT_AC_LANG_CXX
# -----
AC_DEFUN([_LT_AC_LANG_CXX],
[AC_REQUIRE([AC_PROG_CXX])
AC_REQUIRE([_LT_AC_PROG_CXXCPP])
_LT_AC_SHELL_INIT([tagname=${tagname+${tagname}},}CXX])
])# _LT_AC_LANG_CXX

# _LT_AC_PROG_CXXCPP
# -----
AC_DEFUN([_LT_AC_PROG_CXXCPP],
[
AC_REQUIRE([AC_PROG_CXX])
if test -n "$CXX" && ( test "X$CXX" != "Xno" &&
  ( (test "X$CXX" = "Xg++" && `g++ -v >/dev/null 2>&1` ) ||
  (test "X$CXX" != "Xg++")) ) ; then
  AC_PROG_CXXCPP
fi
])# _LT_AC_PROG_CXXCPP

# AC_LIBTOOL_F77
# -----
# enable support for Fortran 77 libraries
AC_DEFUN([AC_LIBTOOL_F77],
[AC_REQUIRE([_LT_AC_LANG_F77])
])# AC_LIBTOOL_F77

# _LT_AC_LANG_F77
# -----
AC_DEFUN([_LT_AC_LANG_F77],
[AC_REQUIRE([AC_PROG_F77])
_LT_AC_SHELL_INIT([tagname=${tagname+${tagname}},}F77])
])# _LT_AC_LANG_F77

```

```

# AC_LIBTOOL_GCJ
# -----
# enable support for GCJ libraries
AC_DEFUN([AC_LIBTOOL_GCJ],
[AC_REQUIRE([_LT_AC_LANG_GCJ])
])# AC_LIBTOOL_GCJ

# _LT_AC_LANG_GCJ
# -----
AC_DEFUN([_LT_AC_LANG_GCJ],
[AC_PROVIDE_IFELSE([AC_PROG_GCJ], [],
  [AC_PROVIDE_IFELSE([A][M_PROG_GCJ], [],
    [AC_PROVIDE_IFELSE([LT_AC_PROG_GCJ], [],
      [ifdef([AC_PROG_GCJ], [AC_REQUIRE([AC_PROG_GCJ])],
        [ifdef([A][M_PROG_GCJ], [AC_REQUIRE([A][M_PROG_GCJ])],
          [AC_REQUIRE([A][C_PROG_GCJ_OR_A][M_PROG_GCJ])])])])])])
_LT_AC_SHELL_INIT([tagname=${tagname+${tagname}},}GCJ])
])# _LT_AC_LANG_GCJ

# AC_LIBTOOL_RC
# -----
# enable support for Windows resource files
AC_DEFUN([AC_LIBTOOL_RC],
[AC_REQUIRE([LT_AC_PROG_RC])
_LT_AC_SHELL_INIT([tagname=${tagname+${tagname}},}RC])
])# AC_LIBTOOL_RC

# AC_LIBTOOL_LANG_C_CONFIG
# -----
# Ensure that the configuration vars for the C compiler are
# suitably defined.  Those variables are subsequently used by
# AC_LIBTOOL_CONFIG to write the compiler configuration to `libtool'.
AC_DEFUN([AC_LIBTOOL_LANG_C_CONFIG], [_LT_AC_LANG_C_CONFIG])
AC_DEFUN([_LT_AC_LANG_C_CONFIG],
[lt_save_CC="$CC"
AC_LANG_PUSH(C)

# Source file extension for C test sources.
ac_ext=c

# Object file extension for compiled C test sources.
objext=o
_LT_AC_TAGVAR(objext, $1)=$objext

# Code to be used in simple compile tests
lt_simple_compile_test_code="int some_variable = 0;\n"

# Code to be used in simple link tests
lt_simple_link_test_code='int main(){return(0);}\n'

_LT_AC_SYS_COMPILER

```



```

# save warnings/boilerplate of simple test code
_LT_COMPILER_BOILERPLATE
_LT_LINKER_BOILERPLATE

AC_LIBTOOL_PROG_COMPILER_NO_RTTI($1)
AC_LIBTOOL_PROG_COMPILER_PIC($1)
AC_LIBTOOL_PROG_CC_C_O($1)
AC_LIBTOOL_SYS_HARD_LINK_LOCKS($1)
AC_LIBTOOL_PROG_LD_SHLIBS($1)
AC_LIBTOOL_SYS_DYNAMIC_LINKER($1)
AC_LIBTOOL_PROG_LD_HARDCODE_LIBPATH($1)
AC_LIBTOOL_SYS_LIB_STRIP
AC_LIBTOOL_DLOPEN_SELF

# Report which library types will actually be built
AC_MSG_CHECKING([if libtool supports shared libraries])
AC_MSG_RESULT([$can_build_shared])

AC_MSG_CHECKING([whether to build shared libraries])
test "$can_build_shared" = "no" && enable_shared=no

# On AIX, shared libraries and static libraries use the same namespace,
and
# are all built from PIC.
case $host_os in
aix3*)
  test "$enable_shared" = yes && enable_static=no
  if test -n "$RANLIB"; then
    archive_cmds="$archive_cmds~\${RANLIB} \$lib"
    postinstall_cmds='${RANLIB} $lib'
  fi
  ;;

aix4* | aix5*)
  if test "$host_cpu" != ia64 && test "$aix_use_runtimelinking" = no ;
then
    test "$enable_shared" = yes && enable_static=no
  fi
  ;;
esac
AC_MSG_RESULT([$enable_shared])

AC_MSG_CHECKING([whether to build static libraries])
# Make sure either enable_shared or enable_static is yes.
test "$enable_shared" = yes || enable_static=yes
AC_MSG_RESULT([$enable_static])

AC_LIBTOOL_CONFIG($1)

AC_LANG_POP
CC="$lt_save_CC"
])# AC_LIBTOOL_LANG_C_CONFIG

```

```

# AC_LIBTOOL_LANG_CXX_CONFIG
# -----
# Ensure that the configuration vars for the C compiler are
# suitably defined.  Those variables are subsequently used by
# AC_LIBTOOL_CONFIG to write the compiler configuration to `libtool'.
AC_DEFUN([AC_LIBTOOL_LANG_CXX_CONFIG], [_LT_AC_LANG_CXX_CONFIG(CXX)])
AC_DEFUN([_LT_AC_LANG_CXX_CONFIG],
[AC_LANG_PUSH(C++)
AC_REQUIRE([AC_PROG_CXX])
AC_REQUIRE([_LT_AC_PROG_CXXCPP])

_LT_AC_TAGVAR(archive_cmds_need_lc, $1)=no
_LT_AC_TAGVAR(allow_undefined_flag, $1)=
_LT_AC_TAGVAR(always_export_symbols, $1)=no
_LT_AC_TAGVAR(archive_expsym_cmds, $1)=
_LT_AC_TAGVAR(export_dynamic_flag_spec, $1)=
_LT_AC_TAGVAR(hardcode_direct, $1)=no
_LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)=
_LT_AC_TAGVAR(hardcode_libdir_flag_spec_ld, $1)=
_LT_AC_TAGVAR(hardcode_libdir_separator, $1)=
_LT_AC_TAGVAR(hardcode_minus_L, $1)=no
_LT_AC_TAGVAR(hardcode_shlibpath_var, $1)=unsupported
_LT_AC_TAGVAR(hardcode_automatic, $1)=no
_LT_AC_TAGVAR(module_cmds, $1)=
_LT_AC_TAGVAR(module_expsym_cmds, $1)=
_LT_AC_TAGVAR(link_all_deplibs, $1)=unknown
_LT_AC_TAGVAR(old_archive_cmds, $1)=$old_archive_cmds
_LT_AC_TAGVAR(no_undefined_flag, $1)=
_LT_AC_TAGVAR(whole_archive_flag_spec, $1)=
_LT_AC_TAGVAR(enable_shared_with_static_runtimes, $1)=no

# Dependencies to place before and after the object being linked:
_LT_AC_TAGVAR(predep_objects, $1)=
_LT_AC_TAGVAR(postdep_objects, $1)=
_LT_AC_TAGVAR(predeps, $1)=
_LT_AC_TAGVAR(postdeps, $1)=
_LT_AC_TAGVAR(compiler_lib_search_path, $1)=

# Source file extension for C++ test sources.
ac_ext=cpp

# Object file extension for compiled C++ test sources.
objext=o
_LT_AC_TAGVAR(objext, $1)=$objext

# Code to be used in simple compile tests
lt_simple_compile_test_code="int some_variable = 0;\n"

# Code to be used in simple link tests
lt_simple_link_test_code='int main(int, char *[]) { return(0); }\n'

# ltmain only uses $CC for tagged configurations so make sure $CC is set.
_LT_AC_SYS_COMPILER

```

```

# save warnings/boilerplate of simple test code
_LT_COMPILER_BOILERPLATE
_LT_LINKER_BOILERPLATE

# Allow CC to be a program name with arguments.
lt_save_CC=$CC
lt_save_LD=$LD
lt_save_GCC=$GCC
GCC=$GXX
lt_save_with_gnu_ld=$with_gnu_ld
lt_save_path_LD=$lt_cv_path_LD
if test -n "${lt_cv_prog_gnu_ldcxx+set}"; then
  lt_cv_prog_gnu_ld=$lt_cv_prog_gnu_ldcxx
else
  $as_unset lt_cv_prog_gnu_ld
fi
if test -n "${lt_cv_path_LDCXX+set}"; then
  lt_cv_path_LD=$lt_cv_path_LDCXX
else
  $as_unset lt_cv_path_LD
fi
test -z "${LDCXX+set}" || LD=$LDCXX
CC=${CXX-"c++"}
compiler=$CC
_LT_AC_TAGVAR(compiler, $1)=$CC
_LT_CC_BASENAME([$compiler])

# We don't want -fno-exception wen compiling C++ code, so set the
# no_builtin_flag separately
if test "$GXX" = yes; then
  _LT_AC_TAGVAR(lt_prog_compiler_no_builtin_flag, $1)=' -fno-builtin'
else
  _LT_AC_TAGVAR(lt_prog_compiler_no_builtin_flag, $1)=
fi

if test "$GXX" = yes; then
  # Set up default GNU C++ configuration

  AC_PROG_LD

  # Check if GNU C++ uses GNU ld as the underlying linker, since the
  # archiving commands below assume that GNU ld is being used.
  if test "$with_gnu_ld" = yes; then
    _LT_AC_TAGVAR(archive_cmds, $1)='$CC -shared -nostdlib
$predep_objects $libobjs $deplibs $postdep_objects $compiler_flags ${wl}-
soname $wl$soname -o $lib'
    _LT_AC_TAGVAR(archive_expsym_cmds, $1)='$CC -shared -nostdlib
$predep_objects $libobjs $deplibs $postdep_objects $compiler_flags ${wl}-
soname $wl$soname ${wl}-retain-symbols-file $wl$export_symbols -o $lib'

    _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='${wl}--rpath
${wl}$libdir'
    _LT_AC_TAGVAR(export_dynamic_flag_spec, $1)='${wl}--export-dynamic'

```

```

# If archive_cmds runs LD, not CC, wlarc should be empty
# XXX I think wlarc can be eliminated in ltcf-cxx, but I need to
# investigate it a little bit more. (MM)
wlarc='${wl}'

# ancient GNU ld didn't support --whole-archive et. al.
if eval "`$CC -print-prog-name=ld` --help 2>&1" | \
  grep 'no-whole-archive' > /dev/null; then
  _LT_AC_TAGVAR(whole_archive_flag_spec, $1)="$wlarc"--whole-
archive$convenience "$wlarc"--no-whole-archive'
else
  _LT_AC_TAGVAR(whole_archive_flag_spec, $1)=
fi
else
with_gnu_ld=no
wlarc=

# A generic and very simple default shared library creation
# command for GNU C++ for the case where it uses the native
# linker, instead of GNU ld.  If possible, this setting should
# be overridden to take advantage of the native linker features on
# the platform it is being used on.
_LT_AC_TAGVAR(archive_cmds, $1)='$CC -shared -nostdlib
$predep_objects $libobjs $deplibs $postdep_objects $compiler_flags -o
$lib'
fi

# Commands to make compiler produce verbose output that lists
# what "hidden" libraries, object files and flags are used when
# linking a shared library.
output_verbose_link_cmd='$CC -shared $CFLAGS -v conftest.$objext 2>&1 |
grep "\-L"'

else
GXX=no
with_gnu_ld=no
wlarc=
fi

# PORTME: fill in a description of your system's C++ link characteristics
AC_MSG_CHECKING([whether the $compiler linker ($LD) supports shared
libraries])
_LT_AC_TAGVAR(ld_shlibs, $1)=yes
case $host_os in
aix3*)
# FIXME: insert proper C++ library support
_LT_AC_TAGVAR(ld_shlibs, $1)=no
;;
aix4* | aix5*)
if test "$host_cpu" = ia64; then
# On IA64, the linker does run time linking by default, so we don't
# have to do anything special.
aix_use_runtimelinking=no

```

```

    exp_sym_flag='-Bexport'
    no_entry_flag=""
else
    aix_use_runtimelinking=no

    # Test if we are trying to use run time linking or normal
    # AIX style linking. If -brtl is somewhere in LDFLAGS, we
    # need to do runtime linking.
    case $host_os in aix4.[[23]]|aix4.[[23]].*|aix5*)
    for ld_flag in $LDFLAGS; do
        case $ld_flag in
            *-brtl*)
                aix_use_runtimelinking=yes
                break
            ;;
        esac
    done
    ;;
esac

    exp_sym_flag='-bexport'
    no_entry_flag='-bnoentry'
fi

# When large executables or shared objects are built, AIX ld can
# have problems creating the table of contents.  If linking a library
# or program results in "error TOC overflow" add -mminimal-toc to
# CXXFLAGS/CFLAGS for g++/gcc.  In the cases where that is not
# enough to fix the problem, add -Wl,-bbigtoc to LDFLAGS.

_LT_AC_TAGVAR(archive_cmds, $1)=''
_LT_AC_TAGVAR(hardcode_direct, $1)=yes
_LT_AC_TAGVAR(hardcode_libdir_separator, $1)=':'
_LT_AC_TAGVAR(link_all_deplibs, $1)=yes

if test "$GXX" = yes; then
    case $host_os in aix4.[[012]]|aix4.[[012]].*)
        # We only want to do this on AIX 4.2 and lower, the check
        # below for broken collect2 doesn't work under 4.3+
        collect2name=`${CC} -print-prog-name=collect2`
        if test -f "$collect2name" && \
            strings "$collect2name" | grep resolve_lib_name >/dev/null
        then
            # We have reworked collect2
            _LT_AC_TAGVAR(hardcode_direct, $1)=yes
        else
            # We have old collect2
            _LT_AC_TAGVAR(hardcode_direct, $1)=unsupported
            # It fails to find uninstalled libraries when the uninstalled
            # path is not listed in the libpath.  Setting hardcode_minus_L
            # to unsupported forces relinking
            _LT_AC_TAGVAR(hardcode_minus_L, $1)=yes
            _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='-L$libdir'
            _LT_AC_TAGVAR(hardcode_libdir_separator, $1)=

```

```

fi
;;
esac
shared_flag='-shared'
if test "$aix_use_runtimelinking" = yes; then
shared_flag="$shared_flag "'${wl}-G'
fi
else
# not using gcc
if test "$host_cpu" = ia64; then
# VisualAge C++, Version 5.5 for AIX 5L for IA-64, Beta 3 Release
# chokes on -Wl,-G. The following line is correct:
shared_flag='-G'
else
if test "$aix_use_runtimelinking" = yes; then
shared_flag='${wl}-G'
else
shared_flag='${wl}-bM:SRE'
fi
fi
fi

# It seems that -bexpall does not export symbols beginning with
# underscore (_), so it is better to generate a list of symbols to
export.
_LT_AC_TAGVAR(always_export_symbols, $1)=yes
if test "$aix_use_runtimelinking" = yes; then
# Warning - without using the other runtime loading flags (-brtl),
# -berok will link without error, but may produce a broken library.
_LT_AC_TAGVAR(allow_undefined_flag, $1)='-berok'
# Determine the default libpath from the value encoded in an empty
executable.
_LT_AC_SYS_LIBPATH_AIX
_LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='${wl}-R
blibpath:$libdir:"$aix_libpath"

_LT_AC_TAGVAR(archive_expsym_cmds, $1)="\$CC" -o
$output_objdir/$soname $libobjs $deplibs "'${wl}$no_entry_flag"'
$compiler_flags `if test "x${allow_undefined_flag}" != "x"; then echo
"${wl}${allow_undefined_flag}"; else ;; fi`
'${wl}$exp_sym_flag:\$export_symbols $shared_flag"
else
if test "$host_cpu" = ia64; then
_LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='${wl}-R
$libdir:/usr/lib:/lib'
_LT_AC_TAGVAR(allow_undefined_flag, $1)="-z nodefs"
_LT_AC_TAGVAR(archive_expsym_cmds, $1)="\$CC $shared_flag" -o
$output_objdir/$soname $libobjs $deplibs "'${wl}$no_entry_flag"'
$compiler_flags ${wl}${allow_undefined_flag}
'${wl}$exp_sym_flag:\$export_symbols"
else
# Determine the default libpath from the value encoded in an empty
executable.
_LT_AC_SYS_LIBPATH_AIX

```

```

    _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='${wl}-
bldirpath:$libdir:"$aix_libpath"
    # Warning - without using the other run time loading flags,
    # -berok will link without error, but may produce a broken library.
    _LT_AC_TAGVAR(no_undefined_flag, $1)=' ${wl}-bernotok'
    _LT_AC_TAGVAR(allow_undefined_flag, $1)=' ${wl}-berok'
    # Exported symbols can be pulled into shared objects from archives
    _LT_AC_TAGVAR(whole_archive_flag_spec, $1)='$convenience'
    _LT_AC_TAGVAR(archive_cmds_need_lc, $1)=yes
    # This is similar to how AIX traditionally builds its shared
libraries.
    _LT_AC_TAGVAR(archive_expsym_cmds, $1)="\$CC $shared_flag" -o
$output_objdir/$soname $libobjs $deplibs ${wl}-bnoentry $compiler_flags
${wl}-bE:$export_symbols${allow_undefined_flag}~$AR $AR_FLAGS
$output_objdir/$libname$release.a $output_objdir/$soname'
    fi
    fi
    ;;

beos*)
    if $LD --help 2>&1 | grep ': supported targets:.* elf' > /dev/null;
then
    _LT_AC_TAGVAR(allow_undefined_flag, $1)=unsupported
    # Joseph Beckenbach <jrb3@best.com> says some releases of gcc
    # support --undefined. This deserves some investigation. FIXME
    _LT_AC_TAGVAR(archive_cmds, $1)='$CC -nostart $libobjs $deplibs
$compiler_flags ${wl}-soname $wl$soname -o $lib'
    else
    _LT_AC_TAGVAR(ld_shlibs, $1)=no
    fi
    ;;

chorus*)
    case $cc_basename in
    *)
    # FIXME: insert proper C++ library support
    _LT_AC_TAGVAR(ld_shlibs, $1)=no
    ;;
    esac
    ;;

cygwin* | mingw* | pw32*)
    # _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1) is actually
meaningless,
    # as there is no search path for DLLs.
    _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='-L$libdir'
    _LT_AC_TAGVAR(allow_undefined_flag, $1)=unsupported
    _LT_AC_TAGVAR(always_export_symbols, $1)=no
    _LT_AC_TAGVAR(enable_shared_with_static_runtimes, $1)=yes

    if $LD --help 2>&1 | grep 'auto-import' > /dev/null; then
    _LT_AC_TAGVAR(archive_cmds, $1)='$CC -shared -nostdlib
$predep_objects $libobjs $deplibs $postdep_objects $compiler_flags -o

```

```

$output_objdir/$soname ${wl}--enable-auto-image-base -Xlinker --out-
implib -Xlinker $lib'
    # If the export-symbols file already is a .def file (1st line
    # is EXPORTS), use it as is; otherwise, prepend...
    _LT_AC_TAGVAR(archive_expsym_cmds, $1)='if test "x`$SED 1q
$export_symbols`" = xEXPORTS; then
    cp $export_symbols $output_objdir/$soname.def;
    else
    echo EXPORTS > $output_objdir/$soname.def;
    cat $export_symbols >> $output_objdir/$soname.def;
    fi~
    $CC -shared -nostdlib $output_objdir/$soname.def $predep_objects
$libobjs $deplibs $postdep_objects $compiler_flags -o
$output_objdir/$soname ${wl}--enable-auto-image-base -Xlinker --out-
implib -Xlinker $lib'
    else
    _LT_AC_TAGVAR(ld_shlibs, $1)=no
    fi
;;
darwin* | rhapsody*)
  case $host_os in
    rhapsody* | darwin1.[[012]])
      _LT_AC_TAGVAR(allow_undefined_flag, $1)='${wl}-undefined
${wl}suppress'
      ;;
    *) # Darwin 1.3 on
      if test -z ${MACOSX_DEPLOYMENT_TARGET} ; then
        _LT_AC_TAGVAR(allow_undefined_flag, $1)='${wl}-flat_namespace
${wl}-undefined ${wl}suppress'
      else
        case ${MACOSX_DEPLOYMENT_TARGET} in
          10.[[012]])
            _LT_AC_TAGVAR(allow_undefined_flag, $1)='${wl}-
flat_namespace ${wl}-undefined ${wl}suppress'
            ;;
          10.*)
            _LT_AC_TAGVAR(allow_undefined_flag, $1)='${wl}-undefined
${wl}dynamic_lookup'
            ;;
          ;;
        esac
      fi
    ;;
  esac
  _LT_AC_TAGVAR(archive_cmds_need_lc, $1)=no
  _LT_AC_TAGVAR(hardcode_direct, $1)=no
  _LT_AC_TAGVAR(hardcode_automatic, $1)=yes
  _LT_AC_TAGVAR(hardcode_shlibpath_var, $1)=unsupported
  _LT_AC_TAGVAR(whole_archive_flag_spec, $1)=''
  _LT_AC_TAGVAR(link_all_deplibs, $1)=yes

if test "$GXX" = yes ; then
  lt_int_apple_cc_single_mod=no
  output_verbose_link_cmd='echo'
  if $CC -dumpspecs 2>&1 | $EGREP 'single_module' >/dev/null ; then

```



```

    lt_int_apple_cc_single_mod=yes
  fi
  if test "X$lt_int_apple_cc_single_mod" = Xyes ; then
    _LT_AC_TAGVAR(archive_cmds, $1)='$CC -dynamiclib -single_module
$allow_undefined_flag -o $lib $libobjs $deplibs $compiler_flags -
install_name $rpath/$soname $verstring'
  else
    _LT_AC_TAGVAR(archive_cmds, $1)='$CC -r -keep_private_externs -
nostdlib -o ${lib}-master.o $libobjs~$CC -dynamiclib
$allow_undefined_flag -o $lib ${lib}-master.o $deplibs $compiler_flags -
install_name $rpath/$soname $verstring'
  fi
  _LT_AC_TAGVAR(module_cmds, $1)='$CC $allow_undefined_flag -o $lib
-bundle $libobjs $deplibs$compiler_flags'
  # Don't fix this by using the ld -exported_symbols_list flag, it
  doesn't exist in older darwin lds
  if test "X$lt_int_apple_cc_single_mod" = Xyes ; then
    _LT_AC_TAGVAR(archive_expsym_cmds, $1)='sed -e "s,#.*,, " -e
"s,^[ ]*,," -e "s,^\(..*\),_&," < $export_symbols >
$output_objdir/${libname}-symbols.expsym~$CC -dynamiclib -single_module
$allow_undefined_flag -o $lib $libobjs $deplibs $compiler_flags -
install_name $rpath/$soname $verstring~nmedit -s
$output_objdir/${libname}-symbols.expsym ${lib}'
  else
    _LT_AC_TAGVAR(archive_expsym_cmds, $1)='sed -e "s,#.*,, " -e
"s,^[ ]*,," -e "s,^\(..*\),_&," < $export_symbols >
$output_objdir/${libname}-symbols.expsym~$CC -r -keep_private_externs -
nostdlib -o ${lib}-master.o $libobjs~$CC -dynamiclib
$allow_undefined_flag -o $lib ${lib}-master.o $deplibs $compiler_flags -
install_name $rpath/$soname $verstring~nmedit -s
$output_objdir/${libname}-symbols.expsym ${lib}'
  fi
  _LT_AC_TAGVAR(module_expsym_cmds, $1)='sed -e "s,#.*,, " -e
"s,^[ ]*,," -e "s,^\(..*\),_&," < $export_symbols >
$output_objdir/${libname}-symbols.expsym~$CC $allow_undefined_flag -o
$lib -bundle $libobjs $deplibs$compiler_flags~nmedit -s
$output_objdir/${libname}-symbols.expsym ${lib}'
  else
    case $cc_basename in
      xlc*)
        output_verbose_link_cmd='echo'
        _LT_AC_TAGVAR(archive_cmds, $1)='$CC -qmksrobj ${wl}-
single_module $allow_undefined_flag -o $lib $libobjs $deplibs
$compiler_flags ${wl}-install_name ${wl}`echo $rpath/$soname` $verstring'
        _LT_AC_TAGVAR(module_cmds, $1)='$CC $allow_undefined_flag -o
$lib -bundle $libobjs $deplibs$compiler_flags'
        # Don't fix this by using the ld -exported_symbols_list flag,
        it doesn't exist in older darwin lds
        _LT_AC_TAGVAR(archive_expsym_cmds, $1)='sed -e "s,#.*,, " -e
"s,^[ ]*,," -e "s,^\(..*\),_&," < $export_symbols >
$output_objdir/${libname}-symbols.expsym~$CC -qmksrobj ${wl}-
single_module $allow_undefined_flag -o $lib $libobjs $deplibs
$compiler_flags ${wl}-install_name ${wl}$rpath/$soname $verstring~nmedit
-s $output_objdir/${libname}-symbols.expsym ${lib}'

```

```

        _LT_AC_TAGVAR(module_expsym_cmds, $1)='sed -e "s,#.*,, " -e
"s,^[ ]*,, " -e "s,^\(..*\),_&," < $export_symbols >
$output_objdir/${libname}-symbols.expsym~$CC $allow_undefined_flag -o
$lib -bundle $libobjs $deplibs$compiler_flags~nmedit -s
$output_objdir/${libname}-symbols.expsym ${lib}'
        ;;
    *)
        _LT_AC_TAGVAR(ld_shlibs, $1)=no
        ;;
    esac
fi
;;

dgux*)
case $cc_basename in
ec++*)
# FIXME: insert proper C++ library support
_LT_AC_TAGVAR(ld_shlibs, $1)=no
;;
ghcx*)
# Green Hills C++ Compiler
# FIXME: insert proper C++ library support
_LT_AC_TAGVAR(ld_shlibs, $1)=no
;;
*)
# FIXME: insert proper C++ library support
_LT_AC_TAGVAR(ld_shlibs, $1)=no
;;
esac
;;

freebsd[[12]]*)
# C++ shared libraries reported to be fairly broken before switch to
ELF
_LT_AC_TAGVAR(ld_shlibs, $1)=no
;;

freebsd-elf*)
_LT_AC_TAGVAR(archive_cmds_need_lc, $1)=no
;;

freebsd* | kfreebsd*-gnu | dragonfly*)
# FreeBSD 3 and later use GNU C++ and GNU ld with standard ELF
# conventions
_LT_AC_TAGVAR(ld_shlibs, $1)=yes
;;

gnu*)
;;

hpux9*)
_LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='${wl}+b ${wl}$libdir'
_LT_AC_TAGVAR(hardcode_libdir_separator, $1)=:
_LT_AC_TAGVAR(export_dynamic_flag_spec, $1)='${wl}-E'
_LT_AC_TAGVAR(hardcode_direct, $1)=yes
_LT_AC_TAGVAR(hardcode_minus_L, $1)=yes # Not in the search PATH,
# but as the default
# location of the library.

```

```

case $cc_basename in
CC*)
    # FIXME: insert proper C++ library support
    _LT_AC_TAGVAR(ld_shlibs, $1)=no
    ;;
aCC*)
    _LT_AC_TAGVAR(archive_cmds, $1)='$rm $output_objdir/$soname~$CC -b
${wl}+b ${wl}$install_libdir -o $output_objdir/$soname $predep_objects
$libobjs $deplibs $postdep_objects $compiler_flags~test
$output_objdir/$soname = $lib || mv $output_objdir/$soname $lib'
    # Commands to make compiler produce verbose output that lists
    # what "hidden" libraries, object files and flags are used when
    # linking a shared library.
    #
    # There doesn't appear to be a way to prevent this compiler from
    # explicitly linking system object files so we need to strip them
    # from the output so that they don't get included in the library
    # dependencies.
    output_verbose_link_cmd='templist=`($CC -b $CFLAGS -v
conftest.$objext 2>&l) | grep "[[-]]L"`; list=""; for z in $templist; do
case $z in conftest.$objext) list="$list $z";; *.objext);; *)
list="$list $z";;esac; done; echo $list'
    ;;
*)
    if test "$GXX" = yes; then
        _LT_AC_TAGVAR(archive_cmds, $1)='$rm $output_objdir/$soname~$CC -
shared -nostdlib -fPIC ${wl}+b ${wl}$install_libdir -o
$output_objdir/$soname $predep_objects $libobjs $deplibs $postdep_objects
$compiler_flags~test $output_objdir/$soname = $lib || mv
$output_objdir/$soname $lib'
    else
        # FIXME: insert proper C++ library support
        _LT_AC_TAGVAR(ld_shlibs, $1)=no
    fi
    ;;
esac
;;
hpux10*|hpux11*)
    if test $with_gnu_ld = no; then
        _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='${wl}+b ${wl}$libdir'
        _LT_AC_TAGVAR(hardcode_libdir_separator, $1)=:

        case $host_cpu in
        hppa*64*|ia64*)
            _LT_AC_TAGVAR(hardcode_libdir_flag_spec_ld, $1)='+b $libdir'
            ;;
        *)
            _LT_AC_TAGVAR(export_dynamic_flag_spec, $1)='${wl}-E'
            ;;
        esac
    fi
    case $host_cpu in
    hppa*64*|ia64*)
        _LT_AC_TAGVAR(hardcode_direct, $1)=no
    
```

```

    _LT_AC_TAGVAR(hardcode_shlibpath_var, $1)=no
  ;;
*)
  _LT_AC_TAGVAR(hardcode_direct, $1)=yes
  _LT_AC_TAGVAR(hardcode_minus_L, $1)=yes # Not in the search PATH,
                                           # but as the default
                                           # location of the library.

  ;;
esac

case $cc_basename in
  CC*)
    # FIXME: insert proper C++ library support
    _LT_AC_TAGVAR(ld_shlibs, $1)=no
    ;;
  aCC*)
    case $host_cpu in
      hppa*64*)
        _LT_AC_TAGVAR(archive_cmds, $1)='$CC -b ${wl}+h ${wl}$soname -o
$lib $predep_objects $libobjs $deplibs $postdep_objects $compiler_flags'
        ;;
      ia64*)
        _LT_AC_TAGVAR(archive_cmds, $1)='$CC -b ${wl}+h ${wl}$soname
${wl}+nodefaulttrpath -o $lib $predep_objects $libobjs $deplibs
$postdep_objects $compiler_flags'
        ;;
      *)
        _LT_AC_TAGVAR(archive_cmds, $1)='$CC -b ${wl}+h ${wl}$soname
${wl}+b ${wl}$install_libdir -o $lib $predep_objects $libobjs $deplibs
$postdep_objects $compiler_flags'
        ;;
    esac
    # Commands to make compiler produce verbose output that lists
    # what "hidden" libraries, object files and flags are used when
    # linking a shared library.
    #
    # There doesn't appear to be a way to prevent this compiler from
    # explicitly linking system object files so we need to strip them
    # from the output so that they don't get included in the library
    # dependencies.
    output_verbose_link_cmd='templist=`($CC -b $CFLAGS -v
conftest.$objext 2>&1) | grep "\-L" `; list=""; for z in $templist; do
case $z in conftest.$objext) list="$list $z";; *.objext);; *)
list="$list $z";;esac; done; echo $list'
    ;;
*)
  if test "$GXX" = yes; then
    if test $with_gnu_ld = no; then
      case $host_cpu in
        hppa*64*)
          _LT_AC_TAGVAR(archive_cmds, $1)='$CC -shared -nostdlib -fPIC
${wl}+h ${wl}$soname -o $lib $predep_objects $libobjs $deplibs
$postdep_objects $compiler_flags'
          ;;
        *)
          ;;
      esac
    fi
  fi

```

```

        ia64*)
            _LT_AC_TAGVAR(archive_cmds, $1)='$CC -shared -nostdlib -fPIC
${wl}+h ${wl}$soname ${wl}+nodefault_rpath -o $lib $predep_objects
$libobjs $deplibs $postdep_objects $compiler_flags'
            ;;
        *)
            _LT_AC_TAGVAR(archive_cmds, $1)='$CC -shared -nostdlib -fPIC
${wl}+h ${wl}$soname ${wl}+b ${wl}$install_libdir -o $lib $predep_objects
$libobjs $deplibs $postdep_objects $compiler_flags'
            ;;
    esac
fi
else
    # FIXME: insert proper C++ library support
    _LT_AC_TAGVAR(ld_shlibs, $1)=no
fi
;;
esac
;;
interix3*)
    _LT_AC_TAGVAR(hardcode_direct, $1)=no
    _LT_AC_TAGVAR(hardcode_shlibpath_var, $1)=no
    _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='${wl}-rpath,$libdir'
    _LT_AC_TAGVAR(export_dynamic_flag_spec, $1)='${wl}-E'
    # Hack: On Interix 3.x, we cannot compile PIC because of a broken
gcc.
    # Instead, shared libraries are loaded at an image base (0x10000000
by
    # default) and relocated if they conflict, which is a slow very
memory
    # consuming and fragmenting process. To avoid this, we pick a
random,
    # 256 KiB-aligned image base between 0x50000000 and 0x6FFC0000 at
link
    # time. Moving up from 0x10000000 also allows more sbrk(2) space.
    _LT_AC_TAGVAR(archive_cmds, $1)='$CC -shared $pic_flag $libobjs
$deplibs $compiler_flags ${wl}-h,$soname ${wl}--image-base,`expr
${RANDOM-$$} % 4096 / 2 \* 262144 + 1342177280` -o $lib'
    _LT_AC_TAGVAR(archive_expsym_cmds, $1)='sed "s,^,_,," $export_symbols
>$output_objdir/$soname.expsym~$CC -shared $pic_flag $libobjs $deplibs
$compiler_flags ${wl}-h,$soname ${wl}--retain-symbols-
file,$output_objdir/$soname.expsym ${wl}--image-base,`expr ${RANDOM-$$} %
4096 / 2 \* 262144 + 1342177280` -o $lib'
    ;;
    irix5* | irix6*)
        case $cc_basename in
            CC*)
                # SGI C++
                _LT_AC_TAGVAR(archive_cmds, $1)='$CC -shared -all -multigot
$predep_objects $libobjs $deplibs $postdep_objects $compiler_flags -
soname $soname `test -n "$verstring" && echo -set_version $verstring` -
update_registry ${output_objdir}/so_locations -o $lib'

                # Archives containing C++ object files must be created using

```

```

# "CC -ar", where "CC" is the IRIX C++ compiler.  This is
# necessary to make sure instantiated templates are included
# in the archive.
_LT_AC_TAGVAR(old_archive_cmds, $1)='$CC -ar -WR,-u -o $oldlib
$oldobjs'
;;
*)
if test "$GXX" = yes; then
  if test "$with_gnu_ld" = no; then
    _LT_AC_TAGVAR(archive_cmds, $1)='$CC -shared -nostdlib
$predep_objects $libobjs $deplibs $postdep_objects $compiler_flags ${wl}-
soname ${wl}$soname `test -n "$verstring" && echo ${wl}-set_version
${wl}$verstring` ${wl}-update_registry ${wl}${output_objdir}/so_locations
-o $lib'
  else
    _LT_AC_TAGVAR(archive_cmds, $1)='$CC -shared -nostdlib
$predep_objects $libobjs $deplibs $postdep_objects $compiler_flags ${wl}-
soname ${wl}$soname `test -n "$verstring" && echo ${wl}-set_version
${wl}$verstring` -o $lib'
  fi
fi
_LT_AC_TAGVAR(link_all_deplibs, $1)=yes
;;
esac
_LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='${wl}-rpath
${wl}$libdir'
_LT_AC_TAGVAR(hardcode_libdir_separator, $1)=:
;;
linux*)
case $cc_basename in
  KCC*)
    # Kuck and Associates, Inc. (KAI) C++ Compiler

    # KCC will only create a shared library if the output file
    # ends with ".so" (or ".sl" for HP-UX), so rename the library
    # to its proper name (with version) after linking.
    _LT_AC_TAGVAR(archive_cmds, $1)='tempext=`echo $shared_ext | $SED -
e '\''s/\([[^()0-9A-Za-z{}]]\)/\\\\\\1/g'\``; templib=`echo $lib | $SED -
e "s/\${tempext}\.*/.so/"`; $CC $predep_objects $libobjs $deplibs
$postdep_objects $compiler_flags --soname $soname -o \${templib}; mv
\${templib} $lib'
    _LT_AC_TAGVAR(archive_expsym_cmds, $1)='tempext=`echo $shared_ext |
$SED -e '\''s/\([[^()0-9A-Za-z{}]]\)/\\\\\\1/g'\``; templib=`echo $lib |
$SED -e "s/\${tempext}\.*/.so/"`; $CC $predep_objects $libobjs $deplibs
$postdep_objects $compiler_flags --soname $soname -o \${templib} ${wl}-
retain-symbols-file,$export_symbols; mv \${templib} $lib'
    # Commands to make compiler produce verbose output that lists
    # what "hidden" libraries, object files and flags are used when
    # linking a shared library.
    #
    # There doesn't appear to be a way to prevent this compiler from
    # explicitly linking system object files so we need to strip them
    # from the output so that they don't get included in the library
    # dependencies.

```

```

output_verbose_link_cmd='templist=`$CC $CFLAGS -v conftest.$object
-o libconftest$shared_ext 2>&1 | grep "ld"`; rm -f
libconftest$shared_ext; list=""; for z in $templist; do case $z in
conftest.$object) list="$list $z";; *.$object);; *) list="$list
$z";;esac; done; echo $list'

_LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='${wl}--rpath,$libdir'
_LT_AC_TAGVAR(export_dynamic_flag_spec, $1)='${wl}--export-dynamic'

# Archives containing C++ object files must be created using
# "CC -Bstatic", where "CC" is the KAI C++ compiler.
_LT_AC_TAGVAR(old_archive_cmds, $1)='$CC -Bstatic -o $oldlib
$oldobjs'
;;
icpc*)
# Intel C++
with_gnu_ld=yes
# version 8.0 and above of icpc choke on multiply defined symbols
# if we add $predep_objects and $postdep_objects, however 7.1 and
# earlier do not add the objects themselves.
case ` $CC -V 2>&1 ` in
*"Version 7."*)
_LT_AC_TAGVAR(archive_cmds, $1)='$CC -shared $predep_objects
$libobjs $deplibs $postdep_objects $compiler_flags ${wl}-soname
$wl$soname -o $lib'
_LT_AC_TAGVAR(archive_expsym_cmds, $1)='$CC -shared
$predep_objects $libobjs $deplibs $postdep_objects $compiler_flags ${wl}-
soname $wl$soname ${wl}-retain-symbols-file $wl$export_symbols -o $lib'
;;
*) # Version 8.0 or newer
tmp_idyn=
case $host_cpu in
ia64*) tmp_idyn=' -i_dynamic';;
esac
_LT_AC_TAGVAR(archive_cmds, $1)='$CC -shared"$tmp_idyn"
$libobjs $deplibs $compiler_flags ${wl}-soname $wl$soname -o $lib'
_LT_AC_TAGVAR(archive_expsym_cmds, $1)='$CC -shared"$tmp_idyn"
$libobjs $deplibs $compiler_flags ${wl}-soname $wl$soname ${wl}-retain-
symbols-file $wl$export_symbols -o $lib'
;;
esac
_LT_AC_TAGVAR(archive_cmds_need_lc, $1)=no
_LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='${wl}-rpath,$libdir'
_LT_AC_TAGVAR(export_dynamic_flag_spec, $1)='${wl}--export-dynamic'
_LT_AC_TAGVAR(whole_archive_flag_spec, $1)='${wl}--whole-
archive$convenience ${wl}--no-whole-archive'
;;
pgCC*)
# Portland Group C++ compiler
_LT_AC_TAGVAR(archive_cmds, $1)='$CC -shared $pic_flag
$predep_objects $libobjs $deplibs $postdep_objects $compiler_flags ${wl}-
soname ${wl}$soname -o $lib'
_LT_AC_TAGVAR(archive_expsym_cmds, $1)='$CC -shared $pic_flag
$predep_objects $libobjs $deplibs $postdep_objects $compiler_flags ${wl}-

```

```

soname ${wl}$soname ${wl}-retain-symbols-file ${wl}$export_symbols -o
$lib'

    _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='${wl}--rpath
${wl}$libdir'
    _LT_AC_TAGVAR(export_dynamic_flag_spec, $1)='${wl}--export-dynamic'
    _LT_AC_TAGVAR(whole_archive_flag_spec, $1)='${wl}--whole-
archive`for conv in $convenience\`"; do test -n \"$conv\" &&
new_convenience=\"$new_convenience,$conv\"; done; $echo
\"$new_convenience\` ` ${wl}--no-whole-archive'
    ;;
    cxx*)
    # Compaq C++
    _LT_AC_TAGVAR(archive_cmds, $1)='$CC -shared $predep_objects
$libobjs $deplibs $postdep_objects $compiler_flags ${wl}-soname
$wl$soname -o $lib'
    _LT_AC_TAGVAR(archive_expsym_cmds, $1)='$CC -shared $predep_objects
$libobjs $deplibs $postdep_objects $compiler_flags ${wl}-soname
$wl$soname -o $lib ${wl}-retain-symbols-file $wl$export_symbols'

    runpath_var=LD_RUN_PATH
    _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='-rpath $libdir'
    _LT_AC_TAGVAR(hardcode_libdir_separator, $1)=:

    # Commands to make compiler produce verbose output that lists
    # what "hidden" libraries, object files and flags are used when
    # linking a shared library.
    #
    # There doesn't appear to be a way to prevent this compiler from
    # explicitly linking system object files so we need to strip them
    # from the output so that they don't get included in the library
    # dependencies.
    output_verbose_link_cmd='templist=`$CC -shared $CFLAGS -v
conftest.$objext 2>&l | grep "ld"`; templist=`echo $templist | $SED
"s/\(^.*ld.*\)\( .*ld .*$\)/\1/"`; list=""; for z in $templist; do case
$z in conftest.$objext) list="$list $z";; *.$objext);; *) list="$list
$z";; esac; done; echo $list'
    ;;
    esac
    ;;
    lynxos*)
    # FIXME: insert proper C++ library support
    _LT_AC_TAGVAR(ld_shlibs, $1)=no
    ;;
    m88k*)
    # FIXME: insert proper C++ library support
    _LT_AC_TAGVAR(ld_shlibs, $1)=no
    ;;
    mvs*)
    case $cc_basename in
    cxx*)
    # FIXME: insert proper C++ library support
    _LT_AC_TAGVAR(ld_shlibs, $1)=no
    ;;
    ;;

```



```

*)
# FIXME: insert proper C++ library support
_LT_AC_TAGVAR(ld_shlibs, $1)=no
;;
esac
;;
netbsd*)
if echo __ELF__ | $CC -E - | grep __ELF__ >/dev/null; then
  _LT_AC_TAGVAR(archive_cmds, $1)='$LD -Bshareable -o $lib
$predep_objects $libobjs $deplibs $postdep_objects $linker_flags'
  wlarc=
  _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='-R$libdir'
  _LT_AC_TAGVAR(hardcode_direct, $1)=yes
  _LT_AC_TAGVAR(hardcode_shlibpath_var, $1)=no
fi
# Workaround some broken pre-1.5 toolchains
output_verbose_link_cmd='$CC -shared $CFLAGS -v conftest.$object 2>&1
| grep conftest.$object | $SED -e "s:-lgcc -lc -lgcc::"'
;;
openbsd2*)
# C++ shared libraries are fairly broken
_LT_AC_TAGVAR(ld_shlibs, $1)=no
;;
openbsd*)
  _LT_AC_TAGVAR(hardcode_direct, $1)=yes
  _LT_AC_TAGVAR(hardcode_shlibpath_var, $1)=no
  _LT_AC_TAGVAR(archive_cmds, $1)='$CC -shared $pic_flag
$predep_objects $libobjs $deplibs $postdep_objects $compiler_flags -o
$lib'
  _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='${wl}-rpath,$libdir'
  if test -z "`echo __ELF__ | $CC -E - | grep __ELF__`" || test
"$host_os-$host_cpu" = "openbsd2.8-powerpc"; then
    _LT_AC_TAGVAR(archive_expsym_cmds, $1)='$CC -shared $pic_flag
$predep_objects $libobjs $deplibs $postdep_objects $compiler_flags ${wl}-
retain-symbols-file,$export_symbols -o $lib'
    _LT_AC_TAGVAR(export_dynamic_flag_spec, $1)='${wl}-E'
    _LT_AC_TAGVAR(whole_archive_flag_spec, $1)="$wlarc"--whole-
archive$convenience "'$wlarc"'--no-whole-archive'
  fi
  output_verbose_link_cmd='echo'
;;
osf3*)
case $cc_basename in
  KCC*)
    # Kuck and Associates, Inc. (KAI) C++ Compiler

    # KCC will only create a shared library if the output file
    # ends with ".so" (or ".sl" for HP-UX), so rename the library
    # to its proper name (with version) after linking.
    _LT_AC_TAGVAR(archive_cmds, $1)='tempext=`echo $shared_ext | $SED -
e '\''s/\([[^()0-9A-Za-z{}]]\)/\\\\1/g'\``; templib=`echo $lib | $SED -
e "s/\${tempext}\.*/.so/"`; $CC $predep_objects $libobjs $deplibs
$postdep_objects $compiler_flags --soname $soname -o \${templib}; mv
\${templib} $lib'

```

```

_LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='${wl}-rpath,$libdir'
_LT_AC_TAGVAR(hardcode_libdir_separator, $1)=:

# Archives containing C++ object files must be created using
# "CC -Bstatic", where "CC" is the KAI C++ compiler.
_LT_AC_TAGVAR(old_archive_cmds, $1)='$CC -Bstatic -o $oldlib
$oldobjs'

;;
RCC*)
# Rational C++ 2.4.1
# FIXME: insert proper C++ library support
_LT_AC_TAGVAR(ld_shlibs, $1)=no
;;
cxx*)
_LT_AC_TAGVAR(allow_undefined_flag, $1)=' ${wl}-expect_unresolved
${wl}\*'
_LT_AC_TAGVAR(archive_cmds, $1)='$CC -shared${allow_undefined_flag}
$predep_objects $libobjs $deplibs $postdep_objects $compiler_flags ${wl}-
soname $soname `test -n "$verstring" && echo ${wl}-set_version
$verstring` -update_registry ${output_objdir}/so_locations -o $lib'

_LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='${wl}-rpath
${wl}$libdir'
_LT_AC_TAGVAR(hardcode_libdir_separator, $1)=:

# Commands to make compiler produce verbose output that lists
# what "hidden" libraries, object files and flags are used when
# linking a shared library.
#
# There doesn't appear to be a way to prevent this compiler from
# explicitly linking system object files so we need to strip them
# from the output so that they don't get included in the library
# dependencies.
output_verbose_link_cmd='templist=`$CC -shared $CFLAGS -v
conftest.$objext 2>&| grep "ld" | grep -v "ld:"`; templist=`echo
$templist | $SED "s/\(^.*ld.*\)\( .*ld.*$\)/\1/"`; list=""; for z in
$templist; do case $z in conftest.$objext) list="$list $z";; *.$objext);;
*) list="$list $z";; esac; done; echo $list'
;;
*)
if test "$GXX" = yes && test "$with_gnu_ld" = no; then
_LT_AC_TAGVAR(allow_undefined_flag, $1)=' ${wl}-expect_unresolved
${wl}\*'
_LT_AC_TAGVAR(archive_cmds, $1)='$CC -shared -nostdlib
${allow_undefined_flag} $predep_objects $libobjs $deplibs
$postdep_objects $compiler_flags ${wl}-soname ${wl}$soname `test -n
"$verstring" && echo ${wl}-set_version ${wl}$verstring` ${wl}-
update_registry ${wl}${output_objdir}/so_locations -o $lib'

_LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='${wl}-rpath
${wl}$libdir'
_LT_AC_TAGVAR(hardcode_libdir_separator, $1)=:

```

```

# Commands to make compiler produce verbose output that lists
# what "hidden" libraries, object files and flags are used when
# linking a shared library.
output_verbose_link_cmd='$CC -shared $CFLAGS -v conftest.$object
2>&1 | grep "\-L"'

else
# FIXME: insert proper C++ library support
_LT_AC_TAGVAR(ld_shlibs, $1)=no
fi
;;
esac
;;
osf4* | osf5*)
case $cc_basename in
KCC*)
# Kuck and Associates, Inc. (KAI) C++ Compiler

# KCC will only create a shared library if the output file
# ends with ".so" (or ".sl" for HP-UX), so rename the library
# to its proper name (with version) after linking.
_LT_AC_TAGVAR(archive_cmds, $1)='tempext=`echo $shared_ext | $SED -
e '\''s/\([[^()0-9A-Za-z{}]]\)/\\\\\1/g'\''`; templib=`echo $lib | $SED -
e "s/\${tempext}\.*/.so/"`; $CC $predep_objects $libobjs $deplibs
$postdep_objects $compiler_flags --soname $soname -o \${templib}; mv
\${templib} $lib'

_LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='${wl}-rpath,$libdir'
_LT_AC_TAGVAR(hardcode_libdir_separator, $1)=:

# Archives containing C++ object files must be created using
# the KAI C++ compiler.
_LT_AC_TAGVAR(old_archive_cmds, $1)='$CC -o $oldlib $oldobjs'
;;
RCC*)
# Rational C++ 2.4.1
# FIXME: insert proper C++ library support
_LT_AC_TAGVAR(ld_shlibs, $1)=no
;;
cxx*)
_LT_AC_TAGVAR(allow_undefined_flag, $1)=' -expect_undefined \*'
_LT_AC_TAGVAR(archive_cmds, $1)='$CC -shared${allow_undefined_flag}
$predep_objects $libobjs $deplibs $postdep_objects $compiler_flags -msym
-soname $soname `test -n "$verstring" && echo -set_version $verstring` -
update_registry ${output_objdir}/so_locations -o $lib'
_LT_AC_TAGVAR(archive_expsym_cmds, $1)='for i in `cat
$export_symbols`; do printf "%s %s\n" -exported_symbol "\$i" >>
$lib.exp; done~
echo "-hidden">> $lib.exp~
$CC -shared$allow_undefined_flag $predep_objects $libobjs
$deplibs $postdep_objects $compiler_flags -msym -soname $soname -Wl,-
input -Wl,$lib.exp `test -n "$verstring" && echo -set_version
$verstring` -update_registry ${output_objdir}/so_locations -o $lib~

```

```

    $rm $lib.exp'

_LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='-rpath $libdir'
_LT_AC_TAGVAR(hardcode_libdir_separator, $1)=:

# Commands to make compiler produce verbose output that lists
# what "hidden" libraries, object files and flags are used when
# linking a shared library.
#
# There doesn't appear to be a way to prevent this compiler from
# explicitly linking system object files so we need to strip them
# from the output so that they don't get included in the library
# dependencies.
output_verbose_link_cmd='templist=`$CC -shared $CFLAGS -v
conftest.$objext 2>&l | grep "ld" | grep -v "ld:"`; templist=`echo
$templist | $SED "s/\(^.*ld.*\)\( .*ld.*$\)/\1/"`; list=""; for z in
$templist; do case $z in conftest.$objext) list="$list $z";; *.$objext);;
*) list="$list $z";;esac; done; echo $list'
;;
*)
if test "$GXX" = yes && test "$with_gnu_ld" = no; then
    _LT_AC_TAGVAR(allow_undefined_flag, $1)=' ${wl}-expect_unresolved
${wl}\*'
    _LT_AC_TAGVAR(archive_cmds, $1)='$CC -shared -nostdlib
${allow_undefined_flag} $predep_objects $libobjs $deplibs
$postdep_objects $compiler_flags ${wl}-msym ${wl}-soname ${wl}$soname
`test -n "$verstring" && echo ${wl}-set_version ${wl}$verstring` ${wl}-
update_registry ${wl}${output_objdir}/so_locations -o $lib'

    _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='${wl}-rpath
${wl}$libdir'
    _LT_AC_TAGVAR(hardcode_libdir_separator, $1)=:

# Commands to make compiler produce verbose output that lists
# what "hidden" libraries, object files and flags are used when
# linking a shared library.
output_verbose_link_cmd='$CC -shared $CFLAGS -v conftest.$objext
2>&l | grep "\-L"'

else
# FIXME: insert proper C++ library support
_LT_AC_TAGVAR(ld_shlibs, $1)=no
fi
;;
esac
;;
psos*)
# FIXME: insert proper C++ library support
_LT_AC_TAGVAR(ld_shlibs, $1)=no
;;
sunos4*)
case $cc_basename in
CC*)
# Sun C++ 4.x

```

```

# FIXME: insert proper C++ library support
_LT_AC_TAGVAR(ld_shlibs, $1)=no
;;
lcc*)
# Lucid
# FIXME: insert proper C++ library support
_LT_AC_TAGVAR(ld_shlibs, $1)=no
;;
*)
# FIXME: insert proper C++ library support
_LT_AC_TAGVAR(ld_shlibs, $1)=no
;;
esac
;;
solaris*)
case $cc_basename in
  CC*)
    # Sun C++ 4.2, 5.x and Centerline C++
    _LT_AC_TAGVAR(archive_cmds_need_lc,$1)=yes
    _LT_AC_TAGVAR(no_undefined_flag, $1)='-zdefs'
    _LT_AC_TAGVAR(archive_cmds, $1)='$CC -G${allow_undefined_flag} -
h$soname -o $lib $predep_objects $libobjs $deplibs $postdep_objects
$compiler_flags'
    _LT_AC_TAGVAR(archive_expsym_cmds, $1)='$echo "{ global:" >
$lib.exp~cat $export_symbols | $SED -e "s/\(.*\)/\1/" >> $lib.exp~$echo
"local: *; };" >> $lib.exp~
$CC -G${allow_undefined_flag} ${wl}-M ${wl}$lib.exp -h$soname -o
$lib $predep_objects $libobjs $deplibs $postdep_objects
$compiler_flags~$rm $lib.exp'

    _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='-R$libdir'
    _LT_AC_TAGVAR(hardcode_shlibpath_var, $1)=no
    case $host_os in
      solaris2.[0-5] | solaris2.[0-5].*) ;;
      *)
        # The C++ compiler is used as linker so we must use $wl
        # flag to pass the commands to the underlying system
        # linker. We must also pass each convenience library through
        # to the system linker between alleextract/defaultextract.
        # The C++ compiler will combine linker options so we
        # cannot just pass the convenience library names through
        # without $wl.
        # Supported since Solaris 2.6 (maybe 2.5.1?)
        _LT_AC_TAGVAR(whole_archive_flag_spec, $1)='${wl}-z
${wl}alleextract`for conv in $convenience`"; do test -n "$conv" &&
new_convenience="\$new_convenience,$conv"; done; $echo
\$new_convenience`' ${wl}-z ${wl}defaultextract'
        ;;
    esac
    _LT_AC_TAGVAR(link_all_deplibs, $1)=yes

    output_verbose_link_cmd='echo'

    # Archives containing C++ object files must be created using

```

```

# "CC -xar", where "CC" is the Sun C++ compiler. This is
# necessary to make sure instantiated templates are included
# in the archive.
_LT_AC_TAGVAR(old_archive_cmds, $1)='$CC -xar -o $oldlib $oldobjs'
;;
gcx*)
# Green Hills C++ Compiler
_LT_AC_TAGVAR(archive_cmds, $1)='$CC -shared $predep_objects
$libobjs $deplibs $postdep_objects $compiler_flags ${wl}-h $wl$soname -o
$lib'

# The C++ compiler must be used to create the archive.
_LT_AC_TAGVAR(old_archive_cmds, $1)='$CC $LDFLAGS -archive -o
$oldlib $oldobjs'
;;
*)
# GNU C++ compiler with Solaris linker
if test "$GXX" = yes && test "$with_gnu_ld" = no; then
  _LT_AC_TAGVAR(no_undefined_flag, $1)=' ${wl}-z ${wl}defs'
  if $CC --version | grep -v '^2\.7' > /dev/null; then
    _LT_AC_TAGVAR(archive_cmds, $1)='$CC -shared -nostdlib $LDFLAGS
$predep_objects $libobjs $deplibs $postdep_objects $compiler_flags ${wl}-
h $wl$soname -o $lib'
    _LT_AC_TAGVAR(archive_expsym_cmds, $1)='$echo "{ global:" >
$lib.exp~cat $export_symbols | $SED -e "s/\(.*\)/\1;/" >> $lib.exp~$echo
"local: *; };" >> $lib.exp~
$CC -shared -nostdlib ${wl}-M $wl$lib.exp -o $lib
$predep_objects $libobjs $deplibs $postdep_objects $compiler_flags~$rm
$lib.exp'
  else
    # Commands to make compiler produce verbose output that lists
    # what "hidden" libraries, object files and flags are used when
    # linking a shared library.
    output_verbose_link_cmd="$CC -shared $CFLAGS -v
conftest.$objext 2>&1 | grep \"\`-L\`\""
  else
    # g++ 2.7 appears to require `-G' NOT `-shared' on this
    # platform.
    _LT_AC_TAGVAR(archive_cmds, $1)='$CC -G -nostdlib $LDFLAGS
$predep_objects $libobjs $deplibs $postdep_objects $compiler_flags ${wl}-
h $wl$soname -o $lib'
    _LT_AC_TAGVAR(archive_expsym_cmds, $1)='$echo "{ global:" >
$lib.exp~cat $export_symbols | $SED -e "s/\(.*\)/\1;/" >> $lib.exp~$echo
"local: *; };" >> $lib.exp~
$CC -G -nostdlib ${wl}-M $wl$lib.exp -o $lib $predep_objects
$libobjs $deplibs $postdep_objects $compiler_flags~$rm $lib.exp'
  fi

# Commands to make compiler produce verbose output that lists
# what "hidden" libraries, object files and flags are used when
# linking a shared library.
output_verbose_link_cmd="$CC -G $CFLAGS -v conftest.$objext
2>&1 | grep \"\`-L\`\""
fi

```

```

        _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='${wl}-R $wl$libdir'
    fi
    ;;
esac
;;
sysv4*uw2* | sysv5OpenUNIX* | sysv5UnixWare7.[[01]].[[10]]* |
unixware7* | sco3.2v5.0.[[024]]*)
    _LT_AC_TAGVAR(no_undefined_flag, $1)='${wl}-z,text'
    _LT_AC_TAGVAR(archive_cmds_need_lc, $1)=no
    _LT_AC_TAGVAR(hardcode_shlibpath_var, $1)=no
    runpath_var='LD_RUN_PATH'

    case $cc_basename in
        CC*)
            _LT_AC_TAGVAR(archive_cmds, $1)='$CC -G ${wl}-h,$soname -o $lib
$libobjs $deplibs $compiler_flags'
            _LT_AC_TAGVAR(archive_expsym_cmds, $1)='$CC -G ${wl}-
Bexport:$export_symbols ${wl}-h,$soname -o $lib $libobjs $deplibs
$compiler_flags'
            ;;
        *)
            _LT_AC_TAGVAR(archive_cmds, $1)='$CC -shared ${wl}-h,$soname -o
$lib $libobjs $deplibs $compiler_flags'
            _LT_AC_TAGVAR(archive_expsym_cmds, $1)='$CC -shared ${wl}-
Bexport:$export_symbols ${wl}-h,$soname -o $lib $libobjs $deplibs
$compiler_flags'
            ;;
    esac
;;
sysv5* | sco3.2v5* | sco5v6*)
    # Note: We can NOT use -z defs as we might desire, because we do not
    # link with -lc, and that would cause any symbols used from libc to
    # always be unresolved, which means just about no library would
    # ever link correctly.  If we're not using GNU ld we use -z text
    # though, which does catch some bad symbols but isn't as heavy-handed
    # as -z defs.
    # For security reasons, it is highly recommended that you always
    # use absolute paths for naming shared libraries, and exclude the
    # DT_RUNPATH tag from executables and libraries.  But doing so
    # requires that you compile everything twice, which is a pain.
    # So that behaviour is only enabled if SCOABSPATH is set to a
    # non-empty value in the environment.  Most likely only useful for
    # creating official distributions of packages.
    # This is a hack until libtool officially supports absolute path
    # names for shared libraries.
    _LT_AC_TAGVAR(no_undefined_flag, $1)='${wl}-z,text'
    _LT_AC_TAGVAR(allow_undefined_flag, $1)='${wl}-z,nodefs'
    _LT_AC_TAGVAR(archive_cmds_need_lc, $1)=no
    _LT_AC_TAGVAR(hardcode_shlibpath_var, $1)=no
    _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='`test -z "$SCOABSPATH"
&& echo ${wl}-R,$libdir`'
    _LT_AC_TAGVAR(hardcode_libdir_separator, $1)=':'
    _LT_AC_TAGVAR(link_all_deplibs, $1)=yes
    _LT_AC_TAGVAR(export_dynamic_flag_spec, $1)='${wl}-Bexport'

```

```

runpath_var='LD_RUN_PATH'

case $cc_basename in
  CC*)
    _LT_AC_TAGVAR(archive_cmds, $1)='$CC -G ${wl}-
h,\${SCOABSPATH:+${install_libdir}/}$soname -o $lib $libobjs $deplibs
$compiler_flags'
    _LT_AC_TAGVAR(archive_expsym_cmds, $1)='$CC -G ${wl}-
Bexport:$export_symbols ${wl}-h,\${SCOABSPATH:+${install_libdir}/}$soname
-o $lib $libobjs $deplibs $compiler_flags'
    ;;
  *)
    _LT_AC_TAGVAR(archive_cmds, $1)='$CC -shared ${wl}-
h,\${SCOABSPATH:+${install_libdir}/}$soname -o $lib $libobjs $deplibs
$compiler_flags'
    _LT_AC_TAGVAR(archive_expsym_cmds, $1)='$CC -shared ${wl}-
Bexport:$export_symbols ${wl}-h,\${SCOABSPATH:+${install_libdir}/}$soname
-o $lib $libobjs $deplibs $compiler_flags'
    ;;
esac
;;
tandem*)
case $cc_basename in
  NCC*)
    # NonStop-UX NCC 3.20
    # FIXME: insert proper C++ library support
    _LT_AC_TAGVAR(ld_shlibs, $1)=no
    ;;
  *)
    # FIXME: insert proper C++ library support
    _LT_AC_TAGVAR(ld_shlibs, $1)=no
    ;;
esac
;;
vxworks*)
# FIXME: insert proper C++ library support
_LT_AC_TAGVAR(ld_shlibs, $1)=no
;;
*)
# FIXME: insert proper C++ library support
_LT_AC_TAGVAR(ld_shlibs, $1)=no
;;
esac
AC_MSG_RESULT([[ $LT_AC_TAGVAR(ld_shlibs, $1)])]
test "$LT_AC_TAGVAR(ld_shlibs, $1)" = no && can_build_shared=no

_LT_AC_TAGVAR(GCC, $1)="$GXX"
_LT_AC_TAGVAR(LD, $1)="$LD"

AC_LIBTOOL_POSTDEP_PREDEP($1)
AC_LIBTOOL_PROG_COMPILER_PIC($1)
AC_LIBTOOL_PROG_CC_C_O($1)
AC_LIBTOOL_SYS_HARD_LINK_LOCKS($1)
AC_LIBTOOL_PROG_LD_SHLIBS($1)

```



```

AC_LIBTOOL_SYS_DYNAMIC_LINKER($1)
AC_LIBTOOL_PROG_LD_HARDCODE_LIBPATH($1)

AC_LIBTOOL_CONFIG($1)

AC_LANG_POP
CC=$lt_save_CC
LDCXX=$LD
LD=$lt_save_LD
GCC=$lt_save_GCC
with_gnu_ldcxx=$with_gnu_ld
with_gnu_ld=$lt_save_with_gnu_ld
lt_cv_path_LDCXX=$lt_cv_path_LD
lt_cv_path_LD=$lt_save_path_LD
lt_cv_prog_gnu_ldcxx=$lt_cv_prog_gnu_ld
lt_cv_prog_gnu_ld=$lt_save_with_gnu_ld
) # AC_LIBTOOL_LANG_CXX_CONFIG

# AC_LIBTOOL_POSTDEP_PREDEP([TAGNAME])
# -----
# Figure out "hidden" library dependencies from verbose
# compiler output when linking a shared library.
# Parse the compiler output and extract the necessary
# objects, libraries and library flags.
AC_DEFUN([AC_LIBTOOL_POSTDEP_PREDEP],[
dnl we can't use the lt_simple_compile_test_code here,
dnl because it contains code intended for an executable,
dnl not a library.  It's possible we should let each
dnl tag define a new lt_???_link_test_code variable,
dnl but it's only used here...
ifelse([$1],[],[cat > conftest.$ac_ext <<EOF
int a;
void foo (void) { a = 0; }
EOF
],[ $1],[CXX],[cat > conftest.$ac_ext <<EOF
class Foo
{
public:
    Foo (void) { a = 0; }
private:
    int a;
};
EOF
],[ $1],[F77],[cat > conftest.$ac_ext <<EOF
    subroutine foo
    implicit none
    integer*4 a
    a=0
    return
    end
EOF
],[ $1],[GCJ],[cat > conftest.$ac_ext <<EOF
public class foo {
    private int a;

```

```

public void bar (void) {
    a = 0;
}
};
EOF
])
dnl Parse the compiler output and extract the necessary
dnl objects, libraries and library flags.
if AC_TRY_EVAL(ac_compile); then
    # Parse the compiler output and extract the necessary
    # objects, libraries and library flags.

    # Sentinel used to keep track of whether or not we are before
    # the conftest object file.
    pre_test_object_deps_done=no

    # The '*' in the case matches for architectures that use `case' in
    # $output_verbose_cmd can trigger glob expansion during the loop
    # eval without this substitution.
    output_verbose_link_cmd=`$echo "X$output_verbose_link_cmd" | $Xsed -e
"$no_glob_subst"`

    for p in `eval $output_verbose_link_cmd`; do
        case $p in

            -L* | -R* | -l*)
                # Some compilers place space between "-{L,R}" and the path.
                # Remove the space.
                if test $p = "-L" \
                    || test $p = "-R"; then
                    prev=$p
                    continue
                else
                    prev=
                fi

                if test "$pre_test_object_deps_done" = no; then
                    case $p in
                        -L* | -R*)
                            # Internal compiler library paths should come after those
                            # provided the user. The postdeps already come after the
                            # user supplied libs so there is no need to process them.
                            if test -z "$_LT_AC_TAGVAR(compiler_lib_search_path, $1)"; then
                                _LT_AC_TAGVAR(compiler_lib_search_path, $1)="${prev}${p}"
                            else
                                _LT_AC_TAGVAR(compiler_lib_search_path,
$1)="${_LT_AC_TAGVAR(compiler_lib_search_path, $1)} ${prev}${p}"
                            fi
                            ;;
                        # The "-l" case would never come before the object being
                        # linked, so don't bother handling this case.
                        esac
                    else
                        if test -z "$_LT_AC_TAGVAR(postdeps, $1)"; then

```

```

        _LT_AC_TAGVAR(postdeps, $1)="${prev}${p}"
    else
        _LT_AC_TAGVAR(postdeps, $1)="${_LT_AC_TAGVAR(postdeps, $1)}
${prev}${p}"
    fi
    fi
    ;;

*.${objext})
    # This assumes that the test object file only shows up
    # once in the compiler output.
    if test "$p" = "conftest.${objext}"; then
        pre_test_object_deps_done=yes
        continue
    fi

    if test "$pre_test_object_deps_done" = no; then
        if test -z "$_LT_AC_TAGVAR(predep_objects, $1)"; then
            _LT_AC_TAGVAR(predep_objects, $1)="$p"
        else
            _LT_AC_TAGVAR(predep_objects,
$1)="$_LT_AC_TAGVAR(predep_objects, $1) $p"
        fi
    else
        if test -z "$_LT_AC_TAGVAR(postdep_objects, $1)"; then
            _LT_AC_TAGVAR(postdep_objects, $1)="$p"
        else
            _LT_AC_TAGVAR(postdep_objects,
$1)="$_LT_AC_TAGVAR(postdep_objects, $1) $p"
        fi
    fi
    ;;

*) ;; # Ignore the rest.

esac
done

# Clean up.
rm -f a.out a.exe
else
    echo "libtool.m4: error: problem compiling $1 test program"
fi

$rm -f confest.${objext}

# PORTME: override above test on systems where it is broken
ifelse([$1],[CXX],
[case $host_os in
interix3*)
    # Interix 3.5 installs completely hosed .la files for C++, so rather
    than
    # hack all around it, let's just trust "g++" to DTRT.
    _LT_AC_TAGVAR(predep_objects,$1)=

```

```

_LT_AC_TAGVAR(postdep_objects,$1)=
_LT_AC_TAGVAR(postdeps,$1)=
;;

solaris*)
  case $cc_basename in
  CC*)
    # Adding this requires a known-good setup of shared libraries for
    # Sun compiler versions before 5.6, else PIC objects from an old
    # archive will be linked into the output, leading to subtle bugs.
    _LT_AC_TAGVAR(postdeps,$1)='-lCstd -lCrun'
    ;;
  esac
  ;;
esac
)

case " $_LT_AC_TAGVAR(postdeps, $1) " in
*" -lc "*) _LT_AC_TAGVAR(archive_cmds_need_lc, $1)=no ;;
esac
) # AC_LIBTOOL_POSTDEP_PREDEP

# AC_LIBTOOL_LANG_F77_CONFIG
# -----
# Ensure that the configuration vars for the C compiler are
# suitably defined.  Those variables are subsequently used by
# AC_LIBTOOL_CONFIG to write the compiler configuration to `libtool'.
AC_DEFUN([AC_LIBTOOL_LANG_F77_CONFIG], [_LT_AC_LANG_F77_CONFIG(F77)])
AC_DEFUN([_LT_AC_LANG_F77_CONFIG],
[AC_REQUIRE([AC_PROG_F77])
AC_LANG_PUSH(Fortran 77)

_LT_AC_TAGVAR(archive_cmds_need_lc, $1)=no
_LT_AC_TAGVAR(allow_undefined_flag, $1)=
_LT_AC_TAGVAR(always_export_symbols, $1)=no
_LT_AC_TAGVAR(archive_expsym_cmds, $1)=
_LT_AC_TAGVAR(export_dynamic_flag_spec, $1)=
_LT_AC_TAGVAR(hardcode_direct, $1)=no
_LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)=
_LT_AC_TAGVAR(hardcode_libdir_flag_spec_ld, $1)=
_LT_AC_TAGVAR(hardcode_libdir_separator, $1)=
_LT_AC_TAGVAR(hardcode_minus_L, $1)=no
_LT_AC_TAGVAR(hardcode_automatic, $1)=no
_LT_AC_TAGVAR(module_cmds, $1)=
_LT_AC_TAGVAR(module_expsym_cmds, $1)=
_LT_AC_TAGVAR(link_all_deplibs, $1)=unknown
_LT_AC_TAGVAR(old_archive_cmds, $1)=$old_archive_cmds
_LT_AC_TAGVAR(no_undefined_flag, $1)=
_LT_AC_TAGVAR(whole_archive_flag_spec, $1)=
_LT_AC_TAGVAR(enable_shared_with_static_runtimes, $1)=no

# Source file extension for f77 test sources.
ac_ext=f

```

```

# Object file extension for compiled f77 test sources.
objext=o
_LT_AC_TAGVAR(objext, $1)=$objext

# Code to be used in simple compile tests
lt_simple_compile_test_code="      subroutine t\n      return\nend\n"

# Code to be used in simple link tests
lt_simple_link_test_code="      program t\n      end\n"

# ltmain only uses $CC for tagged configurations so make sure $CC is set.
_LT_AC_SYS_COMPILER

# save warnings/boilerplate of simple test code
_LT_COMPILER_BOILERPLATE
_LT_LINKER_BOILERPLATE

# Allow CC to be a program name with arguments.
lt_save_CC="$CC"
CC=${F77-"f77"}
compiler=$CC
_LT_AC_TAGVAR(compiler, $1)=$CC
_LT_CC_BASENAME([$compiler])

AC_MSG_CHECKING([if libtool supports shared libraries])
AC_MSG_RESULT([$can_build_shared])

AC_MSG_CHECKING([whether to build shared libraries])
test "$can_build_shared" = "no" && enable_shared=no

# On AIX, shared libraries and static libraries use the same namespace,
and
# are all built from PIC.
case $host_os in
aix3*)
    test "$enable_shared" = yes && enable_static=no
    if test -n "$RANLIB"; then
        archive_cmds="$archive_cmds~\${RANLIB} \${lib}"
        postinstall_cmds='${RANLIB} \${lib}'
    fi
    ;;
aix4* | aix5*)
    if test "$host_cpu" != ia64 && test "$aix_use_runtimelinking" = no ;
then
        test "$enable_shared" = yes && enable_static=no
    fi
    ;;
esac
AC_MSG_RESULT([$enable_shared])

AC_MSG_CHECKING([whether to build static libraries])
# Make sure either enable_shared or enable_static is yes.
test "$enable_shared" = yes || enable_static=yes

```

```

AC_MSG_RESULT([$enable_static])

_LT_AC_TAGVAR(GCC, $1)="$G77"
_LT_AC_TAGVAR(LD, $1)="$LD"

AC_LIBTOOL_PROG_COMPILER_PIC($1)
AC_LIBTOOL_PROG_CC_C_O($1)
AC_LIBTOOL_SYS_HARD_LINK_LOCKS($1)
AC_LIBTOOL_PROG_LD_SHLIBS($1)
AC_LIBTOOL_SYS_DYNAMIC_LINKER($1)
AC_LIBTOOL_PROG_LD_HARDCODE_LIBPATH($1)

AC_LIBTOOL_CONFIG($1)

AC_LANG_POP
CC="$lt_save_CC"
])# AC_LIBTOOL_LANG_F77_CONFIG

# AC_LIBTOOL_LANG_GCJ_CONFIG
# -----
# Ensure that the configuration vars for the C compiler are
# suitably defined.  Those variables are subsequently used by
# AC_LIBTOOL_CONFIG to write the compiler configuration to `libtool'.
AC_DEFUN([AC_LIBTOOL_LANG_GCJ_CONFIG], [_LT_AC_LANG_GCJ_CONFIG(GCJ)])
AC_DEFUN([_LT_AC_LANG_GCJ_CONFIG],
[AC_LANG_SAVE

# Source file extension for Java test sources.
ac_ext=java

# Object file extension for compiled Java test sources.
objext=o
_LT_AC_TAGVAR(objext, $1)=$objext

# Code to be used in simple compile tests
lt_simple_compile_test_code="class foo {} \n"

# Code to be used in simple link tests
lt_simple_link_test_code='public class confstest { public static void
main(String[][] argv) {}; } \n'

# ltmain only uses $CC for tagged configurations so make sure $CC is set.
_LT_AC_SYS_COMPILER

# save warnings/boilerplate of simple test code
_LT_COMPILER_BOILERPLATE
_LT_LINKER_BOILERPLATE

# Allow CC to be a program name with arguments.
lt_save_CC="$CC"
CC=${GCJ-"gcj"}
compiler=$CC
_LT_AC_TAGVAR(compiler, $1)=$CC

```

```

_LT_CC_BASENAME([$compiler])

# GCJ did not exist at the time GCC didn't implicitly link libc in.
_LT_AC_TAGVAR(archive_cmds_need_lc, $1)=no

_LT_AC_TAGVAR(old_archive_cmds, $1)=$old_archive_cmds

AC_LIBTOOL_PROG_COMPILER_NO_RTTI($1)
AC_LIBTOOL_PROG_COMPILER_PIC($1)
AC_LIBTOOL_PROG_CC_C_O($1)
AC_LIBTOOL_SYS_HARD_LINK_LOCKS($1)
AC_LIBTOOL_PROG_LD_SHLIBS($1)
AC_LIBTOOL_SYS_DYNAMIC_LINKER($1)
AC_LIBTOOL_PROG_LD_HARDCODE_LIBPATH($1)

AC_LIBTOOL_CONFIG($1)

AC_LANG_RESTORE
CC="$lt_save_CC"
])# AC_LIBTOOL_LANG_GCJ_CONFIG

# AC_LIBTOOL_LANG_RC_CONFIG
# -----
# Ensure that the configuration vars for the Windows resource compiler
are
# suitably defined. Those variables are subsequently used by
# AC_LIBTOOL_CONFIG to write the compiler configuration to `libtool'.
AC_DEFUN([AC_LIBTOOL_LANG_RC_CONFIG], [_LT_AC_LANG_RC_CONFIG(RC)])
AC_DEFUN([_LT_AC_LANG_RC_CONFIG],
[AC_LANG_SAVE

# Source file extension for RC test sources.
ac_ext=rc

# Object file extension for compiled RC test sources.
objext=o
_LT_AC_TAGVAR(objext, $1)=$objext

# Code to be used in simple compile tests
lt_simple_compile_test_code='sample MENU { MENUITEM "&Soup", 100, CHECKED
}\n'

# Code to be used in simple link tests
lt_simple_link_test_code="$lt_simple_compile_test_code"

# ltmain only uses $CC for tagged configurations so make sure $CC is set.
_LT_AC_SYS_COMPILER

# save warnings/boilerplate of simple test code
_LT_COMPILER_BOILERPLATE
_LT_LINKER_BOILERPLATE

# Allow CC to be a program name with arguments.

```

```

lt_save_CC="$CC"
CC=${RC-"windres"}
compiler=$CC
_LT_AC_TAGVAR(compiler, $1)=$CC
_LT_CC_BASENAME([$compiler])
_LT_AC_TAGVAR(lt_cv_prog_compiler_c_o, $1)=yes

AC_LIBTOOL_CONFIG($1)

AC_LANG_RESTORE
CC="$lt_save_CC"
])# AC_LIBTOOL_LANG_RC_CONFIG

# AC_LIBTOOL_CONFIG([TAGNAME])
# -----
# If TAGNAME is not passed, then create an initial libtool script
# with a default configuration from the untagged config vars.  Otherwise
# add code to config.status for appending the configuration named by
# TAGNAME from the matching tagged config vars.
AC_DEFUN([AC_LIBTOOL_CONFIG],
[# The else clause should only fire when bootstrapping the
# libtool distribution, otherwise you forgot to ship ltmain.sh
# with your package, and you will get complaints that there are
# no rules to generate ltmain.sh.
if test -f "$ltmain"; then
  # See if we are running on zsh, and set the options which allow our
  commands through
  # without removal of \ escapes.
  if test -n "${ZSH_VERSION+set}" ; then
    setopt NO_GLOB_SUBST
  fi
  # Now quote all the things that may contain metacharacters while being
  # careful not to overquote the AC_SUBSTed values.  We take copies of
the
  # variables and quote the copies for generation of the libtool script.
  for var in echo old_CC old_CFLAGS AR AR_FLAGS EGREP RANLIB LN_S LTCC
  LTCFLAGS NM \
    SED SHELL STRIP \
    libname_spec library_names_spec soname_spec extract_expsyms_cmds \
    old_striplib striplib file_magic_cmd finish_cmds finish_eval \
    deplibs_check_method reload_flag reload_cmds need_locks \
    lt_cv_sys_global_symbol_pipe lt_cv_sys_global_symbol_to_cdecl \
    lt_cv_sys_global_symbol_to_c_name_address \
    sys_lib_search_path_spec sys_lib_dlsearch_path_spec \
    old_postinstall_cmds old_postuninstall_cmds \
    _LT_AC_TAGVAR(compiler, $1) \
    _LT_AC_TAGVAR(CC, $1) \
    _LT_AC_TAGVAR(LD, $1) \
    _LT_AC_TAGVAR(lt_prog_compiler_wl, $1) \
    _LT_AC_TAGVAR(lt_prog_compiler_pic, $1) \
    _LT_AC_TAGVAR(lt_prog_compiler_static, $1) \
    _LT_AC_TAGVAR(lt_prog_compiler_no_builtin_flag, $1) \
    _LT_AC_TAGVAR(export_dynamic_flag_spec, $1) \

```



```

_LT_AC_TAGVAR(thread_safe_flag_spec, $1) \
_LT_AC_TAGVAR(whole_archive_flag_spec, $1) \
_LT_AC_TAGVAR(enable_shared_with_static_runtimes, $1) \
_LT_AC_TAGVAR(old_archive_cmds, $1) \
_LT_AC_TAGVAR(old_archive_from_new_cmds, $1) \
_LT_AC_TAGVAR(predep_objects, $1) \
_LT_AC_TAGVAR(postdep_objects, $1) \
_LT_AC_TAGVAR(predeps, $1) \
_LT_AC_TAGVAR(postdeps, $1) \
_LT_AC_TAGVAR(compiler_lib_search_path, $1) \
_LT_AC_TAGVAR(archive_cmds, $1) \
_LT_AC_TAGVAR(archive_expsym_cmds, $1) \
_LT_AC_TAGVAR(postinstall_cmds, $1) \
_LT_AC_TAGVAR(postuninstall_cmds, $1) \
_LT_AC_TAGVAR(old_archive_from_expsyms_cmds, $1) \
_LT_AC_TAGVAR(allow_undefined_flag, $1) \
_LT_AC_TAGVAR(no_undefined_flag, $1) \
_LT_AC_TAGVAR(export_symbols_cmds, $1) \
_LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1) \
_LT_AC_TAGVAR(hardcode_libdir_flag_spec_ld, $1) \
_LT_AC_TAGVAR(hardcode_libdir_separator, $1) \
_LT_AC_TAGVAR(hardcode_automatic, $1) \
_LT_AC_TAGVAR(module_cmds, $1) \
_LT_AC_TAGVAR(module_expsym_cmds, $1) \
_LT_AC_TAGVAR(lt_cv_prog_compiler_c_o, $1) \
_LT_AC_TAGVAR(exclude_expsyms, $1) \
_LT_AC_TAGVAR(include_expsyms, $1); do

case $var in
  _LT_AC_TAGVAR(old_archive_cmds, $1) | \
  _LT_AC_TAGVAR(old_archive_from_new_cmds, $1) | \
  _LT_AC_TAGVAR(archive_cmds, $1) | \
  _LT_AC_TAGVAR(archive_expsym_cmds, $1) | \
  _LT_AC_TAGVAR(module_cmds, $1) | \
  _LT_AC_TAGVAR(module_expsym_cmds, $1) | \
  _LT_AC_TAGVAR(old_archive_from_expsyms_cmds, $1) | \
  _LT_AC_TAGVAR(export_symbols_cmds, $1) | \
  extract_expsyms_cmds | reload_cmds | finish_cmds | \
  postinstall_cmds | postuninstall_cmds | \
  old_postinstall_cmds | old_postuninstall_cmds | \
  sys_lib_search_path_spec | sys_lib_dlsearch_path_spec)
    # Double-quote double-evaluated strings.
    eval "lt_$var=\\\"\\\"\\$echo \"X\\$var\" | \\Xsed -e
\\\"\\$double_quote_subst\" -e \\\"\\$sed_quote_subst\" -e
\\\"\\$delay_variable_subst\\\"\\\"\\\"\\\""
    ;;
  *)
    eval "lt_$var=\\\"\\\"\\$echo \"X\\$var\" | \\Xsed -e
\\\"\\$sed_quote_subst\\\"\\\"\\\"\\\""
    ;;
esac
done

case $lt_echo in

```

```

*'\[ $]0 --fallback-echo"')
    lt_echo=`$echo "X$lt_echo" | $Xsed -e 's/\\\\\\\\\\\\\\\\[$]0 --fallback-
echo"[$]/[$]0 --fallback-echo"/'`
    ;;
esac

ifelse([$1], [],
    [cfgfile="${ofile}T"
    trap "$rm \"${cfgfile}\"; exit 1" 1 2 15
    $rm -f "${cfgfile}"
    AC_MSG_NOTICE([creating $ofile]),
    [cfgfile="$ofile"])

    cat <<_EOF_ >> "${cfgfile}"
ifelse([$1], [],
[#! $SHELL

# `echo "$cfgfile" | sed 's%^.*/%%'` - Provide generalized library-
building support services.
# Generated automatically by $PROGRAM (GNU $PACKAGE $VERSION$TIMESTAMP)
# NOTE: Changes made to this file will be lost: look at ltmain.sh.
#
# Copyright (C) 1996, 1997, 1998, 1999, 2000, 2001
# Free Software Foundation, Inc.
#
# This file is part of GNU Libtool:
# Originally by Gordon Matzigkeit <gord@gnu.ai.mit.edu>, 1996
#
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# along with this program; if not, write to the Free Software
# Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-
1301, USA.
#
# As a special exception to the GNU General Public License, if you
# distribute this file as part of a program that contains a
# configuration script generated by Autoconf, you may include it under
# the same distribution terms that you use for the rest of that program.

# A sed program that does not truncate output.
SED=$lt_SED

# Sed that helps us avoid accidentally triggering echo(1) options like -
n.
Xsed="$SED -e 1s/^X//"

```

```

# The HP-UX ksh and POSIX shell print the target directory to stdout
# if CDPATH is set.
(unset CDPATH) >/dev/null 2>&1 && unset CDPATH

# The names of the tagged configurations supported by this script.
available_tags=

# ### BEGIN LIBTOOL CONFIG],
[# ### BEGIN LIBTOOL TAG CONFIG: $tagname])

# Libtool was configured on host `(hostname || uname -n) 2>/dev/null |
sed lq`:

# Shell to use when invoking shell scripts.
SHELL=${lt_SHELL}

# Whether or not to build shared libraries.
build_libtool_libs=${enable_shared}

# Whether or not to build static libraries.
build_old_libs=${enable_static}

# Whether or not to add -lc for building shared libraries.
build_libtool_need_lc=${LT_AC_TAGVAR(archive_cmds_need_lc, $1)}

# Whether or not to disallow shared libs when runtime libs are static
allow_libtool_libs_with_static_runtimes=${LT_AC_TAGVAR(enable_shared_with
_static_runtimes, $1)}

# Whether or not to optimize for fast installation.
fast_install=${enable_fast_install}

# The host system.
host_alias=${host_alias}
host=${host}
host_os=${host_os}

# The build system.
build_alias=${build_alias}
build=${build}
build_os=${build_os}

# An echo program that does not interpret backslashes.
echo=${lt_echo}

# The archiver.
AR=${lt_AR}
AR_FLAGS=${lt_AR_FLAGS}

# A C compiler.
LTCC=${lt_LTCC}

# LTCC compiler flags.

```

```

LTCFLAGS=$lt_LTCFLAGS

# A language-specific compiler.
CC=$lt_[]_LT_AC_TAGVAR(compiler, $1)

# Is the compiler the GNU C compiler?
with_gcc=$_LT_AC_TAGVAR(GCC, $1)

# An ERE matcher.
EGREP=$lt_EGREP

# The linker used to build libraries.
LD=$lt_[]_LT_AC_TAGVAR(LD, $1)

# Whether we need hard or soft links.
LN_S=$lt_LN_S

# A BSD-compatible nm program.
NM=$lt_NM

# A symbol stripping program
STRIP=$lt_STRIP

# Used to examine libraries when file_magic_cmd begins "file"
MAGIC_CMD=$MAGIC_CMD

# Used on cygwin: DLL creation program.
DLLTOOL="$DLLTOOL"

# Used on cygwin: object dumper.
OBJDUMP="$OBJDUMP"

# Used on cygwin: assembler.
AS="$AS"

# The name of the directory that contains temporary libtool files.
objdir=$objdir

# How to create reloadable object files.
reload_flag=$lt_reload_flag
reload_cmds=$lt_reload_cmds

# How to pass a linker flag through the compiler.
wl=$lt_[]_LT_AC_TAGVAR(lt_prog_compiler_wl, $1)

# Object file suffix (normally "o").
objext="$ac_objext"

# Old archive suffix (normally "a").
libext="$libext"

# Shared library suffix (normally ".so").
shrext_cmds='$shrext_cmds'

```

```

# Executable file suffix (normally "").
exeext="$exeext"

# Additional compiler flags for building library objects.
pic_flag=$lt_[]_LT_AC_TAGVAR(lt_prog_compiler_pic, $1)
pic_mode=$pic_mode

# What is the maximum length of a command?
max_cmd_len=$lt_cv_sys_max_cmd_len

# Does compiler simultaneously support -c and -o options?
compiler_c_o=$lt_[]_LT_AC_TAGVAR(lt_cv_prog_compiler_c_o, $1)

# Must we lock files when doing compilation?
need_locks=$lt_need_locks

# Do we need the lib prefix for modules?
need_lib_prefix=$need_lib_prefix

# Do we need a version for libraries?
need_version=$need_version

# Whether dlopen is supported.
dlopen_support=$enable_dlopen

# Whether dlopen of programs is supported.
dlopen_self=$enable_dlopen_self

# Whether dlopen of statically linked programs is supported.
dlopen_self_static=$enable_dlopen_self_static

# Compiler flag to prevent dynamic linking.
link_static_flag=$lt_[]_LT_AC_TAGVAR(lt_prog_compiler_static, $1)

# Compiler flag to turn off builtin functions.
no_builtin_flag=$lt_[]_LT_AC_TAGVAR(lt_prog_compiler_no_builtin_flag, $1)

# Compiler flag to allow reflexive dlopens.
export_dynamic_flag_spec=$lt_[]_LT_AC_TAGVAR(export_dynamic_flag_spec, $1)

# Compiler flag to generate shared objects directly from archives.
whole_archive_flag_spec=$lt_[]_LT_AC_TAGVAR(whole_archive_flag_spec, $1)

# Compiler flag to generate thread-safe objects.
thread_safe_flag_spec=$lt_[]_LT_AC_TAGVAR(thread_safe_flag_spec, $1)

# Library versioning type.
version_type=$version_type

# Format of library name prefix.
libname_spec=$lt_libname_spec

# List of archive names.  First name is the real one, the rest are links.

```

```

# The last name is the one that the linker finds with -lNAME.
library_names_spec=$lt_library_names_spec

# The coded name of the library, if different from the real name.
soname_spec=$lt_soname_spec

# Commands used to build and install an old-style archive.
RANLIB=$lt_RANLIB
old_archive_cmds=$lt_[]_LT_AC_TAGVAR(old_archive_cmds, $1)
old_postinstall_cmds=$lt_old_postinstall_cmds
old_postuninstall_cmds=$lt_old_postuninstall_cmds

# Create an old-style archive from a shared archive.
old_archive_from_new_cmds=$lt_[]_LT_AC_TAGVAR(old_archive_from_new_cmds,
$1)

# Create a temporary old-style archive to link instead of a shared
archive.
old_archive_from_expsyms_cmds=$lt_[]_LT_AC_TAGVAR(old_archive_from_expsym
s_cmds, $1)

# Commands used to build and install a shared archive.
archive_cmds=$lt_[]_LT_AC_TAGVAR(archive_cmds, $1)
archive_expsym_cmds=$lt_[]_LT_AC_TAGVAR(archive_expsym_cmds, $1)
postinstall_cmds=$lt_postinstall_cmds
postuninstall_cmds=$lt_postuninstall_cmds

# Commands used to build a loadable module (assumed same as above if
empty)
module_cmds=$lt_[]_LT_AC_TAGVAR(module_cmds, $1)
module_expsym_cmds=$lt_[]_LT_AC_TAGVAR(module_expsym_cmds, $1)

# Commands to strip libraries.
old_striplib=$lt_old_striplib
striplib=$lt_striplib

# Dependencies to place before the objects being linked to create a
# shared library.
predep_objects=$lt_[]_LT_AC_TAGVAR(predep_objects, $1)

# Dependencies to place after the objects being linked to create a
# shared library.
postdep_objects=$lt_[]_LT_AC_TAGVAR(postdep_objects, $1)

# Dependencies to place before the objects being linked to create a
# shared library.
predeps=$lt_[]_LT_AC_TAGVAR(predeps, $1)

# Dependencies to place after the objects being linked to create a
# shared library.
postdeps=$lt_[]_LT_AC_TAGVAR(postdeps, $1)

# The library search path used internally by the compiler when linking
# a shared library.

```

```

compiler_lib_search_path=$lt_[]_LT_AC_TAGVAR(compiler_lib_search_path,
$1)

# Method to check whether dependent libraries are shared objects.
deplibs_check_method=$lt_deplibs_check_method

# Command to use when deplibs_check_method == file_magic.
file_magic_cmd=$lt_file_magic_cmd

# Flag that allows shared libraries with undefined symbols to be built.
allow_undefined_flag=$lt_[]_LT_AC_TAGVAR(allow_undefined_flag, $1)

# Flag that forces no undefined symbols.
no_undefined_flag=$lt_[]_LT_AC_TAGVAR(no_undefined_flag, $1)

# Commands used to finish a libtool library installation in a directory.
finish_cmds=$lt_finish_cmds

# Same as above, but a single script fragment to be eval'd but not shown.
finish_eval=$lt_finish_eval

# Take the output of nm and produce a listing of raw symbols and C names.
global_symbol_pipe=$lt_lt_cv_sys_global_symbol_pipe

# Transform the output of nm in a proper C declaration
global_symbol_to_cdecl=$lt_lt_cv_sys_global_symbol_to_cdecl

# Transform the output of nm in a C name address pair
global_symbol_to_c_name_address=$lt_lt_cv_sys_global_symbol_to_c_name_add
ress

# This is the shared library runtime path variable.
runpath_var=$runpath_var

# This is the shared library path variable.
shlibpath_var=$shlibpath_var

# Is shlibpath searched before the hard-coded library search path?
shlibpath_overrides_runpath=$shlibpath_overrides_runpath

# How to hardcode a shared library path into an executable.
hardcode_action=$_LT_AC_TAGVAR(hardcode_action, $1)

# Whether we should hardcode library paths into libraries.
hardcode_into_libs=$hardcode_into_libs

# Flag to hardcode \${libdir} into a binary during linking.
# This must work even if \${libdir} does not exist.
hardcode_libdir_flag_spec=$lt_[]_LT_AC_TAGVAR(hardcode_libdir_flag_spec,
$1)

# If ld is used when linking, flag to hardcode \${libdir} into
# a binary during linking. This must work even if \${libdir} does
# not exist.

```

```

hardcode_libdir_flag_spec_ld=$lt_[]_LT_AC_TAGVAR(hardcode_libdir_flag_spec_ld, $1)

# Whether we need a single -rpath flag with a separated argument.
hardcode_libdir_separator=$lt_[]_LT_AC_TAGVAR(hardcode_libdir_separator, $1)

# Set to yes if using DIR/libNAME${shared_ext} during linking hardcodes
# DIR into the
# resulting binary.
hardcode_direct=$_LT_AC_TAGVAR(hardcode_direct, $1)

# Set to yes if using the -LDIR flag during linking hardcodes DIR into
# the
# resulting binary.
hardcode_minus_L=$_LT_AC_TAGVAR(hardcode_minus_L, $1)

# Set to yes if using SHLIBPATH_VAR=DIR during linking hardcodes DIR into
# the resulting binary.
hardcode_shlibpath_var=$_LT_AC_TAGVAR(hardcode_shlibpath_var, $1)

# Set to yes if building a shared library automatically hardcodes DIR
# into the library
# and all subsequent libraries and executables linked against it.
hardcode_automatic=$_LT_AC_TAGVAR(hardcode_automatic, $1)

# Variables whose values should be saved in libtool wrapper scripts and
# restored at relink time.
variables_saved_for_relink="$variables_saved_for_relink"

# Whether libtool must link a program against all its dependency
# libraries.
link_all_deplibs=$_LT_AC_TAGVAR(link_all_deplibs, $1)

# Compile-time system search path for libraries
sys_lib_search_path_spec=$lt_sys_lib_search_path_spec

# Run-time system search path for libraries
sys_lib_dlsearch_path_spec=$lt_sys_lib_dlsearch_path_spec

# Fix the shell variable \$srcfile for the compiler.
fix_srcfile_path="$_LT_AC_TAGVAR(fix_srcfile_path, $1)"

# Set to yes if exported symbols are required.
always_export_symbols=$_LT_AC_TAGVAR(always_export_symbols, $1)

# The commands to list exported symbols.
export_symbols_cmds=$lt_[]_LT_AC_TAGVAR(export_symbols_cmds, $1)

# The commands to extract the exported symbol list from a shared archive.
extract_expsyms_cmds=$lt_extract_expsyms_cmds

# Symbols that should not be listed in the preloaded symbols.
exclude_expsyms=$lt_[]_LT_AC_TAGVAR(exclude_expsyms, $1)

```



```

# Symbols that must always be exported.
include_expsyms=$lt[_LT_AC_TAGVAR(include_expsyms, $1)

ifelse([$1],[],
[# ### END LIBTOOL CONFIG],
[# ### END LIBTOOL TAG CONFIG: $tagname])

__EOF__

ifelse([$1],[], [
  case $host_os in
    aix3*)
      cat <<\EOF >> "$cfgfile"

# AIX sometimes has problems with the GCC collect2 program.  For some
# reason, if we set the COLLECT_NAMES environment variable, the problems
# vanish in a puff of smoke.
if test "X${COLLECT_NAMES+set}" != Xset; then
  COLLECT_NAMES=
  export COLLECT_NAMES
fi
EOF
  ;;
  esac

# We use sed instead of cat because bash on DJGPP gets confused if
# if finds mixed CR/LF and LF-only lines.  Since sed operates in
# text mode, it properly converts lines to CR/LF.  This bash problem
# is reportedly fixed, but why not run on old versions too?
sed '$q' "$ltmain" >> "$cfgfile" || (rm -f "$cfgfile"; exit 1)

mv -f "$cfgfile" "$ofile" || \
  (rm -f "$ofile" && cp "$cfgfile" "$ofile" && rm -f "$cfgfile")
chmod +x "$ofile"
])
else
# If there is no Makefile yet, we rely on a make rule to execute
# `config.status --recheck' to rerun these tests and create the
# libtool script then.
ltmain_in=`echo $ltmain | sed -e 's/\.sh$/\.in/'`
if test -f "$ltmain_in"; then
  test -f Makefile && make "$ltmain"
fi
fi
])# AC_LIBTOOL_CONFIG

# AC_LIBTOOL_PROG_COMPILER_NO_RTTI([TAGNAME])
# -----
AC_DEFUN([AC_LIBTOOL_PROG_COMPILER_NO_RTTI],
[AC_REQUIRE([_LT_AC_SYS_COMPILER])dnl

_LT_AC_TAGVAR(lt_prog_compiler_no_builtin_flag, $1)=

```

```

if test "$GCC" = yes; then
  _LT_AC_TAGVAR(lt_prog_compiler_no_built_in_flag, $1)=' -fno-builtin'

  AC_LIBTOOL_COMPILER_OPTION([if $compiler supports -fno-rtti -fno-
exceptions],
    lt_cv_prog_compiler_rtti_exceptions,
    [-fno-rtti -fno-exceptions], [],
    [_LT_AC_TAGVAR(lt_prog_compiler_no_built_in_flag,
$1)="$_LT_AC_TAGVAR(lt_prog_compiler_no_built_in_flag, $1) -fno-rtti -fno-
exceptions"])
fi
])# AC_LIBTOOL_PROG_COMPILER_NO_RTTI

# AC_LIBTOOL_SYS_GLOBAL_SYMBOL_PIPE
# -----
AC_DEFUN([AC_LIBTOOL_SYS_GLOBAL_SYMBOL_PIPE],
[AC_REQUIRE([AC_CANONICAL_HOST])
AC_REQUIRE([AC_PROG_NM])
AC_REQUIRE([AC_OBJEXT])
# Check for command to grab the raw symbol name followed by C symbol from
nm.
AC_MSG_CHECKING([command to parse $NM output from $compiler object])
AC_CACHE_VAL([lt_cv_sys_global_symbol_pipe],
[
# These are sane defaults that work on at least a few old systems.
# [They come from Ultrix.  What could be older than Ultrix?!! ;)]

# Character class describing NM global symbol codes.
symcode='[[BCDEGRST]]'

# Regexp to match symbols that can be accessed directly from C.
sympat='\([[A-Za-z]]\[[A-Za-z0-9]]*\)'

# Transform an extracted symbol line into a proper C declaration
lt_cv_sys_global_symbol_to_cdecl="sed -n -e 's/^.* \([^*]\)$/extern int
\1;/p'"

# Transform an extracted symbol line into symbol name and symbol address
lt_cv_sys_global_symbol_to_c_name_address="sed -n -e 's/^: \([[^ ]]*\) $/
{\\"\\\"\\1\\\", (lt_ptr) 0},/p' -e 's/^$symcode \([[^ ]]*\) \([[^ ]]*\)$/
{\\"\\2\", (lt_ptr) \&\\2},/p'"

# Define system-specific variables.
case $host_os in
aix*)
  symcode='[[BCDT]]'
  ;;
cygwin* | mingw* | pw32*)
  symcode='[[ABCDGISTW]]'
  ;;
hpux*) # Its linker distinguishes data from code symbols
  if test "$host_cpu" = ia64; then

```

```

    symcode='[[ABCDEGRST]]'
fi
lt_cv_sys_global_symbol_to_cdecl="sed -n -e 's/^T .* \(.*\)$/extern int
\1();/p' -e 's/^$symcode* .* \(.*\)$/extern char \1;/p'"
lt_cv_sys_global_symbol_to_c_name_address="sed -n -e 's/^: \([[^ ]]*\)
$/ {\\\"\\1\\\", (lt_ptr) 0},/p' -e 's/^$symcode* \([[^ ]]*\) \([[^
]]*\)$/ {\\\"2\\\", (lt_ptr) \&2},/p'"
;;
linux*)
if test "$host_cpu" = ia64; then
    symcode='[[ABCDGIRSTW]]'
    lt_cv_sys_global_symbol_to_cdecl="sed -n -e 's/^T .* \(.*\)$/extern
int \1();/p' -e 's/^$symcode* .* \(.*\)$/extern char \1;/p'"
    lt_cv_sys_global_symbol_to_c_name_address="sed -n -e 's/^: \([[^
]]*\) $/ {\\\"\\1\\\", (lt_ptr) 0},/p' -e 's/^$symcode* \([[^ ]]*\) \([[^
]]*\)$/ {\\\"2\\\", (lt_ptr) \&2},/p'"
fi
;;
irix* | nonstopux*)
    symcode='[[BCDEGRST]]'
    ;;
osf*)
    symcode='[[BCDEGQRST]]'
    ;;
solaris*)
    symcode='[[BDRT]]'
    ;;
sco3.2v5*)
    symcode='[[DT]]'
    ;;
sysv4.2uw2*)
    symcode='[[DT]]'
    ;;
sysv5* | sco5v6* | unixware* | OpenUNIX*)
    symcode='[[ABDT]]'
    ;;
sysv4)
    symcode='[[DFNSTU]]'
    ;;
esac

# Handle CRLF in mingw tool chain
opt_cr=
case $build_os in
mingw*)
    opt_cr=`echo 'x\{0,1\}' | tr x '\015'` # option cr in regexp
    ;;
esac

# If we're using GNU nm, then use its standard symbol codes.
case ` $NM -V 2>&1 ` in
*GNU* | *'with BFD'*)
    symcode='[[ABCDGIRSTW]]' ;;
esac

```

```

# Try without a prefix underscore, then with it.
for ac_symprfx in "" "_"; do

    # Transform symcode, sympat, and symprfx into a raw symbol and a C
    symbol.
    symxfrm="\1 $ac_symprfx\2 \2"

    # Write the raw and C identifiers.
    lt_cv_sys_global_symbol_pipe="sed -n -e 's/^\.*[[
    ]]\($symcode$symcode*\)[[
    ]][[
    ]]*$ac_symprfx$sympat$opt_cr$/$symxfrm/p'"

    # Check to see that the pipe works correctly.
    pipe_works=no

    rm -f conftest*
    cat > conftest.$ac_ext <<EOF
#ifdef __cplusplus
extern "C" {
#endif
char nm_test_var;
void nm_test_func(){}
#ifdef __cplusplus
}
#endif
int main(){nm_test_var='a';nm_test_func();return(0);}
EOF

    if AC_TRY_EVAL(ac_compile); then
        # Now try to grab the symbols.
        nlist=conftest.nm
        if AC_TRY_EVAL(NM conftest.$ac_objext \
$lt_cv_sys_global_symbol_pipe \> $nlist) && test -s "$nlist"; then
            # Try sorting and uniquifying the output.
            if sort "$nlist" | uniq > "$nlist".T; then
                mv -f "$nlist".T "$nlist"
            else
                rm -f "$nlist".T
            fi

            # Make sure that we snagged all the symbols we need.
            if grep ' nm_test_var$' "$nlist" >/dev/null; then
                if grep ' nm_test_func$' "$nlist" >/dev/null; then
                    cat <<EOF > conftest.$ac_ext
#ifdef __cplusplus
extern "C" {
#endif
EOF

                    # Now generate the symbol file.
                    eval "$lt_cv_sys_global_symbol_to_cdecl" < "$nlist" | grep -v
main >> conftest.$ac_ext'

```

```

        cat <<EOF >> confptest.$ac_ext
#if defined (__STDC__) && __STDC__
# define lt_ptr_t void *
#else
# define lt_ptr_t char *
# define const
#endif

/* The mapping between symbol names and symbols. */
const struct {
    const char *name;
    lt_ptr_t address;
}
lt_preloaded_symbols[[]] =
{
EOF
    $SED "s/^\$symcode$symcode* \(.*\)\ \(.*)$/ {\\"&2\", (lt_ptr_t)
\&2},/" < "$nlist" | grep -v main >> confptest.$ac_ext
    cat <<\EOF >> confptest.$ac_ext
    {0, (lt_ptr_t) 0}
};

#ifdef __cplusplus
}
#endif
EOF

# Now try linking the two files.
mv confptest.$ac_objext conftstm.$ac_objext
lt_save_LIBS="$LIBS"
lt_save_CFLAGS="$CFLAGS"
LIBS="conftstm.$ac_objext"
CFLAGS="$CFLAGS$_LT_AC_TAGVAR(lt_prog_compiler_no_builtin_flag,
$1)"

if AC_TRY_EVAL(ac_link) && test -s confptest${ac_exeext}; then
    pipe_works=yes
fi
LIBS="$lt_save_LIBS"
CFLAGS="$lt_save_CFLAGS"
else
    echo "cannot find nm_test_func in $nlist" >&AS_MESSAGE_LOG_FD
fi
else
    echo "cannot find nm_test_var in $nlist" >&AS_MESSAGE_LOG_FD
fi
else
    echo "cannot run $lt_cv_sys_global_symbol_pipe" >&AS_MESSAGE_LOG_FD
fi
else
    echo "$progname: failed program was:" >&AS_MESSAGE_LOG_FD
    cat confptest.$ac_ext >&5
fi
rm -f confptest* conftstm*

# Do not use the global_symbol_pipe unless it works.

```

```

    if test "$pipe_works" = yes; then
        break
    else
        lt_cv_sys_global_symbol_pipe=
    fi
done
])
if test -z "$lt_cv_sys_global_symbol_pipe"; then
    lt_cv_sys_global_symbol_to_cdecl=
fi
if test -z
"$lt_cv_sys_global_symbol_pipe$lt_cv_sys_global_symbol_to_cdecl"; then
    AC_MSG_RESULT(failed)
else
    AC_MSG_RESULT(ok)
fi
]) # AC_LIBTOOL_SYS_GLOBAL_SYMBOL_PIPE

# AC_LIBTOOL_PROG_COMPILER_PIC([TAGNAME])
# -----
AC_DEFUN([AC_LIBTOOL_PROG_COMPILER_PIC],
[_LT_AC_TAGVAR(lt_prog_compiler_wl, $1)=
_LT_AC_TAGVAR(lt_prog_compiler_pic, $1)=
_LT_AC_TAGVAR(lt_prog_compiler_static, $1)=

AC_MSG_CHECKING([for $compiler option to produce PIC])
ifelse([$1],[CXX],[
    # C++ specific cases for pic, static, wl, etc.
    if test "$GXX" = yes; then
        _LT_AC_TAGVAR(lt_prog_compiler_wl, $1)='-Wl,'
        _LT_AC_TAGVAR(lt_prog_compiler_static, $1)='-static'

        case $host_os in
            aix*)
                # All AIX code is PIC.
                if test "$host_cpu" = ia64; then
                    # AIX 5 now supports IA64 processor
                    _LT_AC_TAGVAR(lt_prog_compiler_static, $1)='-Bstatic'
                fi
                ;;
            amigaos*)
                # FIXME: we need at least 68020 code to build shared libraries, but
                # adding the `-m68020' flag to GCC prevents building anything
                better,
                # like `-m68040'.
                _LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-m68020 -resident32 -
malways-restore-a4'
                ;;
            beos* | cygwin* | irix5* | irix6* | nonstopux* | osf3* | osf4* |
osf5*)
                # PIC is the default for these OSes.
                ;;
            mingw* | os2* | pw32*)

```

```

# This hack is so that the source file can tell whether it is being
# built for inclusion in a dll (and should export symbols for
example).
_LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-DDLL_EXPORT'
;;
darwin* | rhapsody*)
# PIC is the default on this platform
# Common symbols not allowed in MH_DYLIB files
_LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-fno-common'
;;
*djgpp*)
# DJGPP does not support shared libraries at all
_LT_AC_TAGVAR(lt_prog_compiler_pic, $1)=
;;
interix3*)
# Interix 3.x gcc -fpic/-fPIC options generate broken code.
# Instead, we relocate shared libraries at runtime.
;;
sysv4*MP*)
if test -d /usr/nec; then
_LT_AC_TAGVAR(lt_prog_compiler_pic, $1)=-Kconform_pic
fi
;;
hpux*)
# PIC is the default for IA64 HP-UX and 64-bit HP-UX, but
# not for PA HP-UX.
case $host_cpu in
hppa*64*|ia64*)
;;
*)
_LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-fPIC'
;;
esac
;;
*)
_LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-fPIC'
;;
esac
else
case $host_os in
aix4* | aix5*)
# All AIX code is PIC.
if test "$host_cpu" = ia64; then
# AIX 5 now supports IA64 processor
_LT_AC_TAGVAR(lt_prog_compiler_static, $1)='-Bstatic'
else
_LT_AC_TAGVAR(lt_prog_compiler_static, $1)='-bnso -
bI:/lib/syscalls.exp'
fi
;;
chorus*)
case $cc_basename in
cxch68*)
# Green Hills C++ Compiler

```

```

        # _LT_AC_TAGVAR(lt_prog_compiler_static, $1)="--
no_auto_instantiation -u __main -u __premain -u _abort -r
$COOL_DIR/lib/libOrb.a $MVME_DIR/lib/CC/libC.a
$MVME_DIR/lib/classix/libcx.s.a"
        ;;
    esac
    ;;
    darwin*)
        # PIC is the default on this platform
        # Common symbols not allowed in MH_DYLIB files
        case $cc_basename in
            xlc*)
                _LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-qnocommon'
                _LT_AC_TAGVAR(lt_prog_compiler_wl, $1)='-Wl,'
                ;;
        esac
    ;;
    dgux*)
    case $cc_basename in
        ec++*)
            _LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-KPIC'
            ;;
        ghcx*)
            # Green Hills C++ Compiler
            _LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-pic'
            ;;
        *)
            ;;
    esac
    ;;
    freebsd* | kfreebsd*-gnu | dragonfly*)
    # FreeBSD uses GNU C++
    ;;
    hpux9* | hpux10* | hpux11*)
    case $cc_basename in
        CC*)
            _LT_AC_TAGVAR(lt_prog_compiler_wl, $1)='-Wl,'
            _LT_AC_TAGVAR(lt_prog_compiler_static, $1)='${wl}-a
${wl}archive'
            if test "$host_cpu" != ia64; then
                _LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='+Z'
            fi
            ;;
        aCC*)
            _LT_AC_TAGVAR(lt_prog_compiler_wl, $1)='-Wl,'
            _LT_AC_TAGVAR(lt_prog_compiler_static, $1)='${wl}-a
${wl}archive'
            case $host_cpu in
                hppa*64*|ia64*)
                    # +Z the default
                    ;;
                *)
                    _LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='+Z'
                    ;;
            esac
            ;;
    esac
    ;;

```



```

        esac
        ;;
    *)
        ;;
esac
;;
interix*)
# This is c89, which is MS Visual C++ (no shared libs)
# Anyone wants to do a port?
;;
irix5* | irix6* | nonstopux*)
case $cc_basename in
    CC*)
        _LT_AC_TAGVAR(lt_prog_compiler_wl, $1)='-Wl,'
        _LT_AC_TAGVAR(lt_prog_compiler_static, $1)='-non_shared'
        # CC pic flag -KPIC is the default.
        ;;
    *)
        ;;
esac
;;
linux*)
case $cc_basename in
    KCC*)
        # KAI C++ Compiler
        _LT_AC_TAGVAR(lt_prog_compiler_wl, $1)='--backend -Wl,'
        _LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-fPIC'
        ;;
    icpc* | ecpc*)
        # Intel C++
        _LT_AC_TAGVAR(lt_prog_compiler_wl, $1)='-Wl,'
        _LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-KPIC'
        _LT_AC_TAGVAR(lt_prog_compiler_static, $1)='-static'
        ;;
    pgCC*)
        # Portland Group C++ compiler.
        _LT_AC_TAGVAR(lt_prog_compiler_wl, $1)='-Wl,'
        _LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-fpic'
        _LT_AC_TAGVAR(lt_prog_compiler_static, $1)='-Bstatic'
        ;;
    cxx*)
        # Compaq C++
        # Make sure the PIC flag is empty.  It appears that all Alpha
        # Linux and Compaq Tru64 Unix objects are PIC.
        _LT_AC_TAGVAR(lt_prog_compiler_pic, $1)=
        _LT_AC_TAGVAR(lt_prog_compiler_static, $1)='-non_shared'
        ;;
    *)
        ;;
esac
;;
lynxos*)
;;
m88k*)

```

```

;;
mvs*)
case $cc_basename in
  cxx*)
    _LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-W c,exportall'
    ;;
  *)
    ;;
esac
;;
netbsd*)
;;
osf3* | osf4* | osf5*)
case $cc_basename in
  KCC*)
    _LT_AC_TAGVAR(lt_prog_compiler_wl, $1)='--backend -Wl,'
    ;;
  RCC*)
    # Rational C++ 2.4.1
    _LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-pic'
    ;;
  cxx*)
    # Digital/Compaq C++
    _LT_AC_TAGVAR(lt_prog_compiler_wl, $1)='-Wl,'
    # Make sure the PIC flag is empty.  It appears that all Alpha
    # Linux and Compaq Tru64 Unix objects are PIC.
    _LT_AC_TAGVAR(lt_prog_compiler_pic, $1)=
    _LT_AC_TAGVAR(lt_prog_compiler_static, $1)='-non_shared'
    ;;
  *)
    ;;
esac
;;
psos*)
;;
solaris*)
case $cc_basename in
  CC*)
    # Sun C++ 4.2, 5.x and Centerline C++
    _LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-KPIC'
    _LT_AC_TAGVAR(lt_prog_compiler_static, $1)='-Bstatic'
    _LT_AC_TAGVAR(lt_prog_compiler_wl, $1)='-Qoption ld '
    ;;
  gcx*)
    # Green Hills C++ Compiler
    _LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-PIC'
    ;;
  *)
    ;;
esac
;;
sunos4*)
case $cc_basename in
  CC*)

```

```

        # Sun C++ 4.x
        _LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-pic'
        _LT_AC_TAGVAR(lt_prog_compiler_static, $1)='-Bstatic'
        ;;
lcc*)
    # Lucid
    _LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-pic'
    ;;
*)
    ;;
esac
;;
tandem*)
case $cc_basename in
  NCC*)
    # NonStop-UX NCC 3.20
    _LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-KPIC'
    ;;
  *)
    ;;
esac
;;
sysv5* | unixware* | sco3.2v5* | sco5v6* | OpenUNIX*)
case $cc_basename in
  CC*)
    _LT_AC_TAGVAR(lt_prog_compiler_wl, $1)='-Wl,'
    _LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-KPIC'
    _LT_AC_TAGVAR(lt_prog_compiler_static, $1)='-Bstatic'
    ;;
esac
;;
vxworks*)
;;
*)
    _LT_AC_TAGVAR(lt_prog_compiler_can_build_shared, $1)=no
    ;;
esac
fi
],
[
if test "$GCC" = yes; then
    _LT_AC_TAGVAR(lt_prog_compiler_wl, $1)='-Wl,'
    _LT_AC_TAGVAR(lt_prog_compiler_static, $1)='-static'

case $host_os in
  aix*)
    # All AIX code is PIC.
    if test "$host_cpu" = ia64; then
    # AIX 5 now supports IA64 processor
    _LT_AC_TAGVAR(lt_prog_compiler_static, $1)='-Bstatic'
    fi
    ;;
amigaos*)

```

```

        # FIXME: we need at least 68020 code to build shared libraries, but
        # adding the '-m68020' flag to GCC prevents building anything
better,
        # like '-m68040'.
        _LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-m68020 -resident32 -
malways-restore-a4'
        ;;

beos* | cygwin* | irix5* | irix6* | nonstopux* | osf3* | osf4* |
osf5*)
        # PIC is the default for these OSes.
        ;;

mingw* | pw32* | os2*)
        # This hack is so that the source file can tell whether it is being
        # built for inclusion in a dll (and should export symbols for
example).
        _LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-DDLL_EXPORT'
        ;;

darwin* | rhapsody*)
        # PIC is the default on this platform
        # Common symbols not allowed in MH_DYLIB files
        _LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-fno-common'
        ;;

interix3*)
        # Interix 3.x gcc -fpic/-fPIC options generate broken code.
        # Instead, we relocate shared libraries at runtime.
        ;;

msdosdjgpp*)
        # Just because we use GCC doesn't mean we suddenly get shared
libraries
        # on systems that don't support them.
        _LT_AC_TAGVAR(lt_prog_compiler_can_build_shared, $1)=no
        enable_shared=no
        ;;

sysv4*MP*)
        if test -d /usr/nec; then
            _LT_AC_TAGVAR(lt_prog_compiler_pic, $1)=-Kconform_pic
        fi
        ;;

hpux*)
        # PIC is the default for IA64 HP-UX and 64-bit HP-UX, but
        # not for PA HP-UX.
        case $host_cpu in
        hppa*64*|ia64*)
            # +Z the default
            ;;
        *)
            _LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-fPIC'
            ;;
        esac

```

```

;;
esac
;;

*)
  _LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-fPIC'
  ;;
esac
else
  # PORTME Check for flag to pass linker flags through the system
  compiler.
  case $host_os in
    aix*)
      _LT_AC_TAGVAR(lt_prog_compiler_wl, $1)='-Wl,'
      if test "$host_cpu" = ia64; then
        # AIX 5 now supports IA64 processor
        _LT_AC_TAGVAR(lt_prog_compiler_static, $1)='-Bstatic'
      else
        _LT_AC_TAGVAR(lt_prog_compiler_static, $1)='-bnso -
bI:/lib/syscalls.exp'
      fi
      ;;
    darwin*)
      # PIC is the default on this platform
      # Common symbols not allowed in MH_DYLIB files
      case $cc_basename in
        xlc*)
          _LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-qnocommon'
          _LT_AC_TAGVAR(lt_prog_compiler_wl, $1)='-Wl,'
          ;;
        esac
      ;;
    mingw* | pw32* | os2*)
      # This hack is so that the source file can tell whether it is being
      # built for inclusion in a dll (and should export symbols for
      example).
      _LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-DDLL_EXPORT'
      ;;
    hpux9* | hpux10* | hpux11*)
      _LT_AC_TAGVAR(lt_prog_compiler_wl, $1)='-Wl,'
      # PIC is the default for IA64 HP-UX and 64-bit HP-UX, but
      # not for PA HP-UX.
      case $host_cpu in
        hppa*64*|ia64*)
          # +Z the default
          ;;
        *)
          _LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='+Z'
          ;;
        esac
      # Is there a better lt_prog_compiler_static that works with the
      bundled CC?

```

```

_LT_AC_TAGVAR(lt_prog_compiler_static, $1)='${wl}-a ${wl}archive'
;;

irix5* | irix6* | nonstopux*)
_LT_AC_TAGVAR(lt_prog_compiler_wl, $1)='-Wl,'
# PIC (with -KPIC) is the default.
_LT_AC_TAGVAR(lt_prog_compiler_static, $1)='-non_shared'
;;

newsos6)
_LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-KPIC'
_LT_AC_TAGVAR(lt_prog_compiler_static, $1)='-Bstatic'
;;

linux*)
case $cc_basename in
icc* | ecc*)
_LT_AC_TAGVAR(lt_prog_compiler_wl, $1)='-Wl,'
_LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-KPIC'
_LT_AC_TAGVAR(lt_prog_compiler_static, $1)='-static'
;;
pgcc* | pgf77* | pgf90* | pgf95*)
# Portland Group compilers (*not* the Pentium gcc compiler,
# which looks to be a dead project)
_LT_AC_TAGVAR(lt_prog_compiler_wl, $1)='-Wl,'
_LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-fpic'
_LT_AC_TAGVAR(lt_prog_compiler_static, $1)='-Bstatic'
;;
ccc*)
_LT_AC_TAGVAR(lt_prog_compiler_wl, $1)='-Wl,'
# All Alpha code is PIC.
_LT_AC_TAGVAR(lt_prog_compiler_static, $1)='-non_shared'
;;
esac
;;

osf3* | osf4* | osf5*)
_LT_AC_TAGVAR(lt_prog_compiler_wl, $1)='-Wl,'
# All OSF/1 code is PIC.
_LT_AC_TAGVAR(lt_prog_compiler_static, $1)='-non_shared'
;;

solaris*)
_LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-KPIC'
_LT_AC_TAGVAR(lt_prog_compiler_static, $1)='-Bstatic'
case $cc_basename in
f77* | f90* | f95*)
_LT_AC_TAGVAR(lt_prog_compiler_wl, $1)='-Qoption ld ';;
*)
_LT_AC_TAGVAR(lt_prog_compiler_wl, $1)='-Wl, ';;
esac
;;

sunos4*)

```

```

    _LT_AC_TAGVAR(lt_prog_compiler_wl, $1)='-Qoption ld '
    _LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-PIC'
    _LT_AC_TAGVAR(lt_prog_compiler_static, $1)='-Bstatic'
;;

sysv4 | sysv4.2uw2* | sysv4.3*)
    _LT_AC_TAGVAR(lt_prog_compiler_wl, $1)='-Wl,'
    _LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-KPIC'
    _LT_AC_TAGVAR(lt_prog_compiler_static, $1)='-Bstatic'
;;

sysv4*MP*)
    if test -d /usr/nec ;then
        _LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-Kconform_pic'
        _LT_AC_TAGVAR(lt_prog_compiler_static, $1)='-Bstatic'
    fi
;;

sysv5* | unixware* | sco3.2v5* | sco5v6* | OpenUNIX*)
    _LT_AC_TAGVAR(lt_prog_compiler_wl, $1)='-Wl,'
    _LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-KPIC'
    _LT_AC_TAGVAR(lt_prog_compiler_static, $1)='-Bstatic'
;;

unicos*)
    _LT_AC_TAGVAR(lt_prog_compiler_wl, $1)='-Wl,'
    _LT_AC_TAGVAR(lt_prog_compiler_can_build_shared, $1)=no
;;

uts4*)
    _LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-pic'
    _LT_AC_TAGVAR(lt_prog_compiler_static, $1)='-Bstatic'
;;

*)
    _LT_AC_TAGVAR(lt_prog_compiler_can_build_shared, $1)=no
;;
esac
fi
])
AC_MSG_RESULT([$ _LT_AC_TAGVAR(lt_prog_compiler_pic, $1)])

#
# Check to make sure the PIC flag actually works.
#
if test -n "$ _LT_AC_TAGVAR(lt_prog_compiler_pic, $1)"; then
    AC_LIBTOOL_COMPILER_OPTION([if $compiler PIC flag
$ _LT_AC_TAGVAR(lt_prog_compiler_pic, $1) works],
    _LT_AC_TAGVAR(lt_prog_compiler_pic_works, $1),
    [$_LT_AC_TAGVAR(lt_prog_compiler_pic, $1)ifelse([$1],[],[ -
DPIC],[ifelse([$1],[CXX],[ -DPIC],[ ])])], [],
    [case $ _LT_AC_TAGVAR(lt_prog_compiler_pic, $1) in
    "" | " "*) ;;

```

```

    *) _LT_AC_TAGVAR(lt_prog_compiler_pic, $1)="
_LT_AC_TAGVAR(lt_prog_compiler_pic, $1)" ;;
    esac],
    [_LT_AC_TAGVAR(lt_prog_compiler_pic, $1)=
    _LT_AC_TAGVAR(lt_prog_compiler_can_build_shared, $1)=no])
fi
case $host_os in
  # For platforms which do not support PIC, -DPIC is meaningless:
  *djgpp*)
    _LT_AC_TAGVAR(lt_prog_compiler_pic, $1)=
    ;;
  *)
    _LT_AC_TAGVAR(lt_prog_compiler_pic,
$1)="$ _LT_AC_TAGVAR(lt_prog_compiler_pic, $1)ifelse([$1],[],[ -
DPIC],[ifelse([$1],[CXX],[ -DPIC],[ ]])]"
    ;;
esac

#
# Check to make sure the static flag actually works.
#
wl=$_LT_AC_TAGVAR(lt_prog_compiler_wl, $1) eval
lt_tmp_static_flag="\$_LT_AC_TAGVAR(lt_prog_compiler_static, $1)\\"
AC_LIBTOOL_LINKER_OPTION([if $compiler static flag $lt_tmp_static_flag
works],
  _LT_AC_TAGVAR(lt_prog_compiler_static_works, $1),
  $lt_tmp_static_flag,
  [],
  [_LT_AC_TAGVAR(lt_prog_compiler_static, $1)=])
])

# AC_LIBTOOL_PROG_LD_SHLIBS([TAGNAME])
# -----
# See if the linker supports building shared libraries.
AC_DEFUN([AC_LIBTOOL_PROG_LD_SHLIBS],
[AC_MSG_CHECKING([whether the $compiler linker ($LD) supports shared
libraries])
ifelse([$1],[CXX],[
  _LT_AC_TAGVAR(export_symbols_cmds, $1)='$NM $libobjs $convenience |
$global_symbol_pipe | $SED '\''s/.* //'\'\' | sort | uniq >
$export_symbols'
  case $host_os in
    aix4* | aix5*)
      # If we're using GNU nm, then we don't want the "-C" option.
      # -C means demangle to AIX nm, but means don't demangle with GNU nm
      if $NM -V 2>&1 | grep 'GNU' > /dev/null; then
        _LT_AC_TAGVAR(export_symbols_cmds, $1)='$NM -Bpg $libobjs
$convenience | awk '\''{ if (((\[$]2 == "T") || (\[$]2 == "D") || (\[$]2
== "B")) && ([substr](\[$]3,1,1) != ".")) { print \[$]3 } }'\'' | sort -u
> $export_symbols'
      else
        _LT_AC_TAGVAR(export_symbols_cmds, $1)='$NM -BCpg $libobjs
$convenience | awk '\''{ if (((\[$]2 == "T") || (\[$]2 == "D") || (\[$]2

```



```

== "B")) && ([substr] (\[$]3,1,1) != ".")) { print \[$]3 } }'\'' | sort -u
> $export_symbols'
    fi
    ;;
pw32*)
    _LT_AC_TAGVAR(export_symbols_cmds, $1)="$!tdll_cmds"
    ;;
cygwin* | mingw*)
    _LT_AC_TAGVAR(export_symbols_cmds, $1)='$NM $libobjs $convenience |
$global_symbol_pipe | $SED -e '\''/^[[BCDGRS]] /s/.*/\([[^ ]]*\)/\1
DATA/;/^.* __nm /s/^.* __nm \([[^ ]]*\) [[^ ]]*/\1 DATA/;/^I
/d;/^[[AITW]] /s/.*/\'' | sort | uniq > $export_symbols'
    ;;
*)
    _LT_AC_TAGVAR(export_symbols_cmds, $1)='$NM $libobjs $convenience |
$global_symbol_pipe | $SED '\''s/.*/\'' | sort | uniq >
$export_symbols'
    ;;
esac
], [
runpath_var=
_LT_AC_TAGVAR(allow_undefined_flag, $1)=
_LT_AC_TAGVAR(enable_shared_with_static_runtimes, $1)=no
_LT_AC_TAGVAR(archive_cmds, $1)=
_LT_AC_TAGVAR(archive_expsym_cmds, $1)=
_LT_AC_TAGVAR(old_archive_From_new_cmds, $1)=
_LT_AC_TAGVAR(old_archive_from_expsyms_cmds, $1)=
_LT_AC_TAGVAR(export_dynamic_flag_spec, $1)=
_LT_AC_TAGVAR(whole_archive_flag_spec, $1)=
_LT_AC_TAGVAR(thread_safe_flag_spec, $1)=
_LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)=
_LT_AC_TAGVAR(hardcode_libdir_flag_spec_ld, $1)=
_LT_AC_TAGVAR(hardcode_libdir_separator, $1)=
_LT_AC_TAGVAR(hardcode_direct, $1)=no
_LT_AC_TAGVAR(hardcode_minus_L, $1)=no
_LT_AC_TAGVAR(hardcode_shlibpath_var, $1)=unsupported
_LT_AC_TAGVAR(link_all_deplibs, $1)=unknown
_LT_AC_TAGVAR(hardcode_automatic, $1)=no
_LT_AC_TAGVAR(module_cmds, $1)=
_LT_AC_TAGVAR(module_expsym_cmds, $1)=
_LT_AC_TAGVAR(always_export_symbols, $1)=no
_LT_AC_TAGVAR(export_symbols_cmds, $1)='$NM $libobjs $convenience |
$global_symbol_pipe | $SED '\''s/.*/\'' | sort | uniq >
$export_symbols'
# include_expsyms should be a list of space-separated symbols to be
*always*
# included in the symbol list
_LT_AC_TAGVAR(include_expsyms, $1)=
# exclude_expsyms can be an extended regexp of symbols to exclude
# it will be wrapped by ` (' and `)$', so one must not match beginning
or
# end of line. Example: `a|bc|.d.*' will exclude the symbols `a' and
`bc',
# as well as any symbol that contains `d'.

```

```

_LT_AC_TAGVAR(exclude_expsyms, $1)="_GLOBAL_OFFSET_TABLE_"
# Although _GLOBAL_OFFSET_TABLE_ is a valid symbol C name, most a.out
# platforms (ab)use it in PIC code, but their linkers get confused if
# the symbol is explicitly referenced. Since portable code cannot
# rely on this symbol name, it's probably fine to never include it in
# preloaded symbol tables.
extract_expsyms_cmds=
# Just being paranoid about ensuring that cc_basename is set.
_LT_CC_BASENAME([$compiler])
case $host_os in
cygwin* | mingw* | pw32*)
  # FIXME: the MSVC++ port hasn't been tested in a loooong time
  # When not using gcc, we currently assume that we are using
  # Microsoft Visual C++.
  if test "$GCC" != yes; then
    with_gnu_ld=no
  fi
  ;;
interix*)
  # we just hope/assume this is gcc and not c89 (= MSVC++)
  with_gnu_ld=yes
  ;;
openbsd*)
  with_gnu_ld=no
  ;;
esac

_LT_AC_TAGVAR(ld_shlibs, $1)=yes
if test "$with_gnu_ld" = yes; then
  # If archive_cmds runs LD, not CC, wlarc should be empty
  wlarc='${wl}'

  # Set some defaults for GNU ld with shared library support. These
  # are reset later if shared libraries are not supported. Putting them
  # here allows them to be overridden if necessary.
  runpath_var=LD_RUN_PATH
  _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='${wl}--rpath
${wl}$libdir'
  _LT_AC_TAGVAR(export_dynamic_flag_spec, $1)='${wl}--export-dynamic'
  # ancient GNU ld didn't support --whole-archive et. al.
  if $LD --help 2>&1 | grep 'no-whole-archive' > /dev/null; then
    _LT_AC_TAGVAR(whole_archive_flag_spec, $1)=" $wlarc"--whole-
archive$convenience "'$wlarc"--no-whole-archive'
  else
    _LT_AC_TAGVAR(whole_archive_flag_spec, $1)=
  fi
  supports_anon_versioning=no
  case ` $LD -v 2>/dev/null ` in
    *\ [[01]].* | *\ 2. [[0-9]].* | *\ 2.10.*) ;; # catch versions <
2.11
    *\ 2.11.93.0.2\ *) supports_anon_versioning=yes ;; # RH7.3 ...
    *\ 2.11.92.0.12\ *) supports_anon_versioning=yes ;; # Mandrake 8.2
...
    *\ 2.11.*) ;; # other 2.11 versions

```

```

*) supports_anon_versioning=yes ;;
esac

# See if GNU ld supports shared libraries.
case $host_os in
aix3* | aix4* | aix5*)
  # On AIX/PPC, the GNU linker is very broken
  if test "$host_cpu" != ia64; then
    _LT_AC_TAGVAR(ld_shlibs, $1)=no
    cat <<EOF 1>&2

*** Warning: the GNU linker, at least up to release 2.9.1, is reported
*** to be unable to reliably create shared libraries on AIX.
*** Therefore, libtool is disabling shared libraries support.  If you
*** really care for shared libraries, you may want to modify your PATH
*** so that a non-GNU linker is found, and then restart.

EOF

    fi
    ;;

amigaos*)
  _LT_AC_TAGVAR(archive_cmds, $1)='$rm
$output_objdir/a2ixlibrary.data~$echo "#define NAME $libname" >
$output_objdir/a2ixlibrary.data~$echo "#define LIBRARY_ID 1" >>
$output_objdir/a2ixlibrary.data~$echo "#define VERSION $major" >>
$output_objdir/a2ixlibrary.data~$echo "#define REVISION $revision" >>
$output_objdir/a2ixlibrary.data~$AR $AR_FLAGS $lib $libobjs~$RANLIB
$lib~(cd $output_objdir && a2ixlibrary -32)'
  _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='-L$libdir'
  _LT_AC_TAGVAR(hardcode_minus_L, $1)=yes

  # Samuel A. Falvo II <kc5tja@dolphin.openprojects.net> reports
  # that the semantics of dynamic libraries on AmigaOS, at least up
  # to version 4, is to share data among multiple programs linked
  # with the same dynamic library.  Since this doesn't match the
  # behavior of shared libraries on other platforms, we can't use
  # them.
  _LT_AC_TAGVAR(ld_shlibs, $1)=no
  ;;

beos*)
  if $LD --help 2>&1 | grep ': supported targets:.* elf' > /dev/null;
then
  _LT_AC_TAGVAR(allow_undefined_flag, $1)=unsupported
  # Joseph Beckenbach <jrb3@best.com> says some releases of gcc
  # support --undefined.  This deserves some investigation.  FIXME
  _LT_AC_TAGVAR(archive_cmds, $1)='$CC -nostart $libobjs $deplibs
$compiler_flags ${wl}-soname $wl$soname -o $lib'
  else
  _LT_AC_TAGVAR(ld_shlibs, $1)=no
  fi
  ;;

```

```

cygwin* | mingw* | pw32*)
# _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1) is actually
meaningless,
# as there is no search path for DLLs.
_LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='-L$libdir'
_LT_AC_TAGVAR(allow_undefined_flag, $1)=unsupported
_LT_AC_TAGVAR(always_export_symbols, $1)=no
_LT_AC_TAGVAR(enable_shared_with_static_runtimes, $1)=yes
_LT_AC_TAGVAR(export_symbols_cmds, $1)='$NM $libobjs $convenience |
$global_symbol_pipe | $SED -e '\''/^[[BCDGRS]] /s/.* \([[^ ]]*\)/\1
DATA/\' | $SED -e '\''/^[[AITW]] /s/.* //' | sort | uniq >
$export_symbols'

if $LD --help 2>&1 | grep 'auto-import' > /dev/null; then
  _LT_AC_TAGVAR(archive_cmds, $1)='$CC -shared $libobjs $deplibs
$compiler_flags -o $output_objdir/$soname ${wl}--enable-auto-image-base -
Xlinker --out-implib -Xlinker $lib'
# If the export-symbols file already is a .def file (1st line
# is EXPORTS), use it as is; otherwise, prepend...
_LT_AC_TAGVAR(archive_expsym_cmds, $1)='if test "x`$SED 1q
$export_symbols`" = xEXPORTS; then
  cp $export_symbols $output_objdir/$soname.def;
else
  echo EXPORTS > $output_objdir/$soname.def;
  cat $export_symbols >> $output_objdir/$soname.def;
fi~
$CC -shared $output_objdir/$soname.def $libobjs $deplibs
$compiler_flags -o $output_objdir/$soname ${wl}--enable-auto-image-base -
Xlinker --out-implib -Xlinker $lib'
else
  _LT_AC_TAGVAR(ld_shlibs, $1)=no
fi
;;

interix3*)
  _LT_AC_TAGVAR(hardcode_direct, $1)=no
  _LT_AC_TAGVAR(hardcode_shlibpath_var, $1)=no
  _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='${wl}-rpath,$libdir'
  _LT_AC_TAGVAR(export_dynamic_flag_spec, $1)='${wl}-E'
  # Hack: On Interix 3.x, we cannot compile PIC because of a broken
gcc.
  # Instead, shared libraries are loaded at an image base (0x10000000
by
  # default) and relocated if they conflict, which is a slow very
memory
  # consuming and fragmenting process. To avoid this, we pick a
random,
  # 256 KiB-aligned image base between 0x50000000 and 0x6FFC0000 at
link
  # time. Moving up from 0x10000000 also allows more sbrk(2) space.
  _LT_AC_TAGVAR(archive_cmds, $1)='$CC -shared $pic_flag $libobjs
$deplibs $compiler_flags ${wl}-h,$soname ${wl}--image-base,`expr
${RANDOM-$$} % 4096 / 2 \* 262144 + 1342177280` -o $lib'

```

```

        _LT_AC_TAGVAR(archive_expsym_cmds, $1)='sed "s,^,_,,"
$export_symbols >$output_objdir/$soname.expsym~$CC -shared $pic_flag
$libobjs $deplibs $compiler_flags ${wl}-h,$soname ${wl}--retain-symbols-
file,$output_objdir/$soname.expsym ${wl}--image-base,`expr ${RANDOM-$$} %
4096 / 2 \* 262144 + 1342177280` -o $lib'
        ;;

linux*)
        if $LD --help 2>&1 | grep ': supported targets:.* elf' > /dev/null;
then
        tmp_addflag=
        case $cc_basename,$host_cpu in
        pgcc*)
                # Portland Group C compiler
                _LT_AC_TAGVAR(whole_archive_flag_spec, $1)='${wl}--whole-
archive`for conv in $convenience\""; do test -n \"$conv\" &&
new_convenience=\"$new_convenience,$conv\"; done; $echo
\"$new_convenience\"` ${wl}--no-whole-archive'
                tmp_addflag=' $pic_flag'
                ;;
        pgf77* | pgf90* | pgf95*)
                # Portland Group f77 and f90 compilers
                _LT_AC_TAGVAR(whole_archive_flag_spec, $1)='${wl}--whole-
archive`for conv in $convenience\""; do test -n \"$conv\" &&
new_convenience=\"$new_convenience,$conv\"; done; $echo
\"$new_convenience\"` ${wl}--no-whole-archive'
                tmp_addflag=' $pic_flag -Mnomain' ;;
        ecc*,ia64* | icc*,ia64*)
                # Intel C compiler on ia64
                tmp_addflag=' -i_dynamic' ;;
        efc*,ia64* | ifort*,ia64*)
                # Intel Fortran compiler on ia64
                tmp_addflag=' -i_dynamic -nofor_main' ;;
        ifc* | ifort*)
                # Intel Fortran compiler
                tmp_addflag=' -nofor_main' ;;
        esac
        _LT_AC_TAGVAR(archive_cmds, $1)='$CC -shared'"$tmp_addflag"
$libobjs $deplibs $compiler_flags ${wl}-soname $wl$soname -o $lib'

        if test $supports_anon_versioning = yes; then
                _LT_AC_TAGVAR(archive_expsym_cmds, $1)='$echo "{ global:" >
$output_objdir/$libname.ver~
cat $export_symbols | sed -e "s/(.*)/\1;/\" >>
$output_objdir/$libname.ver~
$echo "local: *; };" >> $output_objdir/$libname.ver~
$CC -shared'"$tmp_addflag" $libobjs $deplibs $compiler_flags
${wl}-soname $wl$soname ${wl}-version-script
${wl}$output_objdir/$libname.ver -o $lib'
                fi
            else
                _LT_AC_TAGVAR(ld_shlibs, $1)=no
            fi
        ;;

netbsd*)
        if echo __ELF__ | $CC -E - | grep __ELF__ >/dev/null; then
                _LT_AC_TAGVAR(archive_cmds, $1)='$LD -Bshareable $libobjs $deplibs
$linker_flags -o $lib'

```

```

        wlarc=
        else
            _LT_AC_TAGVAR(archive_cmds, $1)='$CC -shared $libobjs $deplibs
$compiler_flags ${wl}-soname $wl$soname -o $lib'
            _LT_AC_TAGVAR(archive_expsym_cmds, $1)='$CC -shared $libobjs
$deplibs $compiler_flags ${wl}-soname $wl$soname ${wl}-retain-symbols-
file $wl$export_symbols -o $lib'
        fi
    ;;

```

```

solaris*)
    if $LD -v 2>&1 | grep 'BFD 2\.8' > /dev/null; then
        _LT_AC_TAGVAR(ld_shlibs, $1)=no
        cat <<EOF 1>&2

```

```

*** Warning: The releases 2.8.* of the GNU linker cannot reliably
*** create shared libraries on Solaris systems. Therefore, libtool
*** is disabling shared libraries support. We urge you to upgrade GNU
*** binutils to release 2.9.1 or newer. Another option is to modify
*** your PATH or compiler configuration so that the native linker is
*** used, and then restart.

```

```
EOF
```

```

        elif $LD --help 2>&1 | grep ': supported targets:.* elf' >
/dev/null; then
            _LT_AC_TAGVAR(archive_cmds, $1)='$CC -shared $libobjs $deplibs
$compiler_flags ${wl}-soname $wl$soname -o $lib'
            _LT_AC_TAGVAR(archive_expsym_cmds, $1)='$CC -shared $libobjs
$deplibs $compiler_flags ${wl}-soname $wl$soname ${wl}-retain-symbols-
file $wl$export_symbols -o $lib'
        else
            _LT_AC_TAGVAR(ld_shlibs, $1)=no
        fi
    ;;

```

```

sysv5* | sco3.2v5* | sco5v6* | unixware* | OpenUNIX*)
    case ` $LD -v 2>&1 ` in
        *\ [[01]].* | *\ 2.([[0-9]].* | *\ 2.1([[0-5]].*))
        _LT_AC_TAGVAR(ld_shlibs, $1)=no
        cat <<_LT_EOF 1>&2

```

```

*** Warning: Releases of the GNU linker prior to 2.16.91.0.3 can not
*** reliably create shared libraries on SCO systems. Therefore, libtool
*** is disabling shared libraries support. We urge you to upgrade GNU
*** binutils to release 2.16.91.0.3 or newer. Another option is to
modify
*** your PATH or compiler configuration so that the native linker is
*** used, and then restart.

```

```

_LT_EOF
    ;;
*)
    if $LD --help 2>&1 | grep ': supported targets:.* elf' >
/dev/null; then

```

```

        _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='`test -z
"$SCOABSPATH" && echo ${wl}-rpath,$libdir`'
        _LT_AC_TAGVAR(archive_cmds, $1)='$CC -shared $libobjs $deplibs
$compiler_flags ${wl}-soname,\${SCOABSPATH:+${install_libdir}/}$soname -o
$lib'
        _LT_AC_TAGVAR(archive_expsym_cmds, $1)='$CC -shared $libobjs
$deplibs $compiler_flags ${wl}-
soname,\${SCOABSPATH:+${install_libdir}/}$soname,-retain-symbols-
file,$export_symbols -o $lib'
        else
        _LT_AC_TAGVAR(ld_shlibs, $1)=no
        fi
    ;;
esac
;;

sunos4*)
    _LT_AC_TAGVAR(archive_cmds, $1)='$LD -assert pure-text -Bshareable
-o $lib $libobjs $deplibs $linker_flags'
    wlarc=
    _LT_AC_TAGVAR(hardcode_direct, $1)=yes
    _LT_AC_TAGVAR(hardcode_shlibpath_var, $1)=no
    ;;

*)
    if $LD --help 2>&1 | grep ': supported targets:.* elf' > /dev/null;
then
    _LT_AC_TAGVAR(archive_cmds, $1)='$CC -shared $libobjs $deplibs
$compiler_flags ${wl}-soname $wl$soname -o $lib'
    _LT_AC_TAGVAR(archive_expsym_cmds, $1)='$CC -shared $libobjs
$deplibs $compiler_flags ${wl}-soname $wl$soname ${wl}-retain-symbols-
file $wl$export_symbols -o $lib'
    else
    _LT_AC_TAGVAR(ld_shlibs, $1)=no
    fi
    ;;
esac

if test "$_LT_AC_TAGVAR(ld_shlibs, $1)" = no; then
    runpath_var=
    _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)=
    _LT_AC_TAGVAR(export_dynamic_flag_spec, $1)=
    _LT_AC_TAGVAR(whole_archive_flag_spec, $1)=
fi
else
# PORTME fill in a description of your system's linker (not GNU ld)
case $host_os in
aix3*)
    _LT_AC_TAGVAR(allow_undefined_flag, $1)=unsupported
    _LT_AC_TAGVAR(always_export_symbols, $1)=yes
    _LT_AC_TAGVAR(archive_expsym_cmds, $1)='$LD -o
$output_objdir/$soname $libobjs $deplibs $linker_flags -
bE:$export_symbols -T512 -H512 -bM:SRE~$AR $AR_FLAGS $lib
$output_objdir/$soname'

```

```

# Note: this linker hardcodes the directories in LIBPATH if there
# are no directories specified by -L.
_LT_AC_TAGVAR(hardcode_minus_L, $1)=yes
if test "$GCC" = yes && test -z "$lt_prog_compiler_static"; then
# Neither direct hardcoding nor static linking is supported with a
# broken collect2.
_LT_AC_TAGVAR(hardcode_direct, $1)=unsupported
fi
;;

aix4* | aix5*)
  if test "$host_cpu" = ia64; then
    # On IA64, the linker does run time linking by default, so we don't
    # have to do anything special.
    aix_use_runtimelinking=no
    exp_sym_flag='-Bexport'
    no_entry_flag=""
  else
    # If we're using GNU nm, then we don't want the "-C" option.
    # -C means demangle to AIX nm, but means don't demangle with GNU nm
    if $NM -V 2>&1 | grep 'GNU' > /dev/null; then
      _LT_AC_TAGVAR(export_symbols_cmds, $1)='$NM -Bpg $libobjs
$convenience | awk '\''{ if (((\[ $]2 == "T") || (\[ $]2 == "D") || (\[ $]2
== "B")) && ([substr](\[ $]3,1,1) != ".")) { print \[ $]3 } }'\'' | sort -u
> $export_symbols'
    else
      _LT_AC_TAGVAR(export_symbols_cmds, $1)='$NM -BCpg $libobjs
$convenience | awk '\''{ if (((\[ $]2 == "T") || (\[ $]2 == "D") || (\[ $]2
== "B")) && ([substr](\[ $]3,1,1) != ".")) { print \[ $]3 } }'\'' | sort -u
> $export_symbols'
    fi
    aix_use_runtimelinking=no

    # Test if we are trying to use run time linking or normal
    # AIX style linking. If -brtl is somewhere in LDFLAGS, we
    # need to do runtime linking.
    case $host_os in aix4.[[23]]|aix4.[[23]].*|aix5*)
      for ld_flag in $LDFLAGS; do
        if (test $ld_flag = "-brtl" || test $ld_flag = "-Wl,-brtl"); then
          aix_use_runtimelinking=yes
          break
        fi
      done
    ;;
  esac

  exp_sym_flag='-bexport'
  no_entry_flag='-bnoentry'
fi

# When large executables or shared objects are built, AIX ld can
# have problems creating the table of contents.  If linking a
library
# or program results in "error TOC overflow" add -mminimal-toc to

```



```

# CXXFLAGS/CFLAGS for g++/gcc. In the cases where that is not
# enough to fix the problem, add -Wl,-bbigtoc to LDFLAGS.

_LT_AC_TAGVAR(archive_cmds, $1)=''
_LT_AC_TAGVAR(hardcode_direct, $1)=yes
_LT_AC_TAGVAR(hardcode_libdir_separator, $1)=':'
_LT_AC_TAGVAR(link_all_deplibs, $1)=yes

if test "$GCC" = yes; then
case $host_os in aix4.[[012]]|aix4.[[012]].*)
# We only want to do this on AIX 4.2 and lower, the check
# below for broken collect2 doesn't work under 4.3+
collect2name=`${CC} -print-prog-name=collect2`
if test -f "$collect2name" && \
strings "$collect2name" | grep resolve_lib_name >/dev/null
then
# We have reworked collect2
_LT_AC_TAGVAR(hardcode_direct, $1)=yes
else
# We have old collect2
_LT_AC_TAGVAR(hardcode_direct, $1)=unsupported
# It fails to find uninstalled libraries when the uninstalled
# path is not listed in the libpath. Setting hardcode_minus_L
# to unsupported forces relinking
_LT_AC_TAGVAR(hardcode_minus_L, $1)=yes
_LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='-L$libdir'
_LT_AC_TAGVAR(hardcode_libdir_separator, $1)=
fi
;;
esac
shared_flag='-shared'
if test "$aix_use_runtimelinking" = yes; then
shared_flag="$shared_flag "'${wl}-G'
fi
else
# not using gcc
if test "$host_cpu" = ia64; then
# VisualAge C++, Version 5.5 for AIX 5L for IA-64, Beta 3 Release
# chokes on -Wl,-G. The following line is correct:
shared_flag='-G'
else
if test "$aix_use_runtimelinking" = yes; then
shared_flag='${wl}-G'
else
shared_flag='${wl}-bM:SRE'
fi
fi
fi

# It seems that -bexpall does not export symbols beginning with
# underscore (_), so it is better to generate a list of symbols to
export.
_LT_AC_TAGVAR(always_export_symbols, $1)=yes
if test "$aix_use_runtimelinking" = yes; then

```

```

# Warning - without using the other runtime loading flags (-brtl),
# -berok will link without error, but may produce a broken library.
_LT_AC_TAGVAR(allow_undefined_flag, $1)='-berok'
# Determine the default libpath from the value encoded in an empty
executable.
  _LT_AC_SYS_LIBPATH_AIX
  _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='${wl}-
blibpath:$libdir:"$aix_libpath"
  _LT_AC_TAGVAR(archive_expsym_cmds, $1)="\$CC" ' -o
$output_objdir/$soname $libobjs $deplibs '"\${wl}$no_entry_flag"'
$compiler_flags `if test "x${allow_undefined_flag}" != "x"; then echo
"\${wl}${allow_undefined_flag}"; else ;; fi`
'"\${wl}$exp_sym_flag:\$export_symbols $shared_flag"
  else
  if test "$host_cpu" = ia64; then
    _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='${wl}-R
$libdir:/usr/lib:/lib'
    _LT_AC_TAGVAR(allow_undefined_flag, $1)="-z nodefs"
    _LT_AC_TAGVAR(archive_expsym_cmds, $1)="\$CC $shared_flag" ' -o
$output_objdir/$soname $libobjs $deplibs '"\${wl}$no_entry_flag"'
$compiler_flags ${wl}${allow_undefined_flag}
'"\${wl}$exp_sym_flag:\$export_symbols"
  else
    # Determine the default libpath from the value encoded in an empty
executable.
    _LT_AC_SYS_LIBPATH_AIX
    _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='${wl}-
blibpath:$libdir:"$aix_libpath"
    # Warning - without using the other run time loading flags,
    # -berok will link without error, but may produce a broken
library.
    _LT_AC_TAGVAR(no_undefined_flag, $1)=' ${wl}-bernotok'
    _LT_AC_TAGVAR(allow_undefined_flag, $1)=' ${wl}-berok'
    # Exported symbols can be pulled into shared objects from
archives
    _LT_AC_TAGVAR(whole_archive_flag_spec, $1)='$convenience'
    _LT_AC_TAGVAR(archive_cmds_need_lc, $1)=yes
    # This is similar to how AIX traditionally builds its shared
libraries.
    _LT_AC_TAGVAR(archive_expsym_cmds, $1)="\$CC $shared_flag" ' -o
$output_objdir/$soname $libobjs $deplibs ${wl}-bnoentry $compiler_flags
${wl}-bE:$export_symbols${allow_undefined_flag}~$AR $AR_FLAGS
$output_objdir/$libname$release.a $output_objdir/$soname'
    fi
    fi
    ;;

  amigaos*)
    _LT_AC_TAGVAR(archive_cmds, $1)='$rm
$output_objdir/a2ixlibrary.data~$echo "#define NAME $libname" >
$output_objdir/a2ixlibrary.data~$echo "#define LIBRARY_ID 1" >>
$output_objdir/a2ixlibrary.data~$echo "#define VERSION $major" >>
$output_objdir/a2ixlibrary.data~$echo "#define REVISION $revision" >>

```

```

$output_objdir/a2ixlibrary.data~$AR $AR_FLAGS $lib $libobjs~$RANLIB
$lib~(cd $output_objdir && a2ixlibrary -32)'
  _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='-L$libdir'
  _LT_AC_TAGVAR(hardcode_minus_L, $1)=yes
  # see comment about different semantics on the GNU ld section
  _LT_AC_TAGVAR(ld_shlibs, $1)=no
  ;;

bsdi[[45]]*)
  _LT_AC_TAGVAR(export_dynamic_flag_spec, $1)=-rdynamic
  ;;

cygwin* | mingw* | pw32*)
  # When not using gcc, we currently assume that we are using
  # Microsoft Visual C++.
  # hardcode_libdir_flag_spec is actually meaningless, as there is
  # no search path for DLLs.
  _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)=' '
  _LT_AC_TAGVAR(allow_undefined_flag, $1)=unsupported
  # Tell ltmain to make .lib files, not .a files.
  libext=lib
  # Tell ltmain to make .dll files, not .so files.
  shrext_cmds=".dll"
  # FIXME: Setting linknames here is a bad hack.
  _LT_AC_TAGVAR(archive_cmds, $1)='$CC -o $lib $libobjs
$compiler_flags `echo "$deplibs" | $SED -e '\''s/ -lc$//'\`` -link -
dll~linknames='
  # The linker will automatically build a .lib file if we build a
  DLL.
  _LT_AC_TAGVAR(old_archive_From_new_cmds, $1)='true'
  # FIXME: Should let the user specify the lib program.
  _LT_AC_TAGVAR(old_archive_cmds, $1)='lib
/OUT:$oldlib$oldobjs$old_deplibs'
  _LT_AC_TAGVAR(fix_srcfile_path, $1)='`cygpath -w "$srcfile"`'
  _LT_AC_TAGVAR(enable_shared_with_static_runtimes, $1)=yes
  ;;

darwin* | rhapsody*)
  case $host_os in
    rhapsody* | darwin1.[[012]])
      _LT_AC_TAGVAR(allow_undefined_flag, $1)='${wl}-undefined
${wl}suppress'
      ;;
    *) # Darwin 1.3 on
      if test -z ${MACOSX_DEPLOYMENT_TARGET} ; then
        _LT_AC_TAGVAR(allow_undefined_flag, $1)='${wl}-flat_namespace
${wl}-undefined ${wl}suppress'
      else
        case ${MACOSX_DEPLOYMENT_TARGET} in
          10.[[012]])
            _LT_AC_TAGVAR(allow_undefined_flag, $1)='${wl}-
flat_namespace ${wl}-undefined ${wl}suppress'
            ;;
          10.*)

```

```

        _LT_AC_TAGVAR(allow_undefined_flag, $1)='${wl}-undefined
${wl}dynamic_lookup'
        ;;
    esac
fi
;;
esac
_LT_AC_TAGVAR(archive_cmds_need_lc, $1)=no
_LT_AC_TAGVAR(hardcode_direct, $1)=no
_LT_AC_TAGVAR(hardcode_automatic, $1)=yes
_LT_AC_TAGVAR(hardcode_shlibpath_var, $1)=unsupported
_LT_AC_TAGVAR(whole_archive_flag_spec, $1)=''
_LT_AC_TAGVAR(link_all_deplibs, $1)=yes
if test "$GCC" = yes ; then
    output_verbose_link_cmd='echo'
    _LT_AC_TAGVAR(archive_cmds, $1)='$CC -dynamiclib
$allow_undefined_flag -o $lib $libobjs $deplibs $compiler_flags -
install_name $rpath/$soname $verstring'
    _LT_AC_TAGVAR(module_cmds, $1)='$CC $allow_undefined_flag -o $lib -
bundle $libobjs $deplibs$compiler_flags'
    # Don't fix this by using the ld -exported_symbols_list flag, it
    # doesn't exist in older darwin lds
    _LT_AC_TAGVAR(archive_expsym_cmds, $1)='sed -e "s,#.*,, " -e "s,^[
]*,, " -e "s,^\(..*\),_&," < $export_symbols > $output_objdir/${libname}-
symbols.expsym~$CC -dynamiclib $allow_undefined_flag -o $lib $libobjs
$deplibs $compiler_flags -install_name $rpath/$soname $verstring~nmedit -
s $output_objdir/${libname}-symbols.expsym ${lib}'
    _LT_AC_TAGVAR(module_expsym_cmds, $1)='sed -e "s,#.*,, " -e "s,^[
]*,, " -e "s,^\(..*\),_&," < $export_symbols > $output_objdir/${libname}-
symbols.expsym~$CC $allow_undefined_flag -o $lib -bundle $libobjs
$deplibs$compiler_flags~nmedit -s $output_objdir/${libname}-
symbols.expsym ${lib}'
else
    case $cc_basename in
        xlc*)
            output_verbose_link_cmd='echo'
            _LT_AC_TAGVAR(archive_cmds, $1)='$CC -qmkshrobj
$allow_undefined_flag -o $lib $libobjs $deplibs $compiler_flags ${wl}-
install_name ${wl}`echo $rpath/$soname` $verstring'
            _LT_AC_TAGVAR(module_cmds, $1)='$CC $allow_undefined_flag -o
$lib -bundle $libobjs $deplibs$compiler_flags'
            # Don't fix this by using the ld -exported_symbols_list flag,
            # it doesn't exist in older darwin lds
            _LT_AC_TAGVAR(archive_expsym_cmds, $1)='sed -e "s,#.*,, " -e
"s,^[
]*,, " -e "s,^\(..*\),_&," < $export_symbols >
$output_objdir/${libname}-symbols.expsym~$CC -qmkshrobj
$allow_undefined_flag -o $lib $libobjs $deplibs $compiler_flags ${wl}-
install_name ${wl}$rpath/$soname $verstring~nmedit -s
$output_objdir/${libname}-symbols.expsym ${lib}'
            _LT_AC_TAGVAR(module_expsym_cmds, $1)='sed -e "s,#.*,, " -e
"s,^[
]*,, " -e "s,^\(..*\),_&," < $export_symbols >
$output_objdir/${libname}-symbols.expsym~$CC $allow_undefined_flag -o
$lib -bundle $libobjs $deplibs$compiler_flags~nmedit -s
$output_objdir/${libname}-symbols.expsym ${lib}'
        *)
            ;;
    esac

```

```

        ;;
    *)
        _LT_AC_TAGVAR(ld_shlibs, $1)=no
        ;;
    esac
fi
;;

dgux*)
    _LT_AC_TAGVAR(archive_cmds, $1)='$LD -G -h $soname -o $lib $libobjs
$deplibs $linker_flags'
    _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='-L$libdir'
    _LT_AC_TAGVAR(hardcode_shlibpath_var, $1)=no
    ;;

freebsd1*)
    _LT_AC_TAGVAR(ld_shlibs, $1)=no
    ;;

# FreeBSD 2.2.[012] allows us to include c++rt0.o to get C++
constructor
# support.  Future versions do this automatically, but an explicit
c++rt0.o
# does not break anything, and helps significantly (at the cost of a
little
# extra space).
freebsd2.2*)
    _LT_AC_TAGVAR(archive_cmds, $1)='$LD -Bshareable -o $lib $libobjs
$deplibs $linker_flags /usr/lib/c++rt0.o'
    _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='-R$libdir'
    _LT_AC_TAGVAR(hardcode_direct, $1)=yes
    _LT_AC_TAGVAR(hardcode_shlibpath_var, $1)=no
    ;;

# Unfortunately, older versions of FreeBSD 2 do not have this
feature.
freebsd2*)
    _LT_AC_TAGVAR(archive_cmds, $1)='$LD -Bshareable -o $lib $libobjs
$deplibs $linker_flags'
    _LT_AC_TAGVAR(hardcode_direct, $1)=yes
    _LT_AC_TAGVAR(hardcode_minus_L, $1)=yes
    _LT_AC_TAGVAR(hardcode_shlibpath_var, $1)=no
    ;;

# FreeBSD 3 and greater uses gcc -shared to do shared libraries.
freebsd* | kfreebsd*-gnu | dragonfly*)
    _LT_AC_TAGVAR(archive_cmds, $1)='$CC -shared -o $lib $libobjs
$deplibs $compiler_flags'
    _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='-R$libdir'
    _LT_AC_TAGVAR(hardcode_direct, $1)=yes
    _LT_AC_TAGVAR(hardcode_shlibpath_var, $1)=no
    ;;

hpux9*)

```

```

    if test "$GCC" = yes; then
        _LT_AC_TAGVAR(archive_cmds, $1)='$rm $output_objdir/$soname~$CC -
shared -fPIC ${wl}+b ${wl}$install_libdir -o $output_objdir/$soname
$libobjs $deplibs $compiler_flags~test $output_objdir/$soname = $lib ||
mv $output_objdir/$soname $lib'
    else
        _LT_AC_TAGVAR(archive_cmds, $1)='$rm $output_objdir/$soname~$LD -b
+b $install_libdir -o $output_objdir/$soname $libobjs $deplibs
$linker_flags~test $output_objdir/$soname = $lib || mv
$output_objdir/$soname $lib'
    fi
    _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='${wl}+b ${wl}$libdir'
    _LT_AC_TAGVAR(hardcode_libdir_separator, $1)=:
    _LT_AC_TAGVAR(hardcode_direct, $1)=yes

    # hardcode_minus_L: Not really in the search PATH,
    # but as the default location of the library.
    _LT_AC_TAGVAR(hardcode_minus_L, $1)=yes
    _LT_AC_TAGVAR(export_dynamic_flag_spec, $1)='${wl}-E'
;;

```

```

hpux10*)
    if test "$GCC" = yes -a "$with_gnu_ld" = no; then
        _LT_AC_TAGVAR(archive_cmds, $1)='$CC -shared -fPIC ${wl}+h
${wl}$soname ${wl}+b ${wl}$install_libdir -o $lib $libobjs $deplibs
$compiler_flags'
    else
        _LT_AC_TAGVAR(archive_cmds, $1)='$LD -b +h $soname +b
$install_libdir -o $lib $libobjs $deplibs $linker_flags'
    fi
    if test "$with_gnu_ld" = no; then
        _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='${wl}+b ${wl}$libdir'
        _LT_AC_TAGVAR(hardcode_libdir_separator, $1)=:

        _LT_AC_TAGVAR(hardcode_direct, $1)=yes
        _LT_AC_TAGVAR(export_dynamic_flag_spec, $1)='${wl}-E'

        # hardcode_minus_L: Not really in the search PATH,
        # but as the default location of the library.
        _LT_AC_TAGVAR(hardcode_minus_L, $1)=yes
    fi
;;

```

```

hpux11*)
    if test "$GCC" = yes -a "$with_gnu_ld" = no; then
        case $host_cpu in
            hppa*64*)
                _LT_AC_TAGVAR(archive_cmds, $1)='$CC -shared ${wl}+h ${wl}$soname
-o $lib $libobjs $deplibs $compiler_flags'
                ;;
            ia64*)
                _LT_AC_TAGVAR(archive_cmds, $1)='$CC -shared ${wl}+h ${wl}$soname
${wl}+nodefault_rpath -o $lib $libobjs $deplibs $compiler_flags'
                ;;
        esac
    fi
;;

```

```

*)
    _LT_AC_TAGVAR(archive_cmds, $1)='$CC -shared -fPIC ${wl}+h
${wl}$soname ${wl}+b ${wl}$install_libdir -o $lib $libobjs $deplibs
$compiler_flags'
    ;;
esac
else
case $host_cpu in
hppa*64*)
    _LT_AC_TAGVAR(archive_cmds, $1)='$CC -b ${wl}+h ${wl}$soname -o
$lib $libobjs $deplibs $compiler_flags'
    ;;
ia64*)
    _LT_AC_TAGVAR(archive_cmds, $1)='$CC -b ${wl}+h ${wl}$soname
${wl}+nodefaulttrpath -o $lib $libobjs $deplibs $compiler_flags'
    ;;
*)
    _LT_AC_TAGVAR(archive_cmds, $1)='$CC -b ${wl}+h ${wl}$soname
${wl}+b ${wl}$install_libdir -o $lib $libobjs $deplibs $compiler_flags'
    ;;
esac
fi
if test "$with_gnu_ld" = no; then
    _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='${wl}+b ${wl}$libdir'
    _LT_AC_TAGVAR(hardcode_libdir_separator, $1)=:

case $host_cpu in
hppa*64*|ia64*)
    _LT_AC_TAGVAR(hardcode_libdir_flag_spec_ld, $1)='+b $libdir'
    _LT_AC_TAGVAR(hardcode_direct, $1)=no
    _LT_AC_TAGVAR(hardcode_shlibpath_var, $1)=no
    ;;
*)
    _LT_AC_TAGVAR(hardcode_direct, $1)=yes
    _LT_AC_TAGVAR(export_dynamic_flag_spec, $1)='${wl}-E'

    # hardcode_minus_L: Not really in the search PATH,
    # but as the default location of the library.
    _LT_AC_TAGVAR(hardcode_minus_L, $1)=yes
    ;;
esac
fi
;;

irix5* | irix6* | nonstopux*)
if test "$GCC" = yes; then
    _LT_AC_TAGVAR(archive_cmds, $1)='$CC -shared $libobjs $deplibs
$compiler_flags ${wl}-soname ${wl}$soname `test -n "$verstring" && echo
${wl}-set_version ${wl}$verstring` ${wl}-update_registry
${wl}${output_objdir}/so_locations -o $lib'
else
    _LT_AC_TAGVAR(archive_cmds, $1)='$LD -shared $libobjs $deplibs
$linker_flags -soname $soname `test -n "$verstring" && echo -set_version
$verstring` -update_registry ${output_objdir}/so_locations -o $lib'

```

```

    _LT_AC_TAGVAR(hardcode_libdir_flag_spec_ld, $1)='-rpath $libdir'
    fi
    _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='${wl}-rpath
    ${wl}$libdir'
    _LT_AC_TAGVAR(hardcode_libdir_separator, $1)=:
    _LT_AC_TAGVAR(link_all_deplibs, $1)=yes
    ;;

netbsd*)
    if echo __ELF__ | $CC -E - | grep __ELF__ >/dev/null; then
        _LT_AC_TAGVAR(archive_cmds, $1)='$LD -Bshareable -o $lib $libobjs
    $deplibs $linker_flags' # a.out
    else
        _LT_AC_TAGVAR(archive_cmds, $1)='$LD -shared -o $lib $libobjs
    $deplibs $linker_flags' # ELF
    fi
    _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='-R$libdir'
    _LT_AC_TAGVAR(hardcode_direct, $1)=yes
    _LT_AC_TAGVAR(hardcode_shlibpath_var, $1)=no
    ;;

newsos6)
    _LT_AC_TAGVAR(archive_cmds, $1)='$LD -G -h $soname -o $lib $libobjs
    $deplibs $linker_flags'
    _LT_AC_TAGVAR(hardcode_direct, $1)=yes
    _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='${wl}-rpath
    ${wl}$libdir'
    _LT_AC_TAGVAR(hardcode_libdir_separator, $1)=:
    _LT_AC_TAGVAR(hardcode_shlibpath_var, $1)=no
    ;;

openbsd*)
    _LT_AC_TAGVAR(hardcode_direct, $1)=yes
    _LT_AC_TAGVAR(hardcode_shlibpath_var, $1)=no
    if test -z "`echo __ELF__ | $CC -E - | grep __ELF__`" || test
    "$host_os-$host_cpu" = "openbsd2.8-powerpc"; then
        _LT_AC_TAGVAR(archive_cmds, $1)='$CC -shared $pic_flag -o $lib
    $libobjs $deplibs $compiler_flags'
        _LT_AC_TAGVAR(archive_expsym_cmds, $1)='$CC -shared $pic_flag -o
    $lib $libobjs $deplibs $compiler_flags ${wl}-retain-symbols-
    file,$export_symbols'
        _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='${wl}-rpath,$libdir'
        _LT_AC_TAGVAR(export_dynamic_flag_spec, $1)='${wl}-E'
    else
        case $host_os in
            openbsd[[01]].* | openbsd2.([[0-7]]) | openbsd2.([[0-7]].*)
                _LT_AC_TAGVAR(archive_cmds, $1)='$LD -Bshareable -o $lib
    $libobjs $deplibs $linker_flags'
                _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='-R$libdir'
                ;;
            *)
                _LT_AC_TAGVAR(archive_cmds, $1)='$CC -shared $pic_flag -o $lib
    $libobjs $deplibs $compiler_flags'
                ;;
        esac
    fi

```



```

        _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='${wl}-
rpath,$libdir'
        ;;
        esac
    fi
    ;;

os2*)
    _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='-L$libdir'
    _LT_AC_TAGVAR(hardcode_minus_L, $1)=yes
    _LT_AC_TAGVAR(allow_undefined_flag, $1)=unsupported
    _LT_AC_TAGVAR(archive_cmds, $1)='$echo "LIBRARY $libname
INITINSTANCE" > $output_objdir/$libname.def~$echo "DESCRIPTION
\"$libname\"" >> $output_objdir/$libname.def~$echo DATA >>
$output_objdir/$libname.def~$echo " SINGLE NONSHARED" >>
$output_objdir/$libname.def~$echo EXPORTS >>
$output_objdir/$libname.def~emxexp $libobjs >>
$output_objdir/$libname.def~$CC -Zdll -Zcrtdll -o $lib $libobjs $deplibs
$compiler_flags $output_objdir/$libname.def'
    _LT_AC_TAGVAR(old_archive_From_new_cmds, $1)='emximp -o
$output_objdir/$libname.a $output_objdir/$libname.def'
    ;;

osf3*)
    if test "$GCC" = yes; then
        _LT_AC_TAGVAR(allow_undefined_flag, $1)=' ${wl}-expect_unresolved
${wl}\*'
        _LT_AC_TAGVAR(archive_cmds, $1)='$CC -shared${allow_undefined_flag}
$libobjs $deplibs $compiler_flags ${wl}-soname ${wl}$soname `test -n
"$sverstring" && echo ${wl}-set_version ${wl}$sverstring` ${wl}-
update_registry ${wl}${output_objdir}/so_locations -o $lib'
    else
        _LT_AC_TAGVAR(allow_undefined_flag, $1)=' -expect_unresolved \*'
        _LT_AC_TAGVAR(archive_cmds, $1)='$LD -shared${allow_undefined_flag}
$libobjs $deplibs $linker_flags -soname $soname `test -n "$sverstring" &&
echo -set_version $sverstring` -update_registry
${output_objdir}/so_locations -o $lib'
    fi
    _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='${wl}-rpath
${wl}$libdir'
    _LT_AC_TAGVAR(hardcode_libdir_separator, $1)=:
    ;;

osf4* | osf5*)      # as osf3* with the addition of -msym flag
    if test "$GCC" = yes; then
        _LT_AC_TAGVAR(allow_undefined_flag, $1)=' ${wl}-expect_unresolved
${wl}\*'
        _LT_AC_TAGVAR(archive_cmds, $1)='$CC -shared${allow_undefined_flag}
$libobjs $deplibs $compiler_flags ${wl}-msym ${wl}-soname ${wl}$soname
`test -n "$sverstring" && echo ${wl}-set_version ${wl}$sverstring` ${wl}-
update_registry ${wl}${output_objdir}/so_locations -o $lib'
        _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='${wl}-rpath
${wl}$libdir'
    else

```

```

    _LT_AC_TAGVAR(allow_undefined_flag, $1)=' -expect_unresolved \*'
    _LT_AC_TAGVAR(archive_cmds, $1)='$LD -shared${allow_undefined_flag}
$libobjs $deplibs $linker_flags -msym -soname $soname `test -n
"$sverstring" && echo -set_version $sverstring` -update_registry
${output_objdir}/so_locations -o $lib'
    _LT_AC_TAGVAR(archive_expsym_cmds, $1)='for i in `cat
$export_symbols`; do printf "%s %s\\n" -exported_symbol "\$i" >>
$lib.exp; done; echo "-hidden">> $lib.exp~
    $LD -shared${allow_undefined_flag} -input $lib.exp $linker_flags
$libobjs $deplibs -soname $soname `test -n "$sverstring" && echo -
set_version $sverstring` -update_registry ${output_objdir}/so_locations -o
$lib~$rm $lib.exp'

# Both c and cxx compiler support -rpath directly
_LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='-rpath $libdir'
fi
_LT_AC_TAGVAR(hardcode_libdir_separator, $1)=:
;;

solaris*)
    _LT_AC_TAGVAR(no_undefined_flag, $1)=' -z text'
    if test "$GCC" = yes; then
        wlarc='${wl}'
        _LT_AC_TAGVAR(archive_cmds, $1)='$CC -shared ${wl}-h ${wl}$soname -
o $lib $libobjs $deplibs $compiler_flags'
        _LT_AC_TAGVAR(archive_expsym_cmds, $1)='$echo "{ global:" >
$lib.exp~cat $export_symbols | $SED -e "s/\(.*\)\/\1;/" >> $lib.exp~$echo
"local: *; };" >> $lib.exp~
        $CC -shared ${wl}-M ${wl}$lib.exp ${wl}-h ${wl}$soname -o $lib
$libobjs $deplibs $compiler_flags~$rm $lib.exp'
        else
            wlarc=''
            _LT_AC_TAGVAR(archive_cmds, $1)='$LD -G${allow_undefined_flag} -h
$soname -o $lib $libobjs $deplibs $linker_flags'
            _LT_AC_TAGVAR(archive_expsym_cmds, $1)='$echo "{ global:" >
$lib.exp~cat $export_symbols | $SED -e "s/\(.*\)\/\1;/" >> $lib.exp~$echo
"local: *; };" >> $lib.exp~
            $LD -G${allow_undefined_flag} -M $lib.exp -h $soname -o $lib
$libobjs $deplibs $linker_flags~$rm $lib.exp'
        fi
        _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='-R$libdir'
        _LT_AC_TAGVAR(hardcode_shlibpath_var, $1)=no
        case $host_os in
            solaris2.[0-5] | solaris2.[0-5].*) ;;
            *)
                # The compiler driver will combine linker options so we
                # cannot just pass the convenience library names through
                # without $wl, iff we do not link with $LD.
                # Luckily, gcc supports the same syntax we need for Sun Studio.
                # Supported since Solaris 2.6 (maybe 2.5.1?)
                case $wlarc in
                    '')
                        _LT_AC_TAGVAR(whole_archive_flag_spec, $1)='-z
allextract$convenience -z defaultextract' ;;
                esac
            esac
    fi

```

```

*)
    _LT_AC_TAGVAR(whole_archive_flag_spec, $1)='${wl}-z
    ${wl}allextract`for conv in $convenience\`\"; do test -n \"${conv}\" &&
    new_convenience=\"${new_convenience},${conv}\"; done; $echo
    \"${new_convenience}\" ` ${wl}-z ${wl}defaultextract' ;;
    esac ;;
    esac
    _LT_AC_TAGVAR(link_all_deplibs, $1)=yes
    ;;

sunos4*)
    if test "x$host_vendor" = xsequent; then
        # Use $CC to link under sequent, because it throws in some extra .o
        # files that make .init and .fini sections work.
        _LT_AC_TAGVAR(archive_cmds, $1)='$CC -G ${wl}-h $soname -o $lib
        $libobjs $deplibs $compiler_flags'
    else
        _LT_AC_TAGVAR(archive_cmds, $1)='$LD -assert pure-text -Bstatic -o
        $lib $libobjs $deplibs $linker_flags'
    fi
    _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='-L$libdir'
    _LT_AC_TAGVAR(hardcode_direct, $1)=yes
    _LT_AC_TAGVAR(hardcode_minus_L, $1)=yes
    _LT_AC_TAGVAR(hardcode_shlibpath_var, $1)=no
    ;;

sysv4)
    case $host_vendor in
        sni)
            _LT_AC_TAGVAR(archive_cmds, $1)='$LD -G -h $soname -o $lib
            $libobjs $deplibs $linker_flags'
            _LT_AC_TAGVAR(hardcode_direct, $1)=yes # is this really true???
            ;;
        siemens)
            ## LD is ld it makes a PLAMLIB
            ## CC just makes a GrossModule.
            _LT_AC_TAGVAR(archive_cmds, $1)='$LD -G -o $lib $libobjs $deplibs
            $linker_flags'
            _LT_AC_TAGVAR(reload_cmds, $1)='$CC -r -o $output$reload_objs'
            _LT_AC_TAGVAR(hardcode_direct, $1)=no
            ;;
        motorola)
            _LT_AC_TAGVAR(archive_cmds, $1)='$LD -G -h $soname -o $lib
            $libobjs $deplibs $linker_flags'
            _LT_AC_TAGVAR(hardcode_direct, $1)=no #Motorola manual says yes,
            but my tests say they lie
            ;;
    esac
    runpath_var='LD_RUN_PATH'
    _LT_AC_TAGVAR(hardcode_shlibpath_var, $1)=no
    ;;

sysv4.3*)

```

```

    _LT_AC_TAGVAR(archive_cmds, $1)='$LD -G -h $soname -o $lib $libobjs
$deplibs $linker_flags'
    _LT_AC_TAGVAR(hardcode_shlibpath_var, $1)=no
    _LT_AC_TAGVAR(export_dynamic_flag_spec, $1)='-Bexport'
    ;;

sysv4*MP*)
    if test -d /usr/nec; then
        _LT_AC_TAGVAR(archive_cmds, $1)='$LD -G -h $soname -o $lib $libobjs
$deplibs $linker_flags'
        _LT_AC_TAGVAR(hardcode_shlibpath_var, $1)=no
        runpath_var=LD_RUN_PATH
        hardcode_runpath_var=yes
        _LT_AC_TAGVAR(ld_shlibs, $1)=yes
    fi
    ;;

sysv4*uw2* | sysv5OpenUNIX* | sysv5UnixWare7.[[01]].[[10]]* |
unixware7*)
    _LT_AC_TAGVAR(no_undefined_flag, $1)='${wl}-z,text'
    _LT_AC_TAGVAR(archive_cmds_need_lc, $1)=no
    _LT_AC_TAGVAR(hardcode_shlibpath_var, $1)=no
    runpath_var='LD_RUN_PATH'

    if test "$GCC" = yes; then
        _LT_AC_TAGVAR(archive_cmds, $1)='$CC -shared ${wl}-h,$soname -o
$lib $libobjs $deplibs $compiler_flags'
        _LT_AC_TAGVAR(archive_expsym_cmds, $1)='$CC -shared ${wl}-
Bexport:$export_symbols ${wl}-h,$soname -o $lib $libobjs $deplibs
$compiler_flags'
    else
        _LT_AC_TAGVAR(archive_cmds, $1)='$CC -G ${wl}-h,$soname -o $lib
$libobjs $deplibs $compiler_flags'
        _LT_AC_TAGVAR(archive_expsym_cmds, $1)='$CC -G ${wl}-
Bexport:$export_symbols ${wl}-h,$soname -o $lib $libobjs $deplibs
$compiler_flags'
    fi
    ;;

sysv5* | sco3.2v5* | sco5v6*)
    # Note: We can NOT use -z defs as we might desire, because we do
not
    # link with -lc, and that would cause any symbols used from libc to
    # always be unresolved, which means just about no library would
    # ever link correctly.  If we're not using GNU ld we use -z text
    # though, which does catch some bad symbols but isn't as heavy-
handed
    # as -z defs.
    _LT_AC_TAGVAR(no_undefined_flag, $1)='${wl}-z,text'
    _LT_AC_TAGVAR(allow_undefined_flag, $1)='${wl}-z,nodefs'
    _LT_AC_TAGVAR(archive_cmds_need_lc, $1)=no
    _LT_AC_TAGVAR(hardcode_shlibpath_var, $1)=no
    _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='`test -z
"$SCOABSPATH" && echo ${wl}-R,$libdir`'

```

```

    _LT_AC_TAGVAR(hardcode_libdir_separator, $1)=':'
    _LT_AC_TAGVAR(link_all_deplibs, $1)=yes
    _LT_AC_TAGVAR(export_dynamic_flag_spec, $1)='${wl}-Bexport'
    runpath_var='LD_RUN_PATH'

    if test "$GCC" = yes; then
      _LT_AC_TAGVAR(archive_cmds, $1)='$CC -shared ${wl}-
h,\${SCOABSPATH:+${install_libdir}/}$soname -o $lib $libobjs $deplibs
$compiler_flags'
      _LT_AC_TAGVAR(archive_expsym_cmds, $1)='$CC -shared ${wl}-
Bexport:$export_symbols ${wl}-h,\${SCOABSPATH:+${install_libdir}/}$soname
-o $lib $libobjs $deplibs $compiler_flags'
    else
      _LT_AC_TAGVAR(archive_cmds, $1)='$CC -G ${wl}-
h,\${SCOABSPATH:+${install_libdir}/}$soname -o $lib $libobjs $deplibs
$compiler_flags'
      _LT_AC_TAGVAR(archive_expsym_cmds, $1)='$CC -G ${wl}-
Bexport:$export_symbols ${wl}-h,\${SCOABSPATH:+${install_libdir}/}$soname
-o $lib $libobjs $deplibs $compiler_flags'
    fi
  ;;

  uts4*)
    _LT_AC_TAGVAR(archive_cmds, $1)='$LD -G -h $soname -o $lib $libobjs
$deplibs $linker_flags'
    _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='-L$libdir'
    _LT_AC_TAGVAR(hardcode_shlibpath_var, $1)=no
  ;;

  *)
    _LT_AC_TAGVAR(ld_shlibs, $1)=no
  ;;
esac
fi
])
AC_MSG_RESULT([$ _LT_AC_TAGVAR(ld_shlibs, $1)])
test "$ _LT_AC_TAGVAR(ld_shlibs, $1)" = no && can_build_shared=no

#
# Do we need to explicitly link libc?
#
case "x$ _LT_AC_TAGVAR(archive_cmds_need_lc, $1)" in
x|xyes)
  # Assume -lc should be added
  _LT_AC_TAGVAR(archive_cmds_need_lc, $1)=yes

  if test "$enable_shared" = yes && test "$GCC" = yes; then
    case $ _LT_AC_TAGVAR(archive_cmds, $1) in
    *'~'**)
      # FIXME: we may have to deal with multi-command sequences.
      ;;
    '$CC '**)
      # Test whether the compiler implicitly links with -lc since on some
      # systems, -lgcc has to come before -lc. If gcc already passes -lc

```

```

# to ld, don't add -lc before -lgcc.
AC_MSG_CHECKING([whether -lc should be explicitly linked in])
$rm conftest*
printf "$lt_simple_compile_test_code" > conftest.$ac_ext

if AC_TRY_EVAL(ac_compile) 2>conftest.err; then
  soname=conftest
  lib=conftest
  libobjs=conftest.$ac_objext
  deplibs=
  wl=$_LT_AC_TAGVAR(lt_prog_compiler_wl, $1)
pic_flag=$_LT_AC_TAGVAR(lt_prog_compiler_pic, $1)
  compiler_flags=-v
  linker_flags=-v
  verstring=
  output_objdir=.
  libname=conftest
  lt_save_allow_undefined_flag=$_LT_AC_TAGVAR(allow_undefined_flag,
$1)
  _LT_AC_TAGVAR(allow_undefined_flag, $1)=
  if AC_TRY_EVAL(_LT_AC_TAGVAR(archive_cmds, $1) 2\>\&1 \|| grep \
-lc \ " \>/dev/null 2\>\&1)
  then
    _LT_AC_TAGVAR(archive_cmds_need_lc, $1)=no
  else
    _LT_AC_TAGVAR(archive_cmds_need_lc, $1)=yes
  fi
  _LT_AC_TAGVAR(allow_undefined_flag,
$1)=$lt_save_allow_undefined_flag
  else
    cat conftest.err 1>&5
  fi
  $rm conftest*
  AC_MSG_RESULT([$_LT_AC_TAGVAR(archive_cmds_need_lc, $1)])
  ;;
esac
fi
;;
esac
]# AC_LIBTOOL_PROG_LD_SHLIBS

# _LT_AC_FILE_LTDLL_C
# -----
# Be careful that the start marker always follows a newline.
AC_DEFUN([_LT_AC_FILE_LTDLL_C], [
# /* ltdll.c starts here */
# #define WIN32_LEAN_AND_MEAN
# #include <windows.h>
# #undef WIN32_LEAN_AND_MEAN
# #include <stdio.h>
#
# #ifndef __CYGWIN__
# #   ifdef __CYGWIN32__

```

```

# #   define __CYGWIN__ __CYGWIN32__
# #   endif
# #endif
#
# #ifdef __cplusplus
# extern "C" {
# #endif
# BOOL APIENTRY DllMain (HINSTANCE hInst, DWORD reason, LPVOID reserved);
# #ifdef __cplusplus
# }
# #endif
#
# #ifdef __CYGWIN__
# #include <cygwin/cygwin_dll.h>
# DECLARE_CYGWIN_DLL( DllMain );
# #endif
# HINSTANCE __hDllInstance_base;
#
# BOOL APIENTRY
# DllMain (HINSTANCE hInst, DWORD reason, LPVOID reserved)
# {
#   __hDllInstance_base = hInst;
#   return TRUE;
# }
# /* ltdll.c ends here */
])# _LT_AC_FILE_LTDLL_C

```

```

# _LT_AC_TAGVAR(VARNAME, [TAGNAME])
# -----
AC_DEFUN([_LT_AC_TAGVAR], [ifelse([$2], [], [$1], [$1_$2])])

```

```

# old names
AC_DEFUN([AM_PROG_LIBTOOL], [AC_PROG_LIBTOOL])
AC_DEFUN([AM_ENABLE_SHARED], [AC_ENABLE_SHARED($@)])
AC_DEFUN([AM_ENABLE_STATIC], [AC_ENABLE_STATIC($@)])
AC_DEFUN([AM_DISABLE_SHARED], [AC_DISABLE_SHARED($@)])
AC_DEFUN([AM_DISABLE_STATIC], [AC_DISABLE_STATIC($@)])
AC_DEFUN([AM_PROG_LD], [AC_PROG_LD])
AC_DEFUN([AM_PROG_NM], [AC_PROG_NM])

```

```

# This is just to silence aclocal about the macro not being used
ifelse([AC_DISABLE_FAST_INSTALL])

```

```

AC_DEFUN([LT_AC_PROG_GCJ],
[AC_CHECK_TOOL(GCJ, gcj, no)
  test "x${GCJFLAGS+set}" = xset || GCJFLAGS="-g -O2"
  AC_SUBST(GCJFLAGS)
])

```

```

AC_DEFUN([LT_AC_PROG_RC],
[AC_CHECK_TOOL(RC, windres, no)
])

```

```

# NOTE: This macro has been submitted for inclusion into #
# GNU Autoconf as AC_PROG_SED.  When it is available in #
# a released version of Autoconf we should remove this #
# macro and use it instead. #
# LT_AC_PROG_SED #
# ----- #
# Check for a fully-functional sed program, that truncates #
# as few characters as possible.  Prefer GNU sed if found. #
AC_DEFUN([LT_AC_PROG_SED],
[AC_MSG_CHECKING([for a sed that does not truncate output])
AC_CACHE_VAL([lt_cv_path_SED],
[# Loop through the user's path and test for sed and gsed.
# Then use that list of sed's as ones to test for truncation.
as_save_IFS=$IFS; IFS=$PATH_SEPARATOR
for as_dir in $PATH
do
  IFS=$as_save_IFS
  test -z "$as_dir" && as_dir=.
  for lt_ac_prog in sed gsed; do
    for ac_exec_ext in ' ' $ac_executable_extensions; do
      if $as_executable_p "$as_dir/$lt_ac_prog$ac_exec_ext"; then
        lt_ac_sed_list="$lt_ac_sed_list $as_dir/$lt_ac_prog$ac_exec_ext"
      fi
    done
  done
done
lt_ac_max=0
lt_ac_count=0
# Add /usr/xpg4/bin/sed as it is typically found on Solaris
# along with /bin/sed that truncates output.
for lt_ac_sed in $lt_ac_sed_list /usr/xpg4/bin/sed; do
  test ! -f $lt_ac_sed && continue
  cat /dev/null > confptest.in
  lt_ac_count=0
  echo $ECHO_N "0123456789$ECHO_C" >confptest.in
  # Check for GNU sed and select it if it is found.
  if "$lt_ac_sed" --version 2>&1 < /dev/null | grep 'GNU' > /dev/null;
then
  lt_cv_path_SED=$lt_ac_sed
  break
fi
while true; do
  cat confptest.in confptest.in >confptest.tmp
  mv confptest.tmp confptest.in
  cp confptest.in confptest.nl
  echo >>confptest.nl
  $lt_ac_sed -e 's/a$//' < confptest.nl >confptest.out || break
  cmp -s confptest.out confptest.nl || break
  # 10000 chars as input seems more than enough
  test $lt_ac_count -gt 10 && break
  lt_ac_count=`expr $lt_ac_count + 1`
  if test $lt_ac_count -gt $lt_ac_max; then
    lt_ac_max=$lt_ac_count
  fi
done
])

```



```

        lt_cv_path_SED=$lt_ac_sed
    fi
done
done
])
SED=$lt_cv_path_SED
AC_MSG_RESULT([$SED])
])

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# AM_AUTOMAKE_VERSION(VERSION)
# -----
# Automake X.Y traces this macro to ensure aclocal.m4 has been
# generated from the m4 files accompanying Automake X.Y.
AC_DEFUN([AM_AUTOMAKE_VERSION], [am__api_version="1.9"])

# AM_SET_CURRENT_AUTOMAKE_VERSION
# -----
# Call AM_AUTOMAKE_VERSION so it can be traced.
# This function is AC_REQUIRED by AC_INIT_AUTOMAKE.
AC_DEFUN([AM_SET_CURRENT_AUTOMAKE_VERSION],
    [AM_AUTOMAKE_VERSION([1.9.6])])

# AM_AUX_DIR_EXPAND                                     -*- Autoconf
-*-

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# For projects using AC_CONFIG_AUX_DIR([foo]), Autoconf sets
# $ac_aux_dir to `srcdir/foo'.  In other projects, it is set to
# `srcdir', `srcdir/..', or `srcdir/../..'.
#
# Of course, Automake must honor this variable whenever it calls a
# tool from the auxiliary directory.  The problem is that $srcdir (and
# therefore $ac_aux_dir as well) can be either absolute or relative,
# depending on how configure is run.  This is pretty annoying, since
# it makes $ac_aux_dir quite unusable in subdirectories: in the top
# source directory, any form will work fine, but in subdirectories a
# relative path needs to be adjusted first.
#
# $ac_aux_dir/missing
#   fails when called from a subdirectory if $ac_aux_dir is relative
# $top_srcdir/$ac_aux_dir/missing
#   fails if $ac_aux_dir is absolute,
#   fails when called from a subdirectory in a VPATH build with

```

```

#         a relative $ac_aux_dir
#
# The reason of the latter failure is that $top_srcdir and $ac_aux_dir
# are both prefixed by $srcdir.  In an in-source build this is usually
# harmless because $srcdir is `.', but things will broke when you
# start a VPATH build or use an absolute $srcdir.
#
# So we could use something similar to $top_srcdir/$ac_aux_dir/missing,
# iff we strip the leading $srcdir from $ac_aux_dir.  That would be:
#   am_aux_dir='\$(top_srcdir)/'\`expr "$ac_aux_dir" : "$srcdir/*\(.*\)"`
# and then we would define $MISSING as
#   MISSING="\${SHELL} $am_aux_dir/missing"
# This will work as long as MISSING is not called from configure, because
# unfortunately $(top_srcdir) has no meaning in configure.
# However there are other variables, like CC, which are often used in
# configure, and could therefore not use this "fixed" $ac_aux_dir.
#
# Another solution, used here, is to always expand $ac_aux_dir to an
# absolute PATH.  The drawback is that using absolute paths prevent a
# configured tree to be moved without reconfiguration.

AC_DEFUN([AM_AUX_DIR_EXPAND],
[dn1 Rely on autoconf to set up CDPATH properly.
AC_PREREQ([2.50])dn1
# expand $ac_aux_dir to an absolute path
am_aux_dir=`cd $ac_aux_dir && pwd`
])

# AM_CONDITIONAL                                     -*- Autoconf
-*-

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# serial 7

# AM_CONDITIONAL(NAME, SHELL-CONDITION)
# -----
# Define a conditional.
AC_DEFUN([AM_CONDITIONAL],
[AC_PREREQ(2.52)dn1
  ifelse([$1], [TRUE],  [AC_FATAL([$0: invalid condition: $1]),
    [$1], [FALSE], [AC_FATAL([$0: invalid condition: $1])])dn1
AC_SUBST([$1_TRUE])
AC_SUBST([$1_FALSE])
if $2; then
  $1_TRUE=
  $1_FALSE='#'
else
  $1_TRUE='#'
  $1_FALSE=
]]

```

```

    $1_FALSE=
fi
AC_CONFIG_COMMANDS_PRE(
[if test -z "${$1_TRUE}" && test -z "${$1_FALSE}"; then
    AC_MSG_ERROR([[conditional "$1" was never defined.
Usually this means the macro was only invoked conditionally.]]
fi]])

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# serial 8

# There are a few dirty hacks below to avoid letting `AC_PROG_CC' be
# written in clear, in which case automake, when reading aclocal.m4,
# will think it sees a *use*, and therefore will trigger all it's
# C support machinery. Also note that it means that autoscan, seeing
# CC etc. in the Makefile, will ask for an AC_PROG_CC use...

# _AM_DEPENDENCIES(NAME)
# -----
# See how the compiler implements dependency checking.
# NAME is "CC", "CXX", "GCJ", or "OBJC".
# We try a few techniques and use that to set a single cache variable.
#
# We don't AC_REQUIRE the corresponding AC_PROG_CC since the latter was
# modified to invoke _AM_DEPENDENCIES(CC); we would have a circular
# dependency, and given that the user is not expected to run this macro,
# just rely on AC_PROG_CC.
AC_DEFUN([_AM_DEPENDENCIES],
[AC_REQUIRE([AM_SET_DEPDIR])dnl
AC_REQUIRE([AM_OUTPUT_DEPENDENCY_COMMANDS])dnl
AC_REQUIRE([AM_MAKE_INCLUDE])dnl
AC_REQUIRE([AM_DEP_TRACK])dnl

ifelse([$1], CC,   [depcc="$CC"   am_compiler_list=],
      [$1], CXX,  [depcc="$CXX"  am_compiler_list=],
      [$1], OBJC, [depcc="$OBJC" am_compiler_list='gcc3 gcc'],
      [$1], GCJ,  [depcc="$GCJ"  am_compiler_list='gcc3 gcc'],
              [depcc="$1"    am_compiler_list=])

AC_CACHE_CHECK([dependency style of $depcc],
               [am_cv_$1_dependencies_compiler_type],
[if test -z "$AMDEP_TRUE" && test -f "$am_depcomp"; then
    # We make a subdir and do the tests there. Otherwise we can end up
    # making bogus files that we don't know about and never remove. For
    # instance it was reported that on HP-UX the gcc test will end up
    # making a dummy file named `D' -- because `-MD' means `put the output

```

```

# in D'.
mkdir confptest.dir
# Copy depcomp to subdir because otherwise we won't find it if we're
# using a relative directory.
cp "$am_depcomp" confptest.dir
cd confptest.dir
# We will build objects and dependencies in a subdirectory because
# it helps to detect inapplicable dependency modes.  For instance
# both Tru64's cc and ICC support -MD to output dependencies as a
# side effect of compilation, but ICC will put the dependencies in
# the current directory while Tru64 will put them in the object
# directory.
mkdir sub

am_cv_1_dependencies_compiler_type=none
if test "$am_compiler_list" = ""; then
  am_compiler_list=`sed -n ['s/^#*\([a-zA-Z0-9]*\)$/\1/p'] <
./depcomp`
fi
for depmode in $am_compiler_list; do
  # Setup a source with many dependencies, because some compilers
  # like to wrap large dependency lists on column 80 (with \), and
  # we should not choose a depcomp mode which is confused by this.
  #
  # We need to recreate these files for each test, as the compiler may
  # overwrite some of them when testing with obscure command lines.
  # This happens at least with the AIX C compiler.
  : > sub/confptest.c
  for i in 1 2 3 4 5 6; do
    echo '#include "conftst'$i'.h"' >> sub/confptest.c
    # Using `: > sub/conftst$i.h' creates only sub/conftst1.h with
    # Solaris 8's {/usr,}/bin/sh.
    touch sub/conftst$i.h
  done
  echo "${am__include} ${am__quote}sub/confptest.Po${am__quote}" >
confmf

case $demode in
nosideeffect)
  # after this tag, mechanisms are not by side-effect, so they'll
  # only be used when explicitly requested
  if test "x$enable_dependency_tracking" = xyes; then
    continue
  else
    break
  fi
  ;;
none) break ;;
esac
# We check with `-c' and `-o' for the sake of the "dashmstdout"
# mode.  It turns out that the SunPro C++ compiler does not properly
# handle `-M -o', and we need to detect this.
if depmode=$demode \
  source=sub/confptest.c object=sub/confptest.${OBJEXT-o} \

```

```

    depfile=sub/confctest.Po tmpdepfile=sub/confctest.TPo \
    $SHELL ./depcomp $depcc -c -o sub/confctest.${OBJEXT-o}
sub/confctest.c \
    >/dev/null 2>confctest.err &&
    grep sub/confctst6.h sub/confctest.Po > /dev/null 2>&1 &&
    grep sub/confctest.${OBJEXT-o} sub/confctest.Po > /dev/null 2>&1 &&
    ${MAKE-make} -s -f confmf > /dev/null 2>&1; then
# icc doesn't choke on unknown options, it will just issue warnings
# or remarks (even with -Werror). So we grep stderr for any
message
# that says an option was ignored or not supported.
# When given -MP, icc 7.0 and 7.1 complain thusly:
#   icc: Command line warning: ignoring option '-M'; no argument
required
# The diagnosis changed in icc 8.0:
#   icc: Command line remark: option '-MP' not supported
if (grep 'ignoring option' confctest.err ||
    grep 'not supported' confctest.err) >/dev/null 2>&1; then ;;
else
    am_cv_$1_dependencies_compiler_type=$depmode
    break
fi
fi
done

    cd ..
    rm -rf confctest.dir
else
    am_cv_$1_dependencies_compiler_type=none
fi
])
AC_SUBST([$1DEPMODE], [depmode=$am_cv_$1_dependencies_compiler_type])
AM_CONDITIONAL([am__fastdep$1], [
    test "x$enable_dependency_tracking" != xno \
    && test "$am_cv_$1_dependencies_compiler_type" = gcc3])
])

# AM_SET_DEPDIR
# -----
# Choose a directory name for dependency files.
# This macro is AC_REQUIRED in _AM_DEPENDENCIES
AC_DEFUN([AM_SET_DEPDIR],
[AC_REQUIRE([AM_SET_LEADING_DOT])dnl
AC_SUBST([DEPDIR], ["${am__leading_dot}deps"])dnl
])

# AM_DEP_TRACK
# -----
AC_DEFUN([AM_DEP_TRACK],
[AC_ARG_ENABLE(dependency-tracking,
[ --disable-dependency-tracking speeds up one-time build

```

```

    --enable-dependency-tracking    do not reject slow dependency
extractors])
if test "x$enable_dependency_tracking" != xno; then
    am_depcomp="$ac_aux_dir/depcomp"
    AMDEPBACKSLASH='\ '
fi
AM_CONDITIONAL([AMDEP], [test "x$enable_dependency_tracking" != xno])
AC_SUBST([AMDEPBACKSLASH])
])

# Generate code to set up dependency tracking.                                -*- Autoconf
-*-

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#serial 3

# _AM_OUTPUT_DEPENDENCY_COMMANDS
# -----
AC_DEFUN([_AM_OUTPUT_DEPENDENCY_COMMANDS],
[for mf in $CONFIG_FILES; do
    # Strip MF so we end up with the name of the file.
    mf=`echo "$mf" | sed -e 's/:.*$// '`
    # Check whether this is an Automake generated Makefile or not.
    # We used to match only the files named `Makefile.in', but
    # some people rename them; so instead we look at the file content.
    # Grep'ing the first line is not enough: some people post-process
    # each Makefile.in and add a new line on top of each file to say so.
    # So let's grep whole file.
    if grep '^#.*generated by automake' $mf > /dev/null 2>&1; then
        dirpart=`AS_DIRNAME("$mf")`
    else
        continue
    fi
    # Extract the definition of DEPDIR, am__include, and am__quote
    # from the Makefile without running `make'.
    DEPDIR=`sed -n 's/^DEPDIR = //p' < "$mf"`
    test -z "$DEPDIR" && continue
    am__include=`sed -n 's/^am__include = //p' < "$mf"`
    test -z "am__include" && continue
    am__quote=`sed -n 's/^am__quote = //p' < "$mf"`
    # When using ansi2knr, U may be empty or an underscore; expand it
    U=`sed -n 's/^U = //p' < "$mf"`
    # Find all dependency output files, they are included files with
    # $(DEPDIR) in their names. We invoke sed twice because it is the
    # simplest approach to changing $(DEPDIR) to its actual value in the
    # expansion.
    for file in `sed -n "

```

```

    s/^\$am__include \$am__quote\(.*(DEPDIR).*\)$am__quote"'$/\1/p' <"$mf"
| \
    sed -e 's/\$(DEPDIR)/'"$DEPDIR"'/g' -e 's/\$U/'"$U"/g'`; do
# Make sure the directory exists.
test -f "$dirpart/$file" && continue
fdir=`AS_DIRNAME(["$file"])`
AS_MKDIR_P([$dirpart/$fdir])
# echo "creating $dirpart/$file"
echo '# dummy' > "$dirpart/$file"
done
done
])# _AM_OUTPUT_DEPENDENCY_COMMANDS

# AM_OUTPUT_DEPENDENCY_COMMANDS
# -----
# This macro should only be invoked once -- use via AC_REQUIRE.
#
# This code is only required when automatic dependency tracking
# is enabled.  FIXME.  This creates each `.P' file that we will
# need in order to bootstrap the dependency handling code.
AC_DEFUN([AM_OUTPUT_DEPENDENCY_COMMANDS],
[AC_CONFIG_COMMANDS([depfiles],
    [test x"$AMDEP_TRUE" != x"" || _AM_OUTPUT_DEPENDENCY_COMMANDS],
    [AMDEP_TRUE="$AMDEP_TRUE" ac_aux_dir="$ac_aux_dir"])
])

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# serial 8

# AM_CONFIG_HEADER is obsolete.  It has been replaced by
AC_CONFIG_HEADERS.
AU_DEFUN([AM_CONFIG_HEADER], [AC_CONFIG_HEADERS($@)])

# Do all the work for Automake.                                -*- Autoconf
-*-

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# serial 12

# This macro actually does too much.  Some checks are only needed if

```

```

# your package does certain things.  But this isn't really a big deal.

# AM_INIT_AUTOMAKE(PACKAGE, VERSION, [NO-DEFINE])
# AM_INIT_AUTOMAKE([OPTIONS])
# -----
# The call with PACKAGE and VERSION arguments is the old style
# call (pre autoconf-2.50), which is being phased out.  PACKAGE
# and VERSION should now be passed to AC_INIT and removed from
# the call to AM_INIT_AUTOMAKE.
# We support both call styles for the transition.  After
# the next Automake release, Autoconf can make the AC_INIT
# arguments mandatory, and then we can depend on a new Autoconf
# release and drop the old call support.
AC_DEFUN([AM_INIT_AUTOMAKE],
[AC_PREREQ([2.58])dnl
dnl Autoconf wants to disallow AM_ names.  We explicitly allow
dnl the ones we care about.
m4_pattern_allow([^AM_[A-Z]+FLAGS$])dnl
AC_REQUIRE([AM_SET_CURRENT_AUTOMAKE_VERSION])dnl
AC_REQUIRE([AC_PROG_INSTALL])dnl
# test to see if srcdir already configured
if test "`cd $srcdir && pwd`" != "`pwd`" &&
  test -f $srcdir/config.status; then
  AC_MSG_ERROR([source directory already configured; run "make distclean"
there first])
fi

# test whether we have cygpath
if test -z "$CYGPATH_W"; then
  if (cygpath --version) >/dev/null 2>/dev/null; then
    CYGPATH_W='cygpath -w'
  else
    CYGPATH_W=echo
  fi
fi
AC_SUBST([CYGPATH_W])

# Define the identity of the package.
dnl Distinguish between old-style and new-style calls.
m4_ifval([$2],
[m4_ifval([$3], [_AM_SET_OPTION([no-define])])dnl
AC_SUBST([PACKAGE], [$1])dnl
AC_SUBST([VERSION], [$2]),
[_AM_SET_OPTIONS([$1])dnl
AC_SUBST([PACKAGE], ['AC_PACKAGE_TARNAME'])dnl
AC_SUBST([VERSION], ['AC_PACKAGE_VERSION'])])dnl

_AM_IF_OPTION([no-define],,
[AC_DEFINE_UNQUOTED(PACKAGE, "$PACKAGE", [Name of package])
AC_DEFINE_UNQUOTED(VERSION, "$VERSION", [Version number of
package])])dnl

# Some tools Automake needs.
AC_REQUIRE([AM_SANITY_CHECK])dnl

```



```

AC_REQUIRE([AC_ARG_PROGRAM])dnl
AM_MISSING_PROG(ACLOCAL, aclocal-${am__api_version})
AM_MISSING_PROG(AUTOCONF, autoconf)
AM_MISSING_PROG(AUTOMAKE, automake-${am__api_version})
AM_MISSING_PROG(AUTOHEADER, autoheader)
AM_MISSING_PROG(MAKEINFO, makeinfo)
AM_PROG_INSTALL_SH
AM_PROG_INSTALL_STRIP
AC_REQUIRE([AM_PROG_MKDIR_P])dnl
# We need awk for the "check" target.  The system "awk" is bad on
# some platforms.
AC_REQUIRE([AC_PROG_AWK])dnl
AC_REQUIRE([AC_PROG_MAKE_SET])dnl
AC_REQUIRE([AM_SET_LEADING_DOT])dnl
_AM_IF_OPTION([tar-ustar], [_AM_PROG_TAR([ustar])],
              [_AM_IF_OPTION([tar-pax], [_AM_PROG_TAR([pax])],
                             [_AM_PROG_TAR([v7])])])
_AM_IF_OPTION([no-dependencies],,
[AC_PROVIDE_IFELSE([AC_PROG_CC],
                  [_AM_DEPENDENCIES(CC)],
                  [define([AC_PROG_CC],
                          defn([AC_PROG_CC])[_AM_DEPENDENCIES(CC)])])dnl
AC_PROVIDE_IFELSE([AC_PROG_CXX],
                  [_AM_DEPENDENCIES(CXX)],
                  [define([AC_PROG_CXX],
                          defn([AC_PROG_CXX])[_AM_DEPENDENCIES(CXX)])])dnl
defn([AC_PROG_CXX])[_AM_DEPENDENCIES(CXX)])])dnl
])
])

# When config.status generates a header, we must update the stamp-h file.
# This file resides in the same directory as the config header
# that is generated.  The stamp files are numbered to have different
names.

# Autoconf calls _AC_AM_CONFIG_HEADER_HOOK (when defined) in the
# loop where config.status creates the headers, so we can generate
# our stamp files there.
AC_DEFUN([_AC_AM_CONFIG_HEADER_HOOK],
[# Compute $1's index in $config_headers.
_am_stamp_count=1
for _am_header in $config_headers ;; do
  case $_am_header in
    $1 | $1:* )
      break ;;
    * )
      _am_stamp_count=`expr $_am_stamp_count + 1` ;;
  esac
done
echo "timestamp for $1" >`AS_DIRNAME([$1])`/stamp-h[]$_am_stamp_count])

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#

```

```

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# AM_PROG_INSTALL_SH
# -----
# Define $install_sh.
AC_DEFUN([AM_PROG_INSTALL_SH],
[AC_REQUIRE([AM_AUX_DIR_EXPAND])dnl
install_sh=${install_sh-"$am_aux_dir/install-sh"}
AC_SUBST(install_sh)])

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# serial 2

# Check whether the underlying file-system supports filenames
# with a leading dot. For instance MS-DOS doesn't.
AC_DEFUN([AM_SET_LEADING_DOT],
[rm -rf .tst 2>/dev/null
mkdir .tst 2>/dev/null
if test -d .tst; then
  am__leading_dot=.
else
  am__leading_dot=_
fi
rmdir .tst 2>/dev/null
AC_SUBST([am__leading_dot])])

# Check to see how 'make' treats includes.                                -*- Autoconf -*-
*_

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# serial 3

# AM_MAKE_INCLUDE()
# -----
# Check to see how make treats includes.
AC_DEFUN([AM_MAKE_INCLUDE],
[am_make=${MAKE-make}
cat > confinc << 'END'
am__doit:
    @echo done
.PHONY: am__doit
END

```

```

# If we don't find an include directive, just comment out the code.
AC_MSG_CHECKING([for style of include used by $am_make])
am__include="#"
am__quote=
__am_result=none
# First try GNU make style include.
echo "include confinc" > confmf
# We grep out `Entering directory' and `Leaving directory'
# messages which can occur if `w' ends up in MAKEFLAGS.
# In particular we don't look at `^make:' because GNU make might
# be invoked under some other name (usually "gmake"), in which
# case it prints its new name instead of `make'.
if test "`$am_make -s -f confmf 2> /dev/null | grep -v 'ing directory'`"
= "done"; then
    am__include=include
    am__quote=
    __am_result=GNU
fi
# Now try BSD make style include.
if test "$am__include" = "#"; then
    echo '.include "confinc"' > confmf
    if test "`$am_make -s -f confmf 2> /dev/null`" = "done"; then
        am__include=.include
        am__quote=""
        __am_result=BSD
    fi
fi
AC_SUBST([am__include])
AC_SUBST([am__quote])
AC_MSG_RESULT([$__am_result])
rm -f confinc confmf
])

# Fake the existence of programs that GNU maintainers use.  -*- Autoconf
-*-

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# serial 4

# AM_MISSING_PROG(NAME, PROGRAM)
# -----
AC_DEFUN([AM_MISSING_PROG],
[AC_REQUIRE([AM_MISSING_HAS_RUN])
$1=${1-"${am_missing_run}$2"}
AC_SUBST($1)])

# AM_MISSING_HAS_RUN

```

```

# -----
# Define MISSING if not defined so far and test if it supports --run.
# If it does, set am_missing_run to use it, otherwise, to nothing.
AC_DEFUN([AM_MISSING_HAS_RUN],
[AC_REQUIRE([AM_AUX_DIR_EXPAND])dnl
test x"${MISSING+set}" = xset || MISSING="\${SHELL} $am_aux_dir/missing"
# Use eval to expand $SHELL
if eval "$MISSING --run true"; then
  am_missing_run="$MISSING --run "
else
  am_missing_run=
  AC_MSG_WARN(['missing' script is too old or missing])
fi
])

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# AM_PROG_MKDIR_P
# -----
# Check whether `mkdir -p' is supported, fallback to mkinstalldirs
otherwise.
#
# Automake 1.8 used `mkdir -m 0755 -p --' to ensure that directories
# created by `make install' are always world readable, even if the
# installer happens to have an overly restrictive umask (e.g. 077).
# This was a mistake. There are at least two reasons why we must not
# use `-m 0755':
# - it causes special bits like SGID to be ignored,
# - it may be too restrictive (some setups expect 775 directories).
#
# Do not use -m 0755 and let people choose whatever they expect by
# setting umask.
#
# We cannot accept any implementation of `mkdir' that recognizes `-p'.
# Some implementations (such as Solaris 8's) are not thread-safe: if a
# parallel make tries to run `mkdir -p a/b' and `mkdir -p a/c'
# concurrently, both version can detect that a/ is missing, but only
# one can create it and the other will error out. Consequently we
# restrict ourselves to GNU make (using the --version option ensures
# this.)
AC_DEFUN([AM_PROG_MKDIR_P],
[if mkdir -p --version . >/dev/null 2>&1 && test ! -d ./--version; then
  # We used to keeping the `.' as first argument, in order to
  # allow $(mkdir_p) to be used without argument. As in
  # $(mkdir_p) $(somedir)
  # where $(somedir) is conditionally defined. However this is wrong
  # for two reasons:
  # 1. if the package is installed by a user who cannot write `.'
  #    make install will fail,
  # 2. the above comment should most certainly read

```

```

#     $(mkdir_p) $(DESTDIR)$(somedir)
#     so it does not work when $(somedir) is undefined and
#     $(DESTDIR) is not.
#     To support the latter case, we have to write
#     test -z "$(somedir)" || $(mkdir_p) $(DESTDIR)$(somedir),
#     so the `.' trick is pointless.
mkdir_p='mkdir -p --'
else
# On NextStep and OpenStep, the `mkdir' command does not
# recognize any option. It will interpret all options as
# directories to create, and then abort because `.' already
# exists.
for d in ./-p ./--version;
do
    test -d $d && rmdir $d
done
# $(mkinstalldirs) is defined by Automake if mkinstalldirs exists.
if test -f "$ac_aux_dir/mkinstalldirs"; then
    mkdir_p='$(mkinstalldirs)'
else
    mkdir_p='$(install_sh) -d'
fi
fi
AC_SUBST([mkdir_p])

# Helper functions for option handling.                                -*- Autoconf
-*-

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# serial 3

# _AM_MANGLE_OPTION(NAME)
# -----
AC_DEFUN([_AM_MANGLE_OPTION],
[[_AM_OPTION_]m4_bpatsubst($1, [[^a-zA-Z0-9_]], [_])])

# _AM_SET_OPTION(NAME)
# -----
# Set option NAME. Presently that only means defining a flag for this
option.
AC_DEFUN([_AM_SET_OPTION],
[m4_define(_AM_MANGLE_OPTION([$1]), 1)])

# _AM_SET_OPTIONS(OPTIONS)
# -----
# OPTIONS is a space-separated list of Automake options.
AC_DEFUN([_AM_SET_OPTIONS],
[AC_FOREACH([_AM_Option], [$1], [_AM_SET_OPTION(_AM_Option)])])

```

```

# _AM_IF_OPTION(OPTION, IF-SET, [IF-NOT-SET])
# -----
# Execute IF-SET if OPTION is set, IF-NOT-SET otherwise.
AC_DEFUN([_AM_IF_OPTION],
[m4_ifset(_AM_MANGLE_OPTION([$1]), [$2], [$3])])

# Check to make sure that the build environment is sane.      -*- Autoconf
-*-

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# serial 4

# AM_SANITY_CHECK
# -----
AC_DEFUN([AM_SANITY_CHECK],
[AC_MSG_CHECKING([whether build environment is sane])
# Just in case
sleep 1
echo timestamp > conftest.file
# Do `set' in a subshell so we don't clobber the current shell's
# arguments.  Must try -L first in case configure is actually a
# symlink; some systems play weird games with the mod time of symlinks
# (eg FreeBSD returns the mod time of the symlink's containing
# directory).
if (
  set X `ls -Lt $srcdir/configure conftest.file 2> /dev/null`
  if test "$[*]" = "X"; then
    # -L didn't work.
    set X `ls -t $srcdir/configure conftest.file`
  fi
  rm -f conftest.file
  if test "$[*]" != "X $srcdir/configure conftest.file" \
    && test "$[*]" != "X conftest.file $srcdir/configure"; then

    # If neither matched, then we have a broken ls.  This can happen
    # if, for instance, CONFIG_SHELL is bash and it inherits a
    # broken ls alias from the environment.  This has actually
    # happened.  Such a system could not be considered "sane".
    AC_MSG_ERROR([ls -t appears to fail.  Make sure there is not a
broken
alias in your environment])
  fi

  test "$[2]" = conftest.file
)
then
  # Ok.
  :

```

```

else
  AC_MSG_ERROR([newly created file is older than distributed files!
Check your system clock])
fi
AC_MSG_RESULT(yes)])

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# AM_PROG_INSTALL_STRIP
# -----
# One issue with vendor `install' (even GNU) is that you can't
# specify the program used to strip binaries. This is especially
# annoying in cross-compiling environments, where the build's strip
# is unlikely to handle the host's binaries.
# Fortunately install-sh will honor a STRIPPROG variable, so we
# always use install-sh in `make install-strip', and initialize
# STRIPPROG with the value of the STRIP variable (set by the user).
AC_DEFUN([AM_PROG_INSTALL_STRIP],
[AC_REQUIRE([AM_PROG_INSTALL_SH])dnl
# Installed binaries are usually stripped using `strip' when the user
# run `make install-strip'. However `strip' might not be the right
# tool to use in cross-compilation environments, therefore Automake
# will honor the `STRIP' environment variable to overrule this program.
dnl Don't test for $cross_compiling = yes, because it might be `maybe'.
if test "$cross_compiling" != no; then
  AC_CHECK_TOOL([STRIP], [strip], :)
fi
INSTALL_STRIP_PROGRAM="\${SHELL} \$(install_sh) -c -s"
AC_SUBST([INSTALL_STRIP_PROGRAM])])

# Check how to create a tarball.                                     -*- Autoconf
-*-

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# serial 2

# _AM_PROG_TAR(FORMAT)
# -----
# Check how to create a tarball in format FORMAT.
# FORMAT should be one of `v7', `ustar', or `pax'.
#
# Substitute a variable $(am__tar) that is a command
# writing to stdout a FORMAT-tarball containing the directory
# $tardir.
#   tardir=directory && $(am__tar) > result.tar

```

```

#
# Substitute a variable $(am__untar) that extract such
# a tarball read from stdin.
#   $(am__untar) < result.tar
AC_DEFUN([_AM_PROG_TAR],
[# Always define AMTAR for backward compatibility.
AM_MISSING_PROG([AMTAR], [tar])
m4_if([$1], [v7],
    [am__tar='${AMTAR} chof - "$${stardir}"; am__untar='${AMTAR} xf -'],
    [m4_case([$1], [ustar],, [pax],,
        [m4_fatal([Unknown tar format]])])
AC_MSG_CHECKING([how to create a $1 tar archive])
# Loop over all known methods to create a tar archive until one works.
_am_tools='gnutar m4_if([$1], [ustar], [plaintar]) pax cpio none'
_am_tools=${am_cv_prog_tar_$1-$_am_tools}
# Do not fold the above two line into one, because Tru64 sh and
# Solaris sh will not grok spaces in the rhs of `-'
for _am_tool in $_am_tools
do
    case $_am_tool in
    gnutar)
        for _am_tar in tar gnutar gtar;
        do
            AM_RUN_LOG([$_am_tar --version]) && break
        done
        am__tar="$_am_tar --format=m4_if([$1], [pax], [posix], [$1]) -chf -
""$${stardir}"
        am__tar_="$_am_tar --format=m4_if([$1], [pax], [posix], [$1]) -chf -
""$${stardir}"
        am__untar="$_am_tar -xf -"
        ;;
    plaintar)
        # Must skip GNU tar: if it does not support --format= it doesn't
create
        # ustar tarball either.
        (tar --version) >/dev/null 2>&1 && continue
        am__tar='tar chf - "$${stardir}"
        am__tar_='tar chf - "$stardir"'
        am__untar='tar xf -'
        ;;
    pax)
        am__tar='pax -L -x $1 -w "$${stardir}"
        am__tar_='pax -L -x $1 -w "$stardir"'
        am__untar='pax -r'
        ;;
    cpio)
        am__tar='find "$${stardir}" -print | cpio -o -H $1 -L'
        am__tar_='find "$stardir" -print | cpio -o -H $1 -L'
        am__untar='cpio -i -H $1 -d'
        ;;
    none)
        am__tar=false
        am__tar_=false
        am__untar=false

```



```

;;
esac

# If the value was cached, stop now. We just wanted to have am__tar
# and am__untar set.
test -n "${am_cv_prog_tar_$1}" && break

# tar/untar a dummy directory, and stop if the command works
rm -rf confptest.dir
mkdir confptest.dir
echo GrepMe > confptest.dir/file
AM_RUN_LOG([tardir=confptest.dir && eval $am__tar_ >confptest.tar])
rm -rf confptest.dir
if test -s confptest.tar; then
    AM_RUN_LOG([$am__untar <confptest.tar])
    grep GrepMe confptest.dir/file >/dev/null 2>&1 && break
fi
done
rm -rf confptest.dir

AC_CACHE_VAL([am_cv_prog_tar_$1], [am_cv_prog_tar_$1=$am_tool])
AC_MSG_RESULT([$am_cv_prog_tar_$1])
AC_SUBST([am__tar])
AC_SUBST([am__untar])
]) # _AM_PROG_TAR

m4_include([m4/klibc.m4])

```

## AUTHORS

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 Mohan Kumar <mohan@in.ibm.com>  
 Nitin Vashisth <vnitin@in.ibm.com>

## ChangeLog

18/07/2006 - Mohan Kumar M <mohan@in.ibm.com>  
 \* Add subsystem in sysfs\_device

07/07/2006 - Mohan Kumar M <mohan@in.ibm.com>  
 \* Add C++ compilation suport

28/06/2006 - Mohan Kumar M <mohan@in.ibm.com>  
 \* Add sysfs\_open\_device\_tree()

17/04/2006 - Mohan Kumar M <mohan@in.ibm.com>  
 \* Add sysfs\_open\_link\_list()

12/07/2005 - Mohan Kumar M <mohan@in.ibm.com>  
 \* Minor code cleanup in sysfs\_class.c to conform to C99

12/06/2005 - Ananth Mavinakayanahalli <ananth@in.ibm.com>

- \* Ship systool.1
- \* Update README CREDITS, AUTHORS, libsysfs.txt, systool.1

12/05/2005 - Ananth Mavinakayanahalli <ananth@in.ibm.com>

- \* Add support for class:class\_device representation

11/28/2005 - Kay Sievers <Kay.Sievers@vrfy.org>

- \* Remove stale brute force code to determine device's bus and device's driver

11/28/2005 - Ananth Mavinakayanahalli <ananth@in.ibm.com>

- \* Add sysfs\_get\_driver\_module()
- \* Remove sysfs\_open\_module\_attr()

11/25/2005 - Mohan Kumar <mohan@in.ibm.com>

- \* Documentation update
- \* Add missing function prototype in libsysfs.h

11/25/2005 - Ananth Mavinakayanahalli <ananth@in.ibm.com>

- \* Other autotool updates

11/25/2005 - Martin Schlemmer <azarah@nosferatu.za.org>

- \* KLIBC support for sysfsutils

11/14/2005 - Ananth Mavinakayanahalli <ananth@in.ibm.com>

- \* More class\_devices now have a "parent"

11/14/2005 - Ananth Mavinakayanahalli <ananth@in.ibm.com>

- \* Handle nested classes transparently

10/31/2005 - Ananth Mavinakayanahalli <ananth@in.ibm.com>

- \* Check-in Mohan's dlist custom sorter + dlist memory leak fix

10/31/2005 - Ananth Mavinakayanahalli <ananth@in.ibm.com>

- \* Check-in Dan's detach\_state removal patch for 2\_0\_0 tag

05/05/2005 - Daniel Stekloff <dsteklof@us.ibm.com>

- \* Moved sysfs\_dir.c to sysfs\_attr.c

05/05/2005 - Dominik Brodowski <linux@dominikbrodowski.net>

- \* The check which tests whether the value to be written into a sysfs attribute is already there should only trigger if the length of both strings is the same.

05/03/2005 - Daniel Stekloff <dsteklof@us.ibm.com>

- \* Added modules support to systool
- \* Renamed get\_attributes\_list() function to get\_dev\_attributes\_list() function
- \* Added new get\_attributes\_list() function that takes a dlist and a path to directory of attributes
- \* Modified sysfs\_module to grab parameters and sections using new get\_attributes\_list() function
- \* Removed device children support from systool

05/03/2005 - Ananth Mavinakayanahalli <ananth@in.ibm.com>  
 \* Implemented /sys/modules support

04/11/2005 - Kay Sievers <kay.sievers@vrfy.org>  
 \* Update for building with klibc and udev, plus other small fixes.

03/06/2005 - Ananth Mavinakayanahalli <ananth@in.ibm.com>  
 \* sysfs\_directory, sysfs\_link baggage is gone  
 \* When an attribute is requested, `_only_` that attribute is "stat"ed and read  
 \* APIs have been audited and only the relevent ones have been retained.  
 \* Fixed sysfs mount point to /sys

04/06/2005 - Daniel Stekloff <dsteklof@us.ibm.com>  
 \* Merged tag sysfsutils-1\_3\_0 with main trunk  
 \* Created new sysfsutils-2\_0\_0 branch

01/17/2005 - Kay Sievers <kay.sievers@vrfy.org>  
 \* Fix dlist.c so it compiles with older gcc versions

12/16/2004 - Kay Sievers <kay.sievers@vrfy.org>  
 \* Fix `sysfs_get_classdev_attr()` for case when the `sysfs_directory` vanishes from beneath us

11/18/2004 - Daniel Stekloff <dsteklof@us.ibm.com>  
 \* Check "driver" link under the device dir before taking the "brute-force" route

10/03/2004 - Arun Bhanu <arun@codemovers.org>  
 \* docs - fix wrong return type in `sysfs_read_dir_subdirs`

09/13/2004 - Daniel Stekloff <dsteklof@us.ibm.com>  
 \* Patch `systool` to print error if `sysfs` is not mounted

09/10/2004 - Ananth Mavinakayanahalli <ananth@in.ibm.com>  
 \* Changed version number in package files to 1.2.0

08/31/2004 - Ananth Mavinakayanahalli <ananth@in.ibm.com>  
 \* Fix `sysfs_open_link()` failure path

08/16/2004 - Eric J Bohm <bohmg@gate.csgeeks.org>  
 \* Custom sorting dlists patch

08/16/2004 - Brian King <brking@us.ibm.com>  
 \* Fix `sysfs` write only attributes bug

07/16/2004 - Daniel Stekloff <dsteklof@us.ibm.com>  
 \* Merged version 1.2.0 into main tree  
 \* Tagged new branch - version 1.2.0

03/31/2004 - Ananth Mavinakayanahalli <ananth@in.ibm.com>  
 \* More updates to docs/libsysfs.txt  
 \* Updated NEWS and CREDITS files

03/19/2004 - Dr. Hannes Reinecke <hare@suse.de>  
 \* Fixed SEGV in dlist.c

03/15/2004 - Ananth Mavinakayanahalli <ananth@in.ibm.com>  
 \* Updated docs/libsysfs.txt for release 1.1.0

03/12/2004 - Ananth Mavinakayanahalli <ananth@in.ibm.com>  
 \* Modified string functions to use wrappers to take care  
 of potential buffer overflow issues

03/08/2004 - Ananth Mavinakayanahalli <ananth@in.ibm.com>  
 \* Remove "unsigned" declarations for prototype  
 compatibility per Lev Makhlis' suggestion

03/08/2004 - Lev Makhlis <mlev@despammed.com>  
 \* Changes for C++ compatibility

03/08/2004 - Ananth Mavinakayanahalli <ananth@in.ibm.com>  
 \* Changed version number in configure.ac to 1.1.0

03/08/2004 - Martin Schlemmer <azarah@gentoo.org>  
 \* Don't check for installed libsysfs while building  
 sysfsutils from the source package

02/24/2004 - Ananth Mavinakayanahalli <ananth@in.ibm.com>  
 \* Added validation code for test defines  
 \* Updated the README, libsysfs.txt and NEWS files  
 \* Provided descriptive comments for the libsysfs.conf file

02/19/2004 - Brian King <brking@us.ibm.com>  
 \* Fixed memory leak in sysfs\_read\_attribute()

02/19/2004 - Ananth Mavinakayanahalli <ananth@in.ibm.com>  
 \* Set errno correctly in the library  
 \* Provided libsysfs.conf - the config file for the testsuite  
 and a script to create a test.h on the fly  
 \* Added numerous testsuite updates

02/13/2004 - Ananth Mavinakayanahalli <ananth@in.ibm.com>  
 \* Patched code to fill sysfs\_device->driver\_name correctly

02/12/2004 - Ananth Mavinakayanahalli <ananth@in.ibm.com>  
 \* Added Nitin Vashisth to AUTHORS  
 \* Removed lsbus and its manpage  
 \* Updated systool for better display  
 \* Updated manpage for systool

02/10/2004 - Ananth Mavinakayanahalli <ananth@in.ibm.com>  
 \* Updated docs/libsysfs.txt

02/09/2004 - Ananth Mavinakayanahalli <ananth@in.ibm.com>  
 \* Added testsuite in "test" directory  
 \* Updated autotool scripts to build testsuite  
 \* Changed version number to 1.0.0

02/09/2004 - Ananth Mavinakayanahalli <ananth@in.ibm.com>  
 \* Fixed miscellaneous issues in sysfs\_device/driver.c sources

02/04/2004 - Ananth Mavinakayanahalli <ananth@in.ibm.com>  
 \* Added list sorting support  
 \* Exported get\_device\_bus()  
 \* Removed sysfs\_open\_bus\_device()  
 \* Other cosmetic changes

01/07/2004 - Ananth Mavinakayanahalli <ananth@in.ibm.com>  
 \* Modified parameter order for "open" functions to make them consistent

01/07/2004 - Ananth Mavinakayanahalli <ananth@in.ibm.com>  
 \* Added additional CFLAGS for building lib and apps

01/07/2004 - Ananth Mavinakayanahalli <ananth@in.ibm.com>  
 \* Added numerous "refresh" functions  
 \* Added function to remove trailing slash from paths  
 \* Fixed sysfs\_get\_link() to handle different possibilities

01/07/2004 - Martin Hicks <mort@bork.org>  
 \* Fixed sysfs\_get\_class\_device()

12/26/2003 - Daniel Stekloff <dsteklof@us.ibm.com>  
 \* Removed unneeded functions  
 \* Added APIs to get directory links, subdirs and attribs

12/17/2003 - Ananth Mavinakayanahalli <ananth@in.ibm.com>  
 \* Updated docs/libsysfs.txt for 0.4.0  
 \* Made some miscellaneous changes in library

12/16/2003 - Daniel Stekloff <dsteklof@us.ibm.com>  
 \* Added sysfs\_get\_device\_parent() function

12/15/2003 - Martin Pitt <mpitt@debian.org>  
 \* Added initial version of manpages for lsbu and systool

12/15/2003 - Ananth Mavinakayanahalli <ananth@in.ibm.com>  
 \* Updated autotools for 0.4.0 - shared library will now have version-info  
 \* Fixed miscellaneous issues with library files  
 \* Fixed names.c, systool.c and lsbu.c to free all allocated memory

12/12/2003 - Ananth Mavinakayanahalli <ananth@in.ibm.com>  
 \* Miscellaneous changes - added new function definitions, general code cleanup

- 12/12/2003 - Daniel Stekloff <dsteklof@us.ibm.com>
  - \* Changed function prototypes for sysfs\_open\_\* calls that accept absolute path to have `_path` suffix
  - \* Changed function prototypes that take the device/driver bus/class and name to be normal `sysfs_open_xxx()`
  - \* Changed `sysfs_close_cls_dev()` to be a static function
- 12/12/2003 - Ananth Mavinakayanahalli <ananth@in.ibm.com>
  - \* Added function to open a driver knowing its name and the bus it is on
- 12/10/2003 - Ananth Mavinakayanahalli <ananth@in.ibm.com>
  - \* Added more optimization changes
  - \* Added code to add and refresh attributes dynamically
- 12/08/2003 - Daniel Stekloff <dsteklof@us.ibm.com>
  - \* Patched code for directory/attribute read optimization
- 12/05/2003 - Daniel Stekloff <dsteklof@us.ibm.com>
  - \* Remove unused argument from `sysfs_get_device_by_id()`
- 12/02/2003 - Ananth Mavinakayanahalli <ananth@in.ibm.com>
  - \* Simplified routine to get bus a device is on
- 12/02/2003 - Ananth Mavinakayanahalli <ananth@in.ibm.com>
  - \* Patched code to use already available functions for optimization.
- 12/02/2003 - Ananth Mavinakayanahalli <ananth@in.ibm.com>
  - \* Corrected `sysfs_get_directory_attribute()`
- 12/01/2003 - Ananth Mavinakayanahalli <ananth@in.ibm.com>
  - \* Removed usage of `_DIR #defines`
  - \* Added functionality to obtain parent of a class device
  - \* Added `get_classdev_parent.c` in `test/`. This file is not built by default as of now
- 11/27/2003 - Ananth Mavinakayanahalli <ananth@in.ibm.com>
  - \* Updated library and utilities with the optimization patch
- 11/24/2003 - Ananth Mavinakayanahalli <ananth@in.ibm.com>
  - \* Removed `getpagesize()` usage (Dan)
  - \* Added patch to postpone reading of attributes until absolutely necessary
  - \* Cleaned up `sysfs_driver.c`
  - \* Changed stale `sysutils` references to `sysfsutils`
- 11/04/2003 - Ananth Mavinakayanahalli <ananth@in.ibm.com>
  - \* Added code to consider "block" part of "class"
  - \* Fixed `systool` to show driver details (if available) when listing the class device
  - \* Added bus to struct `sysfs_device`
  - \* Modified "read\_attr" functions for device/driver/classdev

to return a `sysfs_attribute`

- \* Modified test functions, added a test function to demonstrate usage of "write" attribute functions
- \* Updated `libsysfs.txt` to reflect latest updates to the library

10/27/2003 - Daniel Stekloff <dsteklof@us.ibm.com>

- \* Fixed bug in `sysfs_get_name_from_path()`
- \* Added code to check if `SYSFS_PATH` environment variable is set
- \* Modified `sysfs_get_link()`
- \* Added "classname" to struct `sysfs_class_device`

10/22/2003 - Ananth Mavinakayanahalli <ananth@in.ibm.com>

- \* Removed "block" subsystem support

10/20/2003 - Ananth Mavinakayanahalli <ananth@in.ibm.com>

- \* Added code to install header files (from include dir) to `/usr/local/include/` directory
- \* Added "read\_attr" functions for device, driver and class; simplified "write\_attr" handling
- \* Made `sysfs_get_directory_attribute()` recurse subdirs
- \* Fixed potential bugs in `sysfs_dir.c`

10/17/2003 - Daniel Stekloff <dsteklof@us.ibm.com>

- \* Added "path" to device in `sysfs_device` structure

10/15/2003 - Ananth Mavinakayanahalli <ananth@in.ibm.com>

- \* Fixed bug in `sysfs_block.c` (`initrd`)
- \* Fixed possible bug in `systool.c`

10/15/2003 - Ananth Mavinakayanahalli <ananth@in.ibm.com>

- \* Changed `get_devices_list` to `get_bus_devices_list`
- \* Fixed usage messages in tests

10/15/2003 - Ananth Mavinakayanahalli <ananth@in.ibm.com>

- \* Added support for building shared library

10/14/2003 - Ananth Mavinakayanahalli <ananth@in.ibm.com>

- \* Changed version number to 0.3.0
- \* Cleanups to remove warnings
- \* Remove perror usage

10/10/2003 - Ananth Mavinakayanahalli <ananth@in.ibm.com>

- \* Modified the way `systool` displayed block devices

10/09/2003 - Ananth Mavinakayanahalli <ananth@in.ibm.com>

- \* Updated `docs/libsysfs.txt`
- \* Fixed warning in `cmd/names.c`
- \* Modified "write" attribute functions to accept length to write as a parameter
- \* Added functions `sysfs_get_driver_attr()`, `sysfs_get_blockdev_attr()`, `sysfs_get_classdev_attr()`

- 10/07/2003 - Ananth Mavinakayanahalli <ananth@in.ibm.com>
  - \* Miscellaneous changes - renaming of some functions, etc
- 10/06/2003 - Ananth Mavinakayanahalli <ananth@in.ibm.com>
  - \* Pruned "test" routines
  - \* Corrected pci name decode in cmds
- 10/01/2003 - Ananth Mavinakayanahalli <ananth@in.ibm.com>
  - \* Added number of utility routines in "test" directory
  - \* Adapted PCI name decode support from Martin Mares' pciutils
- 09/30/2003 - Ananth Mavinakayanahalli <ananth@in.ibm.com>
  - \* Modified routines to find device/driver on a bus
  - \* Made some miscellaneous changes to use #defines instead of hardcoding values
- 09/29/2003 - Ananth Mavinakayanahalli <ananth@in.ibm.com>
  - \* Added "block" subsystem support
  - \* Modified systool to use sysfs\_root\_device
- 09/24/2003 - Ananth Mavinakayanahalli <ananth@in.ibm.com>
  - \* Added "write" attribute functions specific to device, driver and class device.
  - \* Removed generic write function sysfs\_change\_attribue\_value()
  - \* Changed sysfs\_open\_device\_by\_name() to sysfs\_change\_device\_by\_id()
- 09/23/2003 - Ananth Mavinakayanahalli <ananth@in.ibm.com>
  - \* Fixed "write" attribute functions.
  - \* Removed sysfs\_write\_attribute\_value()
  - \* Added sysfs\_change\_attribute\_value() - a wrapper for sysfs\_write\_attribute()
  - \* Simplified sysfs\_get\_device\_attr()
- 09/16/2003 - Ananth Mavinakayanahalli <ananth@in.ibm.com>
  - \* Patch sysfs\_close\_driver() so as not to segfault when during dlist shifting.
- 09/15/2003 - Ananth Mavinakayanahalli <ananth@in.ibm.com>
  - \* Added sysfs\_open\_device\_by\_name() to open a device given the device name
  - \* Modified "name" field of sysfs\_device to contain same data as the "bus\_id" field
- 09/11/2003 - Ananth Mavinakayanahalli <ananth@in.ibm.com>
  - \* Added sysfs\_open\_driver\_by\_name() to open a driver and its device, given the driver name
- 09/09/2003 - Ananth Mavinakayanahalli <ananth@in.ibm.com>
  - \* Added sysfs\_find\_device\_class() to find what class a device is on



09/05/2003 - Ananth Mavinakayanahalli <ananth@in.ibm.com>  
 \* Add sysfs\_open\_bus\_devices\_list()  
 \* Simplify sysfs\_find\_device\_bus\_name()

09/04/2003 - Ananth Mavinakayanahalli <ananth@in.ibm.com>  
 \* Simplified sysfs\_open\_bus\_device

08/29/2003 - Ananth Mavinakayanahalli <ananth@in.ibm.com>  
 \* Removed "bus\_name" from struct sysfs\_device  
 \* Updated NEWS, TODO and docs/libsysfs.txt files

08/28/2003 - Ananth Mavinakayanahalli <ananth@in.ibm.com>  
 \* Added more utility functions to sysfsutils  
 \* Modified commands to make use of the new functions  
 \* Updated libsysfs.txt to reflect new structure modifications  
 \* Added sysfs\_open\_subsystem\_list() to get subsystem specific lists from the library  
 \* Added sysfs\_close\_list() - a generic list deletion routine

08/28/2003 - Daniel Stekloff <dsteklof@us.ibm.com>  
 \* Added sysfs\_root\_device struct for modelling /sys/devices path.

08/28/2003 - Guo Min <min.guo@intel.com>  
 \* Added "write" attribute support to sysfsutils

08/28/2003 - Ananth Mavinakayanahalli <ananth@in.ibm.com>  
 \* Changed sysfs\_driver to contain a dlist of devices

08/28/2003 - Ananth Mavinakayanahalli <ananth@in.ibm.com>  
 \* Removed sysfs\_driver reference from sysfs\_device struct  
 \* Fixed a few bugs in the commands.

08/19/2003 - Daniel Stekloff <dsteklof@us.ibm.com>  
 \* Integrated Eric Bohm's dlist patch  
 \* Integrated Eric Bohm's follow on patch adding dlist\_for\_each  
 \* Changed chars to unsigned chars  
 \* Reworked structures to be neater and to contain sysfs\_directories as private structures  
 \* Added more functions for retrieving data like attributes  
 \* Added some find functions

08/06/2003 - Ananth Mavinakayanahalli <ananth@in.ibm.com>  
 \* Patch to correct dprintf usage

08/01/2003 - Ananth Mavinakayanahalli <ananth@in.ibm.com>  
 \* Added autoconf configuration support  
 \* Modified IBM Copyright information

08/01/2003 - Released version 0.1.1

07/24/2003 - Daniel Stekloff <dsteklof@us.ibm.com>

```

    * Changed sysutils name to sysfsutils

07/23/2003 - Daniel Stekloff <dsteklof@us.ibm.com>
    * Changed sysfs_dlink to sysfs_link, got rid of
      sysfs_directory link for target char path.

07/18/2003 - Ananth Mavinakayanahalli <ananth@in.ibm.com>
    * Changed default systool and lsbu to just print
      device info. Device info already prints drivers.

07/10/2003 - Daniel Stekloff <dsteklof@us.ibm.com>
    Ananth Mavinakayanahalli <ananth@in.ibm.com>
    * Added printing binary attribute support to systool
      and lsbu

07/09/2003 - Lev Makhlis <mlev@despammed.com>
    * Libsysfs code cleanup including:
      - code simplification
      - read-only strings
      - C++ compatibility
    - Daniel Stekloff <dsteklof@us.ibm.com>
    * Removed "-t" option

07/08/2003 - Daniel Stekloff <dsteklof@us.ibm.com>
    * Created NEWS file listing version history

07/07/2003 - Daniel Stekloff <dsteklof@us.ibm.com>
    * Merged version 0.1.0 into main tree
    * Tagged new branch - version 0.1.1

07/07/2003 - Ananth Mavinakayanahalli <ananth@in.ibm.com>
    * Added parent reference to sysfs_device
    * Added device reference to sysfs_driver

06/30/2003 - Initial Version Released

```

## Compile

```

#! /bin/sh

# Wrapper for compilers which do not understand '-c -o'.

# Copyright 1999, 2000 Free Software Foundation, Inc.
# Written by Tom Tromey <tromey@cygnus.com>.
#
# This program is free software; you can redistribute it and/or modify
# it under the terms of the GNU General Public License as published by
# the Free Software Foundation; either version 2, or (at your option)
# any later version.
#
# This program is distributed in the hope that it will be useful,
# but WITHOUT ANY WARRANTY; without even the implied warranty of
# MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the

```

```

# GNU General Public License for more details.
#
# You should have received a copy of the GNU General Public License
# along with this program; if not, write to the Free Software
# Foundation, Inc., 59 Temple Place - Suite 330, Boston, MA 02111-1307,
# USA.

# As a special exception to the GNU General Public License, if you
# distribute this file as part of a program that contains a
# configuration script generated by Autoconf, you may include it under
# the same distribution terms that you use for the rest of that program.

# Usage:
# compile PROGRAM [ARGS]...
# '-o FOO.o' is removed from the args passed to the actual compile.

prog=$1
shift

ofile=
cfile=
args=
while test $# -gt 0; do
  case "$1" in
    -o)
      # configure might choose to run compile as `compile cc -o foo
foo.c'.
      # So we do something ugly here.
      ofile=$2
      shift
      case "$ofile" in
        *.o | *.obj)
          ;;
        *)
          args="$args -o $ofile"
          ofile=
          ;;
      esac
      ;;
    *.c)
      cfile=$1
      args="$args $1"
      ;;
    *)
      args="$args $1"
      ;;
  esac
  shift
done

if test -z "$ofile" || test -z "$cfile"; then
  # If no '-o' option was seen then we might have been invoked from a
  # pattern rule where we don't need one. That is ok -- this is a
  # normal compilation that the losing compiler can handle. If no

```

```

    # `.c' file was seen then we are probably linking.  That is also
    # ok.
    exec "$prog" $args
fi

# Name of file we expect compiler to create.
cofile=`echo $cfile | sed -e 's|^.*//||' -e 's/\.c$/\.o/'`

# Create the lock directory.
# Note: use `[/.-]' here to ensure that we don't use the same name
# that we are using for the .o file.  Also, base the name on the expected
# object file name, since that is what matters with a parallel build.
lockdir=`echo $cofile | sed -e 's|[/.-]||_g'`.d
while true; do
    if mkdir $lockdir > /dev/null 2>&1; then
        break
    fi
    sleep 1
done
# FIXME: race condition here if user kills between mkdir and trap.
trap "rmdir $lockdir; exit 1" 1 2 15

# Run the compile.
"$prog" $args
status=$?

if test -f "$cofile"; then
    mv "$cofile" "$ofile"
fi

rmdir $lockdir
exit $status

```

## **config.guess**

```

#!/bin/sh
# Attempt to guess a canonical system name.
# Copyright (C) 1992, 1993, 1994, 1995, 1996, 1997, 1998, 1999,
# 2000, 2001, 2002, 2003 Free Software Foundation, Inc.

timestamp='2003-06-17'

# This file is free software; you can redistribute it and/or modify it
# under the terms of the GNU General Public License as published by
# the Free Software Foundation; either version 2 of the License, or
# (at your option) any later version.
#
# This program is distributed in the hope that it will be useful, but
# WITHOUT ANY WARRANTY; without even the implied warranty of
# MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.  See the GNU
# General Public License for more details.
#
# You should have received a copy of the GNU General Public License

```

```

# along with this program; if not, write to the Free Software
# Foundation, Inc., 59 Temple Place - Suite 330, Boston, MA 02111-1307,
# USA.
#
# As a special exception to the GNU General Public License, if you
# distribute this file as part of a program that contains a
# configuration script generated by Autoconf, you may include it under
# the same distribution terms that you use for the rest of that program.

# Originally written by Per Bothner <per@bothner.com>.
# Please send patches to <config-patches@gnu.org>.  Submit a context
# diff and a properly formatted ChangeLog entry.
#
# This script attempts to guess a canonical system name similar to
# config.sub.  If it succeeds, it prints the system name on stdout, and
# exits with 0.  Otherwise, it exits with 1.
#
# The plan is that this can be called by configure scripts if you
# don't specify an explicit build system type.

me=`echo "$0" | sed -e 's,./,,'`

usage="\
Usage: $0 [OPTION]

Output the configuration name of the system ``$me' is run on.

Operation modes:
  -h, --help          print this help, then exit
  -t, --time-stamp    print date of last modification, then exit
  -v, --version       print version number, then exit

Report bugs and patches to <config-patches@gnu.org>."

version="\
GNU config.guess ($timestamp)

Originally written by Per Bothner.
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Free Software Foundation, Inc.

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warranty; not even for MERCHANTABILITY or FITNESS FOR A PARTICULAR
PURPOSE."

help="
Try ``$me --help' for more information."

# Parse command line
while test $# -gt 0 ; do
  case $1 in
    --time-stamp | --time* | -t )
      echo "$timestamp" ; exit 0 ;;
  esac
done

```

```

--version | -v )
    echo "$version" ; exit 0 ;;
--help | --h* | -h )
    echo "$usage"; exit 0 ;;
-- )          # Stop option processing
    shift; break ;;
- )          # Use stdin as input.
    break ;;
-* )
    echo "$me: invalid option $1$help" >&2
    exit 1 ;;
* )
    break ;;
esac
done

if test $# != 0; then
    echo "$me: too many arguments$help" >&2
    exit 1
fi

trap 'exit 1' 1 2 15

# CC_FOR_BUILD -- compiler used by this script. Note that the use of a
# compiler to aid in system detection is discouraged as it requires
# temporary files to be created and, as you can see below, it is a
# headache to deal with in a portable fashion.

# Historically, `CC_FOR_BUILD' used to be named `HOST_CC'. We still
# use `HOST_CC' if defined, but it is deprecated.

# Portable tmp directory creation inspired by the Autoconf team.

set_cc_for_build='
trap "exitcode=\$?; (rm -f \${tmpfiles} 2>/dev/null; rmdir \${tmp}
2>/dev/null) && exit \${exitcode}" 0 ;
trap "rm -f \${tmpfiles} 2>/dev/null; rmdir \${tmp} 2>/dev/null; exit 1" 1 2
13 15 ;
: ${TMPDIR=/tmp} ;
{ tmp=`(umask 077 && mktemp -d -q "$TMPDIR/cgXXXXXX") 2>/dev/null` &&
test -n "$tmp" && test -d "$tmp" ; } ||
{ test -n "$RANDOM" && tmp=$TMPDIR/cg$$-$RANDOM && (umask 077 && mkdir
$tmp) ; } ||
{ tmp=$TMPDIR/cg-$$ && (umask 077 && mkdir $tmp) && echo "Warning:
creating insecure temp directory" >&2 ; } ||
{ echo "$me: cannot create a temporary directory in $TMPDIR" >&2 ; exit
1 ; } ;
dummy=$tmp/dummy ;
tmpfiles="$dummy.c $dummy.o $dummy.rel $dummy" ;
case $CC_FOR_BUILD,$HOST_CC,$CC in
,,)    echo "int x;" > $dummy.c ;
      for c in cc gcc c89 c99 ; do
        if ($c -c -o $dummy.o $dummy.c) >/dev/null 2>&1 ; then
          CC_FOR_BUILD="$c"; break ;

```

```

        fi ;
    done ;
    if test x"$CC_FOR_BUILD" = x ; then
        CC_FOR_BUILD=no_compiler_found ;
    fi
    ;;
    ,*)    CC_FOR_BUILD=$CC ;;
    ,*,*) CC_FOR_BUILD=$HOST_CC ;;
esac ;'

```

# This is needed to find uname on a Pyramid OSx when run in the BSD universe.

```

# (ghazi@noc.rutgers.edu 1994-08-24)
if (test -f /.attbin/uname) >/dev/null 2>&1 ; then
    PATH=$PATH:/.attbin ; export PATH
fi

```

```

UNAME_MACHINE=`(uname -m) 2>/dev/null` || UNAME_MACHINE=unknown
UNAME_RELEASE=`(uname -r) 2>/dev/null` || UNAME_RELEASE=unknown
UNAME_SYSTEM=`(uname -s) 2>/dev/null` || UNAME_SYSTEM=unknown
UNAME_VERSION=`(uname -v) 2>/dev/null` || UNAME_VERSION=unknown

```

```

## for Red Hat Linux
if test -f /etc/redhat-release ; then
    VENDOR=redhat ;
else
    VENDOR= ;
fi

```

# Note: order is significant - the case branches are not exclusive.

```

case "${UNAME_MACHINE}:${UNAME_SYSTEM}:${UNAME_RELEASE}:${UNAME_VERSION}"
in

```

```

*:NetBSD:*)
# NetBSD (nbsd) targets should (where applicable) match one or
# more of the tuples: *--netbsdelf*, *--netbsdout*,
# *--netbsdcoeff* and *--netbsd*. For targets that recently
# switched to ELF, *--netbsd* would select the old
# object file format. This provides both forward
# compatibility and a consistent mechanism for selecting the
# object file format.
#
# Note: NetBSD doesn't particularly care about the vendor
# portion of the name. We always set it to "unknown".
sysctl="sysctl -n hw.machine_arch"
UNAME_MACHINE_ARCH=`(/sbin/$sysctl 2>/dev/null || \
    /usr/sbin/$sysctl 2>/dev/null || echo unknown)`
case "${UNAME_MACHINE_ARCH}" in
    armeb) machine=armeb-unknown ;;
    arm*) machine=arm-unknown ;;
    sh3el) machine=shl-unknown ;;
    sh3eb) machine=sh-unknown ;;
    *) machine=${UNAME_MACHINE_ARCH}-unknown ;;
esac

```

```

# The Operating System including object format, if it has switched
# to ELF recently, or will in the future.
case "${UNAME_MACHINE_ARCH}" in
    arm*|i386|m68k|ns32k|sh3*|sparc|vax)
        eval $set_cc_for_build
        if echo __ELF__ | $CC_FOR_BUILD -E - 2>/dev/null \
            | grep __ELF__ >/dev/null
        then
            # Once all utilities can be ECOFF (netbsdcoff) or a.out
(netbsdout).
            # Return netbsd for either.  FIX?
            os=netbsd
        else
            os=netbsdelf
        fi
        ;;
*)
    os=netbsd
    ;;
esac
# The OS release
# Debian GNU/NetBSD machines have a different userland, and
# thus, need a distinct triplet. However, they do not need
# kernel version information, so it can be replaced with a
# suitable tag, in the style of linux-gnu.
case "${UNAME_VERSION}" in
    Debian*)
        release='-gnu'
        ;;
*)
    release=`echo ${UNAME_RELEASE}|sed -e 's/[-_].*/\./'`
    ;;
esac
# Since CPU_TYPE-MANUFACTURER-KERNEL-OPERATING_SYSTEM:
# contains redundant information, the shorter form:
# CPU_TYPE-MANUFACTURER-OPERATING_SYSTEM is used.
echo "${machine}-${os}${release}"
exit 0 ;;
amiga:OpenBSD:*:*)
    echo m68k-unknown-openbsd${UNAME_RELEASE}
    exit 0 ;;
arc:OpenBSD:*:*)
    echo mipsel-unknown-openbsd${UNAME_RELEASE}
    exit 0 ;;
hp300:OpenBSD:*:*)
    echo m68k-unknown-openbsd${UNAME_RELEASE}
    exit 0 ;;
mac68k:OpenBSD:*:*)
    echo m68k-unknown-openbsd${UNAME_RELEASE}
    exit 0 ;;
macppc:OpenBSD:*:*)
    echo powerpc-unknown-openbsd${UNAME_RELEASE}
    exit 0 ;;
mvme68k:OpenBSD:*:*)

```



```

    echo m68k-unknown-openbsd${UNAME_RELEASE}
    exit 0 ;;
mvme88k:OpenBSD:*:*)
    echo m88k-unknown-openbsd${UNAME_RELEASE}
    exit 0 ;;
mvmeppc:OpenBSD:*:*)
    echo powerpc-unknown-openbsd${UNAME_RELEASE}
    exit 0 ;;
pmax:OpenBSD:*:*)
    echo mipsel-unknown-openbsd${UNAME_RELEASE}
    exit 0 ;;
sgi:OpenBSD:*:*)
    echo mipseb-unknown-openbsd${UNAME_RELEASE}
    exit 0 ;;
sun3:OpenBSD:*:*)
    echo m68k-unknown-openbsd${UNAME_RELEASE}
    exit 0 ;;
wgrisc:OpenBSD:*:*)
    echo mipsel-unknown-openbsd${UNAME_RELEASE}
    exit 0 ;;
*:OpenBSD:*:*)
    echo ${UNAME_MACHINE}-unknown-openbsd${UNAME_RELEASE}
    exit 0 ;;
alpha:OSF1:*:*)
    if test $UNAME_RELEASE = "V4.0"; then
        UNAME_RELEASE=`/usr/sbin/sizer -v | awk '{print $3}'`
    fi
    # According to Compaq, /usr/sbin/psrinfo has been available on
    # OSF/1 and Tru64 systems produced since 1995. I hope that
    # covers most systems running today. This code pipes the CPU
    # types through head -n 1, so we only detect the type of CPU 0.
    ALPHA_CPU_TYPE=`/usr/sbin/psrinfo -v | sed -n -e 's/^ The alpha
\(.*\) processor.*$/\1/p' | head -n 1`
    case "$ALPHA_CPU_TYPE" in
        "EV4 (21064)")
            UNAME_MACHINE="alpha" ;;
        "EV4.5 (21064)")
            UNAME_MACHINE="alpha" ;;
        "LCA4 (21066/21068)")
            UNAME_MACHINE="alpha" ;;
        "EV5 (21164)")
            UNAME_MACHINE="alphaev5" ;;
        "EV5.6 (21164A)")
            UNAME_MACHINE="alphaev56" ;;
        "EV5.6 (21164PC)")
            UNAME_MACHINE="alphapca56" ;;
        "EV5.7 (21164PC)")
            UNAME_MACHINE="alphapca57" ;;
        "EV6 (21264)")
            UNAME_MACHINE="alphaev6" ;;
        "EV6.7 (21264A)")
            UNAME_MACHINE="alphaev67" ;;
        "EV6.8CB (21264C)")
            UNAME_MACHINE="alphaev68" ;;

```

```

"EV6.8AL (21264B)")
    UNAME_MACHINE="alphaev68" ;;
"EV6.8CX (21264D)")
    UNAME_MACHINE="alphaev68" ;;
"EV6.9A (21264/EV69A)")
    UNAME_MACHINE="alphaev69" ;;
"EV7 (21364)")
    UNAME_MACHINE="alphaev7" ;;
"EV7.9 (21364A)")
    UNAME_MACHINE="alphaev79" ;;
esac
# A Vn.n version is a released version.
# A Tn.n version is a released field test version.
# A Xn.n version is an unreleased experimental baselevel.
# 1.2 uses "1.2" for uname -r.
echo ${UNAME_MACHINE}-dec-osf`echo ${UNAME_RELEASE} | sed -e
's/^[VTX]//' | tr 'ABCDEFGHIJKLMNOPQRSTUVWXYZ'
'abcdefghijklmnopqrstuvwxyz'`
    exit 0 ;;
Alpha*:OpenVMS:*)
    echo alpha-hp-vms
    exit 0 ;;
Alpha\ *:Windows_NT:*)
    # How do we know it's Interix rather than the generic POSIX
subsystem?
    # Should we change UNAME_MACHINE based on the output of uname
instead
    # of the specific Alpha model?
    echo alpha-pc-interix
    exit 0 ;;
21064:Windows_NT:50:3)
    echo alpha-dec-winnt3.5
    exit 0 ;;
Amiga*:UNIX_System_V:4.0:*)
    echo m68k-unknown-sysv4
    exit 0 ;;
*:[Aa]miga[Oo][Ss]:*:*)
    echo ${UNAME_MACHINE}-unknown-amigaos
    exit 0 ;;
*:[Mm]orph[Oo][Ss]:*:*)
    echo ${UNAME_MACHINE}-unknown-morphos
    exit 0 ;;
*:OS/390:*:*)
    echo i370-ibm-openedition
    exit 0 ;;
arm:RISC*:1.[012]*:*|arm:riscix:1.[012]*:*)
    echo arm-acorn-riscix${UNAME_RELEASE}
    exit 0 ;;
SR2?01:HI-UX/MPP:*:* | SR8000:HI-UX/MPP:*:*)
    echo hppa1.1-hitachi-hiuxmpp
    exit 0 ;;
Pyramid*:OSx*:*:* | MIS*:OSx*:*:* | MIS*:SMP_DC-OSx*:*:*)
    # akee@wpdis03.wpafb.af.mil (Earle F. Ake) contributed MIS and
NILE.

```

```

if test "`(/bin/universe) 2>/dev/null`" = att ; then
    echo pyramid-pyramid-sysv3
else
    echo pyramid-pyramid-bsd
fi
exit 0 ;;
NILE*:*:*:dcosx)
    echo pyramid-pyramid-svr4
    exit 0 ;;
DRS?6000:unix:4.0:6*)
    echo sparc-icl-nx6
    exit 0 ;;
DRS?6000:UNIX_SV:4.2*:7*)
    case `/usr/bin/uname -p` in
        sparc) echo sparc-icl-nx7 && exit 0 ;;
    esac ;;
sun4H:SunOS:5.*:*)
    echo sparc-hal-solaris2`echo ${UNAME_RELEASE}|sed -e 's/[^.]*//'\`
    exit 0 ;;
sun4*:SunOS:5.*:* | tadpole*:SunOS:5.*:*)
    echo sparc-sun-solaris2`echo ${UNAME_RELEASE}|sed -e 's/[^.]*//'\`
    exit 0 ;;
i86pc:SunOS:5.*:*)
    echo i386-pc-solaris2`echo ${UNAME_RELEASE}|sed -e 's/[^.]*//'\`
    exit 0 ;;
sun4*:SunOS:6*:*)
    # According to config.sub, this is the proper way to canonicalize
    # SunOS6. Hard to guess exactly what SunOS6 will be like, but
    # it's likely to be more like Solaris than SunOS4.
    echo sparc-sun-solaris3`echo ${UNAME_RELEASE}|sed -e 's/[^.]*//'\`
    exit 0 ;;
sun4*:SunOS:*:*)
    case "`/usr/bin/arch -k`" in
        Series*|S4*)
            UNAME_RELEASE=`uname -v`
            ;;
    esac
    # Japanese Language versions have a version number like `4.1.3-JL'.
    echo sparc-sun-sunos`echo ${UNAME_RELEASE}|sed -e 's/-/_/'`
    exit 0 ;;
sun3*:SunOS:*:*)
    echo m68k-sun-sunos${UNAME_RELEASE}
    exit 0 ;;
sun*:*:4.2BSD:*)
    UNAME_RELEASE=`(sed 1q /etc/motd | awk '{print substr($5,1,3)}')
2>/dev/null`
    test "x${UNAME_RELEASE}" = "x" && UNAME_RELEASE=3
    case "`/bin/arch`" in
        sun3)
            echo m68k-sun-sunos${UNAME_RELEASE}
            ;;
        sun4)
            echo sparc-sun-sunos${UNAME_RELEASE}
            ;;
    esac

```

```

    esac
    exit 0 ;;
aushp:SunOS:*:*)
    echo sparc-auspex-sunos${UNAME_RELEASE}
    exit 0 ;;
# The situation for MiNT is a little confusing.  The machine name
# can be virtually everything (everything which is not
# "atarist" or "atariste" at least should have a processor
# > m68000).  The system name ranges from "MiNT" over "FreeMiNT"
# to the lowercase version "mint" (or "freemint").  Finally
# the system name "TOS" denotes a system which is actually not
# MiNT.  But MiNT is downward compatible to TOS, so this should
# be no problem.
atarist[e]:*MiNT:*:* | atarist[e]:*mint:*:* | atarist[e]:*TOS:*:*)
    echo m68k-atari-mint${UNAME_RELEASE}
    exit 0 ;;
atari*:*MiNT:*:* | atari*:*mint:*:* | atarist[e]:*TOS:*:*)
    echo m68k-atari-mint${UNAME_RELEASE}
    exit 0 ;;
*falcon*:*MiNT:*:* | *falcon*:*mint:*:* | *falcon*:*TOS:*:*)
    echo m68k-atari-mint${UNAME_RELEASE}
    exit 0 ;;
milan*:*MiNT:*:* | milan*:*mint:*:* | *milan*:*TOS:*:*)
    echo m68k-milan-mint${UNAME_RELEASE}
    exit 0 ;;
hades*:*MiNT:*:* | hades*:*mint:*:* | *hades*:*TOS:*:*)
    echo m68k-hades-mint${UNAME_RELEASE}
    exit 0 ;;
*:*MiNT:*:* | *:*mint:*:* | *:*TOS:*:*)
    echo m68k-unknown-mint${UNAME_RELEASE}
    exit 0 ;;
powerpc:machten:*:*)
    echo powerpc-apple-machten${UNAME_RELEASE}
    exit 0 ;;
RISC*:Mach:*:*)
    echo mips-dec-mach_bsd4.3
    exit 0 ;;
RISC*:ULTRIX:*:*)
    echo mips-dec-ultrix${UNAME_RELEASE}
    exit 0 ;;
VAX*:ULTRIX*:*:*)
    echo vax-dec-ultrix${UNAME_RELEASE}
    exit 0 ;;
2020:CLIX:*:* | 2430:CLIX:*:*)
    echo clipper-intergraph-clix${UNAME_RELEASE}
    exit 0 ;;
mips:*:*:UMIPS | mips:*:*:RISCos)
    eval $set_cc_for_build
    sed 's/^_ //' << EOF >$dummy.c
#endif __cplusplus
#include <stdio.h> /* for printf() prototype */
int main (int argc, char *argv[]) {
#else
int main (argc, argv) int argc; char *argv[]; {

```

```

#endif
    #if defined (host_mips) && defined (MIPSEB)
    #if defined (SYSTYPE_SYSV)
        printf ("mips-mips-riscos%ssysv\n", argv[1]); exit (0);
    #endif
    #if defined (SYSTYPE_SVR4)
        printf ("mips-mips-riscos%ssvr4\n", argv[1]); exit (0);
    #endif
    #if defined (SYSTYPE_BSD43) || defined(SYSTYPE_BSD)
        printf ("mips-mips-riscos%bsbd\n", argv[1]); exit (0);
    #endif
    #endif
    exit (-1);
}
EOF
    $CC_FOR_BUILD -o $dummy $dummy.c \
    && $dummy `echo "${UNAME_RELEASE}" | sed -n 's/\([0-9]*\).*\/\1/p'` \
    && exit 0
    echo mips-mips-riscos${UNAME_RELEASE}
    exit 0 ;;
Motorola:PowerMAX_OS:*)
    echo powerpc-motorola-powermax
    exit 0 ;;
Motorola:*:4.3:PL8-*)
    echo powerpc-harris-powermax
    exit 0 ;;
Night_Hawk:*:*:PowerMAX_OS | Synergy:PowerMAX_OS:*)
    echo powerpc-harris-powermax
    exit 0 ;;
Night_Hawk:Power_UNIX:*)
    echo powerpc-harris-powerunix
    exit 0 ;;
m88k:CX/UX:7:*)
    echo m88k-harris-cxux7
    exit 0 ;;
m88k:*:4*:R4*)
    echo m88k-motorola-sysv4
    exit 0 ;;
m88k:*:3*:R3*)
    echo m88k-motorola-sysv3
    exit 0 ;;
AViiON:dgux:*)
    # DG/UX returns AViiON for all architectures
    UNAME_PROCESSOR=`/usr/bin/uname -p`
    if [ $UNAME_PROCESSOR = mc88100 ] || [ $UNAME_PROCESSOR = mc88110 ]
    then
        if [ ${TARGET_BINARY_INTERFACE}x = m88kdguxelfx ] || \
        [ ${TARGET_BINARY_INTERFACE}x = x ]
        then
            echo m88k-dg-dgux${UNAME_RELEASE}
        else
            echo m88k-dg-dguxbcs${UNAME_RELEASE}
        fi
    fi

```

```

else
    echo i586-dg-dgux${UNAME_RELEASE}
fi
exit 0 ;;
M88*:DolphinOS:*:*)      # DolphinOS (SVR3)
    echo m88k-dolphin-sysv3
    exit 0 ;;
M88*:*:R3*:*:*)
    # Delta 88k system running SVR3
    echo m88k-motorola-sysv3
    exit 0 ;;
XD88*:*:*:*:*) # Tektronix XD88 system running UTekV (SVR3)
    echo m88k-tektronix-sysv3
    exit 0 ;;
Tek43[0-9][0-9]:UTek:*:*) # Tektronix 4300 system running UTek (BSD)
    echo m68k-tektronix-bsd
    exit 0 ;;
*:IRIX*:*:*:*)
    echo mips-sgi-irix`echo ${UNAME_RELEASE}|sed -e 's/-/_/g`
    exit 0 ;;
?????????:AIX?:[12].1:2) # AIX 2.2.1 or AIX 2.1.1 is RT/PC AIX.
    echo romp-ibm-aix      # uname -m gives an 8 hex-code CPU id
    exit 0 ;;              # Note that: echo "`uname -s`" gives 'AIX

i*86:AIX:*:*:*)
    echo i386-ibm-aix
    exit 0 ;;
ia64:AIX:*:*:*)
    if [ -x /usr/bin/oslevel ] ; then
        IBM_REV=`/usr/bin/oslevel`
    else
        IBM_REV=${UNAME_VERSION}.${UNAME_RELEASE}
    fi
    echo ${UNAME_MACHINE}-ibm-aix${IBM_REV}
    exit 0 ;;
*:AIX:2:3)
    if grep bos325 /usr/include/stdio.h >/dev/null 2>&1; then
        eval $set_cc_for_build
        sed 's/^          //' << EOF >$dummy.c
        #include <sys/systemcfg.h>

        main()
        {
            if (!__power_pc())
                exit(1);
            puts("powerpc-ibm-aix3.2.5");
            exit(0);
        }

EOF
        $CC_FOR_BUILD -o $dummy $dummy.c && $dummy && exit 0
        echo rs6000-ibm-aix3.2.5
    elif grep bos324 /usr/include/stdio.h >/dev/null 2>&1; then
        echo rs6000-ibm-aix3.2.4
    else

```

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        echo rs6000-ibm-aix3.2
    fi
    exit 0 ;;
*:AIX:*: [45])
    IBM_CPU_ID=`/usr/sbin/lsdev -C -c processor -S available | sed 1q |
awk '{ print $1 }'`
    if /usr/sbin/lsattr -El ${IBM_CPU_ID} | grep ' POWER' >/dev/null
2>&1; then
        IBM_ARCH=rs6000
    else
        IBM_ARCH=powerpc
    fi
    if [ -x /usr/bin/oslevel ] ; then
        IBM_REV=`/usr/bin/oslevel`
    else
        IBM_REV=${UNAME_VERSION}.${UNAME_RELEASE}
    fi
    echo ${IBM_ARCH}-ibm-aix${IBM_REV}
    exit 0 ;;
*:AIX:*:*)
    echo rs6000-ibm-aix
    exit 0 ;;
ibmrt:4.4BSD:*|romp-ibm:BSD:*)
    echo romp-ibm-bsd4.4
    exit 0 ;;
ibmrt:*BSD:*|romp-ibm:BSD:*)
    echo romp-ibm-bsd${UNAME_RELEASE} # covers RT/PC BSD and
# 4.3 with uname added to
# report: romp-ibm BSD 4.3
    exit 0 ;;
*:BOSX:*:*)
    echo rs6000-bull-bosx
    exit 0 ;;
DPX/2?00:B.O.S.:*:*)
    echo m68k-bull-sysv3
    exit 0 ;;
9000/[34]?:?:4.3bsd:1.*:*)
    echo m68k-hp-bsd
    exit 0 ;;
hp300:4.4BSD:*:* | 9000/[34]?:?:4.3bsd:2.*:*)
    echo m68k-hp-bsd4.4
    exit 0 ;;
9000/[34678]?:?:HP-UX:*:*)
    HPUX_REV=`echo ${UNAME_RELEASE}|sed -e 's/[^.]*. [0B]*//'`
    case "${UNAME_MACHINE}" in
        9000/31? )
            HP_ARCH=m68000 ;;
        9000/[34]?? )
            HP_ARCH=m68k ;;
        9000/[678][0-9][0-9])
            if [ -x /usr/bin/getconf ]; then
                sc_cpu_version=`/usr/bin/getconf SC_CPU_VERSION
2>/dev/null`
                sc_kernel_bits=`/usr/bin/getconf SC_KERNEL_BITS
2>/dev/null`
            case "${sc_cpu_version}" in
                523) HP_ARCH="hppa1.0" ;; # CPU_PA_RISC1_0
                528) HP_ARCH="hppa1.1" ;; # CPU_PA_RISC1_1

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        532)                                # CPU_PA_RISC2_0
        case "${sc_kernel_bits}" in
            32) HP_ARCH="hppa2.0n" ;;
            64) HP_ARCH="hppa2.0w" ;;
        '') HP_ARCH="hppa2.0" ;; # HP-UX 10.20
        esac ;;
    esac
fi
if [ "${HP_ARCH}" = "" ]; then
    eval $set_cc_for_build
    sed 's/^                //' << EOF >$dummy.c

#define _HPUX_SOURCE
#include <stdlib.h>
#include <unistd.h>

int main ()
{
#if defined(_SC_KERNEL_BITS)
    long bits = sysconf(_SC_KERNEL_BITS);
#else
    long cpu = sysconf(_SC_CPU_VERSION);

    switch (cpu)
    {
        case CPU_PA_RISC1_0: puts ("hppa1.0"); break;
        case CPU_PA_RISC1_1: puts ("hppa1.1"); break;
        case CPU_PA_RISC2_0:
#if defined(_SC_KERNEL_BITS)
            switch (bits)
            {
                case 64: puts ("hppa2.0w"); break;
                case 32: puts ("hppa2.0n"); break;
                default: puts ("hppa2.0"); break;
            } break;
#else /* !defined(_SC_KERNEL_BITS) */
            puts ("hppa2.0"); break;
#endif
        default: puts ("hppa1.0"); break;
    }
    exit (0);
}
EOF
    (CCOPTS= $CC_FOR_BUILD -o $dummy $dummy.c 2>/dev/null) &&
    HP_ARCH=`$dummy`
    test -z "$HP_ARCH" && HP_ARCH=hppa
fi ;;
esac
if [ ${HP_ARCH} = "hppa2.0w" ]
then
    # avoid double evaluation of $set_cc_for_build
    test -n "$CC_FOR_BUILD" || eval $set_cc_for_build
    if echo __LP64__ | (CCOPTS= $CC_FOR_BUILD -E -) | grep __LP64__
    >/dev/null

```



```

        then
            HP_ARCH="hppa2.0w"
        else
            HP_ARCH="hppa64"
        fi

    fi
    echo ${HP_ARCH}-hp-hpux${HPUX_REV}
    exit 0 ;;
ia64:HP-UX:*:*)
    HPUX_REV=`echo ${UNAME_RELEASE}|sed -e 's/[^.]*.[0B]*//'\`
    echo ia64-hp-hpux${HPUX_REV}
    exit 0 ;;
3050*:HI-UX:*:*)
    eval $set_cc_for_build
    sed 's/^_ //' << EOF >$dummy.c
#include <unistd.h>
int
main ()
{
    long cpu = sysconf (_SC_CPU_VERSION);
    /* The order matters, because CPU_IS_HP_MC68K erroneously returns
       true for CPU_PA_RISC1_0. CPU_IS_PA_RISC returns correct
       results, however. */
    if (CPU_IS_PA_RISC (cpu))
    {
        switch (cpu)
        {
            case CPU_PA_RISC1_0: puts ("hppa1.0-hitachi-hiuxwe2");
break;
            case CPU_PA_RISC1_1: puts ("hppa1.1-hitachi-hiuxwe2");
break;
            case CPU_PA_RISC2_0: puts ("hppa2.0-hitachi-hiuxwe2");
break;
            default: puts ("hppa-hitachi-hiuxwe2"); break;
        }
    }
    else if (CPU_IS_HP_MC68K (cpu))
        puts ("m68k-hitachi-hiuxwe2");
    else puts ("unknown-hitachi-hiuxwe2");
    exit (0);
}
EOF
$CC_FOR_BUILD -o $dummy $dummy.c && $dummy && exit 0
echo unknown-hitachi-hiuxwe2
exit 0 ;;
9000/7???:4.3bsd:*:* | 9000/8?[79]:4.3bsd:*:* )
    echo hppa1.1-hp-bsd
    exit 0 ;;
9000/8???:4.3bsd:*:*)
    echo hppa1.0-hp-bsd
    exit 0 ;;
*9???:MPE/iX:*:* | *3000*:MPE/iX:*:*)
    echo hppa1.0-hp-mpeix
    exit 0 ;;

```

```

hp7?:OSF1:*:* | hp8?[79]:OSF1:*:* )
    echo hppal.1-hp-osf
    exit 0 ;;
hp8?:OSF1:*:*)
    echo hppal.0-hp-osf
    exit 0 ;;
i*86:OSF1:*:*)
    if [ -x /usr/sbin/sysversion ] ; then
        echo ${UNAME_MACHINE}-unknown-osflmk
    else
        echo ${UNAME_MACHINE}-unknown-osfl
    fi
    exit 0 ;;
parisc*:Lites*:*:*)
    echo hppal.1-hp-lites
    exit 0 ;;
C1*:ConvexOS:*:* | convex:ConvexOS:C1*:* )
    echo c1-convex-bsd
    exit 0 ;;
C2*:ConvexOS:*:* | convex:ConvexOS:C2*:* )
    if getsysinfo -f scalar_acc
    then echo c32-convex-bsd
    else echo c2-convex-bsd
    fi
    exit 0 ;;
C34*:ConvexOS:*:* | convex:ConvexOS:C34*:* )
    echo c34-convex-bsd
    exit 0 ;;
C38*:ConvexOS:*:* | convex:ConvexOS:C38*:* )
    echo c38-convex-bsd
    exit 0 ;;
C4*:ConvexOS:*:* | convex:ConvexOS:C4*:* )
    echo c4-convex-bsd
    exit 0 ;;
CRAY*Y-MP:*:*:*)
    echo ymp-cray-unicos${UNAME_RELEASE} | sed -e 's/\.[^.]*/.X/'
    exit 0 ;;
CRAY*[A-Z]90:*:*:*)
    echo ${UNAME_MACHINE}-cray-unicos${UNAME_RELEASE} \
    | sed -e 's/CRAY.*\([A-Z]90\)/\1/' \
        -e y/ABCDEFGHIJKLMNOPQRSTUVWXYZ/abcdefghijklmnopqrstuvwxyz/ \
        -e 's/\.[^.]*/.X/'
    exit 0 ;;
CRAY*TS:*:*:*)
    echo t90-cray-unicos${UNAME_RELEASE} | sed -e 's/\.[^.]*/.X/'
    exit 0 ;;
CRAY*T3E:*:*:*)
    echo alphaev5-cray-unicosmk${UNAME_RELEASE} | sed -e
's/\.[^.]*/.X/'
    exit 0 ;;
CRAY*SV1:*:*:*)
    echo sv1-cray-unicos${UNAME_RELEASE} | sed -e 's/\.[^.]*/.X/'
    exit 0 ;;
*:UNICOS/mp:*:* )

```

```

    echo nv1-cray-unicosmp${UNAME_RELEASE} | sed -e 's/\.[^\.]*$/./X/'
    exit 0 ;;
F30[01]:UNIX_System_V:*:* | F700:UNIX_System_V:*:*)
    FUJITSU_PROC=`uname -m | tr 'ABCDEFGHIJKLMNOPQRSTUVWXYZ'
'abcdefghijklmnopqrstuvwxy'`
    FUJITSU_SYS=`uname -p | tr 'ABCDEFGHIJKLMNOPQRSTUVWXYZ'
'abcdefghijklmnopqrstuvwxy' | sed -e 's/\/\//'\`
    FUJITSU_REL=`echo ${UNAME_RELEASE} | sed -e 's/\/\//'\`
    echo "${FUJITSU_PROC}-fujitsu-${FUJITSU_SYS}${FUJITSU_REL}"
    exit 0 ;;
i*86:BSD/386:*:* | i*86:BSD/OS:*:* | *:Ascend\ Embedded/OS:*:*)
    echo ${UNAME_MACHINE}-pc-bsdi${UNAME_RELEASE}
    exit 0 ;;
sparc*:BSD/OS:*:*)
    echo sparc-unknown-bsdi${UNAME_RELEASE}
    exit 0 ;;
*:BSD/OS:*:*)
    echo ${UNAME_MACHINE}-unknown-bsdi${UNAME_RELEASE}
    exit 0 ;;
*:FreeBSD:*:*|*:GNU/FreeBSD:*:*)
    # Determine whether the default compiler uses glibc.
    eval `set_cc_for_build
sed 's/^ //'\` << EOF >$dummy.c
#include <features.h>
#if __GLIBC__ >= 2
LIBC=gnu
#else
LIBC=
#endif
EOF
    eval `set_cc_for_build -E $dummy.c 2>/dev/null | grep ^LIBC=`
    echo ${UNAME_MACHINE}-unknown-freebsd`echo ${UNAME_RELEASE}|sed -e
's/[-(].*//'\`${LIBC:+-$LIBC}
    exit 0 ;;
i*:CYGWIN:*:*)
    echo ${UNAME_MACHINE}-pc-cygwin
    exit 0 ;;
i*:MINGW:*:*)
    echo ${UNAME_MACHINE}-pc-mingw32
    exit 0 ;;
i*:PW:*:*)
    echo ${UNAME_MACHINE}-pc-pw32
    exit 0 ;;
x86:Interix*:[34]*)
    echo i586-pc-interix${UNAME_RELEASE}|sed -e 's/\..*//'\`
    exit 0 ;;
[345]86:Windows_95:* | [345]86:Windows_98:* | [345]86:Windows_NT:*:*)
    echo i${UNAME_MACHINE}-pc-mks
    exit 0 ;;
i*:Windows_NT:*:* | Pentium*:Windows_NT*:*:*)
    # How do we know it's Interix rather than the generic POSIX
subsystem?
    # It also conflicts with pre-2.0 versions of AT&T UWIN. Should we
    # UNAME_MACHINE based on the output of uname instead of i386?

```

```

    echo i586-pc-interix
    exit 0 ;;
i*:UWIN*:*)
    echo ${UNAME_MACHINE}-pc-uwin
    exit 0 ;;
p*:CYGWIN*:*)
    echo powerpcle-unknown-cygwin
    exit 0 ;;
prep*:SunOS:5.*:*)
    echo powerpcle-unknown-solaris2`echo ${UNAME_RELEASE}|sed -e
's/[^.]*/`
    exit 0 ;;
*:GNU*:*)
    echo `echo ${UNAME_MACHINE}|sed -e 's,[-/].*$,,`-unknown-gnu`echo
${UNAME_RELEASE}|sed -e 's,/.*$,,`
    exit 0 ;;
i*86:Minix*:*)
    echo ${UNAME_MACHINE}-pc-minix
    exit 0 ;;
arm*:Linux*:*)
    echo ${UNAME_MACHINE}-unknown-linux-gnu
    exit 0 ;;
cris:Linux*:*)
    echo cris-axis-linux-gnu
    exit 0 ;;
ia64:Linux*:*)
    echo ${UNAME_MACHINE}-${VENDOR:-unknown}-linux-gnu
    exit 0 ;;
m68*:Linux*:*)
    echo ${UNAME_MACHINE}-unknown-linux-gnu
    exit 0 ;;
mips:Linux*:*)
    eval $set_cc_for_build
    sed 's/^ // ' << EOF >$dummy.c
    #undef CPU
    #undef mips
    #undef mipsel
    #if defined(__MIPSEL__) || defined(__MIPSEL) || defined(_MIPSEL) ||
defined(MIPSEL)
    CPU=mipsel
    #else
    #if defined(__MIPSEB__) || defined(__MIPSEB) || defined(_MIPSEB) ||
defined(MIPSEB)
    CPU=mips
    #else
    CPU=
    #endif
    #endif
EOF
    eval `set_cc_for_build -E $dummy.c 2>/dev/null | grep ^CPU=`
    test x"${CPU}" != x && echo "${CPU}-unknown-linux-gnu" && exit 0
;;
mips64:Linux*:*)
    eval $set_cc_for_build

```

```

    sed 's/^    //' << EOF >$dummy.c
    #undef CPU
    #undef mips64
    #undef mips64el
    #if defined(__MIPSEL__) || defined(__MIPSEL) || defined(_MIPSEL) ||
defined(MIPSEL)
    CPU=mips64el
    #else
    #if defined(__MIPSEB__) || defined(__MIPSEB) || defined(_MIPSEB) ||
defined(MIPSEB)
    CPU=mips64
    #else
    CPU=
    #endif
    #endif
EOF
eval `\$CC_FOR_BUILD -E $dummy.c 2>/dev/null | grep ^CPU=`
test x"${CPU}" != x && echo "${CPU}-unknown-linux-gnu" && exit 0
;;
ppc:Linux:*:*)
echo powerpc-${VENDOR:-unknown}-linux-gnu
exit 0 ;;
ppc64:Linux:*:*)
echo powerpc64-${VENDOR:-unknown}-linux-gnu
exit 0 ;;
alpha:Linux:*:*)
case `sed -n '/^cpu model/s/^.*: \(.*/\1/p' < /proc/cpuinfo` in
    EV5)    UNAME_MACHINE=alphaev5 ;;
    EV56)   UNAME_MACHINE=alphaev56 ;;
    PCA56)  UNAME_MACHINE=alphapca56 ;;
    PCA57)  UNAME_MACHINE=alphapca56 ;;
    EV6)    UNAME_MACHINE=alphaev6 ;;
    EV67)   UNAME_MACHINE=alphaev67 ;;
    EV68*)  UNAME_MACHINE=alphaev68 ;;
    esac
objdump --private-headers /bin/sh | grep ld.so.1 >/dev/null
if test "$?" = 0 ; then LIBC="libc1" ; else LIBC="" ; fi
echo ${UNAME_MACHINE}-unknown-linux-gnu${LIBC}
exit 0 ;;
parisc:Linux:*:* | hppa:Linux:*:*)
# Look for CPU level
case `grep '^cpu[^\a-z]*:' /proc/cpuinfo 2>/dev/null | cut -d' ' -
f2` in
    PA7*)  echo hppa1.1-unknown-linux-gnu ;;
    PA8*)  echo hppa2.0-unknown-linux-gnu ;;
    *)     echo hppa-unknown-linux-gnu ;;
    esac
exit 0 ;;
parisc64:Linux:*:* | hppa64:Linux:*:*)
echo hppa64-unknown-linux-gnu
exit 0 ;;
s390:Linux:*:* | s390x:Linux:*:*)
echo ${UNAME_MACHINE}-${VENDOR:-ibm}-linux-gnu
exit 0 ;;

```

```

sh64*:Linux:*:*)
    echo ${UNAME_MACHINE}-unknown-linux-gnu
    exit 0 ;;
sh*:Linux:*:*)
    echo ${UNAME_MACHINE}-unknown-linux-gnu
    exit 0 ;;
sparc:Linux:*:* | sparc64:Linux:*:*)
    echo ${UNAME_MACHINE}-unknown-linux-gnu
    exit 0 ;;
x86_64:Linux:*:*)
    echo x86_64-${VENDOR:-unknown}-linux-gnu
    exit 0 ;;
i*86:Linux:*:*)
    # The BFD linker knows what the default object file format is, so
    # first see if it will tell us. cd to the root directory to prevent
    # problems with other programs or directories called `ld' in the
path.
    # Set LC_ALL=C to ensure ld outputs messages in English.
    ld_supported_targets=`cd /; LC_ALL=C ld --help 2>&1 \
        | sed -ne '/supported targets:!/d
            s/[ ][ ]*/ /g
            s/.*supported targets: *//
            s/ .*//
            p'`
    case "$ld_supported_targets" in
elf32-i386)
        TENTATIVE="${UNAME_MACHINE}-pc-linux-gnu"
        ;;
a.out-i386-linux)
    echo "${UNAME_MACHINE}-pc-linux-gnuaout"
    exit 0 ;;
coff-i386)
    echo "${UNAME_MACHINE}-pc-linux-gnucoff"
    exit 0 ;;
"")
    # Either a pre-BFD a.out linker (linux-gnuoldld) or
    # one that does not give us useful --help.
    echo "${UNAME_MACHINE}-pc-linux-gnuoldld"
    exit 0 ;;
esac
# Determine whether the default compiler is a.out or elf
eval $set_cc_for_build
sed 's/^_//<' << EOF >$dummy.c
#include <features.h>
#ifdef __ELF__
# ifdef __GLIBC__
# if __GLIBC__ >= 2
LIBC=gnu
# else
LIBC=gnulibc1
# endif
# else
LIBC=gnulibc1
# endif

```

```

#else
#ifdef __INTEL_COMPILER
LIBC=gnu
#else
LIBC=gnaout
#endif
#endif
EOF
eval `\$CC_FOR_BUILD -E $dummy.c 2>/dev/null | grep ^LIBC=`
test x"${LIBC}" != x && echo "${UNAME_MACHINE}-${VENDOR:-pc}-linux-${LIBC}" && exit 0
test x"${TENTATIVE}" != x && echo "${TENTATIVE}" && exit 0
;;
i*86:DYNIX/ptx:4*:*)
# ptx 4.0 does uname -s correctly, with DYNIX/ptx in there.
# earlier versions are messed up and put the nodename in both
# sysname and nodename.
echo i386-sequent-sysv4
exit 0 ;;
i*86:UNIX_SV:4.2MP:2.*)
# Unixware is an offshoot of SVR4, but it has its own version
# number series starting with 2...
# I am not positive that other SVR4 systems won't match this,
# I just have to hope. -- rms.
# Use sysv4.2uw... so that sysv4* matches it.
echo ${UNAME_MACHINE}-pc-sysv4.2uw${UNAME_VERSION}
exit 0 ;;
i*86:OS/2*:*)
# If we were able to find `uname', then EMX Unix compatibility
# is probably installed.
echo ${UNAME_MACHINE}-pc-os2-emx
exit 0 ;;
i*86:XTS-300*:STOP)
echo ${UNAME_MACHINE}-unknown-stop
exit 0 ;;
i*86:atheos*:*)
echo ${UNAME_MACHINE}-unknown-atheos
exit 0 ;;
i*86:LynxOS:2.*:* | i*86:LynxOS:3.[01]*:* | i*86:LynxOS:4.0*:*)
echo i386-unknown-lynxos${UNAME_RELEASE}
exit 0 ;;
i*86:*DOS*:*)
echo ${UNAME_MACHINE}-pc-msdosdjgpp
exit 0 ;;
i*86*:4.*:* | i*86:SYSTEM_V:4.*:*)
UNAME_REL=`echo ${UNAME_RELEASE} | sed 's/\/MP$/\/'`
if grep Novell /usr/include/link.h >/dev/null 2>/dev/null; then
echo ${UNAME_MACHINE}-univel-sysv${UNAME_REL}
else
echo ${UNAME_MACHINE}-pc-sysv${UNAME_REL}
fi
exit 0 ;;
i*86*:5:[78]*)
case `bin/uname -X | grep "^Machine"` in

```

```

        *486*)          UNAME_MACHINE=i486 ;;
        *Pentium)      UNAME_MACHINE=i586 ;;
        *Pent*|*Celeron) UNAME_MACHINE=i686 ;;
    esac
    echo ${UNAME_MACHINE}-unknown-
sysv${UNAME_RELEASE}${UNAME_SYSTEM}${UNAME_VERSION}
    exit 0 ;;
i*86:*:3.2:*)
    if test -f /usr/options/cb.name; then
        UNAME_REL=`sed -n 's/. *Version //p' </usr/options/cb.name`
        echo ${UNAME_MACHINE}-pc-isc$UNAME_REL
    elif /bin/uname -X 2>/dev/null >/dev/null ; then
        UNAME_REL=`(/bin/uname -X|grep Release|sed -e 's/.*= //' )`
        (/bin/uname -X|grep i80486 >/dev/null) && UNAME_MACHINE=i486
        (/bin/uname -X|grep '^Machine.*Pentium' >/dev/null) \
            && UNAME_MACHINE=i586
        (/bin/uname -X|grep '^Machine.*Pent *II' >/dev/null) \
            && UNAME_MACHINE=i686
        (/bin/uname -X|grep '^Machine.*Pentium Pro' >/dev/null) \
            && UNAME_MACHINE=i686
        echo ${UNAME_MACHINE}-pc-sco$UNAME_REL
    else
        echo ${UNAME_MACHINE}-pc-sysv32
    fi
    exit 0 ;;
pc:*:*:*)
    # Left here for compatibility:
    # uname -m prints for DJGPP always 'pc', but it prints nothing
about
    # the processor, so we play safe by assuming i386.
    echo i386-pc-msdosdjgpp
    exit 0 ;;
Intel:Mach:3*:*)
    echo i386-pc-mach3
    exit 0 ;;
paragon:*:*:*)
    echo i860-intel-osf1
    exit 0 ;;
i860:*:4.*:*) # i860-SVR4
    if grep Stardent /usr/include/sys/uadmin.h >/dev/null 2>&1 ; then
        echo i860-stardent-sysv${UNAME_RELEASE} # Stardent Vistra i860-
SVR4
    else # Add other i860-SVR4 vendors below as they are discovered.
        echo i860-unknown-sysv${UNAME_RELEASE} # Unknown i860-SVR4
    fi
    exit 0 ;;
mini*:CTIX:SYS*5:*)
    # "miniframe"
    echo m68010-convergent-sysv
    exit 0 ;;
mc68k:UNIX:SYSTEM5:3.51m)
    echo m68k-convergent-sysv
    exit 0 ;;
M680?0:D-NIX:5.3:*)

```



```

    echo m68k-diab-dnix
    exit 0 ;;
M68*:*:R3V[567]*:*)
    test -r /sysV68 && echo 'm68k-motorola-sysv' && exit 0 ;;
3[34]??:*:4.0:3.0 | 3[34]??A:*:4.0:3.0 | 3[34]??,*:*:4.0:3.0 |
3[34]??/*:*:4.0:3.0 | 4400:*:4.0:3.0 | 4850:*:4.0:3.0 | SKA40:*:4.0:3.0 |
SDS2:*:4.0:3.0 | SHG2:*:4.0:3.0)
    OS_REL=''
    test -r /etc/.relid \
    && OS_REL=`sed -n 's/[^ ]* [^ ]* \([0-9][0-9]\)\.*/\1/p' <
/etc/.relid`
    /bin/uname -p 2>/dev/null | grep 86 >/dev/null \
    && echo i486-ncr-sysv4.3${OS_REL} && exit 0
    /bin/uname -p 2>/dev/null | /bin/grep entium >/dev/null \
    && echo i586-ncr-sysv4.3${OS_REL} && exit 0 ;;
3[34]??:*:4.0:* | 3[34]??,*:*:4.0:*)
    /bin/uname -p 2>/dev/null | grep 86 >/dev/null \
    && echo i486-ncr-sysv4 && exit 0 ;;
m68*:LynxOS:2.*:* | m68*:LynxOS:3.0*:* *)
    echo m68k-unknown-lynxos${UNAME_RELEASE}
    exit 0 ;;
mc68030:UNIX_System_V:4.*:*)
    echo m68k-atari-sysv4
    exit 0 ;;
TSUNAMI:LynxOS:2.*:*)
    echo sparc-unknown-lynxos${UNAME_RELEASE}
    exit 0 ;;
rs6000:LynxOS:2.*:*)
    echo rs6000-unknown-lynxos${UNAME_RELEASE}
    exit 0 ;;
PowerPC:LynxOS:2.*:* | PowerPC:LynxOS:3.[01]*:* |
PowerPC:LynxOS:4.0*:* *)
    echo powerpc-unknown-lynxos${UNAME_RELEASE}
    exit 0 ;;
SM[BE]S:UNIX_SV:*:*)
    echo mips-dde-sysv${UNAME_RELEASE}
    exit 0 ;;
RM*:ReliantUNIX-*:*:*)
    echo mips-sni-sysv4
    exit 0 ;;
RM*:SINIX-*:*:*)
    echo mips-sni-sysv4
    exit 0 ;;
*:SINIX-*:*:*)
    if uname -p 2>/dev/null >/dev/null ; then
        UNAME_MACHINE=`(uname -p) 2>/dev/null`
        echo ${UNAME_MACHINE}-sni-sysv4
    else
        echo ns32k-sni-sysv
    fi
    exit 0 ;;
PENTIUM:*:4.0*:* *) # Unisys `ClearPath HMP IX 4000' SVR4/MP effort
                    # says <Richard.M.Bartel@ccMail.Census.GOV>
    echo i586-unisys-sysv4

```

```

        exit 0 ;;
*:UNIX_System_V:4*:FTX*)
    # From Gerald Hewes <hewes@openmarket.com>.
    # How about differentiating between stratus architectures? -djm
    echo hppal.1-stratus-sysv4
    exit 0 ;;
*:*:*:FTX*)
    # From seanf@swdc.stratus.com.
    echo i860-stratus-sysv4
    exit 0 ;;
*:VOS:*:*)
    # From Paul.Green@stratus.com.
    echo hppal.1-stratus-vos
    exit 0 ;;
mc68*:A/UX:*:*)
    echo m68k-apple-aux${UNAME_RELEASE}
    exit 0 ;;
news*:NEWS-OS:6*:*)
    echo mips-sony-newsos6
    exit 0 ;;
R[34]000:*System_V*:*:* | R4000:UNIX_SYSV*:*:* | R*000:UNIX_SV*:*:*)
    if [ -d /usr/nec ]; then
        echo mips-nec-sysv${UNAME_RELEASE}
    else
        echo mips-unknown-sysv${UNAME_RELEASE}
    fi
    exit 0 ;;
BeBox:BeOS:*:*)    # BeOS running on hardware made by Be, PPC only.
    echo powerpc-be-beos
    exit 0 ;;
BeMac:BeOS:*:*)    # BeOS running on Mac or Mac clone, PPC only.
    echo powerpc-apple-beos
    exit 0 ;;
BePC:BeOS:*:*)    # BeOS running on Intel PC compatible.
    echo i586-pc-beos
    exit 0 ;;
SX-4:SUPER-UX:*:*)
    echo sx4-nec-superux${UNAME_RELEASE}
    exit 0 ;;
SX-5:SUPER-UX:*:*)
    echo sx5-nec-superux${UNAME_RELEASE}
    exit 0 ;;
SX-6:SUPER-UX:*:*)
    echo sx6-nec-superux${UNAME_RELEASE}
    exit 0 ;;
Power*:Rhapsody:*:*)
    echo powerpc-apple-rhapsody${UNAME_RELEASE}
    exit 0 ;;
*:Rhapsody:*:*)
    echo ${UNAME_MACHINE}-apple-rhapsody${UNAME_RELEASE}
    exit 0 ;;
*:Darwin:*:*)
    case `uname -p` in
        *86) UNAME_PROCESSOR=i686 ;;

```

```

        powerpc) UNAME_PROCESSOR=powerpc ;;
    esac
    echo ${UNAME_PROCESSOR}-apple-darwin${UNAME_RELEASE}
    exit 0 ;;
*:procnto*:*:* | *:QNX:[0123456789]*:*)
    UNAME_PROCESSOR=`uname -p`
    if test "$UNAME_PROCESSOR" = "x86"; then
        UNAME_PROCESSOR=i386
        UNAME_MACHINE=pc
    fi
    echo ${UNAME_PROCESSOR}-${UNAME_MACHINE}-nto-qnx${UNAME_RELEASE}
    exit 0 ;;
*:QNX:*:4*)
    echo i386-pc-qnx
    exit 0 ;;
NSR-[DGKLNPTVW]:NONSTOP_KERNEL:*:*)
    echo nsr-tandem-nsk${UNAME_RELEASE}
    exit 0 ;;
*:NonStop-UX:*:*)
    echo mips-compaq-nonstopux
    exit 0 ;;
BS2000:POSIX*:*:*)
    echo bs2000-siemens-sysv
    exit 0 ;;
DS/*:UNIX_System_V:*:*)
    echo ${UNAME_MACHINE}-${UNAME_SYSTEM}-${UNAME_RELEASE}
    exit 0 ;;
*:Plan9:*:*)
    # "uname -m" is not consistent, so use $cputype instead. 386
    # is converted to i386 for consistency with other x86
    # operating systems.
    if test "$cputype" = "386"; then
        UNAME_MACHINE=i386
    else
        UNAME_MACHINE="$cputype"
    fi
    echo ${UNAME_MACHINE}-unknown-plan9
    exit 0 ;;
*:TOPS-10:*:*)
    echo pdp10-unknown-tops10
    exit 0 ;;
*:TENEX:*:*)
    echo pdp10-unknown-tenex
    exit 0 ;;
KS10:TOPS-20:*:* | KL10:TOPS-20:*:* | TYPE4:TOPS-20:*:*)
    echo pdp10-dec-tops20
    exit 0 ;;
XKL-1:TOPS-20:*:* | TYPE5:TOPS-20:*:*)
    echo pdp10-xkl-tops20
    exit 0 ;;
*:TOPS-20:*:*)
    echo pdp10-unknown-tops20
    exit 0 ;;
*:ITS:*:*)

```

```

        echo pdp10-unknown-its
        exit 0 ;;
    SEI:*:*:SEIUX)
        echo mips-sei-seiux${UNAME_RELEASE}
        exit 0 ;;
esac

#echo '(No uname command or uname output not recognized.)' 1>&2
#echo
"${UNAME_MACHINE}:${UNAME_SYSTEM}:${UNAME_RELEASE}:${UNAME_VERSION}" 1>&2

eval $set_cc_for_build
cat >$dummy.c <<EOF
#ifdef _SEQUENT_
# include <sys/types.h>
# include <sys/utsname.h>
#endif
main ()
{
#ifdef (sony)
#ifdef (MIPSEB)
    /* BFD wants "bsd" instead of "newsos".  Perhaps BFD should be changed,
       I don't know.... */
    printf ("mips-sony-bsd\n"); exit (0);
#else
#include <sys/param.h>
    printf ("m68k-sony-newsos%s\n",
#ifdef NEWSOS4
        "4"
#else
        ""
#endif
    ); exit (0);
#endif
#endif

#ifdef (__arm) && defined (__acorn) && defined (__unix)
    printf ("arm-acorn-riscix"); exit (0);
#endif

#ifdef (hp300) && !defined (hpux)
    printf ("m68k-hp-bsd\n"); exit (0);
#endif

#ifdef (NeXT)
#ifdef !defined (__ARCHITECTURE__)
#define __ARCHITECTURE__ "m68k"
#endif
    int version;
    version=`(hostinfo | sed -n 's/.*NeXT Mach \([0-9]*\)*/\1/p')
2>/dev/null`;
    if (version < 4)
        printf ("%s-next-nextstep%d\n", __ARCHITECTURE__, version);
    else

```

```

    printf ("%s-next-openstep%d\n", __ARCHITECTURE__, version);
    exit (0);
#endif

#if defined (MULTIMAX) || defined (n16)
#if defined (UMAXV)
    printf ("ns32k-encore-sysv\n"); exit (0);
#else
#if defined (CMU)
    printf ("ns32k-encore-mach\n"); exit (0);
#else
    printf ("ns32k-encore-bsd\n"); exit (0);
#endif
#endif
#endif
#endif

#if defined (__386BSD__)
    printf ("i386-pc-bsd\n"); exit (0);
#endif

#if defined (sequent)
#if defined (i386)
    printf ("i386-sequent-dynix\n"); exit (0);
#endif
#if defined (ns32000)
    printf ("ns32k-sequent-dynix\n"); exit (0);
#endif
#endif

#if defined (_SEQUENT_)
    struct utsname un;

    uname(&un);

    if (strncmp(un.version, "V2", 2) == 0) {
        printf ("i386-sequent-ptx2\n"); exit (0);
    }
    if (strncmp(un.version, "V1", 2) == 0) { /* XXX is V1 correct? */
        printf ("i386-sequent-ptx1\n"); exit (0);
    }
    printf ("i386-sequent-ptx\n"); exit (0);

#endif

#if defined (vax)
# if !defined (ultrix)
# include <sys/param.h>
# if defined (BSD)
#   if BSD == 43
        printf ("vax-dec-bsd4.3\n"); exit (0);
#   else
#   if BSD == 199006
        printf ("vax-dec-bsd4.3reno\n"); exit (0);
#   else

```

```

        printf ("vax-dec-bsd\n"); exit (0);
#   endif
#   endif
#   else
        printf ("vax-dec-bsd\n"); exit (0);
#   endif
#   else
        printf ("vax-dec-ultrix\n"); exit (0);
#   endif
#endif

#if defined (alliant) && defined (i860)
    printf ("i860-alliant-bsd\n"); exit (0);
#endif

    exit (1);
}
EOF

$CC_FOR_BUILD -o $dummy $dummy.c 2>/dev/null && $dummy && exit 0

# Apollos put the system type in the environment.

test -d /usr/apollo && { echo ${ISP}-apollo-${SYSTYPE}; exit 0; }

# Convex versions that predate uname can use getsysinfo(1)

if [ -x /usr/convex/getsysinfo ]
then
    case `getsysinfo -f cpu_type` in
    c1*)
        echo c1-convex-bsd
        exit 0 ;;
    c2*)
        if getsysinfo -f scalar_acc
        then echo c32-convex-bsd
        else echo c2-convex-bsd
        fi
        exit 0 ;;
    c34*)
        echo c34-convex-bsd
        exit 0 ;;
    c38*)
        echo c38-convex-bsd
        exit 0 ;;
    c4*)
        echo c4-convex-bsd
        exit 0 ;;
    esac
fi

cat >&2 <<EOF
$0: unable to guess system type

```

This script, last modified \$timestamp, has failed to recognize the operating system you are using. It is advised that you download the most up to date version of the config scripts from

```
ftp://ftp.gnu.org/pub/gnu/config/
```

If the version you run (\$0) is already up to date, please send the following data and any information you think might be pertinent to <config-patches@gnu.org> in order to provide the needed information to handle your system.

```
config.guess timestamp = $timestamp
```

```
uname -m = `(uname -m) 2>/dev/null || echo unknown`  
uname -r = `(uname -r) 2>/dev/null || echo unknown`  
uname -s = `(uname -s) 2>/dev/null || echo unknown`  
uname -v = `(uname -v) 2>/dev/null || echo unknown`
```

```
/usr/bin/uname -p = `(/usr/bin/uname -p) 2>/dev/null`  
/bin/uname -X      = `(/bin/uname -X) 2>/dev/null`
```

```
hostinfo          = `(hostinfo) 2>/dev/null`  
/bin/universe     = `(/bin/universe) 2>/dev/null`  
/usr/bin/arch -k  = `(/usr/bin/arch -k) 2>/dev/null`  
/bin/arch         = `(/bin/arch) 2>/dev/null`  
/usr/bin/oslevel  = `(/usr/bin/oslevel) 2>/dev/null`  
/usr/convex/getsysinfo = `(/usr/convex/getsysinfo) 2>/dev/null`
```

```
UNAME_MACHINE = ${UNAME_MACHINE}  
UNAME_RELEASE = ${UNAME_RELEASE}  
UNAME_SYSTEM  = ${UNAME_SYSTEM}  
UNAME_VERSION = ${UNAME_VERSION}  
EOF
```

```
exit 1
```

```
# Local variables:  
# eval: (add-hook 'write-file-hooks 'time-stamp)  
# time-stamp-start: "timestamp=" "  
# time-stamp-format: "%:y-%02m-%02d"  
# time-stamp-end: ""  
# End:
```

## **config.h.in**

```
/* config.h.in. Generated from configure.ac by autoheader. */
```

```
/* Define to 1 if you have the `bzero' function. */  
#undef HAVE_BZERO
```

```
/* Define to 1 if you have the <dirent.h> header file, and it defines  
`DIR'.  
*/
```

```

#undef HAVE_DIRENT_H

/* Define to 1 if you have the <dlfcn.h> header file. */
#undef HAVE_DLFCN_H

/* Define to 1 if you have the <fcntl.h> header file. */
#undef HAVE_FCNTL_H

/* Define to 1 if you have the <inttypes.h> header file. */
#undef HAVE_INTTYPES_H

/* Define to 1 if you have the `isascii' function. */
#undef HAVE_ISASCII

/* Define to 1 if `lstat' has the bug that it succeeds when given the
   zero-length file name argument. */
#undef HAVE_LSTAT_EMPTY_STRING_BUG

/* Define to 1 if your system has a GNU libc compatible `malloc'
   function, and
   to 0 otherwise. */
#undef HAVE_MALLOC

/* Define to 1 if you have the <malloc.h> header file. */
#undef HAVE_MALLOC_H

/* Define to 1 if you have the <memory.h> header file. */
#undef HAVE_MEMORY_H

/* Define to 1 if you have the `memset' function. */
#undef HAVE_MEMSET

/* Define to 1 if you have the <ndir.h> header file, and it defines
   `DIR'. */
#undef HAVE_NDIR_H

/* Define to 1 if `stat' has the bug that it succeeds when given the
   zero-length file name argument. */
#undef HAVE_STAT_EMPTY_STRING_BUG

/* Define to 1 if you have the <stdint.h> header file. */
#undef HAVE_STDINT_H

/* Define to 1 if you have the <stdlib.h> header file. */
#undef HAVE_STDLIB_H

/* Define to 1 if you have the `strchr' function. */
#undef HAVE_STRCHR

/* Define to 1 if you have the `strerror' function. */
#undef HAVE_STRERROR

/* Define to 1 if you have the <strings.h> header file. */
#undef HAVE_STRINGS_H

```



```

/* Define to 1 if you have the <string.h> header file. */
#undef HAVE_STRING_H

/* Define to 1 if you have the `strrchr' function. */
#undef HAVE_STRRCHR

/* Define to 1 if you have the `strstr' function. */
#undef HAVE_STRSTR

/* Define to 1 if you have the `strtol' function. */
#undef HAVE_STRTOL

/* Define to 1 if you have the <sys/dir.h> header file, and it defines
`DIR'.
*/
#undef HAVE_SYS_DIR_H

/* Define to 1 if you have the <sys/ndir.h> header file, and it defines
`DIR'.
*/
#undef HAVE_SYS_NDIR_H

/* Define to 1 if you have the <sys/stat.h> header file. */
#undef HAVE_SYS_STAT_H

/* Define to 1 if you have the <sys/types.h> header file. */
#undef HAVE_SYS_TYPES_H

/* Define to 1 if you have the <unistd.h> header file. */
#undef HAVE_UNISTD_H

/* Define to 1 if `lstat' dereferences a symlink specified with a
trailing
slash. */
#undef LSTAT_FOLLOWS_SLASHED_SYMLINK

/* Name of package */
#undef PACKAGE

/* Define to the address where bug reports for this package should be
sent. */
#undef PACKAGE_BUGREPORT

/* Define to the full name of this package. */
#undef PACKAGE_NAME

/* Define to the full name and version of this package. */
#undef PACKAGE_STRING

/* Define to the one symbol short name of this package. */
#undef PACKAGE_TARNAME

/* Define to the version of this package. */

```

```

#undef PACKAGE_VERSION

/* Define to 1 if you have the ANSI C header files. */
#undef STDC_HEADERS

/* Version number of package */
#undef VERSION

/* Define to empty if `const' does not conform to ANSI C. */
#undef const

/* Define to `__inline__' or `__inline' if that's what the C compiler
   calls it, or to nothing if 'inline' is not supported under any name.
*/
#ifdef __cplusplus
#undef inline
#endif

/* Define to rpl_malloc if the replacement function should be used. */
#undef malloc

/* Define to `unsigned' if <sys/types.h> does not define. */
#undef size_t

```

## **config.sub**

```

#! /bin/sh
# Configuration validation subroutine script.
# Copyright (C) 1992, 1993, 1994, 1995, 1996, 1997, 1998, 1999,
# 2000, 2001, 2002, 2003 Free Software Foundation, Inc.

timestamp='2003-06-18'

# This file is (in principle) common to ALL GNU software.
# The presence of a machine in this file suggests that SOME GNU software
# can handle that machine. It does not imply ALL GNU software can.
#
# This file is free software; you can redistribute it and/or modify
# it under the terms of the GNU General Public License as published by
# the Free Software Foundation; either version 2 of the License, or
# (at your option) any later version.
#
# This program is distributed in the hope that it will be useful,
# but WITHOUT ANY WARRANTY; without even the implied warranty of
# MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
# GNU General Public License for more details.
#
# You should have received a copy of the GNU General Public License
# along with this program; if not, write to the Free Software
# Foundation, Inc., 59 Temple Place - Suite 330,
# Boston, MA 02111-1307, USA.

# As a special exception to the GNU General Public License, if you

```

```

# distribute this file as part of a program that contains a
# configuration script generated by Autoconf, you may include it under
# the same distribution terms that you use for the rest of that program.

# Please send patches to <config-patches@gnu.org>.  Submit a context
# diff and a properly formatted ChangeLog entry.
#
# Configuration subroutine to validate and canonicalize a configuration
# type.
# Supply the specified configuration type as an argument.
# If it is invalid, we print an error message on stderr and exit with
# code 1.
# Otherwise, we print the canonical config type on stdout and succeed.

# This file is supposed to be the same for all GNU packages
# and recognize all the CPU types, system types and aliases
# that are meaningful with *any* GNU software.
# Each package is responsible for reporting which valid configurations
# it does not support.  The user should be able to distinguish
# a failure to support a valid configuration from a meaningless
# configuration.

# The goal of this file is to map all the various variations of a given
# machine specification into a single specification in the form:
#   CPU_TYPE-MANUFACTURER-OPERATING_SYSTEM
# or in some cases, the newer four-part form:
#   CPU_TYPE-MANUFACTURER-KERNEL-OPERATING_SYSTEM
# It is wrong to echo any other type of specification.

me=`echo "$0" | sed -e 's,./,,'`

usage="\
Usage: $0 [OPTION] CPU-MFR-OPSYS
       $0 [OPTION] ALIAS

Canonicalize a configuration name.

Operation modes:
  -h, --help          print this help, then exit
  -t, --time-stamp    print date of last modification, then exit
  -v, --version       print version number, then exit

Report bugs and patches to <config-patches@gnu.org>."

version="\
GNU config.sub ($timestamp)

Copyright (C) 1992, 1993, 1994, 1995, 1996, 1997, 1998, 1999, 2000, 2001
Free Software Foundation, Inc.

This is free software; see the source for copying conditions.  There is
NO
warranty; not even for MERCHANTABILITY or FITNESS FOR A PARTICULAR
PURPOSE."

```

```

help="
Try \`$me --help' for more information."

# Parse command line
while test $# -gt 0 ; do
  case $1 in
    --time-stamp | --time* | -t )
      echo "$timestamp" ; exit 0 ;;
    --version | -v )
      echo "$version" ; exit 0 ;;
    --help | --h* | -h )
      echo "$usage"; exit 0 ;;
    -- )          # Stop option processing
      shift; break ;;
    - )          # Use stdin as input.
      break ;;
    -* )
      echo "$me: invalid option $1$help"
      exit 1 ;;

    *local*)
      # First pass through any local machine types.
      echo $1
      exit 0;;

    * )
      break ;;
  esac
done

case $# in
  0) echo "$me: missing argument$help" >&2
     exit 1;;
  1) ;;
  *) echo "$me: too many arguments$help" >&2
     exit 1;;
esac

# Separate what the user gave into CPU-COMPANY and OS or KERNEL-OS (if
any).
# Here we must recognize all the valid KERNEL-OS combinations.
maybe_os=`echo $1 | sed 's/^\(.*\) -\([[^-]*-[[^-]*\)$/\2/'`
case $maybe_os in
  nto-qnx* | linux-gnu* | freebsd*-gnu* | netbsd*-gnu* | storm-chaos* |
os2-emx* | rtmk-nova*)
  os=-$maybe_os
  basic_machine=`echo $1 | sed 's/^\(.*\) -\([[^-]*-[[^-]*\)$/\1/'`
  ;;
  *)
  basic_machine=`echo $1 | sed 's/-[[^-]*$//'`
  if [ $basic_machine != $1 ]
  then os=`echo $1 | sed 's/.*-/-/'`
  else os=; fi

```

```

;;
esac

### Let's recognize common machines as not being operating systems so
### that things like config.sub decstation-3100 work. We also
### recognize some manufacturers as not being operating systems, so we
### can provide default operating systems below.
case $os in
  -sun*os*)
    # Prevent following clause from handling this invalid input.
    ;;
  -dec* | -mips* | -sequent* | -encore* | -pc532* | -sgi* | -sony* |
  \
  -att* | -7300* | -3300* | -delta* | -motorola* | -sun[234]* | \
  -unicom* | -ibm* | -next | -hp | -isi* | -apollo | -altos* | \
  -convergent* | -ncr* | -news | -32* | -3600* | -3100* | -hitachi*
  | \
  -c[123]* | -convex* | -sun | -crds | -omron* | -dg | -ultra | -tti*
  | \
  -harris | -dolphin | -highlevel | -gould | -cbm | -ns | -masscomp |
  \
  -apple | -axis)
    os=
    basic_machine=$1
    ;;
  -sim | -cisco | -oki | -wec | -winbond)
    os=
    basic_machine=$1
    ;;
  -scout)
    ;;
  -wrs)
    os=-vxworks
    basic_machine=$1
    ;;
  -chorusos*)
    os=-chorusos
    basic_machine=$1
    ;;
  -chorusrdb)
    os=-chorusrdb
    basic_machine=$1
    ;;
  -hiux*)
    os=-hiuxwe2
    ;;
  -sco5)
    os=-sco3.2v5
    basic_machine=`echo $1 | sed -e 's/86-./86-pc/'`
    ;;
  -sco4)
    os=-sco3.2v4
    basic_machine=`echo $1 | sed -e 's/86-./86-pc/'`
    ;;

```

```

-sco3.2.[4-9]*)
    os=`echo $os | sed -e 's/sco3.2./sco3.2v/'`
    basic_machine=`echo $1 | sed -e 's/86-./86-pc/'`
    ;;
-sco3.2v[4-9]*)
    # Don't forget version if it is 3.2v4 or newer.
    basic_machine=`echo $1 | sed -e 's/86-./86-pc/'`
    ;;
-sco*)
    os=-sco3.2v2
    basic_machine=`echo $1 | sed -e 's/86-./86-pc/'`
    ;;
-udk*)
    basic_machine=`echo $1 | sed -e 's/86-./86-pc/'`
    ;;
-isc)
    os=-isc2.2
    basic_machine=`echo $1 | sed -e 's/86-./86-pc/'`
    ;;
-clix*)
    basic_machine=clipper-intergraph
    ;;
-isc*)
    basic_machine=`echo $1 | sed -e 's/86-./86-pc/'`
    ;;
-lynx*)
    os=-lynxos
    ;;
-ptx*)
    basic_machine=`echo $1 | sed -e 's/86-./86-sequent/'`
    ;;
-windowsnt*)
    os=`echo $os | sed -e 's/windowsnt/winnt/'`
    ;;
-psos*)
    os=-psos
    ;;
-mint | -mint[0-9]*)
    basic_machine=m68k-atari
    os=-mint
    ;;
esac

# Decode aliases for certain CPU-COMPANY combinations.
case $basic_machine in
    # Recognize the basic CPU types without company name.
    # Some are omitted here because they have special meanings below.
    1750a | 580 \
    | a29k \
    | alpha | alphaev[4-8] | alphaev56 | alphaev6[78] | alphapca5[67] \
    | alpha64 | alpha64ev[4-8] | alpha64ev56 | alpha64ev6[78] |
alpha64pca5[67] \
    | arc | arm | arm[bl]e | arme[lb] | armv[2345] | armv[345][lb] |
avr \

```

```

| c4x | clipper \
| dl0v | d30v | dlx | dsp16xx \
| fr30 | frv \
| h8300 | h8500 | hppa | hppa1.[01] | hppa2.0 | hppa2.0[nw] |
hppa64 \
| i370 | i860 | i960 | ia64 \
| ip2k \
| m32r | m68000 | m68k | m88k | mcore \
| mips | mipsbe | mipseb | mipsel | mipsle \
| mips16 \
| mips64 | mips64el \
| mips64vr | mips64vrel \
| mips64orion | mips64orionel \
| mips64vr4100 | mips64vr4100el \
| mips64vr4300 | mips64vr4300el \
| mips64vr5000 | mips64vr5000el \
| mipsisa32 | mipsisa32el \
| mipsisa32r2 | mipsisa32r2el \
| mipsisa64 | mipsisa64el \
| mipsisa64sb1 | mipsisa64sb1el \
| mipsisa64sr71k | mipsisa64sr71kel \
| mipstx39 | mipstx39el \
| mn10200 | mn10300 \
| msp430 \
| ns16k | ns32k \
| openrisc | or32 \
| pdp10 | pdp11 | pj | pj1 \
| powerpc | powerpc64 | powerpc64le | powerpcle | ppcbe \
| pyramid \
| s390 | s390x \
| sh | sh[1234] | sh[23]e | sh[34]eb | shbe | shle | sh[1234]le |
sh3ele \
| sh64 | sh64le \
| sparc | sparc64 | sparc86x | sparcllet | sparclite | sparcv8 |
sparcv9 | sparcv9b \
| strongarm \
| tahoe | thumb | tic4x | tic80 | tron \
| v850 | v850e \
| we32k \
| x86 | xscale | xstormy16 | xtensa \
| z8k)
    basic_machine=$basic_machine-unknown
    ;;
m6811 | m68hc11 | m6812 | m68hc12)
    # Motorola 68HC11/12.
    basic_machine=$basic_machine-unknown
    os=-none
    ;;
m88110 | m680[12346]0 | m683?2 | m68360 | m5200 | v70 | w65 | z8k)
    ;;

# We use `pc' rather than `unknown'
# because (1) that's what they normally are, and
# (2) the word "unknown" tends to confuse beginning users.

```

```

i*86 | x86_64)
    basic_machine=$basic_machine-pc
    ;;
# Object if more than one company name word.
*-**)
    echo Invalid configuration ``$1\': machine ``$basic_machine\'
not recognized 1>&2
    exit 1
    ;;
# Recognize the basic CPU types with company name.
580-* \
| a29k-* \
| alpha-* | alphaev[4-8]-* | alphaev56-* | alphaev6[78]-* \
| alpha64-* | alpha64ev[4-8]-* | alpha64ev56-* | alpha64ev6[78]-* \
| alphapca5[67]-* | alpha64pca5[67]-* | arc-* \
| arm-* | armeb-* | arml-* | armeb-* | armv*-* \
| avr-* \
| bs2000-* \
| c[123]* | c30-* | [cjt]90-* | c4x-* | c54x-* | c55x-* | c6x-* \
| clipper-* | cydra-* \
| dl0v-* | d30v-* | dlx-* \
| elxsi-* \
| f30[01]-* | f700-* | fr30-* | frv-* | fx80-* \
| h8300-* | h8500-* \
| hppa-* | hppa1.[01]-* | hppa2.0-* | hppa2.0[nw]-* | hppa64-* \
| i*86-* | i860-* | i960-* | ia64-* \
| ip2k-* \
| m32r-* \
| m68000-* | m680[012346]0-* | m68360-* | m683?2-* | m68k-* \
| m88110-* | m88k-* | mcore-* \
| mips-* | mipsbe-* | mipseb-* | mipsel-* | mipsle-* \
| mips16-* \
| mips64-* | mips64el-* \
| mips64vr-* | mips64vrel-* \
| mips64orion-* | mips64orionel-* \
| mips64vr4100-* | mips64vr4100el-* \
| mips64vr4300-* | mips64vr4300el-* \
| mips64vr5000-* | mips64vr5000el-* \
| mipsisa32-* | mipsisa32el-* \
| mipsisa32r2-* | mipsisa32r2el-* \
| mipsisa64-* | mipsisa64el-* \
| mipsisa64sb1-* | mipsisa64sb1el-* \
| mipsisa64sr71k-* | mipsisa64sr71kel-* \
| mipstx39-* | mipstx39el-* \
| msp430-* \
| none-* | np1-* | nv1-* | ns16k-* | ns32k-* \
| orion-* \
| pdp10-* | pdp11-* | pj-* | pj1-* | pn-* | power-* \
| powerpc-* | powerpc64-* | powerpc64le-* | powerpcle-* | ppcbe-* \
| pyramid-* \
| romp-* | rs6000-* \
| s390-* | s390x-* \
| sh-* | sh[1234]-* | sh[23]e-* | sh[34]eb-* | shbe-* \
| shle-* | sh[1234]le-* | sh3ele-* | sh64-* | sh64le-* \

```



```

| sparc-* | sparc64-* | sparc86x-* | sparclet-* | sparclite-* \
| sparcv8-* | sparcv9-* | sparcv9b-* | strongarm-* | sv1-* | sx?-*

| tahoe-* | thumb-* \
| tic30-* | tic4x-* | tic54x-* | tic55x-* | tic6x-* | tic80-* \
| tron-* \
| v850-* | v850e-* | vax-* \
| we32k-* \
| x86-* | x86_64-* | xps100-* | xscale-* | xstormy16-* \
| xtensa-* \
| ymp-* \
| z8k-*)
;;
# Recognize the various machine names and aliases which stand
# for a CPU type and a company and sometimes even an OS.
386bsd)
    basic_machine=i386-unknown
    os=-bsd
;;
3b1 | 7300 | 7300-att | att-7300 | pc7300 | safari | unixpc)
    basic_machine=m68000-att
;;
3b*)
    basic_machine=we32k-att
;;
a29khif)
    basic_machine=a29k-amd
    os=-udi
;;
adobe68k)
    basic_machine=m68010-adobe
    os=-scout
;;
alliant | fx80)
    basic_machine=fx80-alliant
;;
altos | altos3068)
    basic_machine=m68k-altos
;;
am29k)
    basic_machine=a29k-none
    os=-bsd
;;
amd64)
    basic_machine=x86_64-pc
;;
amdahl)
    basic_machine=580-amdahl
    os=-sysv
;;
amiga | amiga-*)
    basic_machine=m68k-unknown
;;
amigaos | amigados)

```

```

        basic_machine=m68k-unknown
        os=-amigaos
        ;;
amigaunix | amix)
        basic_machine=m68k-unknown
        os=-sysv4
        ;;
apollo68)
        basic_machine=m68k-apollo
        os=-sysv
        ;;
apollo68bsd)
        basic_machine=m68k-apollo
        os=-bsd
        ;;
aux)
        basic_machine=m68k-apple
        os=-aux
        ;;
balance)
        basic_machine=ns32k-sequent
        os=-dynix
        ;;
c90)
        basic_machine=c90-cray
        os=-unicos
        ;;
convex-c1)
        basic_machine=c1-convex
        os=-bsd
        ;;
convex-c2)
        basic_machine=c2-convex
        os=-bsd
        ;;
convex-c32)
        basic_machine=c32-convex
        os=-bsd
        ;;
convex-c34)
        basic_machine=c34-convex
        os=-bsd
        ;;
convex-c38)
        basic_machine=c38-convex
        os=-bsd
        ;;
cray | j90)
        basic_machine=j90-cray
        os=-unicos
        ;;
crds | unos)
        basic_machine=m68k-crds
        ;;

```

```

    cris | cris-* | etrax*)
        basic_machine=cris-axis
        ;;
    da30 | da30-*)
        basic_machine=m68k-da30
        ;;
    decstation | decstation-3100 | pmax | pmax-* | pmin | dec3100 |
decstatn)
        basic_machine=mips-dec
        ;;
    decsystem10* | dec10*)
        basic_machine=pdp10-dec
        os=-tops10
        ;;
    decsystem20* | dec20*)
        basic_machine=pdp10-dec
        os=-tops20
        ;;
    delta | 3300 | motorola-3300 | motorola-delta \
| 3300-motorola | delta-motorola)
        basic_machine=m68k-motorola
        ;;
    delta88)
        basic_machine=m88k-motorola
        os=-sysv3
        ;;
    dpx20 | dpx20-*)
        basic_machine=rs6000-bull
        os=-bosx
        ;;
    dpx2* | dpx2*-bull)
        basic_machine=m68k-bull
        os=-sysv3
        ;;
    ebmon29k)
        basic_machine=a29k-amd
        os=-ebmon
        ;;
    elxsi)
        basic_machine=elxsi-elxsi
        os=-bsd
        ;;
    encore | umax | mmax)
        basic_machine=ns32k-encore
        ;;
    es1800 | OSE68k | ose68k | ose | OSE)
        basic_machine=m68k-ericsson
        os=-ose
        ;;
    fx2800)
        basic_machine=i860-alliant
        ;;
    genix)
        basic_machine=ns32k-ns

```

```

        ;;
gmicro)
    basic_machine=tron-gmicro
    os=-sysv
        ;;
go32)
    basic_machine=i386-pc
    os=-go32
        ;;
h3050r* | hiux*)
    basic_machine=hppa1.1-hitachi
    os=-hiuxwe2
        ;;
h8300hms)
    basic_machine=h8300-hitachi
    os=-hms
        ;;
h8300xray)
    basic_machine=h8300-hitachi
    os=-xray
        ;;
h8500hms)
    basic_machine=h8500-hitachi
    os=-hms
        ;;
harris)
    basic_machine=m88k-harris
    os=-sysv3
        ;;
hp300-*)
    basic_machine=m68k-hp
        ;;
hp300bsd)
    basic_machine=m68k-hp
    os=-bsd
        ;;
hp300hpux)
    basic_machine=m68k-hp
    os=-hpux
        ;;
hp3k9[0-9][0-9] | hp9[0-9][0-9])
    basic_machine=hppa1.0-hp
        ;;
hp9k2[0-9][0-9] | hp9k31[0-9])
    basic_machine=m68000-hp
        ;;
hp9k3[2-9][0-9])
    basic_machine=m68k-hp
        ;;
hp9k6[0-9][0-9] | hp6[0-9][0-9])
    basic_machine=hppa1.0-hp
        ;;
hp9k7[0-79][0-9] | hp7[0-79][0-9])
    basic_machine=hppa1.1-hp

```

```

;;
hp9k78[0-9] | hp78[0-9])
  # FIXME: really hppa2.0-hp
  basic_machine=hppa1.1-hp
;;
hp9k8[67]1 | hp8[67]1 | hp9k80[24] | hp80[24] | hp9k8[78]9 |
hp8[78]9 | hp9k893 | hp893)
  # FIXME: really hppa2.0-hp
  basic_machine=hppa1.1-hp
;;
hp9k8[0-9][13679] | hp8[0-9][13679])
  basic_machine=hppa1.1-hp
;;
hp9k8[0-9][0-9] | hp8[0-9][0-9])
  basic_machine=hppa1.0-hp
;;
hppa-next)
  os=-nextstep3
;;
hppaosf)
  basic_machine=hppa1.1-hp
  os=-osf
;;
hpro)
  basic_machine=hppa1.1-hp
  os=-proelf
;;
i370-ibm* | ibm*)
  basic_machine=i370-ibm
;;
# I'm not sure what "Sysv32" means.  Should this be sysv3.2?
i*86v32)
  basic_machine=`echo $1 | sed -e 's/86.*/86-pc/'`
  os=-sysv32
;;
i*86v4*)
  basic_machine=`echo $1 | sed -e 's/86.*/86-pc/'`
  os=-sysv4
;;
i*86v)
  basic_machine=`echo $1 | sed -e 's/86.*/86-pc/'`
  os=-sysv
;;
i*86sol2)
  basic_machine=`echo $1 | sed -e 's/86.*/86-pc/'`
  os=-solaris2
;;
i386mach)
  basic_machine=i386-mach
  os=-mach
;;
i386-vsta | vsta)
  basic_machine=i386-unknown
  os=-vsta

```

```

        ;;
iris | iris4d)
    basic_machine=mips-sgi
    case $os in
        -irix*)
            ;;
        *)
            os=-irix4
            ;;
    esac
    ;;
isi68 | isi)
    basic_machine=m68k-isi
    os=-sysv
    ;;
m88k-omron*)
    basic_machine=m88k-omron
    ;;
magnum | m3230)
    basic_machine=mips-mips
    os=-sysv
    ;;
merlin)
    basic_machine=ns32k-utek
    os=-sysv
    ;;
mingw32)
    basic_machine=i386-pc
    os=-mingw32
    ;;
miniframe)
    basic_machine=m68000-convergent
    ;;
*mint | -mint[0-9]* | *MiNT | *MiNT[0-9]*)
    basic_machine=m68k-atari
    os=-mint
    ;;
mips3*-*)
    basic_machine=`echo $basic_machine | sed -e
's/mips3/mips64/'`
    ;;
mips3*)
    basic_machine=`echo $basic_machine | sed -e
's/mips3/mips64/'`-unknown
    ;;
mmix*)
    basic_machine=mmix-knuth
    os=-mmixware
    ;;
monitor)
    basic_machine=m68k-rom68k
    os=-coff
    ;;
morphos)

```

```

        basic_machine=powerpc-unknown
        os=-morphos
        ;;
msdos)
        basic_machine=i386-pc
        os=-msdos
        ;;
mvs)
        basic_machine=i370-ibm
        os=-mvs
        ;;
ncr3000)
        basic_machine=i486-ncr
        os=-sysv4
        ;;
netbsd386)
        basic_machine=i386-unknown
        os=-netbsd
        ;;
netwinder)
        basic_machine=armv4l-rebel
        os=-linux
        ;;
news | news700 | news800 | news900)
        basic_machine=m68k-sony
        os=-newsos
        ;;
news1000)
        basic_machine=m68030-sony
        os=-newsos
        ;;
news-3600 | risc-news)
        basic_machine=mips-sony
        os=-newsos
        ;;
necv70)
        basic_machine=v70-nec
        os=-sysv
        ;;
next | m*-next )
        basic_machine=m68k-next
        case $os in
            -nextstep* )
                ;;
            -ns2*)
                os=-nextstep2
                ;;
            *)
                os=-nextstep3
                ;;
        esac
        ;;
nh3000)
        basic_machine=m68k-harris

```

```

        os=-cxux
        ;;
nh[45]000)
    basic_machine=m88k-harris
    os=-cxux
    ;;
nindy960)
    basic_machine=i960-intel
    os=-nindy
    ;;
mon960)
    basic_machine=i960-intel
    os=-mon960
    ;;
nonstopux)
    basic_machine=mips-compaq
    os=-nonstopux
    ;;
np1)
    basic_machine=np1-gould
    ;;
nv1)
    basic_machine=nv1-cray
    os=-unicosmp
    ;;
nsr-tandem)
    basic_machine=nsr-tandem
    ;;
op50n-* | op60c-*)
    basic_machine=hppa1.1-oki
    os=-proelf
    ;;
or32 | or32-*)
    basic_machine=or32-unknown
    os=-coff
    ;;
OSE68000 | ose68000)
    basic_machine=m68000-ericsson
    os=-ose
    ;;
os68k)
    basic_machine=m68k-none
    os=-os68k
    ;;
pa-hitachi)
    basic_machine=hppa1.1-hitachi
    os=-hiuxwe2
    ;;
paragon)
    basic_machine=i860-intel
    os=-osf
    ;;
pbd)
    basic_machine=sparc-tti

```



```

        ;;
pbb)
    basic_machine=m68k-tti
    ;;
pc532 | pc532-*)
    basic_machine=ns32k-pc532
    ;;
pentium | p5 | k5 | k6 | nexgen | viac3)
    basic_machine=i586-pc
    ;;
pentiumpro | p6 | 6x86 | athlon | athlon_*)
    basic_machine=i686-pc
    ;;
pentiumii | pentium2 | pentiumiii | pentium3)
    basic_machine=i686-pc
    ;;
pentium4)
    basic_machine=i786-pc
    ;;
pentium-* | p5-* | k5-* | k6-* | nexgen-* | viac3-*)
    basic_machine=i586-`echo $basic_machine | sed 's/^[^-]*-//'\`
    ;;
pentiumpro-* | p6-* | 6x86-* | athlon-*)
    basic_machine=i686-`echo $basic_machine | sed 's/^[^-]*-//'\`
    ;;
pentiumii-* | pentium2-* | pentiumiii-* | pentium3-*)
    basic_machine=i686-`echo $basic_machine | sed 's/^[^-]*-//'\`
    ;;
pentium4-*)
    basic_machine=i786-`echo $basic_machine | sed 's/^[^-]*-//'\`
    ;;
pn)
    basic_machine=pn-gould
    ;;
power)
    basic_machine=power-ibm
    ;;
ppc)
    basic_machine=powerpc-unknown
    ;;
ppc-*)
    basic_machine=powerpc-`echo $basic_machine | sed 's/^[^-
]*-//'\`
    ;;
ppcle | powerpclittle | ppc-le | powerpc-little)
    basic_machine=powerpcle-unknown
    ;;
ppcle-* | powerpclittle-*)
    basic_machine=powerpcle-`echo $basic_machine | sed 's/^[^-
]*-//'\`
    ;;
ppc64)
    basic_machine=powerpc64-unknown
    ;;
ppc64-*)
    basic_machine=powerpc64-`echo $basic_machine | sed 's/^[^-
]*-//'\`
    ;;
ppc64le | powerpc64little | ppc64-le | powerpc64-little)

```

```

        basic_machine=powerpc64le-unknown
        ;;
ppc64le-* | powerpc64little-*)
        basic_machine=powerpc64le-`echo $basic_machine | sed 's/^[^-
]*-//'\`
        ;;
ps2)
        basic_machine=i386-ibm
        ;;
pw32)
        basic_machine=i586-unknown
        os=-pw32
        ;;
rom68k)
        basic_machine=m68k-rom68k
        os=-coff
        ;;
rm[46]00)
        basic_machine=mips-siemens
        ;;
rtpc | rtpc-*)
        basic_machine=romp-ibm
        ;;
sa29200)
        basic_machine=a29k-amd
        os=-udi
        ;;
sb1)
        basic_machine=mipsisa64sb1-unknown
        ;;
sb1el)
        basic_machine=mipsisa64sb1el-unknown
        ;;
sei)
        basic_machine=mips-sei
        os=-seiux
        ;;
sequent)
        basic_machine=i386-sequent
        ;;
sh)
        basic_machine=sh-hitachi
        os=-hms
        ;;
sh64)
        basic_machine=sh64-unknown
        ;;
sparclite-wrs | simso-wrs)
        basic_machine=sparclite-wrs
        os=-vxworks
        ;;
sps7)
        basic_machine=m68k-bull
        os=-sysv2

```

```

        ;;
spur)
    basic_machine=spur-unknown
    ;;
st2000)
    basic_machine=m68k-tandem
    ;;
stratus)
    basic_machine=i860-stratus
    os=-sysv4
    ;;
sun2)
    basic_machine=m68000-sun
    ;;
sun2os3)
    basic_machine=m68000-sun
    os=-sunos3
    ;;
sun2os4)
    basic_machine=m68000-sun
    os=-sunos4
    ;;
sun3os3)
    basic_machine=m68k-sun
    os=-sunos3
    ;;
sun3os4)
    basic_machine=m68k-sun
    os=-sunos4
    ;;
sun4os3)
    basic_machine=sparc-sun
    os=-sunos3
    ;;
sun4os4)
    basic_machine=sparc-sun
    os=-sunos4
    ;;
sun4sol2)
    basic_machine=sparc-sun
    os=-solaris2
    ;;
sun3 | sun3-*)
    basic_machine=m68k-sun
    ;;
sun4)
    basic_machine=sparc-sun
    ;;
sun386 | sun386i | roadrunner)
    basic_machine=i386-sun
    ;;
sv1)
    basic_machine=sv1-cray
    os=-unicos

```

```

        ;;
symmetry)
    basic_machine=i386-sequent
    os=-dynix
    ;;
t3e)
    basic_machine=alphaev5-cray
    os=-unicos
    ;;
t90)
    basic_machine=t90-cray
    os=-unicos
    ;;
tic54x | c54x*)
    basic_machine=tic54x-unknown
    os=-coff
    ;;
tic55x | c55x*)
    basic_machine=tic55x-unknown
    os=-coff
    ;;
tic6x | c6x*)
    basic_machine=tic6x-unknown
    os=-coff
    ;;
tx39)
    basic_machine=mipstx39-unknown
    ;;
tx39el)
    basic_machine=mipstx39el-unknown
    ;;
toad1)
    basic_machine=pdp10-xkl
    os=-tops20
    ;;
tower | tower-32)
    basic_machine=m68k-ncr
    ;;
udi29k)
    basic_machine=a29k-amd
    os=-udi
    ;;
ultra3)
    basic_machine=a29k-nyu
    os=-sym1
    ;;
v810 | necv810)
    basic_machine=v810-nec
    os=-none
    ;;
vaxv)
    basic_machine=vax-dec
    os=-sysv
    ;;

```

```

vms)
    basic_machine=vax-dec
    os=-vms
    ;;
vpp*|vx|vx-*)
    basic_machine=f301-fujitsu
    ;;
vxworks960)
    basic_machine=i960-wrs
    os=-vxworks
    ;;
vxworks68)
    basic_machine=m68k-wrs
    os=-vxworks
    ;;
vxworks29k)
    basic_machine=a29k-wrs
    os=-vxworks
    ;;
w65*)
    basic_machine=w65-wdc
    os=-none
    ;;
w89k-*)
    basic_machine=hppa1.1-winbond
    os=-proelf
    ;;
xps | xps100)
    basic_machine=xps100-honeywell
    ;;
ymp)
    basic_machine=ymp-cray
    os=-unicos
    ;;
z8k-*-coff)
    basic_machine=z8k-unknown
    os=-sim
    ;;
none)
    basic_machine=none-none
    os=-none
    ;;

```

# Here we handle the default manufacturer of certain CPU types. It is in  
# some cases the only manufacturer, in others, it is the most popular.

```

w89k)
    basic_machine=hppa1.1-winbond
    ;;
op50n)
    basic_machine=hppa1.1-oki
    ;;
op60c)
    basic_machine=hppa1.1-oki
    ;;

```

```

romp)
    basic_machine=romp-ibm
    ;;
rs6000)
    basic_machine=rs6000-ibm
    ;;
vax)
    basic_machine=vax-dec
    ;;
pdp10)
    # there are many clones, so DEC is not a safe bet
    basic_machine=pdp10-unknown
    ;;
pdp11)
    basic_machine=pdp11-dec
    ;;
we32k)
    basic_machine=we32k-att
    ;;
sh3 | sh4 | sh[34]eb | sh[1234]le | sh[23]ele)
    basic_machine=sh-unknown
    ;;
sh64)
    basic_machine=sh64-unknown
    ;;
sparc | sparcv8 | sparcv9 | sparcv9b)
    basic_machine=sparc-sun
    ;;
cydra)
    basic_machine=cydra-cydrome
    ;;
orion)
    basic_machine=orion-highlevel
    ;;
orion105)
    basic_machine=clipper-highlevel
    ;;
mac | mpw | mac-mpw)
    basic_machine=m68k-apple
    ;;
pmac | pmac-mpw)
    basic_machine=powerpc-apple
    ;;
*-unknown)
    # Make sure to match an already-canonicalized machine name.
    ;;
*)
    echo Invalid configuration \`$1\': machine \`$basic_machine\'
not recognized 1>&2
    exit 1
    ;;
esac

# Here we canonicalize certain aliases for manufacturers.

```

```

case $basic_machine in
    *-digital*)
        basic_machine=`echo $basic_machine | sed 's/digital.*/dec/'`
        ;;
    *-commodore*)
        basic_machine=`echo $basic_machine | sed
's/commodore.*/cbm/'`
        ;;
    *)
        ;;
esac

```

# Decode manufacturer-specific aliases for certain operating systems.

```

if [ x"$os" != x"" ]
then
case $os in
    # First match some system type aliases
    # that might get confused with valid system types.
    # -solaris* is a basic system type, with this one exception.
    -solarisl | -solarisl.*)
        os=`echo $os | sed -e 's|solarisl|sunos4|'`
        ;;
    -solaris)
        os=-solaris2
        ;;
    -svr4*)
        os=-sysv4
        ;;
    -unixware*)
        os=-sysv4.2uw
        ;;
    -gnu/linux*)
        os=`echo $os | sed -e 's|gnu/linux|linux-gnu|'`
        ;;
    # First accept the basic system types.
    # The portable systems comes first.
    # Each alternative MUST END IN A *, to match a version number.
    # -sysv* is not here because it comes later, after sysvr4.
    -gnu* | -bsd* | -mach* | -minix* | -genix* | -ultrix* | -irix* \
    | -*vms* | -sco* | -esix* | -isc* | -aix* | -sunos | -
sunos[34]* \
    | -hpux* | -unos* | -osf* | -luna* | -dgux* | -solaris* | -
sym* \
    | -amigaos* | -amigados* | -msdos* | -newsos* | -unicos* | -
aof* \
    | -aos* \
    | -nindy* | -vxsim* | -vxworks* | -ebmon* | -hms* | -mvs* \
    | -clix* | -riscos* | -uniplus* | -iris* | -rtu* | -xenix* \
    | -hiux* | -386bsd* | -netbsd* | -openbsd* | -freebsd* | -
riscix* \
    | -lynxos* | -bosx* | -nextstep* | -cxux* | -aout* | -elf* |
-oabi* \
    | -ptx* | -coff* | -ecoff* | -winnt* | -domain* | -vsta* \

```

```

    | -udi* | -eabi* | -lites* | -ieee* | -go32* | -aux* \
    | -chorusos* | -chorusrdb* \
    | -cygwin* | -pe* | -psos* | -moss* | -proelf* | -rtems* \
    | -mingw32* | -linux-gnu* | -uxpv* | -beos* | -mpeix* | -udk*
\
    | -interix* | -uwin* | -mks* | -rhapsody* | -darwin* | -
opened* \
    | -openstep* | -oskit* | -conix* | -pw32* | -nonstopux* \
    | -storm-chaos* | -tops10* | -tenex* | -tops20* | -its* \
    | -os2* | -vos* | -palmos* | -uclinux* | -nucleus* \
    | -morphos* | -superux* | -rtmk* | -rtmk-nova* | -windiss* \
    | -powermax* | -dnix* | -nx6 | -nx7 | -sei*)
# Remember, each alternative MUST END IN *, to match a version
number.
;;
-qnx*)
    case $basic_machine in
        x86-* | i*86-*)
            ;;
        *)
            os=-nto$os
            ;;
    esac
;;
-nto-qnx*)
;;
-nto*)
    os=`echo $os | sed -e 's|nto|nto-qnx|'`
;;
-sim | -es1800* | -hms* | -xray | -os68k* | -none* | -v88r* \
| -windows* | -osx | -abug | -netware* | -os9* | -beos* \
| -macos* | -mpw* | -magic* | -mmixware* | -mon960* | -
lnews*)
;;
-mac*)
    os=`echo $os | sed -e 's|mac|macos|'`
;;
-linux*)
    os=`echo $os | sed -e 's|linux|linux-gnu|'`
;;
-sunos5*)
    os=`echo $os | sed -e 's|sunos5|solaris2|'`
;;
-sunos6*)
    os=`echo $os | sed -e 's|sunos6|solaris3|'`
;;
-opened*)
    os=-openedition
;;
-wince*)
    os=-wince
;;
-osfrosee*)
    os=-osfrosee

```



```

        ;;
-osf*)
    os=-osf
        ;;
-utek*)
    os=-bsd
        ;;
-dynix*)
    os=-bsd
        ;;
-acis*)
    os=-aos
        ;;
-atheos*)
    os=-atheos
        ;;
-386bsd)
    os=-bsd
        ;;
-ctix* | -uts*)
    os=-sysv
        ;;
-nova*)
    os=-rtmk-nova
        ;;
-ns2 )
    os=-nextstep2
        ;;
-nsk*)
    os=-nsk
        ;;
# Preserve the version number of sinix5.
-sinix5.*)
    os=`echo $os | sed -e 's|sinix|sysv|'`
        ;;
-sinix*)
    os=-sysv4
        ;;
-triton*)
    os=-sysv3
        ;;
-oss*)
    os=-sysv3
        ;;
-svr4)
    os=-sysv4
        ;;
-svr3)
    os=-sysv3
        ;;
-sysvr4)
    os=-sysv4
        ;;
# This must come after -sysvr4.

```

```

-sysv*)
    ;;
-ose*)
    os=-ose
    ;;
-es1800*)
    os=-ose
    ;;
-xenix)
    os=-xenix
    ;;
-*mint | -mint[0-9]* | -*MiNT | -MiNT[0-9]*)
    os=-mint
    ;;
-aros*)
    os=-aros
    ;;
-kaos*)
    os=-kaos
    ;;
-none)
    ;;
*)
    # Get rid of the '-' at the beginning of $os.
    os=`echo $os | sed 's/[^-]*-//'\`
    echo Invalid configuration \`${1}\`: system \`${os}\` not
recognized 1>&2
    exit 1
    ;;
esac
else

# Here we handle the default operating systems that come with various
machines.
# The value should be what the vendor currently ships out the door with
their
# machine or put another way, the most popular os provided with the
machine.

# Note that if you're going to try to match "-MANUFACTURER" here (say,
# "-sun"), then you have to tell the case statement up towards the top
# that MANUFACTURER isn't an operating system. Otherwise, code above
# will signal an error saying that MANUFACTURER isn't an operating
# system, and we'll never get to this point.

case $basic_machine in
*-acorn)
    os=-riscix1.2
    ;;
arm*-rebel)
    os=-linux
    ;;
arm*-semi)
    os=-aout

```

```

        ;;
c4x-* | tic4x-*)
    os=-coff
        ;;
# This must come before the *-dec entry.
pdp10-*)
    os=-tops20
        ;;
pdp11-*)
    os=-none
        ;;
*-dec | vax-*)
    os=-ultrix4.2
        ;;
m68*-apollo)
    os=-domain
        ;;
i386-sun)
    os=-sunos4.0.2
        ;;
m68000-sun)
    os=-sunos3
    # This also exists in the configure program, but was not the
    # default.
    # os=-sunos4
        ;;
m68*-cisco)
    os=-aout
        ;;
mips*-cisco)
    os=-elf
        ;;
mips*-*)
    os=-elf
        ;;
or32-*)
    os=-coff
        ;;
*-tti)      # must be before sparc entry or we get the wrong os.
    os=-sysv3
        ;;
sparc-* | *-sun)
    os=-sunos4.1.1
        ;;
*-be)
    os=-beos
        ;;
*-ibm)
    os=-aix
        ;;
*-wec)
    os=-proelf
        ;;
*-winbond)

```

```

        os=-proelf
        ;;
*-oki)
        os=-proelf
        ;;
*-hp)
        os=-hpux
        ;;
*-hitachi)
        os=-hiux
        ;;
i860-* | *-att | *-ncr | *-altos | *-motorola | *-convergent)
        os=-sysv
        ;;
*-cbm)
        os=-amigaos
        ;;
*-dg)
        os=-dgux
        ;;
*-dolphin)
        os=-sysv3
        ;;
m68k-ccur)
        os=-rtu
        ;;
m88k-omron*)
        os=-luna
        ;;
*-next )
        os=-nextstep
        ;;
*-sequent)
        os=-ptx
        ;;
*-crds)
        os=-unos
        ;;
*-ns)
        os=-genix
        ;;
i370-*)
        os=-mvs
        ;;
*-next)
        os=-nextstep3
        ;;
*-gould)
        os=-sysv
        ;;
*-highlevel)
        os=-bsd
        ;;
*-encore)

```

```

        os=-bsd
        ;;
*-sgi)
        os=-irix
        ;;
*-siemens)
        os=-sysv4
        ;;
*-masscomp)
        os=-rtu
        ;;
f30[01]-fujitsu | f700-fujitsu)
        os=-uxpv
        ;;
*-rom68k)
        os=-coff
        ;;
*-*bug)
        os=-coff
        ;;
*-apple)
        os=-macos
        ;;
*-atari*)
        os=-mint
        ;;
*)
        os=-none
        ;;
esac
fi

```

# Here we handle the case where we know the os, and the CPU type, but not the

# manufacturer. We pick the logical manufacturer.

vendor=unknown

case \$basic\_machine in

\*-unknown)

case \$os in

-riscix\*)

vendor=acorn

;;

-sunos\*)

vendor=sun

;;

-aix\*)

vendor=ibm

;;

-beos\*)

vendor=be

;;

-hpux\*)

vendor=hp

;;

```

-mpeix*)
    vendor=hp
    ;;
-hiux*)
    vendor=hitachi
    ;;
-unos*)
    vendor=crds
    ;;
-dgux*)
    vendor=dg
    ;;
-luna*)
    vendor=omron
    ;;
-genix*)
    vendor=ns
    ;;
-mvs* | -opened*)
    vendor=ibm
    ;;
-ptx*)
    vendor=sequent
    ;;
-vxsim* | -vxworks* | -windiss*)
    vendor=wrs
    ;;
-aux*)
    vendor=apple
    ;;
-hms*)
    vendor=hitachi
    ;;
-mpw* | -macos*)
    vendor=apple
    ;;
-*mint | -mint[0-9]* | -*MiNT | -MiNT[0-9]*)
    vendor=atari
    ;;
-vos*)
    vendor=stratus
    ;;
    esac
    basic_machine=`echo $basic_machine | sed
"s/unknown/$vendor/"`
    ;;
esac

echo $basic_machine$os
exit 0

# Local variables:
# eval: (add-hook 'write-file-hooks 'time-stamp)
# time-stamp-start: "timestamp="

```

```
# time-stamp-format: "%:y-%02m-%02d"
# time-stamp-end: ""
# End:
```

## configure

```
#!/bin/sh
# Guess values for system-dependent variables and create Makefiles.
# Generated by GNU Autoconf 2.59 for sysfsutils 2.1.0.
#
# Report bugs to <linux-diag-devel@lists.sourceforge.net>.
#
# Copyright (C) 2003 Free Software Foundation, Inc.
# This configure script is free software; the Free Software Foundation
# gives unlimited permission to copy, distribute and modify it.
## ----- ##
## M4sh Initialization. ##
## ----- ##

# Be Bourne compatible
if test -n "${ZSH_VERSION+set}" && (emulate sh) >/dev/null 2>&1; then
  emulate sh
  NULLCMD=:
  # Zsh 3.x and 4.x performs word splitting on ${1+"$@"}, which
  # is contrary to our usage.  Disable this feature.
  alias -g '${1+"$@"}'='"$@"'
elif test -n "${BASH_VERSION+set}" && (set -o posix) >/dev/null 2>&1;
then
  set -o posix
fi
DUALCASE=1; export DUALCASE # for MKS sh

# Support unset when possible.
if ( (MAIL=60; unset MAIL) || exit) >/dev/null 2>&1; then
  as_unset=unset
else
  as_unset=false
fi

# Work around bugs in pre-3.0 UWIN ksh.
$as_unset ENV MAIL MAILPATH
PS1='$ '
PS2='> '
PS4='+ '

# NLS nuisances.
for as_var in \
  LANG LANGUAGE LC_ADDRESS LC_ALL LC_COLLATE LC_CTYPE LC_IDENTIFICATION \
  LC_MEASUREMENT LC_MESSAGES LC_MONETARY LC_NAME LC_NUMERIC LC_PAPER \
  LC_TELEPHONE LC_TIME
do
  if (set +x; test -z "`(eval $as_var=C; export $as_var) 2>&1`"); then
```

```

    eval $as_var=C; export $as_var
else
    $as_unset $as_var
fi
done

# Required to use basename.
if expr a : '\(a\)' >/dev/null 2>&1; then
    as_expr=expr
else
    as_expr=false
fi

if (basename /) >/dev/null 2>&1 && test "X`basename / 2>&1`" = "X/"; then
    as_basename=basename
else
    as_basename=false
fi

# Name of the executable.
as_me=`$as_basename "$0" ||
$as_expr X/"$0" : '.*\/\([^\/]*\)/*$' \| \| \
    X"$0" : 'X\(/\)\$' \| \| \
    X"$0" : 'X\(\/\)\$' \| \| \
    .      : '\(.\)' 2>/dev/null ||
echo X/"$0" |
    sed '/^\.*\/\([^\/]*\)\/*\$/{ s//\1/; q; }
/^X\(\(\(\)\)\)\$/{ s//\1/; q; }
/^X\(\(\(\)\)\)\.*/{ s//\1/; q; }
s/.*\/./; q`

# PATH needs CR, and LINENO needs CR and PATH.
# Avoid depending upon Character Ranges.
as_cr_letters='abcdefghijklmnopqrstuvwxyz'
as_cr_LETTERS='ABCDEFGHIJKLMNOPQRSTUVWXYZ'
as_cr_Letters=$as_cr_letters$as_cr_LETTERS
as_cr_digits='0123456789'
as_cr_alnum=$as_cr_Letters$as_cr_digits

# The user is always right.
if test "${PATH_SEPARATOR+set}" != set; then
    echo "#! /bin/sh" >conf$$$.sh
    echo "exit 0" >>conf$$$.sh
    chmod +x conf$$$.sh
    if (PATH="/nonexistent;."; conf$$$.sh) >/dev/null 2>&1; then
        PATH_SEPARATOR=';'
    else
        PATH_SEPARATOR=:
    fi
    rm -f conf$$$.sh
fi
fi

```



```

as_lineno_1=$LINENO
as_lineno_2=$LINENO
as_lineno_3=`(expr $as_lineno_1 + 1) 2>/dev/null`
test "x$as_lineno_1" != "x$as_lineno_2" &&
test "x$as_lineno_3" = "x$as_lineno_2" || {
# Find who we are. Look in the path if we contain no path at all
# relative or not.
case $0 in
*[\ \/]* ) as_myself=$0 ;;
*) as_save_IFS=$IFS; IFS=$PATH_SEPARATOR
for as_dir in $PATH
do
IFS=$as_save_IFS
test -z "$as_dir" && as_dir=.
test -r "$as_dir/$0" && as_myself=$as_dir/$0 && break
done

;;
esac
# We did not find ourselves, most probably we were run as `sh COMMAND'
# in which case we are not to be found in the path.
if test "x$as_myself" = x; then
as_myself=$0
fi
if test ! -f "$as_myself"; then
{ echo "$as_me: error: cannot find myself; rerun with an absolute
path" >&2
{ (exit 1); exit 1; }; }
fi
case $CONFIG_SHELL in
'')
as_save_IFS=$IFS; IFS=$PATH_SEPARATOR
for as_dir in /bin$PATH_SEPARATOR/usr/bin$PATH_SEPARATOR$PATH
do
IFS=$as_save_IFS
test -z "$as_dir" && as_dir=.
for as_base in sh bash ksh sh5; do
case $as_dir in
/*)
if ("$as_dir/$as_base" -c '
as_lineno_1=$LINENO
as_lineno_2=$LINENO
as_lineno_3=`(expr $as_lineno_1 + 1) 2>/dev/null`
test "x$as_lineno_1" != "x$as_lineno_2" &&
test "x$as_lineno_3" = "x$as_lineno_2" ') 2>/dev/null; then
$as_unset BASH_ENV || test "${BASH_ENV+set}" != set || {
BASH_ENV=; export BASH_ENV; }
$as_unset ENV || test "${ENV+set}" != set || { ENV=; export
ENV; }
CONFIG_SHELL=$as_dir/$as_base
export CONFIG_SHELL
exec "$CONFIG_SHELL" "$0" ${1+"$@"}
fi;;

```

```

        esac
    done
done
;;
esac

# Create $sas_me.lineno as a copy of $sas_myself, but with $LINENO
# uniformly replaced by the line number. The first 'sed' inserts a
# line-number line before each line; the second 'sed' does the real
# work. The second script uses 'N' to pair each line-number line
# with the numbered line, and appends trailing '-' during
# substitution so that $LINENO is not a special case at line end.
# (Raja R Harinath suggested sed '=', and Paul Eggert wrote the
# second 'sed' script. Blame Lee E. McMahon for sed's syntax. :-)
sed '=' <$sas_myself |
    sed '
        N
        s,$,-,
        : loop

s,^\(['$sas_cr_digits']*\) \(.*\)[$]LINENO\(['^$sas_cr_alnum'_]\),\1\2\1\3,
    t loop
    s,-$,,
    s,^\(['$sas_cr_digits']*\)n,,
    ' >$sas_me.lineno &&
    chmod +x $sas_me.lineno ||
    { echo "$sas_me: error: cannot create $sas_me.lineno; rerun with a
    POSIX shell" >&2
    { (exit 1); exit 1; }; }

# Don't try to exec as it changes ${0}, causing all sort of problems
# (the dirname of ${0} is not the place where we might find the
# original and so on. Autoconf is especially sensible to this).
. ./$sas_me.lineno
# Exit status is that of the last command.
exit
}

case `echo "testing\c"; echo 1,2,3`,`echo -n testing; echo 1,2,3` in
*c*,-n*) ECHO_N= ECHO_C='
' ECHO_T=' ' ;;
*c*,* ) ECHO_N=-n ECHO_C= ECHO_T= ;;
*)
    ECHO_N= ECHO_C='\c' ECHO_T= ;;
esac

if expr a : '\(a\)' >/dev/null 2>&1; then
    as_expr=expr
else
    as_expr=false
fi

rm -f conf$$ conf$$exe conf$$file
echo >conf$$file

```

```

if ln -s conf$$.$file conf$$ 2>/dev/null; then
  # We could just check for DJGPP; but this test a) works b) is more
  generic
  # and c) will remain valid once DJGPP supports symlinks (DJGPP 2.04).
  if test -f conf$$.$exe; then
    # Don't use ln at all; we don't have any links
    as_ln_s='cp -p'
  else
    as_ln_s='ln -s'
  fi
elif ln conf$$.$file conf$$ 2>/dev/null; then
  as_ln_s=ln
else
  as_ln_s='cp -p'
fi
rm -f conf$$ conf$$.$exe conf$$.$file

if mkdir -p . 2>/dev/null; then
  as_mkdir_p=:
else
  test -d ./-p && rmdir ./-p
  as_mkdir_p=false
fi

as_executable_p="test -f"

# Sed expression to map a string onto a valid CPP name.
as_tr_cpp="eval sed
'y%*$as_cr_letters%P$as_cr_LETTERS%;s%[^_$as_cr_alnum]%%_g'"

# Sed expression to map a string onto a valid variable name.
as_tr_sh="eval sed 'y%+*%pp%;s%[^_$as_cr_alnum]%%_g'"

# IFS
# We need space, tab and new line, in precisely that order.
as_nl='
'
IFS="      $as_nl"

# CDPATH.
$as_unset CDPATH

# Check that we are running under the correct shell.
SHELL=${CONFIG_SHELL-/bin/sh}

case X$ECHO in
X*--fallback-echo)
  # Remove one level of quotation (which was required for Make).
  ECHO=`echo "$ECHO" | sed 's,\\\\\\\\$\\\$0,'$0','`
  ;;
esac

```

```

echo=${ECHO-echo}
if test "X$1" = X--no-reexec; then
    # Discard the --no-reexec flag, and continue.
    shift
elif test "X$1" = X--fallback-echo; then
    # Avoid inline document here, it may be left over
    :
elif test "X`($echo '\t') 2>/dev/null`" = 'X\t' ; then
    # Yippee, $echo works!
    :
else
    # Restart under the correct shell.
    exec $SHELL "$0" --no-reexec ${1+"$@"}
fi

if test "X$1" = X--fallback-echo; then
    # used as fallback echo
    shift
    cat <<EOF
$*
EOF
    exit 0
fi

# The HP-UX ksh and POSIX shell print the target directory to stdout
# if CDPATH is set.
(unset CDPATH) >/dev/null 2>&1 && unset CDPATH

if test -z "$ECHO"; then
if test "X${echo_test_string+set}" != Xset; then
# find a string as large as possible, as long as the shell can cope with
it
    for cmd in 'sed 50q "$0"' 'sed 20q "$0"' 'sed 10q "$0"' 'sed 2q "$0"'
'echo test'; do
        # expected sizes: less than 2Kb, 1Kb, 512 bytes, 16 bytes, ...
        if (echo_test_string=`eval $cmd`) 2>/dev/null &&
            echo_test_string=`eval $cmd` &&
            (test "X$echo_test_string" = "X$echo_test_string") 2>/dev/null
        then
            break
        fi
    done
fi
fi

if test "X`($echo '\t') 2>/dev/null`" = 'X\t' &&
    echo_testing_string=`($echo "$echo_test_string") 2>/dev/null` &&
    test "X$echo_testing_string" = "X$echo_test_string"; then
    :
else
    # The Solaris, AIX, and Digital Unix default echo programs unquote
    # backslashes. This makes it impossible to quote backslashes using
    # echo "$something" | sed 's/\\/\\\\/g'
    #

```

```

# So, first we look for a working echo in the user's PATH.

lt_save_ifs="$IFS"; IFS=$PATH_SEPARATOR
for dir in $PATH /usr/ucb; do
    IFS="$lt_save_ifs"
    if (test -f $dir/echo || test -f $dir/echo$ac_exeext) &&
        test "X`($dir/echo '\t') 2>/dev/null`" = 'X\t' &&
        echo_testing_string=`($dir/echo "$echo_test_string") 2>/dev/null`
&&
        test "X$echo_testing_string" = "X$echo_test_string"; then
            echo="$dir/echo"
            break
        fi
done
IFS="$lt_save_ifs"

if test "X$echo" = Xecho; then
    # We didn't find a better echo, so look for alternatives.
    if test "X`(print -r '\t') 2>/dev/null`" = 'X\t' &&
        echo_testing_string=`(print -r "$echo_test_string") 2>/dev/null`
&&
        test "X$echo_testing_string" = "X$echo_test_string"; then
            # This shell has a builtin print -r that does the trick.
            echo='print -r'
        elif (test -f /bin/ksh || test -f /bin/ksh$ac_exeext) &&
            test "X$CONFIG_SHELL" != X/bin/ksh; then
            # If we have ksh, try running configure again with it.
            ORIGINAL_CONFIG_SHELL=${CONFIG_SHELL-/bin/sh}
            export ORIGINAL_CONFIG_SHELL
            CONFIG_SHELL=/bin/ksh
            export CONFIG_SHELL
            exec $CONFIG_SHELL "$0" --no-reexec ${1+"$@"}
        else
            # Try using printf.
            echo='printf %s\n'
            if test "X`($echo '\t') 2>/dev/null`" = 'X\t' &&
                echo_testing_string=`($echo "$echo_test_string") 2>/dev/null` &&
                test "X$echo_testing_string" = "X$echo_test_string"; then
                # Cool, printf works
                :
                elif echo_testing_string=`($ORIGINAL_CONFIG_SHELL "$0" --fallback-
echo '\t') 2>/dev/null` &&
                    test "X$echo_testing_string" = 'X\t' &&
                    echo_testing_string=`($ORIGINAL_CONFIG_SHELL "$0" --fallback-
echo "$echo_test_string") 2>/dev/null` &&
                    test "X$echo_testing_string" = "X$echo_test_string"; then
                    CONFIG_SHELL=$ORIGINAL_CONFIG_SHELL
                    export CONFIG_SHELL
                    SHELL="$CONFIG_SHELL"
                    export SHELL
                    echo="$CONFIG_SHELL $0 --fallback-echo"
                    elif echo_testing_string=`($CONFIG_SHELL "$0" --fallback-echo '\t')
2>/dev/null` &&
                        test "X$echo_testing_string" = 'X\t' &&

```

```

        echo_testing_string=`($CONFIG_SHELL "$0" --fallback-echo
"$echo_test_string") 2>/dev/null` &&
        test "X$echo_testing_string" = "X$echo_test_string"; then
        echo="$CONFIG_SHELL $0 --fallback-echo"
        else
        # maybe with a smaller string...
        prev=:

        for cmd in 'echo test' 'sed 2q "$0"' 'sed 10q "$0"' 'sed 20q "$0"'
'sed 50q "$0"'; do
            if (test "X$echo_test_string" = "X`eval $cmd`") 2>/dev/null
            then
                break
            fi
            prev="$cmd"
        done

        if test "$prev" != 'sed 50q "$0"'; then
            echo_test_string=`eval $prev`
            export echo_test_string
            exec ${ORIGINAL_CONFIG_SHELL-${CONFIG_SHELL-/bin/sh}} "$0"
${1+"$@"}
        else
            # Oops. We lost completely, so just stick with echo.
            echo=echo
        fi
        fi
    fi
fi
fi

# Copy echo and quote the copy suitably for passing to libtool from
# the Makefile, instead of quoting the original, which is used later.
ECHO=$echo
if test "X$ECHO" = "X$CONFIG_SHELL $0 --fallback-echo"; then
    ECHO="$CONFIG_SHELL \\$\\$0 --fallback-echo"
fi

tagnames=${tagnames+${tagnames},}CXX

tagnames=${tagnames+${tagnames},}F77

# Name of the host.
# hostname on some systems (SVR3.2, Linux) returns a bogus exit status,
# so uname gets run too.
ac_hostname=`(hostname || uname -n) 2>/dev/null | sed 1q`

exec 6>&1

#

```

```

# Initializations.
#
ac_default_prefix=/usr/local
ac_config_libobj_dir=.
cross_compiling=no
subdirs=
MFLAGS=
MAKEFLAGS=
SHELL=${CONFIG_SHELL-/bin/sh}

# Maximum number of lines to put in a shell here document.
# This variable seems obsolete. It should probably be removed, and
# only ac_max_sed_lines should be used.
: ${ac_max_here_lines=38}

# Identity of this package.
PACKAGE_NAME='sysfsutils'
PACKAGE_TARNAME='sysfsutils'
PACKAGE_VERSION='2.1.0'
PACKAGE_STRING='sysfsutils 2.1.0'
PACKAGE_BUGREPORT='linux-diag-devel@lists.sourceforge.net'

ac_unique_file="config.h.in"
# Factoring default headers for most tests.
ac_includes_default="\
#include <stdio.h>
#if HAVE_SYS_TYPES_H
# include <sys/types.h>
#endif
#if HAVE_SYS_STAT_H
# include <sys/stat.h>
#endif
#if STDC_HEADERS
# include <stdlib.h>
# include <stddef.h>
#else
# if HAVE_STDLIB_H
# include <stdlib.h>
# endif
#endif
#if HAVE_STRING_H
# if !STDC_HEADERS && HAVE_MEMORY_H
# include <memory.h>
# endif
# include <string.h>
#endif
#if HAVE_STRINGS_H
# include <strings.h>
#endif
#if HAVE_INTTYPES_H
# include <inttypes.h>
#else
# if HAVE_STDINT_H
# include <stdint.h>

```

```

# endif
#endif
#if HAVE_UNISTD_H
# include <unistd.h>
#endif"

ac_subst_vars='SHELL PATH_SEPARATOR PACKAGE_NAME PACKAGE_TARNAME
PACKAGE_VERSION PACKAGE_STRING PACKAGE_BUGREPORT exec_prefix prefix
program_transform_name bindir sbindir libexecdir datadir sysconfdir
sharedstatedir localstatedir libdir includedir oldincludedir infodir
mandir build_alias host_alias target_alias DEFS ECHO_C ECHO_N ECHO_T LIBS
INSTALL_PROGRAM INSTALL_SCRIPT INSTALL_DATA CYGPATH_W PACKAGE VERSION
ACLOCAL AUTOCONF AUTOMAKE AUTOHEADER MAKEINFO install_sh STRIP
ac_ct_STRIP INSTALL_STRIP_PROGRAM mkdir_p AWK SET_MAKE am__leading_dot
AMTAR am__tar am__untar build build_cpu build_vendor build_os host
host_cpu host_vendor host_os KLCC KLIBC KLIBC_TRUE KLIBC_FALSE
EXTRA_CFLAGS CC CFLAGS LDFLAGS CPPFLAGS ac_ct_CC EXEEXT OBJEXT DEPEND
am__include am__quote AMDEP_TRUE AMDEP_FALSE AMDEPBACKSLASH CCDEPMODE
am__fastdepCC_TRUE am__fastdepCC_FALSE EGREP LN_S ECHO AR ac_ct_AR RANLIB
ac_ct_RANLIB CPP CXX CXXFLAGS ac_ct_CXX CXXDEPMODE am__fastdepCXX_TRUE
am__fastdepCXX_FALSE CXXCPP F77 FFLAGS ac_ct_F77 LIBTOOL LIBOBJS
LTLIBOBJS'
ac_subst_files=''

# Initialize some variables set by options.
ac_init_help=
ac_init_version=false
# The variables have the same names as the options, with
# dashes changed to underlines.
cache_file=/dev/null
exec_prefix=NONE
no_create=
no_recursion=
prefix=NONE
program_prefix=NONE
program_suffix=NONE
program_transform_name=s,x,x,
silent=
site=
srcdir=
verbose=
x_includes=NONE
x_libraries=NONE

# Installation directory options.
# These are left unexpanded so users can "make install exec_prefix=/foo"
# and all the variables that are supposed to be based on exec_prefix
# by default will actually change.
# Use braces instead of parens because sh, perl, etc. also accept them.
bindir='${exec_prefix}/bin'
sbindir='${exec_prefix}/sbin'
libexecdir='${exec_prefix}/libexec'
datadir='${prefix}/share'
sysconfdir='${prefix}/etc'

```



```

sharedstatedir='${prefix}/com'
localstatedir='${prefix}/var'
libdir='${exec_prefix}/lib'
includedir='${prefix}/include'
oldincludedir='/usr/include'
infodir='${prefix}/info'
mandir='${prefix}/man'

ac_prev=
for ac_option
do
  # If the previous option needs an argument, assign it.
  if test -n "$ac_prev"; then
    eval "$ac_prev=\$ac_option"
    ac_prev=
    continue
  fi

  ac_optarg=`expr "x$ac_option" : 'x[^=]*=\.(\.*\)'`

  # Accept the important Cygnus configure options, so we can diagnose
  typos.

  case $ac_option in

    -bindir | --bindir | --bindi | --bind | --bin | --bi)
      ac_prev=bindir ;;
    -bindir=* | --bindir=* | --bindi=* | --bind=* | --bin=* | --bi=*)
      bindir=$ac_optarg ;;

    -build | --build | --buil | --bui | --bu)
      ac_prev=build_alias ;;
    -build=* | --build=* | --buil=* | --bui=* | --bu=*)
      build_alias=$ac_optarg ;;

    -cache-file | --cache-file | --cache-fil | --cache-fi \
    | --cache-f | --cache- | --cache | --cach | --cac | --ca | --c)
      ac_prev=cache_file ;;
    -cache-file=* | --cache-file=* | --cache-fil=* | --cache-fi=* \
    | --cache-f=* | --cache-=* | --cache=* | --cach=* | --cac=* | --ca=* |
    --c=*)
      cache_file=$ac_optarg ;;

    --config-cache | -C)
      cache_file=config.cache ;;

    -datadir | --datadir | --datadi | --datad | --data | --dat | --da)
      ac_prev=datadir ;;
    -datadir=* | --datadir=* | --datadi=* | --datad=* | --data=* | --dat=*
    \
    | --da=*)
      datadir=$ac_optarg ;;

    -disable-* | --disable-*)

```

```

ac_feature=`expr "x$ac_option" : 'x-*disable-\(.*\)'\`
# Reject names that are not valid shell variable names.
expr "x$ac_feature" : ".*[^\_$_$as_cr_alnum]" >/dev/null &&
{ echo "$as_me: error: invalid feature name: $ac_feature" >&2
{ (exit 1); exit 1; }; }
ac_feature=`echo $ac_feature | sed 's/-/_/g'\`
eval "enable_$ac_feature=no" ;;

-enable-* | --enable-*)
ac_feature=`expr "x$ac_option" : 'x-*enable-\([^=]*\)'\`
# Reject names that are not valid shell variable names.
expr "x$ac_feature" : ".*[^\_$_$as_cr_alnum]" >/dev/null &&
{ echo "$as_me: error: invalid feature name: $ac_feature" >&2
{ (exit 1); exit 1; }; }
ac_feature=`echo $ac_feature | sed 's/-/_/g'\`
case $ac_option in
  *=*) ac_optarg=`echo "$ac_optarg" | sed "s/'/'\\\\\\\\\\\\\\\\'/g"`;;
  *) ac_optarg=yes ;;
esac
eval "enable_$ac_feature='$ac_optarg'" ;;

-exec-prefix | --exec_prefix | --exec-prefix | --exec-prefi \
| --exec-pref | --exec-pre | --exec-pr | --exec-p | --exec- \
| --exec | --exe | --ex)
ac_prev=exec_prefix ;;
-exec-prefix=* | --exec_prefix=* | --exec-prefix=* | --exec-prefi=* \
| --exec-pref=* | --exec-pre=* | --exec-pr=* | --exec-p=* | --exec=* \
| --exec=* | --exe=* | --ex=*)
exec_prefix=$ac_optarg ;;

-gas | --gas | --ga | --g)
# Obsolete; use --with-gas.
with_gas=yes ;;

-help | --help | --hel | --he | -h)
ac_init_help=long ;;
-help=r* | --help=r* | --hel=r* | --he=r* | -hr*)
ac_init_help=recursive ;;
-help=s* | --help=s* | --hel=s* | --he=s* | -hs*)
ac_init_help=short ;;

-host | --host | --hos | --ho)
ac_prev=host_alias ;;
-host=* | --host=* | --hos=* | --ho=*)
host_alias=$ac_optarg ;;

-includedir | --includedir | --includedi | --included | --include \
| --includ | --inclu | --incl | --inc)
ac_prev=includedir ;;
-includedir=* | --includedir=* | --includedi=* | --included=* | --
include=* \
| --includ=* | --inclu=* | --incl=* | --inc=*)
includedir=$ac_optarg ;;

```

```

-infodir | --infodir | --infodi | --infod | --info | --inf)
    ac_prev=infodir ;;
-infodir=* | --infodir=* | --infodi=* | --infod=* | --info=* | --inf=*)
    infodir=$ac_optarg ;;

-libdir | --libdir | --libdi | --libd)
    ac_prev=libdir ;;
-libdir=* | --libdir=* | --libdi=* | --libd=*)
    libdir=$ac_optarg ;;

-libexecdir | --libexecdir | --libexecdi | --libexecd | --libexec \
| --libexe | --libex | --libe)
    ac_prev=libexecdir ;;
-libexecdir=* | --libexecdir=* | --libexecdi=* | --libexecd=* | --
libexec=* \
| --libexe=* | --libex=* | --libe=*)
    libexecdir=$ac_optarg ;;

-localstatedir | --localstatedir | --localstatedi | --localstated \
| --localstate | --localstat | --localsta | --localst \
| --locals | --local | --loca | --loc | --lo)
    ac_prev=localstatedir ;;
-localstatedir=* | --localstatedir=* | --localstatedi=* | --
localstated=* \
| --localstate=* | --localstat=* | --localsta=* | --localst=* \
| --locals=* | --local=* | --loca=* | --loc=* | --lo=*)
    localstatedir=$ac_optarg ;;

-mandir | --mandir | --mandi | --mand | --man | --ma | --m)
    ac_prev=mandir ;;
-mandir=* | --mandir=* | --mandi=* | --mand=* | --man=* | --ma=* | --
m=*)
    mandir=$ac_optarg ;;

-nfp | --nfp | --nf)
    # Obsolete; use --without-fp.
    with_fp=no ;;

-no-create | --no-create | --no-creat | --no-crea | --no-cre \
| --no-cr | --no-c | -n)
    no_create=yes ;;

-no-recursion | --no-recursion | --no-recursio | --no-recursi \
| --no-recurs | --no-recur | --no-recu | --no-rec | --no-re | --no-r)
    no_recursion=yes ;;

-oldincludedir | --oldincludedir | --oldincludedi | --oldincluded \
| --oldinclude | --oldinclud | --oldinclu | --oldincl | --oldinc \
| --oldin | --oldi | --old | --ol | --o)
    ac_prev=oldincludedir ;;
-oldincludedir=* | --oldincludedir=* | --oldincludedi=* | --
oldincluded=* \
| --oldinclude=* | --oldinclud=* | --oldinclu=* | --oldincl=* | --
oldinc=* \

```

```

| --oldin=* | --oldi=* | --old=* | --ol=* | --o=*)
  oldincludedir=$ac_optarg ;;

-prefix | --prefix | --prefi | --pref | --pre | --pr | --p)
  ac_prev=prefix ;;
-prefix=* | --prefix=* | --prefi=* | --pref=* | --pre=* | --pr=* | --
p=*)
  prefix=$ac_optarg ;;

-program-prefix | --program-prefix | --program-prefi | --program-pref \
| --program-pre | --program-pr | --program-p)
  ac_prev=program_prefix ;;
-program-prefix=* | --program-prefix=* | --program-prefi=* \
| --program-pref=* | --program-pre=* | --program-pr=* | --program-p=*)
  program_prefix=$ac_optarg ;;

-program-suffix | --program-suffix | --program-suffi | --program-suff \
| --program-suf | --program-su | --program-s)
  ac_prev=program_suffix ;;
-program-suffix=* | --program-suffix=* | --program-suffi=* \
| --program-suff=* | --program-suf=* | --program-su=* | --program-s=*)
  program_suffix=$ac_optarg ;;

-program-transform-name | --program-transform-name \
| --program-transform-nam | --program-transform-na \
| --program-transform-n | --program-transform- \
| --program-transform | --program-transfor \
| --program-transfo | --program-transf \
| --program-trans | --program-tran \
| --progr-tra | --program-tr | --program-t)
  ac_prev=program_transform_name ;;
-program-transform-name=* | --program-transform-name=* \
| --program-transform-nam=* | --program-transform-na=* \
| --program-transform-n=* | --program-transform-=* \
| --program-transform=* | --program-transfor=* \
| --program-transfo=* | --program-transf=* \
| --program-trans=* | --program-tran=* \
| --progr-tra=* | --program-tr=* | --program-t=*)
  program_transform_name=$ac_optarg ;;

-q | -quiet | --quiet | --quie | --qui | --qu | --q \
| -silent | --silent | --silen | --sile | --sil)
  silent=yes ;;

-sbindir | --sbindir | --sbindi | --sbind | --sbin | --sbi | --sb)
  ac_prev=sbindir ;;
-sbindir=* | --sbindir=* | --sbindi=* | --sbind=* | --sbin=* \
| --sbi=* | --sb=*)
  sbindir=$ac_optarg ;;

-sharedstatedir | --sharedstatedir | --sharedstatedi \
| --sharedstated | --sharedstate | --sharedstat | --sharedsta \
| --sharedst | --shares | --shared | --share | --shar \
| --sha | --sh)

```

```

    ac_prev=sharedstatedir ;;
-sharedstatedir=* | --sharedstatedir=* | --sharedstatedi=* \
| --sharedstated=* | --sharedstate=* | --sharedstat=* | --sharedsta=* \
| --sharedst=* | --shareds=* | --shared=* | --share=* | --shar=* \
| --sha=* | --sh=*)
    sharedstatedir=$ac_optarg ;;

-site | --site | --sit)
    ac_prev=site ;;
-site=* | --site=* | --sit=*)
    site=$ac_optarg ;;

-srcdir | --srcdir | --srcdi | --srcd | --src | --sr)
    ac_prev=srcdir ;;
-srcdir=* | --srcdir=* | --srcdi=* | --srcd=* | --src=* | --sr=*)
    srcdir=$ac_optarg ;;

-sysconfdir | --sysconfdir | --sysconfdi | --sysconfd | --sysconf \
| --syscon | --sysco | --sysc | --sys | --sy)
    ac_prev=sysconfdir ;;
-sysconfdir=* | --sysconfdir=* | --sysconfdi=* | --sysconfd=* | --
sysconf=* \
| --syscon=* | --sysco=* | --sysc=* | --sys=* | --sy=*)
    sysconfdir=$ac_optarg ;;

-target | --target | --targe | --targ | --tar | --ta | --t)
    ac_prev=target_alias ;;
-target=* | --target=* | --targe=* | --targ=* | --tar=* | --ta=* | --
t=*)
    target_alias=$ac_optarg ;;

-v | -verbose | --verbose | --verbos | --verbo | --verb)
    verbose=yes ;;

-version | --version | --versio | --versi | --vers | -V)
    ac_init_version=: ;;

-with-* | --with-*)
    ac_package=`expr "x$ac_option" : 'x-*with-\([^=]*\) '`
    # Reject names that are not valid shell variable names.
    expr "x$ac_package" : ".*[^\_as_cr_alnum]" >/dev/null &&
    { echo "$as_me: error: invalid package name: $ac_package" >&2
    { (exit 1); exit 1; }; }
    ac_package=`echo $ac_package | sed 's/-/_/g'`
    case $ac_option in
    *=*) ac_optarg=`echo "$ac_optarg" | sed "s/'/'\\\\\\\\\\\\\\\\'/g"` ;;
    *) ac_optarg=yes ;;
    esac
    eval "with_$ac_package='$ac_optarg'" ;;

-without-* | --without-*)
    ac_package=`expr "x$ac_option" : 'x-*without-\(.*\) '`
    # Reject names that are not valid shell variable names.
    expr "x$ac_package" : ".*[^\_as_cr_alnum]" >/dev/null &&

```

```

    { echo "$as_me: error: invalid package name: $ac_package" >&2
    { (exit 1); exit 1; }; }
    ac_package=`echo $ac_package | sed 's/-/_/g'`
    eval "with_$ac_package=no" ;;

--x)
    # Obsolete; use --with-x.
    with_x=yes ;;

-x-includes | --x-includes | --x-include | --x-includ | --x-inclu \
| --x-incl | --x-inc | --x-in | --x-i)
    ac_prev=x_includes ;;
-x-includes=* | --x-includes=* | --x-include=* | --x-includ=* | --x-
inclu=* \
| --x-incl=* | --x-inc=* | --x-in=* | --x-i=*)
    x_includes=$ac_optarg ;;

-x-libraries | --x-libraries | --x-librarie | --x-librari \
| --x-librar | --x-libra | --x-libr | --x-lib | --x-li | --x-l)
    ac_prev=x_libraries ;;
-x-libraries=* | --x-libraries=* | --x-librarie=* | --x-librari=* \
| --x-librar=* | --x-libra=* | --x-libr=* | --x-lib=* | --x-li=* | --x-
l=*)
    x_libraries=$ac_optarg ;;

-*) { echo "$as_me: error: unrecognized option: $ac_option
Try `\$0 --help' for more information." >&2
    { (exit 1); exit 1; }; }
    ;;

*=*)
    ac_envvar=`expr "x$ac_option" : 'x\([^=]*\)='`
    # Reject names that are not valid shell variable names.
    expr "x$ac_envvar" : ".*[^\$_$as_cr_alnum]" >/dev/null &&
    { echo "$as_me: error: invalid variable name: $ac_envvar" >&2
    { (exit 1); exit 1; }; }
    ac_optarg=`echo "$ac_optarg" | sed "s/'/'\\\\\\\\\\\\\\\\'/g"`
    eval "$ac_envvar='$ac_optarg'"
    export $ac_envvar ;;

*)
    # FIXME: should be removed in autoconf 3.0.
    echo "$as_me: WARNING: you should use --build, --host, --target" >&2
    expr "x$ac_option" : ".*[^\_.$as_cr_alnum]" >/dev/null &&
    echo "$as_me: WARNING: invalid host type: $ac_option" >&2
    : ${build_alias=$ac_option} ${host_alias=$ac_option}
    ${target_alias=$ac_option}
    ;;

esac
done

if test -n "$ac_prev"; then
    ac_option=--`echo $ac_prev | sed 's/_/_/g'`

```

```

    { echo "$as_me: error: missing argument to $ac_option" >&2
      { (exit 1); exit 1; }; }
fi

# Be sure to have absolute paths.
for ac_var in exec_prefix prefix
do
    eval ac_val=$`echo $ac_var`
    case $ac_val in
        [\\/$]* | ?:[\\/$]* | NONE | '' ) ;;
        *) { echo "$as_me: error: expected an absolute directory name for --
$ac_var: $ac_val" >&2
          { (exit 1); exit 1; }; }; };
    esac
done

# Be sure to have absolute paths.
for ac_var in bindir sbindir libexecdir datadir sysconfdir sharedstatedir
\
    localstatedir libdir includedir oldincludedir infodir mandir
do
    eval ac_val=$`echo $ac_var`
    case $ac_val in
        [\\/$]* | ?:[\\/$]* ) ;;
        *) { echo "$as_me: error: expected an absolute directory name for --
$ac_var: $ac_val" >&2
          { (exit 1); exit 1; }; }; };
    esac
done

# There might be people who depend on the old broken behavior: ` $host '
# used to hold the argument of --host etc.
# FIXME: To remove some day.
build=$build_alias
host=$host_alias
target=$target_alias

# FIXME: To remove some day.
if test "x$host_alias" != x; then
    if test "x$build_alias" = x; then
        cross_compiling=maybe
        echo "$as_me: WARNING: If you wanted to set the --build type, don't
use --host.
        If a cross compiler is detected then cross compile mode will be
used." >&2
        elif test "x$build_alias" != "x$host_alias"; then
            cross_compiling=yes
        fi
    fi
fi

ac_tool_prefix=
test -n "$host_alias" && ac_tool_prefix=$host_alias-

test "$silent" = yes && exec 6>/dev/null

```

```

# Find the source files, if location was not specified.
if test -z "$srcdir"; then
  ac_srcdir_defaulted=yes
  # Try the directory containing this script, then its parent.
  ac_confdir=`dirname "$0" 2>/dev/null ||
$as_expr X"$0" : 'X\(.*[^/]\)\/*[^/][^/]*/*$' \|| \
  X"$0" : 'X\(//\)[^/]' \|| \
  X"$0" : 'X\(//\)$' \|| \
  X"$0" : 'X\(/\)' \|| \
  . : '\(.\)' 2>/dev/null ||
echo X"$0" |
  sed '/^X\(.*[^/]\)\//\/*[^/][^/]*\/*$/{ s//\1/; q; }
/^X\(\\/\)\[/^].*/{ s//\1/; q; }
/^X\(\\/\)\$/{ s//\1/; q; }
/^X\(\/\)\.*/{ s//\1/; q; }
s/.*/./; q'`
  srcdir=$ac_confdir
  if test ! -r $srcdir/$ac_unique_file; then
    srcdir=..
  fi
else
  ac_srcdir_defaulted=no
fi
if test ! -r $srcdir/$ac_unique_file; then
  if test "$ac_srcdir_defaulted" = yes; then
    { echo "$as_me: error: cannot find sources ($ac_unique_file) in
$ac_confdir or .." >&2
    { (exit 1); exit 1; }; }
  else
    { echo "$as_me: error: cannot find sources ($ac_unique_file) in
$srcdir" >&2
    { (exit 1); exit 1; }; }
  fi
fi
(cd $srcdir && test -r ./$ac_unique_file) 2>/dev/null ||
  { echo "$as_me: error: sources are in $srcdir, but `cd $srcdir` does
not work" >&2
  { (exit 1); exit 1; }; }
srcdir=`echo "$srcdir" | sed 's%\([^\\/\]\)\[\\/\]*$%\1%'`
ac_env_build_alias_set=${build_alias+set}
ac_env_build_alias_value=$build_alias
ac_cv_env_build_alias_set=${build_alias+set}
ac_cv_env_build_alias_value=$build_alias
ac_env_host_alias_set=${host_alias+set}
ac_env_host_alias_value=$host_alias
ac_cv_env_host_alias_set=${host_alias+set}
ac_cv_env_host_alias_value=$host_alias
ac_env_target_alias_set=${target_alias+set}
ac_env_target_alias_value=$target_alias
ac_cv_env_target_alias_set=${target_alias+set}
ac_cv_env_target_alias_value=$target_alias
ac_env_CC_set=${CC+set}

```



```

ac_env_CC_value=$CC
ac_cv_env_CC_set=${CC+set}
ac_cv_env_CC_value=$CC
ac_env_CFLAGS_set=${CFLAGS+set}
ac_env_CFLAGS_value=$CFLAGS
ac_cv_env_CFLAGS_set=${CFLAGS+set}
ac_cv_env_CFLAGS_value=$CFLAGS
ac_env_LDFLAGS_set=${LDFLAGS+set}
ac_env_LDFLAGS_value=$LDFLAGS
ac_cv_env_LDFLAGS_set=${LDFLAGS+set}
ac_cv_env_LDFLAGS_value=$LDFLAGS
ac_env_CPPFLAGS_set=${CPPFLAGS+set}
ac_env_CPPFLAGS_value=$CPPFLAGS
ac_cv_env_CPPFLAGS_set=${CPPFLAGS+set}
ac_cv_env_CPPFLAGS_value=$CPPFLAGS
ac_env_CPP_set=${CPP+set}
ac_env_CPP_value=$CPP
ac_cv_env_CPP_set=${CPP+set}
ac_cv_env_CPP_value=$CPP
ac_env_CXX_set=${CXX+set}
ac_env_CXX_value=$CXX
ac_cv_env_CXX_set=${CXX+set}
ac_cv_env_CXX_value=$CXX
ac_env_CXXFLAGS_set=${CXXFLAGS+set}
ac_env_CXXFLAGS_value=$CXXFLAGS
ac_cv_env_CXXFLAGS_set=${CXXFLAGS+set}
ac_cv_env_CXXFLAGS_value=$CXXFLAGS
ac_env_CXXCPP_set=${CXXCPP+set}
ac_env_CXXCPP_value=$CXXCPP
ac_cv_env_CXXCPP_set=${CXXCPP+set}
ac_cv_env_CXXCPP_value=$CXXCPP
ac_env_F77_set=${F77+set}
ac_env_F77_value=$F77
ac_cv_env_F77_set=${F77+set}
ac_cv_env_F77_value=$F77
ac_env_FFLAGS_set=${FFLAGS+set}
ac_env_FFLAGS_value=$FFLAGS
ac_cv_env_FFLAGS_set=${FFLAGS+set}
ac_cv_env_FFLAGS_value=$FFLAGS

#
# Report the --help message.
#
if test "$ac_init_help" = "long"; then
  # Omit some internal or obsolete options to make the list less
  imposing.
  # This message is too long to be a string in the A/UX 3.1 sh.
  cat <<_ACEOF
\`configure' configures sysfsutils 2.1.0 to adapt to many kinds of
systems.

```

Usage: \$0 [OPTION]... [VAR=VALUE]...

To assign environment variables (e.g., CC, CFLAGS...), specify them as

VAR=VALUE. See below for descriptions of some of the useful variables.

Defaults for the options are specified in brackets.

Configuration:

```
-h, --help                display this help and exit
  --help=short            display options specific to this package
  --help=recursive       display the short help of all the included
packages
-V, --version            display version information and exit
-q, --quiet, --silent    do not print '\`checking...`' messages
  --cache-file=FILE      cache test results in FILE [disabled]
-C, --config-cache      alias for '\`--cache-file=config.cache`'
-n, --no-create          do not create output files
  --srcdir=DIR           find the sources in DIR [configure dir or
\`..`']
```

\_ACEOF

```
cat <<_ACEOF
Installation directories:
  --prefix=PREFIX        install architecture-independent files in
PREFIX
                        [$ac_default_prefix]
  --exec-prefix=EPREFIX  install architecture-dependent files in EPREFIX
                        [PREFIX]
```

By default, '\`make install`' will install all the files in  
\`\$ac\_default\_prefix/bin', '\`\$ac\_default\_prefix/lib`' etc. You can  
specify  
an installation prefix other than '\`\$ac\_default\_prefix`' using '\`--  
prefix`,  
for instance '\`--prefix=\$HOME`'.

For better control, use the options below.

Fine tuning of the installation directories:

```
--bindir=DIR             user executables [EPREFIX/bin]
--sbindir=DIR           system admin executables [EPREFIX/sbin]
--libexecdir=DIR        program executables [EPREFIX/libexec]
--datadir=DIR           read-only architecture-independent data
[PREFIX/share]
--sysconfdir=DIR        read-only single-machine data [PREFIX/etc]
--sharedstatedir=DIR    modifiable architecture-independent data
[PREFIX/com]
--localstatedir=DIR     modifiable single-machine data [PREFIX/var]
--libdir=DIR            object code libraries [EPREFIX/lib]
--includedir=DIR        C header files [PREFIX/include]
--oldincludedir=DIR     C header files for non-gcc [/usr/include]
--infodir=DIR           info documentation [PREFIX/info]
--mandir=DIR            man documentation [PREFIX/man]
```

\_ACEOF

```
cat <<\_ACEOF
```

Program names:

```
--program-prefix=PREFIX      prepend PREFIX to installed program
names
--program-suffix=SUFFIX      append SUFFIX to installed program
names
--program-transform-name=PROGRAM  run sed PROGRAM on installed program
names
```

System types:

```
--build=BUILD      configure for building on BUILD [guessed]
--host=HOST        cross-compile to build programs to run on HOST
[BUILD]
_ACEOF
fi
```

```
if test -n "$ac_init_help"; then
  case $ac_init_help in
    short | recursive ) echo "Configuration of sysfsutils 2.1.0:>";;
    esac
  cat <<\_ACEOF
```

Optional Features:

```
--disable-FEATURE      do not include FEATURE (same as --enable-
FEATURE=no)
--enable-FEATURE[=ARG] include FEATURE [ARG=yes]
--enable-klibc          Enable linking to klibc [no]. You need at least
klibc-1.0 or later for this. Set KLCC to the
absolute file name of klcc if not in the PATH
--enable-klibc-layout  Enable installing binaries, libraries and
headers
                        into the klibc prefix [yes]
--enable-shared[=PKGS] build shared libraries [default=yes]
--enable-static[=PKGS] build static libraries [default=yes]
--enable-fast-install[=PKGS]
                        optimize for fast installation [default=yes]
--disable-dependency-tracking speeds up one-time build
--enable-dependency-tracking do not reject slow dependency extractors
--disable-libtool-lock  avoid locking (might break parallel builds)
```

Optional Packages:

```
--with-PACKAGE[=ARG]   use PACKAGE [ARG=yes]
--without-PACKAGE      do not use PACKAGE (same as --with-PACKAGE=no)
--with-gnu-ld          assume the C compiler uses GNU ld [default=no]
--with-pic             try to use only PIC/non-PIC objects
[default=use          both]
--with-tags[=TAGS]    include additional configurations [automatic]
```

Some influential environment variables:

```
CC          C compiler command
```

```

CFLAGS      C compiler flags
LDFLAGS     linker flags, e.g. -L<lib dir> if you have libraries in a
            nonstandard directory <lib dir>
CPPFLAGS    C/C++ preprocessor flags, e.g. -I<include dir> if you have
            headers in a nonstandard directory <include dir>
CPP         C preprocessor
CXX         C++ compiler command
CXXFLAGS    C++ compiler flags
CXXCPP      C++ preprocessor
F77         Fortran 77 compiler command
FFLAGS      Fortran 77 compiler flags

```

Use these variables to override the choices made by `configure' or to help it to find libraries and programs with nonstandard names/locations.

Report bugs to <linux-diag-devel@lists.sourceforge.net>.

```

_ACEOF
fi

```

```

if test "$ac_init_help" = "recursive"; then
  # If there are subdirs, report their specific --help.
  ac_popdir=`pwd`
  for ac_dir in : $ac_subdirs_all; do test "x$ac_dir" = x: && continue
    test -d $ac_dir || continue
    ac_builddir=.
  done
fi

```

```

if test "$ac_dir" != .; then
  ac_dir_suffix=/`echo "$ac_dir" | sed 's,^\.[\|/],, '`
  # A "../" for each directory in $ac_dir_suffix.
  ac_top_builddir=`echo "$ac_dir_suffix" | sed 's,/[^\|/]*,../,g'`
else
  ac_dir_suffix= ac_top_builddir=
fi

```

```

case $srcdir in
  .) # No --srcdir option. We are building in place.
    ac_srcdir=.
    if test -z "$ac_top_builddir"; then
      ac_top_srcdir=.
    else
      ac_top_srcdir=`echo $ac_top_builddir | sed 's,/$,, '`
    fi ;;
  [\\|/* | ?:[\\|/*]* ) # Absolute path.
    ac_srcdir=$srcdir$ac_dir_suffix;
    ac_top_srcdir=$srcdir ;;
  *) # Relative path.
    ac_srcdir=$ac_top_builddir$srcdir$ac_dir_suffix
    ac_top_srcdir=$ac_top_builddir$srcdir ;;
esac

```

# Do not use `cd foo && pwd` to compute absolute paths, because # the directories may not exist.

```

case `pwd` in

```

```

.) ac_abs_buildddir="$ac_dir";;
*)
  case "$ac_dir" in
  .) ac_abs_buildddir=`pwd`;;
  [\\/] * | ?:[\\/] * ) ac_abs_buildddir="$ac_dir";;
  *) ac_abs_buildddir=`pwd`/"$ac_dir";;
  esac;;
esac
case $ac_abs_buildddir in
.) ac_abs_top_buildddir=${ac_top_buildddir}.;;
*)
  case ${ac_top_buildddir}. in
  .) ac_abs_top_buildddir=$ac_abs_buildddir;;
  [\\/] * | ?:[\\/] * ) ac_abs_top_buildddir=${ac_top_buildddir}.;;
  *) ac_abs_top_buildddir=$ac_abs_buildddir/${ac_top_buildddir}.;;
  esac;;
esac
case $ac_abs_buildddir in
.) ac_abs_srcdir=$ac_srcdir;;
*)
  case $ac_srcdir in
  .) ac_abs_srcdir=$ac_abs_buildddir;;
  [\\/] * | ?:[\\/] * ) ac_abs_srcdir=$ac_srcdir;;
  *) ac_abs_srcdir=$ac_abs_buildddir/$ac_srcdir;;
  esac;;
esac
case $ac_abs_buildddir in
.) ac_abs_top_srcdir=$ac_top_srcdir;;
*)
  case $ac_top_srcdir in
  .) ac_abs_top_srcdir=$ac_abs_buildddir;;
  [\\/] * | ?:[\\/] * ) ac_abs_top_srcdir=$ac_top_srcdir;;
  *) ac_abs_top_srcdir=$ac_abs_buildddir/$ac_top_srcdir;;
  esac;;
esac

  cd $ac_dir
  # Check for gusted configure; otherwise get Cygnus style configure.
  if test -f $ac_srcdir/configure.gnu; then
    echo
    $SHELL $ac_srcdir/configure.gnu --help=recursive
  elif test -f $ac_srcdir/configure; then
    echo
    $SHELL $ac_srcdir/configure --help=recursive
  elif test -f $ac_srcdir/configure.ac ||
    test -f $ac_srcdir/configure.in; then
    echo
    $ac_configure --help
  else
    echo "$as_me: WARNING: no configuration information is in $ac_dir"
  >&2
  fi
  cd $ac_popdir
done

```

```
fi
```

```
test -n "$ac_init_help" && exit 0
if $ac_init_version; then
  cat <<\_ACEOF
sysfsutils configure 2.1.0
generated by GNU Autoconf 2.59
```

Copyright (C) 2003 Free Software Foundation, Inc.  
This configure script is free software; the Free Software Foundation  
gives unlimited permission to copy, distribute and modify it.

```
_ACEOF
_
exit 0
```

```
fi
```

```
exec 5>config.log
```

```
cat >&5 <<_ACEOF
```

This file contains any messages produced by compilers while  
running configure, to aid debugging if configure makes a mistake.

It was created by sysfsutils \$as\_me 2.1.0, which was  
generated by GNU Autoconf 2.59. Invocation command line was

```
 $ $0 $@
```

```
_ACEOF
```

```
{
```

```
cat <<_ASUNAME
```

```
## ----- ##
```

```
## Platform. ##
```

```
## ----- ##
```

```
hostname = `(hostname || uname -n) 2>/dev/null | sed 1q`
```

```
uname -m = `(uname -m) 2>/dev/null || echo unknown`
```

```
uname -r = `(uname -r) 2>/dev/null || echo unknown`
```

```
uname -s = `(uname -s) 2>/dev/null || echo unknown`
```

```
uname -v = `(uname -v) 2>/dev/null || echo unknown`
```

```
/usr/bin/uname -p = `(/usr/bin/uname -p) 2>/dev/null || echo unknown`
```

```
/bin/uname -X = `(/bin/uname -X) 2>/dev/null || echo unknown`
```

```
/bin/arch = `(/bin/arch) 2>/dev/null || echo  
unknown`
```

```
/usr/bin/arch -k = `(/usr/bin/arch -k) 2>/dev/null || echo  
unknown`
```

```
/usr/convex/getsysinfo = `(/usr/convex/getsysinfo) 2>/dev/null || echo  
unknown`
```

```
hostinfo = `(hostinfo) 2>/dev/null || echo  
unknown`
```

```
/bin/machine = `(/bin/machine) 2>/dev/null || echo  
unknown`
```

```
/usr/bin/oslevel = `(/usr/bin/oslevel) 2>/dev/null || echo  
unknown`
```

```
/bin/universe = `(/bin/universe) 2>/dev/null || echo  
unknown`
```

```

_ASUNAME

as_save_IFS=$IFS; IFS=$PATH_SEPARATOR
for as_dir in $PATH
do
  IFS=$as_save_IFS
  test -z "$as_dir" && as_dir=.
  echo "PATH: $as_dir"
done

} >&5

cat >&5 <<_ACEOF

## ----- ##
## Core tests. ##
## ----- ##

_ACEOF

# Keep a trace of the command line.
# Strip out --no-create and --no-recursion so they do not pile up.
# Strip out --silent because we don't want to record it for future runs.
# Also quote any args containing shell meta-characters.
# Make two passes to allow for proper duplicate-argument suppression.
ac_configure_args=
ac_configure_args0=
ac_configure_args1=
ac_sep=
ac_must_keep_next=false
for ac_pass in 1 2
do
  for ac_arg
  do
    case $ac_arg in
      -no-create | --no-c* | -n | -no-recursion | --no-r*) continue ;;
      -q | -quiet | --quiet | --quie | --qui | --qu | --q \
      | -silent | --silent | --silen | --sile | --sil)
        continue ;;
      *" *|*"      "*|*[\[\]\~\#\$\^\&\*\(\)\{\}\|\|;\<\>?\\"'']*")
        ac_arg=`echo "$ac_arg" | sed "s/'/'\\\\\\\\\\\\\\\\'/g"` ;;
    esac
    case $ac_pass in
      1) ac_configure_args0="$ac_configure_args0 '$ac_arg'" ;;
      2)
        ac_configure_args1="$ac_configure_args1 '$ac_arg'"
        if test $ac_must_keep_next = true; then
          ac_must_keep_next=false # Got value, back to normal.
        else
          case $ac_arg in
            *=* | --config-cache | -C | -disable-* | --disable-* \

```

```

| -enable-* | --enable-* | -gas | --g* | -nfp | --nf* \
| -q | -quiet | --q* | -silent | --sil* | -v | -verb* \
| -with-* | --with-* | -without-* | --without-* | --x)
case "$ac_configure_args0 " in
    "$ac_configure_args1"* " '$ac_arg' "*" ) continue ;;
esac
;;
-* ) ac_must_keep_next=true ;;
esac
fi
ac_configure_args="$ac_configure_args$ac_sep'$ac_arg'"
# Get rid of the leading space.
ac_sep=" "
;;
esac
done
done
$as_unset ac_configure_args0 || test "${ac_configure_args0+set}" != set
|| { ac_configure_args0=; export ac_configure_args0; }
$as_unset ac_configure_args1 || test "${ac_configure_args1+set}" != set
|| { ac_configure_args1=; export ac_configure_args1; }

# When interrupted or exit'd, cleanup temporary files, and complete
# config.log. We remove comments because anyway the quotes in there
# would cause problems or look ugly.
# WARNING: Be sure not to use single quotes in there, as some shells,
# such as our DU 5.0 friend, will then `close' the trap.
trap 'exit_status=$?'
# Save into config.log some information that might help in debugging.
{
    echo

    cat <<\_ASBOX
## ----- ##
## Cache variables. ##
## ----- ##
_ASBOX
    echo
    # The following way of writing the cache mishandles newlines in
    values,
    {
        (set) 2>&1 |
        case `(ac_space=''' ''''; set | grep ac_space) 2>&1` in
        *ac_space=\ *)
            sed -n \
            "s/''''/''''\\\\"''''''''/g;

s/^\\([_ $as_cr_alnum]*_cv_[_ $as_cr_alnum]*\\)=\\(.*\\)/\\1=\\2''''/
p"
            ;;
        *)
            sed -n \
            "s/^\\([_ $as_cr_alnum]*_cv_[_ $as_cr_alnum]*\\)=\\(.*\\)/\\1=\\2/p"
            ;;
    }

```



```

    esac;
}
echo

    cat <<\_ASBOX
## ----- ##
## Output variables. ##
## ----- ##
_ASBOX
echo
for ac_var in $ac_subst_vars
do
    eval ac_val=$`echo $ac_var`
    echo "$ac_var=''''$ac_val'''"
done | sort
echo

    if test -n "$ac_subst_files"; then
        cat <<\_ASBOX
## ----- ##
## Output files. ##
## ----- ##
_ASBOX
echo
for ac_var in $ac_subst_files
do
    eval ac_val=$`echo $ac_var`
    echo "$ac_var=''''$ac_val'''"
done | sort
echo
fi

    if test -s confdefs.h; then
        cat <<\_ASBOX
## ----- ##
## confdefs.h. ##
## ----- ##
_ASBOX
echo
sed "/^$/d" confdefs.h | sort
echo
fi
test "$ac_signal" != 0 &&
    echo "$as_me: caught signal $ac_signal"
    echo "$as_me: exit $exit_status"
} >&5
rm -f core *.core &&
rm -rf conftest* confdefs* conf$$* $ac_clean_files &&
exit $exit_status
' 0
for ac_signal in 1 2 13 15; do
    trap 'ac_signal='$ac_signal'; { (exit 1); exit 1; }' $ac_signal
done
ac_signal=0

```

```

# confdefs.h avoids OS command line length limits that DEFS can exceed.
rm -rf confdefs.h
# AIX cpp loses on an empty file, so make sure it contains at least a
newline.
echo >confdefs.h

```

```

# Predefined preprocessor variables.

```

```

cat >>confdefs.h <<_ACEOF
#define PACKAGE_NAME "$PACKAGE_NAME"
_ACEOF

```

```

cat >>confdefs.h <<_ACEOF
#define PACKAGE_TARNAME "$PACKAGE_TARNAME"
_ACEOF

```

```

cat >>confdefs.h <<_ACEOF
#define PACKAGE_VERSION "$PACKAGE_VERSION"
_ACEOF

```

```

cat >>confdefs.h <<_ACEOF
#define PACKAGE_STRING "$PACKAGE_STRING"
_ACEOF

```

```

cat >>confdefs.h <<_ACEOF
#define PACKAGE_BUGREPORT "$PACKAGE_BUGREPORT"
_ACEOF

```

```

# Let the site file select an alternate cache file if it wants to.
# Prefer explicitly selected file to automatically selected ones.
if test -z "$CONFIG_SITE"; then
  if test "x$prefix" != xNONE; then
    CONFIG_SITE="$prefix/share/config.site $prefix/etc/config.site"
  else
    CONFIG_SITE="$ac_default_prefix/share/config.site
$ac_default_prefix/etc/config.site"
  fi
fi
for ac_site_file in $CONFIG_SITE; do
  if test -r "$ac_site_file"; then
    { echo "$as_me:$LINENO: loading site script $ac_site_file" >&5
echo "$as_me: loading site script $ac_site_file" >&6;}
    sed 's/^| /' "$ac_site_file" >&5
    . "$ac_site_file"
  fi
done

if test -r "$cache_file"; then

```

```

# Some versions of bash will fail to source /dev/null (special
# files actually), so we avoid doing that.
if test -f "$cache_file"; then
    { echo "$as_me:$LINENO: loading cache $cache_file" >&5
echo "$as_me: loading cache $cache_file" >&6;}
    case $cache_file in
        [\\/] * | ?:[\\/] * ) . $cache_file;;
        *) . ./ $cache_file;;
    esac
fi
else
    { echo "$as_me:$LINENO: creating cache $cache_file" >&5
echo "$as_me: creating cache $cache_file" >&6;}
    >$cache_file
fi

# Check that the precious variables saved in the cache have kept the same
# value.
ac_cache_corrupted=false
for ac_var in `(set) 2>&1 |
    sed -n 's/^ac_env_\([a-zA-Z_0-9]*\)_set=.*\/\1/p'`; do
    eval ac_old_set=\${ac_cv_env_${ac_var}_set}
    eval ac_new_set=\${ac_env_${ac_var}_set}
    eval ac_old_val="\${ac_cv_env_${ac_var}_value}"
    eval ac_new_val="\${ac_env_${ac_var}_value}"
    case $ac_old_set,$ac_new_set in
        set,)
            { echo "$as_me:$LINENO: error: \`${ac_var}' was set to \`${ac_old_val}'
in the previous run" >&5
echo "$as_me: error: \`${ac_var}' was set to \`${ac_old_val}' in the previous
run" >&2;}
            ac_cache_corrupted=: ;;
        ,set)
            { echo "$as_me:$LINENO: error: \`${ac_var}' was not set in the
previous run" >&5
echo "$as_me: error: \`${ac_var}' was not set in the previous run" >&2;}
            ac_cache_corrupted=: ;;
        ,);)
            *)
                if test "x$ac_old_val" != "x$ac_new_val"; then
                    { echo "$as_me:$LINENO: error: \`${ac_var}' has changed since the
previous run:" >&5
echo "$as_me: error: \`${ac_var}' has changed since the previous run:"
>&2;}
                    { echo "$as_me:$LINENO: former value: $ac_old_val" >&5
echo "$as_me: former value: $ac_old_val" >&2;}
                    { echo "$as_me:$LINENO: current value: $ac_new_val" >&5
echo "$as_me: current value: $ac_new_val" >&2;}
                    ac_cache_corrupted=:
                    fi;;
    esac
# Pass precious variables to config.status.
if test "$ac_new_set" = set; then
    case $ac_new_val in

```

```

*" "|*"      "*|*[\[\]\~\#\$\^\&\*\(\)\{\}\|\|;\|<\>|\?\"'\']*
  ac_arg=$ac_var=`echo "$ac_new_val" | sed "s/'/'\\\\\\\\\\\\\\\\'/g"` ;;
*) ac_arg=$ac_var=$ac_new_val ;;
esac
case " $ac_configure_args " in
  *" '$ac_arg' "*" ) ;; # Avoid dups. Use of quotes ensures accuracy.
  *) ac_configure_args="$ac_configure_args '$ac_arg'" ;;
esac
fi
done
if $ac_cache_corrupted; then
  { echo "$as_me:$LINENO: error: changes in the environment can
compromise the build" >&5
echo "$as_me: error: changes in the environment can compromise the build"
>&2;}
  { { echo "$as_me:$LINENO: error: run `make distclean` and/or `rm
$cache_file` and start over" >&5
echo "$as_me: error: run `make distclean` and/or `rm $cache_file` and
start over" >&2;}
  { (exit 1); exit 1; }; }
fi

ac_ext=c
ac_cpp='$CPP $CPPFLAGS'
ac_compile='$CC -c $CFLAGS $CPPFLAGS conftest.$ac_ext >&5'
ac_link='$CC -o conftest$ac_exeext $CFLAGS $CPPFLAGS $LDFLAGS
conftest.$ac_ext $LIBS >&5'
ac_compiler_gnu=$ac_cv_c_compiler_gnu

```

```

am_api_version="1.9"
ac_aux_dir=
for ac_dir in $srcdir $srcdir/.. $srcdir/../../.; do
  if test -f $ac_dir/install-sh; then
    ac_aux_dir=$ac_dir
    ac_install_sh="$ac_aux_dir/install-sh -c"
    break
  elif test -f $ac_dir/install.sh; then
    ac_aux_dir=$ac_dir
    ac_install_sh="$ac_aux_dir/install.sh -c"
    break
  elif test -f $ac_dir/shtool; then
    ac_aux_dir=$ac_dir
    ac_install_sh="$ac_aux_dir/shtool install -c"
    break
  fi
done
if test -z "$ac_aux_dir"; then
  { { echo "$as_me:$LINENO: error: cannot find install-sh or install.sh
in $srcdir $srcdir/.. $srcdir/../../." >&5
echo "$as_me: error: cannot find install-sh or install.sh in $srcdir
$srcdir/.. $srcdir/../../." >&2;}
  { (exit 1); exit 1; }; }
fi
ac_config_guess="$SHELL $ac_aux_dir/config.guess"
ac_config_sub="$SHELL $ac_aux_dir/config.sub"
ac_configure="$SHELL $ac_aux_dir/configure" # This should be Cygnus
configure.

# Find a good install program.  We prefer a C program (faster),
# so one script is as good as another.  But avoid the broken or
# incompatible versions:
# SysV /etc/install, /usr/sbin/install
# SunOS /usr/etc/install
# IRIX /sbin/install
# AIX /bin/install
# AmigaOS /C/install, which installs bootblocks on floppy discs
# AIX 4 /usr/bin/installbsd, which doesn't work without a -g flag
# AFS /usr/afsws/bin/install, which mishandles nonexistent args
# SVR4 /usr/ucb/install, which tries to use the nonexistent group "staff"
# OS/2's system install, which has a completely different semantic
# ./install, which can be erroneously created by make from ./install.sh.
echo "$as_me:$LINENO: checking for a BSD-compatible install" >&5
echo $ECHO_N "checking for a BSD-compatible install... $ECHO_C" >&6
if test -z "$INSTALL"; then
if test "${ac_cv_path_install+set}" = set; then
  echo $ECHO_N "(cached) $ECHO_C" >&6
else
  as_save_IFS=$IFS; IFS=$PATH_SEPARATOR
  for as_dir in $PATH
  do
    IFS=$as_save_IFS
    test -z "$as_dir" && as_dir=.

```

```

# Account for people who put trailing slashes in PATH elements.
case $as_dir/ in
./ | ../ | /cC/* | \
/etc/* | /usr/sbin/* | /usr/etc/* | /sbin/* | /usr/afsws/bin/* | \
?:\\os2\\install\\/* | ?:\\OS2\\INSTALL\\/* | \
/usr/ucb/* ) ;;
*)
# OSF1 and SCO ODT 3.0 have their own names for install.
# Don't use installbsd from OSF since it installs stuff as root
# by default.
for ac_prog in ginstall scoinst install; do
for ac_exec_ext in ' $ac_executable_extensions; do
if $as_executable_p "$as_dir/$ac_prog$ac_exec_ext"; then
if test $ac_prog = install &&
grep dspmsg "$as_dir/$ac_prog$ac_exec_ext" >/dev/null 2>&1;
then
# AIX install. It has an incompatible calling convention.
:
elif test $ac_prog = install &&
grep pwplus "$as_dir/$ac_prog$ac_exec_ext" >/dev/null 2>&1;
then
# program-specific install script used by HP pwplus--don't use.
:
else
ac_cv_path_install="$as_dir/$ac_prog$ac_exec_ext -c"
break 3
fi
fi
done
done
;;
esac
done

fi
if test "${ac_cv_path_install+set}" = set; then
INSTALL=$ac_cv_path_install
else
# As a last resort, use the slow shell script. We don't cache a
# path for INSTALL within a source directory, because that will
# break other packages using the cache if that directory is
# removed, or if the path is relative.
INSTALL=$ac_install_sh
fi
fi
echo "$as_me:$LINENO: result: $INSTALL" >&5
echo "${ECHO_T}$INSTALL" >&6

# Use test -z because SunOS4 sh mishandles braces in ${var-val}.
# It thinks the first close brace ends the variable substitution.
test -z "$INSTALL_PROGRAM" && INSTALL_PROGRAM='${INSTALL}'

test -z "$INSTALL_SCRIPT" && INSTALL_SCRIPT='${INSTALL}'

```

```

test -z "$INSTALL_DATA" && INSTALL_DATA='${INSTALL} -m 644'

echo "$as_me:$LINENO: checking whether build environment is sane" >&5
echo $ECHO_N "checking whether build environment is sane... $ECHO_C" >&6
# Just in case
sleep 1
echo timestamp > confptest.file
# Do `set' in a subshell so we don't clobber the current shell's
# arguments.  Must try -L first in case configure is actually a
# symlink; some systems play weird games with the mod time of symlinks
# (eg FreeBSD returns the mod time of the symlink's containing
# directory).
if (
  set X `ls -Lt $srcdir/configure confptest.file 2> /dev/null`
  if test "$*" = "X"; then
    # -L didn't work.
    set X `ls -t $srcdir/configure confptest.file`
  fi
  rm -f confptest.file
  if test "$*" != "X $srcdir/configure confptest.file" \
    && test "$*" != "X confptest.file $srcdir/configure"; then

    # If neither matched, then we have a broken ls.  This can happen
    # if, for instance, CONFIG_SHELL is bash and it inherits a
    # broken ls alias from the environment.  This has actually
    # happened.  Such a system could not be considered "sane".
    { { echo "$as_me:$LINENO: error: ls -t appears to fail.  Make sure
there is not a broken
alias in your environment" >&5
echo "$as_me: error: ls -t appears to fail.  Make sure there is not a
broken
alias in your environment" >&2;}
  { (exit 1); exit 1; }; }
  fi

  test "$2" = confptest.file
)
then
  # Ok.
  :
else
  { { echo "$as_me:$LINENO: error: newly created file is older than
distributed files!
Check your system clock" >&5
echo "$as_me: error: newly created file is older than distributed files!
Check your system clock" >&2;}
  { (exit 1); exit 1; }; }
fi
echo "$as_me:$LINENO: result: yes" >&5
echo "${ECHO_T}yes" >&6
test "$program_prefix" != NONE &&
  program_transform_name="s,^,$program_prefix,;$program_transform_name"
# Use a double $ so make ignores it.

```

```

test "$program_suffix" != NONE &&
  program_transform_name="s,\$, $program_suffix,;$program_transform_name"
# Double any \ or $.  echo might interpret backslashes.
# By default was `s,x,x', remove it if useless.
cat <<\_ACEOF >confptest.sed
s/[\\\$]/&&/g;s/;/s,x,x,$//
\_ACEOF
program_transform_name=`echo $program_transform_name | sed -f
confptest.sed`
rm confptest.sed

# expand $ac_aux_dir to an absolute path
am_aux_dir=`cd $ac_aux_dir && pwd`

test x"${MISSING+set}" = xset || MISSING="\${SHELL} $am_aux_dir/missing"
# Use eval to expand $SHELL
if eval "$MISSING --run true"; then
  am_missing_run="$MISSING --run "
else
  am_missing_run=
  { echo "$as_me:$LINENO: WARNING: `missing' script is too old or
missing" >&5
echo "$as_me: WARNING: `missing' script is too old or missing" >&2;}
fi

if mkdir -p --version . >/dev/null 2>&1 && test ! -d ./--version; then
# We used to keeping the `.' as first argument, in order to
# allow $(mkdir_p) to be used without argument.  As in
# $(mkdir_p) $(somedir)
# where $(somedir) is conditionally defined.  However this is wrong
# for two reasons:
# 1. if the package is installed by a user who cannot write `.'
#    make install will fail,
# 2. the above comment should most certainly read
# $(mkdir_p) $(DESTDIR)$(somedir)
# so it does not work when $(somedir) is undefined and
# $(DESTDIR) is not.
# To support the latter case, we have to write
# test -z "$(somedir)" || $(mkdir_p) $(DESTDIR)$(somedir),
# so the `.' trick is pointless.
mkdir_p='mkdir -p --'
else
# On NextStep and OpenStep, the `mkdir' command does not
# recognize any option.  It will interpret all options as
# directories to create, and then abort because `.' already
# exists.
for d in ./-p ./--version;
do
  test -d $d && rmdir $d
done
# $(mkinstalldirs) is defined by Automake if mkinstalldirs exists.
if test -f "$ac_aux_dir/mkinstalldirs"; then
  mkdir_p='$(mkinstalldirs) '
else

```



```

    mkdir_p='$(install_sh) -d'
fi
fi

for ac_prog in gawk mawk nawk awk
do
    # Extract the first word of "$ac_prog", so it can be a program name
    with args.
    set dummy $ac_prog; ac_word=$2
    echo "$as_me:$LINENO: checking for $ac_word" >&5
    echo $ECHO_N "checking for $ac_word... $ECHO_C" >&6
    if test "${ac_cv_prog_AWK+set}" = set; then
        echo $ECHO_N "(cached) $ECHO_C" >&6
    else
        if test -n "$AWK"; then
            ac_cv_prog_AWK="$AWK" # Let the user override the test.
        else
            as_save_IFS=$IFS; IFS=$PATH_SEPARATOR
            for as_dir in $PATH
            do
                IFS=$as_save_IFS
                test -z "$as_dir" && as_dir=.
                for ac_exec_ext in ' $ac_executable_extensions; do
                    if $as_executable_p "$as_dir/$ac_word$ac_exec_ext"; then
                        ac_cv_prog_AWK="$ac_prog"
                        echo "$as_me:$LINENO: found $as_dir/$ac_word$ac_exec_ext" >&5
                        break 2
                    fi
                done
            done
            done

            fi
            fi
            AWK=$ac_cv_prog_AWK
            if test -n "$AWK"; then
                echo "$as_me:$LINENO: result: $AWK" >&5
                echo "${ECHO_T}$AWK" >&6
            else
                echo "$as_me:$LINENO: result: no" >&5
                echo "${ECHO_T}no" >&6
            fi

            test -n "$AWK" && break
        done

        echo "$as_me:$LINENO: checking whether ${MAKE-make} sets \$(MAKE)" >&5
        echo $ECHO_N "checking whether ${MAKE-make} sets \$(MAKE)... $ECHO_C" >&6
        set dummy ${MAKE-make}; ac_make=`echo "$2" | sed 'y,./+,-,___p_,'\`
        if eval "test \"\${ac_cv_prog_make_${ac_make}_set+set}\" = set"; then
            echo $ECHO_N "(cached) $ECHO_C" >&6
        else
            cat >conftest.make <<\_ACEOF
        all:
            @echo 'ac_maketemp="\$(MAKE) "'

```

```

_ACEOF
# GNU make sometimes prints "make[1]: Entering...", which would confuse
us.
eval ` ${MAKE-make} -f confptest.make 2>/dev/null | grep temp=`
if test -n "$ac_maketemp"; then
  eval ac_cv_prog_make_${ac_make}_set=yes
else
  eval ac_cv_prog_make_${ac_make}_set=no
fi
rm -f confptest.make
fi
if eval "test \"`echo '$ac_cv_prog_make_${ac_make}_set`\" = yes"; then
  echo "$as_me:$LINENO: result: yes" >&5
  echo "${ECHO_T}yes" >&6
  SET_MAKE=
else
  echo "$as_me:$LINENO: result: no" >&5
  echo "${ECHO_T}no" >&6
  SET_MAKE="MAKE=${MAKE-make}"
fi

rm -rf .tst 2>/dev/null
mkdir .tst 2>/dev/null
if test -d .tst; then
  am__leading_dot=.
else
  am__leading_dot=_
fi
rmdir .tst 2>/dev/null

# test to see if srcdir already configured
if test "`cd $srcdir && pwd`" != "`pwd`" &&
  test -f $srcdir/config.status; then
  { { echo "$as_me:$LINENO: error: source directory already configured;
run \"make distclean\" there first" >&5
echo "$as_me: error: source directory already configured; run \"make
distclean\" there first" >&2;}
  { (exit 1); exit 1; }; }
fi

# test whether we have cygpath
if test -z "$CYGPATH_W"; then
  if (cygpath --version) >/dev/null 2>/dev/null; then
    CYGPATH_W='cygpath -w'
  else
    CYGPATH_W='echo'
  fi
fi

# Define the identity of the package.
PACKAGE='sysfsutils'
VERSION='2.1.0'

```

```

cat >>confdefs.h <<_ACEOF
#define PACKAGE "$PACKAGE"
_ACEOF

cat >>confdefs.h <<_ACEOF
#define VERSION "$VERSION"
_ACEOF

# Some tools Automake needs.

ACLOCAL=${ACLOCAL-"${am_missing_run}aclocal-${am__api_version}"}

AUTOCONF=${AUTOCONF-"${am_missing_run}autoconf"}

AUTOMAKE=${AUTOMAKE-"${am_missing_run}automake-${am__api_version}"}

AUTOHEADER=${AUTOHEADER-"${am_missing_run}autoheader"}

MAKEINFO=${MAKEINFO-"${am_missing_run}makeinfo"}

install_sh=${install_sh-"$am_aux_dir/install-sh"}

# Installed binaries are usually stripped using `strip' when the user
# run `make install-strip'.  However `strip' might not be the right
# tool to use in cross-compilation environments, therefore Automake
# will honor the `STRIP' environment variable to overrule this program.
if test "$cross_compiling" != no; then
  if test -n "$ac_tool_prefix"; then
    # Extract the first word of "${ac_tool_prefix}strip", so it can be a
    program name with args.
    set dummy ${ac_tool_prefix}strip; ac_word=$2
    echo "$as_me:$LINENO: checking for $ac_word" >&5
    echo $ECHO_N "checking for $ac_word... $ECHO_C" >&6
    if test "${ac_cv_prog_STRIP+set}" = set; then
      echo $ECHO_N "(cached) $ECHO_C" >&6
    else
      if test -n "$STRIP"; then
        ac_cv_prog_STRIP="$STRIP" # Let the user override the test.
      else
        as_save_IFS=$IFS; IFS=$PATH_SEPARATOR
        for as_dir in $PATH
        do
          IFS=$as_save_IFS
          test -z "$as_dir" && as_dir=.
          for ac_exec_ext in ' $ac_executable_extensions; do
            if $as_executable_p "$as_dir/$ac_word$ac_exec_ext"; then
              ac_cv_prog_STRIP="${ac_tool_prefix}strip"
              echo "$as_me:$LINENO: found $as_dir/$ac_word$ac_exec_ext" >&5
            fi
          done
        done
      fi
    fi
  fi
fi

```

```

        break 2
    fi
done
done

fi
fi
STRIP=$ac_cv_prog_STRIP
if test -n "$STRIP"; then
    echo "$as_me:$LINENO: result: $STRIP" >&5
    echo "${ECHO_T}$STRIP" >&6
else
    echo "$as_me:$LINENO: result: no" >&5
    echo "${ECHO_T}no" >&6
fi

fi
if test -z "$ac_cv_prog_STRIP"; then
    ac_ct_STRIP=$STRIP
    # Extract the first word of "strip", so it can be a program name with
    args.
    set dummy strip; ac_word=$2
    echo "$as_me:$LINENO: checking for $ac_word" >&5
    echo $ECHO_N "checking for $ac_word... $ECHO_C" >&6
    if test "${ac_cv_prog_ac_ct_STRIP+set}" = set; then
        echo $ECHO_N "(cached) $ECHO_C" >&6
    else
        if test -n "$ac_ct_STRIP"; then
            ac_cv_prog_ac_ct_STRIP="$ac_ct_STRIP" # Let the user override the test.
        else
            as_save_IFS=$IFS; IFS=$PATH_SEPARATOR
            for as_dir in $PATH
            do
                IFS=$as_save_IFS
                test -z "$as_dir" && as_dir=.
                for ac_exec_ext in ' $ac_executable_extensions; do
                    if $as_executable_p "$as_dir/$ac_word$ac_exec_ext"; then
                        ac_cv_prog_ac_ct_STRIP="strip"
                        echo "$as_me:$LINENO: found $as_dir/$ac_word$ac_exec_ext" >&5
                        break 2
                    fi
                done
            done
            test -z "$ac_cv_prog_ac_ct_STRIP" && ac_cv_prog_ac_ct_STRIP=""
        fi
    fi
    ac_ct_STRIP=$ac_cv_prog_ac_ct_STRIP
    if test -n "$ac_ct_STRIP"; then
        echo "$as_me:$LINENO: result: $ac_ct_STRIP" >&5
        echo "${ECHO_T}$ac_ct_STRIP" >&6
    else
        echo "$as_me:$LINENO: result: no" >&5
        echo "${ECHO_T}no" >&6
    fi

```

```

fi

    STRIP=$ac_ct_STRIP
else
    STRIP="$ac_cv_prog_STRIP"
fi

fi

INSTALL_STRIP_PROGRAM="\${SHELL} \$(install_sh) -c -s"

# We need awk for the "check" target.  The system "awk" is bad on
# some platforms.
# Always define AMTAR for backward compatibility.

AMTAR=${AMTAR-"${am_missing_run}tar"}

am__tar='${AMTAR} chof - "$$stardir"'; am__untar='${AMTAR} xf -'

    ac_config_headers="$ac_config_headers config.h"

# Checks for KLIBC support (should be before AC_PROG_LIBTOOL and
AC_PROG_CC)
# Make sure we can run config.sub.
$ac_config_sub sun4 >/dev/null 2>&1 ||
    { { echo "$as_me:$LINENO: error: cannot run $ac_config_sub" >&5
echo "$as_me: error: cannot run $ac_config_sub" >&2;}
    { (exit 1); exit 1; }; }

echo "$as_me:$LINENO: checking build system type" >&5
echo $ECHO_N "checking build system type... $ECHO_C" >&6
if test "${ac_cv_build+set}" = set; then
    echo $ECHO_N "(cached) $ECHO_C" >&6
else
    ac_cv_build_alias=$build_alias
test -z "$ac_cv_build_alias" &&
    ac_cv_build_alias=`$ac_config_guess`
test -z "$ac_cv_build_alias" &&
    { { echo "$as_me:$LINENO: error: cannot guess build type; you must
specify one" >&5
echo "$as_me: error: cannot guess build type; you must specify one" >&2;}
    { (exit 1); exit 1; }; }
ac_cv_build=`$ac_config_sub $ac_cv_build_alias` ||
    { { echo "$as_me:$LINENO: error: $ac_config_sub $ac_cv_build_alias
failed" >&5
echo "$as_me: error: $ac_config_sub $ac_cv_build_alias failed" >&2;}
    { (exit 1); exit 1; }; }

fi

```

```

echo "$as_me:$LINENO: result: $ac_cv_build" >&5
echo "${ECHO_T}$ac_cv_build" >&6
build=$ac_cv_build
build_cpu=`echo $ac_cv_build | sed 's/^\([^-]*\)-\([^-]*\)-\(.*)$/\1/'`
build_vendor=`echo $ac_cv_build | sed 's/^\([^-]*\)-\([^-]*\)-\(.*)$/\2/'`
build_os=`echo $ac_cv_build | sed 's/^\([^-]*\)-\([^-]*\)-\(.*)$/\3/'`

echo "$as_me:$LINENO: checking host system type" >&5
echo $ECHO_N "checking host system type... $ECHO_C" >&6
if test "${ac_cv_host+set}" = set; then
  echo $ECHO_N "(cached) $ECHO_C" >&6
else
  ac_cv_host_alias=$host_alias
  test -z "$ac_cv_host_alias" &&
  ac_cv_host_alias=$ac_cv_build_alias
  ac_cv_host=`$ac_config_sub $ac_cv_host_alias` ||
  { { echo "$as_me:$LINENO: error: $ac_config_sub $ac_cv_host_alias
failed" >&5
echo "$as_me: error: $ac_config_sub $ac_cv_host_alias failed" >&2; }
  { (exit 1); exit 1; }; }
fi
echo "$as_me:$LINENO: result: $ac_cv_host" >&5
echo "${ECHO_T}$ac_cv_host" >&6
host=$ac_cv_host
host_cpu=`echo $ac_cv_host | sed 's/^\([^-]*\)-\([^-]*\)-\(.*)$/\1/'`
host_vendor=`echo $ac_cv_host | sed 's/^\([^-]*\)-\([^-]*\)-\(.*)$/\2/'`
host_os=`echo $ac_cv_host | sed 's/^\([^-]*\)-\([^-]*\)-\(.*)$/\3/'`

# Check whether --enable-klibc or --disable-klibc was given.
if test "${enable_klibc+set}" = set; then
  enableval="$enable_klibc"
  KLIBC=$enableval
else
  KLIBC=no
fi;
# Check whether --enable-klibc-layout or --disable-klibc-layout was
given.
if test "${enable_klibc_layout+set}" = set; then
  enableval="$enable_klibc_layout"
  if test "X$KLIBC" != Xno; then
    KLIBC_LAYOUT=$enableval
  else
    KLIBC_LAYOUT=no
  fi
else
  if test "X$KLIBC" != Xno; then
    KLIBC_LAYOUT=yes
  else

```

```

                KLIBC_LAYOUT=no
            fi
fi;

if test "X$KLIBC" != Xno; then
    # Basic cross compiling support.  I do not think it is wise to use
    # AC_CHECK_TOOL, because if we are cross compiling, we do not want
    # just 'klcc' to be returned ...
    if test "${host_alias}" != "${build_alias}"; then
        for ac_prog in ${host_alias}-klcc
        do
            # Extract the first word of "$ac_prog", so it can be a program name
            with args.
            set dummy $ac_prog; ac_word=$2
            echo "$as_me:$LINENO: checking for $ac_word" >&5
            echo $ECHO_N "checking for $ac_word... $ECHO_C" >&6
            if test "${ac_cv_prog_KLCC+set}" = set; then
                echo $ECHO_N "(cached) $ECHO_C" >&6
            else
                if test -n "$KLCC"; then
                    ac_cv_prog_KLCC="$KLCC" # Let the user override the test.
                else
                    as_save_IFS=$IFS; IFS=$PATH_SEPARATOR
                    for as_dir in $PATH
                    do
                        IFS=$as_save_IFS
                        test -z "$as_dir" && as_dir=.
                        for ac_exec_ext in ' $ac_executable_extensions; do
                            if $as_executable_p "$as_dir/$ac_word$ac_exec_ext"; then
                                ac_cv_prog_KLCC="$ac_prog"
                                echo "$as_me:$LINENO: found $as_dir/$ac_word$ac_exec_ext" >&5
                                break 2
                            fi
                        done
                    done
                fi
            fi
            KLCC=$ac_cv_prog_KLCC
            if test -n "$KLCC"; then
                echo "$as_me:$LINENO: result: $KLCC" >&5
                echo "${ECHO_T}$KLCC" >&6
            else
                echo "$as_me:$LINENO: result: no" >&5
                echo "${ECHO_T}no" >&6
            fi

            test -n "$KLCC" && break
        done
        test -n "$KLCC" || KLCC="no"

        else
            for ac_prog in klcc
            do

```

```

# Extract the first word of "$ac_prog", so it can be a program name
with args.
set dummy $ac_prog; ac_word=$2
echo "$as_me:$LINENO: checking for $ac_word" >&5
echo $ECHO_N "checking for $ac_word... $ECHO_C" >&6
if test "${ac_cv_prog_KLCC+set}" = set; then
  echo $ECHO_N "(cached) $ECHO_C" >&6
else
  if test -n "$KLCC"; then
    ac_cv_prog_KLCC="$KLCC" # Let the user override the test.
  else
as_save_IFS=$IFS; IFS=$PATH_SEPARATOR
for as_dir in $PATH
do
  IFS=$as_save_IFS
  test -z "$as_dir" && as_dir=.
  for ac_exec_ext in ' $ac_executable_extensions; do
  if $as_executable_p "$as_dir/$ac_word$ac_exec_ext"; then
    ac_cv_prog_KLCC="$ac_prog"
    echo "$as_me:$LINENO: found $as_dir/$ac_word$ac_exec_ext" >&5
    break 2
  fi
done
done

fi
fi
KLCC=$ac_cv_prog_KLCC
if test -n "$KLCC"; then
  echo "$as_me:$LINENO: result: $KLCC" >&5
  echo "${ECHO_T}$KLCC" >&6
else
  echo "$as_me:$LINENO: result: no" >&5
  echo "${ECHO_T}no" >&6
fi

  test -n "$KLCC" && break
done
test -n "$KLCC" || KLCC="no"

fi
if test "X$KLCC" = Xno; then
  { { echo "$as_me:$LINENO: error: cannot find klibc frontend 'klibc'"
>&5
echo "$as_me: error: cannot find klibc frontend 'klibc'" >&2;}
  { (exit 1); exit 1; }; }
fi

CC="$KLCC"
CFLAGS="-Os"

KLIBC_KCROSS="$($KLCC -print-klibc-kcross 2>/dev/null)"
KLIBC_PREFIX="$($KLCC -print-klibc-prefix 2>/dev/null)"
KLIBC_BIN_DIR="$($KLCC -print-klibc-bindir 2>/dev/null)"

```



```

KLIBC_SBIN_DIR="${KLIBC_PREFIX}/${KLIBC_KCROSS}sbin"
KLIBC_LIB_DIR="$($KLCC -print-klibc-libdir 2>/dev/null)"
KLIBC_INCLUDE_DIR="$($KLCC -print-klibc-includedir 2>/dev/null)"

if test "X$KLIBC_LAYOUT" != Xno; then
    prefix="$KLIBC_PREFIX"
    bindir="$KLIBC_BIN_DIR"
    sbindir="$KLIBC_SBIN_DIR"
    libdir="$KLIBC_LIB_DIR"
    includedir="$KLIBC_INCLUDE_DIR"
fi

# At least KLIBC_LIB_DIR should be valid, else klibc is too old or
# something went wrong
if test ! -d "$KLIBC_LIB_DIR"; then
    { { echo "$as_me:$LINENO: error: your klibc installation is too old
or not functional!" >&5
echo "$as_me: error: your klibc installation is too old or not
functional!" >&2;}
    { (exit 1); exit 1; }; }
fi
fi

if test "X$KLIBC" == Xyes; then
    # Should disable/enable building of shared libraries ... I am open
to better
    # suggestions though (AC_DISABLE_SHARED and co do not do the right
thing in
    # a situation like this that its runtime dependent) ...
    enable_shared="no"
    EXTRA_CFLAGS=
else
    # These ones make KLIBC compiles very loud
    EXTRA_CFLAGS="-Wshadow -Wmissing-prototypes -Wmissing-declarations
-Wredundant-decls -Wnested-externs"
fi

if test "X$KLIBC" == Xyes; then
    KLIBC_TRUE=
    KLIBC_FALSE='#'
else
    KLIBC_TRUE='#'
    KLIBC_FALSE=
fi

# Checks for LIBTOOL
# Check whether --enable-shared or --disable-shared was given.
if test "${enable_shared+set}" = set; then

```

```

enableval="$enable_shared"
p=${PACKAGE-default}
case $enableval in
  yes) enable_shared=yes ;;
  no) enable_shared=no ;;
  *)
    enable_shared=no
    # Look at the argument we got. We use all the common list
separators.
    lt_save_ifs="$IFS"; IFS="${IFS}$PATH_SEPARATOR,"
    for pkg in $enableval; do
      IFS="$lt_save_ifs"
      if test "X$pkg" = "X$p"; then
        enable_shared=yes
      fi
    done
    IFS="$lt_save_ifs"
    ;;
  esac
else
  enable_shared=yes
fi;

# Check whether --enable-static or --disable-static was given.
if test "${enable_static+set}" = set; then
  enableval="$enable_static"
  p=${PACKAGE-default}
  case $enableval in
    yes) enable_static=yes ;;
    no) enable_static=no ;;
    *)
      enable_static=no
      # Look at the argument we got. We use all the common list
separators.
      lt_save_ifs="$IFS"; IFS="${IFS}$PATH_SEPARATOR,"
      for pkg in $enableval; do
        IFS="$lt_save_ifs"
        if test "X$pkg" = "X$p"; then
          enable_static=yes
        fi
      done
      IFS="$lt_save_ifs"
      ;;
    esac
else
  enable_static=yes
fi;

# Check whether --enable-fast-install or --disable-fast-install was
given.
if test "${enable_fast_install+set}" = set; then
  enableval="$enable_fast_install"
  p=${PACKAGE-default}
  case $enableval in

```

```

yes) enable_fast_install=yes ;;
no) enable_fast_install=no ;;
*)
    enable_fast_install=no
    # Look at the argument we got. We use all the common list
separators.
    lt_save_ifs="$IFS"; IFS="${IFS}$PATH_SEPARATOR,"
    for pkg in $enableval; do
        IFS="$lt_save_ifs"
        if test "X$pkg" = "X$p"; then
            enable_fast_install=yes
        fi
    done
    IFS="$lt_save_ifs"
    ;;
esac
else
    enable_fast_install=yes
fi;

DEPDIR="${am__leading_dot}deps"

    ac_config_commands="$ac_config_commands depfiles"

am_make=${MAKE-make}
cat > confinc << 'END'
am__doit:
    @echo done
.PHONY: am__doit
END
# If we don't find an include directive, just comment out the code.
echo "$as_me:$LINENO: checking for style of include used by $am_make" >&5
echo $ECHO_N "checking for style of include used by $am_make... $ECHO_C"
>&6
am__include="#"
am__quote=
_am_result=none
# First try GNU make style include.
echo "include confinc" > confmf
# We grep out `Entering directory' and `Leaving directory'
# messages which can occur if `w' ends up in MAKEFLAGS.
# In particular we don't look at `^make:' because GNU make might
# be invoked under some other name (usually "gmake"), in which
# case it prints its new name instead of `make'.
if test "`$am_make -s -f confmf 2> /dev/null | grep -v 'ing directory'`"
= "done"; then
    am__include=include
    am__quote=
    _am_result=GNU
fi
# Now try BSD make style include.
if test "$am__include" = "#"; then
    echo '.include "confinc"' > confmf

```

```

    if test "`$am_make -s -f confmf 2> /dev/null`" = "done"; then
        am__include=.include
        am__quote="\\"
        _am_result=BSD
    fi
fi

echo "$as_me:$LINENO: result: $_am_result" >&5
echo "${ECHO_T}$_am_result" >&6
rm -f confinc confmf

# Check whether --enable-dependency-tracking or --disable-dependency-
tracking was given.
if test "${enable_dependency_tracking+set}" = set; then
    enableval="$enable_dependency_tracking"

fi;
if test "x$enable_dependency_tracking" != xno; then
    am_depcomp="$ac_aux_dir/depcomp"
    AMDEPBACKSLASH='\ '
fi

if test "x$enable_dependency_tracking" != xno; then
    AMDEP_TRUE=
    AMDEP_FALSE='#'
else
    AMDEP_TRUE='#'
    AMDEP_FALSE=
fi

ac_ext=c
ac_cpp='$CPP $CPPFLAGS'
ac_compile='$CC -c $CFLAGS $CPPFLAGS conftest.$ac_ext >&5'
ac_link='$CC -o conftest$ac_exeext $CFLAGS $CPPFLAGS $LDFLAGS
conftest.$ac_ext $LIBS >&5'
ac_compiler_gnu=$ac_cv_c_compiler_gnu
if test -n "$ac_tool_prefix"; then
    # Extract the first word of "${ac_tool_prefix}gcc", so it can be a
    program name with args.
    set dummy ${ac_tool_prefix}gcc; ac_word=$2
    echo "$as_me:$LINENO: checking for $ac_word" >&5
    echo $ECHO_N "checking for $ac_word... $ECHO_C" >&6
    if test "${ac_cv_prog_CC+set}" = set; then
        echo $ECHO_N "(cached) $ECHO_C" >&6
    else
        if test -n "$CC"; then
            ac_cv_prog_CC="$CC" # Let the user override the test.
        else
            as_save_IFS=$IFS; IFS=$PATH_SEPARATOR
            for as_dir in $PATH

```

```

do
  IFS=$as_save_IFS
  test -z "$as_dir" && as_dir=.
  for ac_exec_ext in ' $ac_executable_extensions; do
  if $as_executable_p "$as_dir/$ac_word$ac_exec_ext"; then
    ac_cv_prog_CC="{ac_tool_prefix}gcc"
    echo "$as_me:$LINENO: found $as_dir/$ac_word$ac_exec_ext" >&5
    break 2
  fi
done
done

fi
fi
CC=$ac_cv_prog_CC
if test -n "$CC"; then
  echo "$as_me:$LINENO: result: $CC" >&5
  echo "${ECHO_T}$CC" >&6
else
  echo "$as_me:$LINENO: result: no" >&5
  echo "${ECHO_T}no" >&6
fi

fi
if test -z "$ac_cv_prog_CC"; then
  ac_ct_CC=$CC
  # Extract the first word of "gcc", so it can be a program name with
  args.
  set dummy gcc; ac_word=$2
  echo "$as_me:$LINENO: checking for $ac_word" >&5
  echo $ECHO_N "checking for $ac_word... $ECHO_C" >&6
  if test "${ac_cv_prog_ac_ct_CC+set}" = set; then
    echo $ECHO_N "(cached) $ECHO_C" >&6
  else
    if test -n "$ac_ct_CC"; then
      ac_cv_prog_ac_ct_CC="$ac_ct_CC" # Let the user override the test.
    else
      as_save_IFS=$IFS; IFS=$PATH_SEPARATOR
      for as_dir in $PATH
      do
        IFS=$as_save_IFS
        test -z "$as_dir" && as_dir=.
        for ac_exec_ext in ' $ac_executable_extensions; do
        if $as_executable_p "$as_dir/$ac_word$ac_exec_ext"; then
          ac_cv_prog_ac_ct_CC="gcc"
          echo "$as_me:$LINENO: found $as_dir/$ac_word$ac_exec_ext" >&5
          break 2
        fi
      done
      done

fi
fi
ac_ct_CC=$ac_cv_prog_ac_ct_CC

```

```

if test -n "$ac_ct_CC"; then
  echo "$as_me:$LINENO: result: $ac_ct_CC" >&5
  echo "${ECHO_T}$ac_ct_CC" >&6
else
  echo "$as_me:$LINENO: result: no" >&5
  echo "${ECHO_T}no" >&6
fi

  CC=$ac_ct_CC
else
  CC="$ac_cv_prog_CC"
fi

if test -z "$CC"; then
  if test -n "$ac_tool_prefix"; then
    # Extract the first word of "${ac_tool_prefix}cc", so it can be a
    program name with args.
    set dummy ${ac_tool_prefix}cc; ac_word=$2
    echo "$as_me:$LINENO: checking for $ac_word" >&5
    echo $ECHO_N "checking for $ac_word... $ECHO_C" >&6
    if test "${ac_cv_prog_CC+set}" = set; then
      echo $ECHO_N "(cached) $ECHO_C" >&6
    else
      if test -n "$CC"; then
        ac_cv_prog_CC="$CC" # Let the user override the test.
      else
as_save_IFS=$IFS; IFS=$PATH_SEPARATOR
for as_dir in $PATH
do
  IFS=$as_save_IFS
  test -z "$as_dir" && as_dir=.
  for ac_exec_ext in ' $ac_executable_extensions; do
    if $as_executable_p "$as_dir/$ac_word$ac_exec_ext"; then
      ac_cv_prog_CC="${ac_tool_prefix}cc"
      echo "$as_me:$LINENO: found $as_dir/$ac_word$ac_exec_ext" >&5
      break 2
    fi
  done
done
fi
fi
  CC=$ac_cv_prog_CC
  if test -n "$CC"; then
    echo "$as_me:$LINENO: result: $CC" >&5
    echo "${ECHO_T}$CC" >&6
  else
    echo "$as_me:$LINENO: result: no" >&5
    echo "${ECHO_T}no" >&6
  fi
fi

if test -z "$ac_cv_prog_CC"; then
  ac_ct_CC=$CC

```

```

    # Extract the first word of "cc", so it can be a program name with
args.
set dummy cc; ac_word=$2
echo "$as_me:$LINENO: checking for $ac_word" >&5
echo $ECHO_N "checking for $ac_word... $ECHO_C" >&6
if test "${ac_cv_prog_ac_ct_CC+set}" = set; then
    echo $ECHO_N "(cached) $ECHO_C" >&6
else
    if test -n "$ac_ct_CC"; then
        ac_cv_prog_ac_ct_CC="$ac_ct_CC" # Let the user override the test.
    else
as_save_IFS=$IFS; IFS=$PATH_SEPARATOR
for as_dir in $PATH
do
    IFS=$as_save_IFS
    test -z "$as_dir" && as_dir=.
    for ac_exec_ext in ' $ac_executable_extensions; do
        if $as_executable_p "$as_dir/$ac_word$ac_exec_ext"; then
            ac_cv_prog_ac_ct_CC="cc"
            echo "$as_me:$LINENO: found $as_dir/$ac_word$ac_exec_ext" >&5
            break 2
        fi
    done
done

fi
fi
ac_ct_CC=$ac_cv_prog_ac_ct_CC
if test -n "$ac_ct_CC"; then
    echo "$as_me:$LINENO: result: $ac_ct_CC" >&5
    echo "${ECHO_T}$ac_ct_CC" >&6
else
    echo "$as_me:$LINENO: result: no" >&5
    echo "${ECHO_T}no" >&6
fi

    CC=$ac_ct_CC
else
    CC="$ac_cv_prog_CC"
fi

fi
if test -z "$CC"; then
    # Extract the first word of "cc", so it can be a program name with
args.
set dummy cc; ac_word=$2
echo "$as_me:$LINENO: checking for $ac_word" >&5
echo $ECHO_N "checking for $ac_word... $ECHO_C" >&6
if test "${ac_cv_prog_CC+set}" = set; then
    echo $ECHO_N "(cached) $ECHO_C" >&6
else
    if test -n "$CC"; then
        ac_cv_prog_CC="$CC" # Let the user override the test.
    else

```

```

    ac_prog_rejected=no
as_save_IFS=$IFS; IFS=$PATH_SEPARATOR
for as_dir in $PATH
do
    IFS=$as_save_IFS
    test -z "$as_dir" && as_dir=.
    for ac_exec_ext in ' ' $ac_executable_extensions; do
    if $as_executable_p "$as_dir/$ac_word$ac_exec_ext"; then
        if test "$as_dir/$ac_word$ac_exec_ext" = "/usr/ucb/cc"; then
            ac_prog_rejected=yes
            continue
        fi
        ac_cv_prog_CC="cc"
        echo "$as_me:$LINENO: found $as_dir/$ac_word$ac_exec_ext" >&5
        break 2
    fi
done
done

if test $ac_prog_rejected = yes; then
    # We found a bogon in the path, so make sure we never use it.
    set dummy $ac_cv_prog_CC
    shift
    if test $# != 0; then
        # We chose a different compiler from the bogus one.
        # However, it has the same basename, so the bogon will be chosen
        # first if we set CC to just the basename; use the full file name.
        shift
        ac_cv_prog_CC="$as_dir/$ac_word${1+ ' '}$@"
    fi
fi
fi
fi
fi
CC=$ac_cv_prog_CC
if test -n "$CC"; then
    echo "$as_me:$LINENO: result: $CC" >&5
    echo "${ECHO_T}$CC" >&6
else
    echo "$as_me:$LINENO: result: no" >&5
    echo "${ECHO_T}no" >&6
fi

fi
if test -z "$CC"; then
    if test -n "$ac_tool_prefix"; then
        for ac_prog in cl
        do
            # Extract the first word of "$ac_tool_prefix$ac_prog", so it can be a
            program name with args.
            set dummy $ac_tool_prefix$ac_prog; ac_word=$2
            echo "$as_me:$LINENO: checking for $ac_word" >&5
            echo $ECHO_N "checking for $ac_word... $ECHO_C" >&6
            if test "${ac_cv_prog_CC+set}" = set; then
                echo $ECHO_N "(cached) $ECHO_C" >&6
            fi
        done
    fi
fi

```



```

else
  if test -n "$CC"; then
    ac_cv_prog_CC="$CC" # Let the user override the test.
  else
as_save_IFS=$IFS; IFS=$PATH_SEPARATOR
for as_dir in $PATH
do
  IFS=$as_save_IFS
  test -z "$as_dir" && as_dir=.
  for ac_exec_ext in ' $ac_executable_extensions; do
  if $as_executable_p "$as_dir/$ac_word$ac_exec_ext"; then
    ac_cv_prog_CC="$ac_tool_prefix$ac_prog"
    echo "$as_me:$LINENO: found $as_dir/$ac_word$ac_exec_ext" >&5
    break 2
  fi
done
done

fi
fi
CC=$ac_cv_prog_CC
if test -n "$CC"; then
  echo "$as_me:$LINENO: result: $CC" >&5
  echo "${ECHO_T}$CC" >&6
else
  echo "$as_me:$LINENO: result: no" >&5
  echo "${ECHO_T}no" >&6
fi

  test -n "$CC" && break
done
fi
if test -z "$CC"; then
  ac_ct_CC=$CC
  for ac_prog in cl
do
  # Extract the first word of "$ac_prog", so it can be a program name
  with args.
  set dummy $ac_prog; ac_word=$2
  echo "$as_me:$LINENO: checking for $ac_word" >&5
  echo $ECHO_N "checking for $ac_word... $ECHO_C" >&6
  if test "${ac_cv_prog_ac_ct_CC+set}" = set; then
    echo $ECHO_N "(cached) $ECHO_C" >&6
  else
    if test -n "$ac_ct_CC"; then
      ac_cv_prog_ac_ct_CC="$ac_ct_CC" # Let the user override the test.
    else
as_save_IFS=$IFS; IFS=$PATH_SEPARATOR
for as_dir in $PATH
do
  IFS=$as_save_IFS
  test -z "$as_dir" && as_dir=.
  for ac_exec_ext in ' $ac_executable_extensions; do
  if $as_executable_p "$as_dir/$ac_word$ac_exec_ext"; then

```

```

        ac_cv_prog_ac_ct_CC="$ac_prog"
        echo "$as_me:$LINENO: found $as_dir/$ac_word$ac_exec_ext" >&5
        break 2
    fi
done
done

fi
fi
ac_ct_CC=$ac_cv_prog_ac_ct_CC
if test -n "$ac_ct_CC"; then
    echo "$as_me:$LINENO: result: $ac_ct_CC" >&5
    echo "${ECHO_T}$ac_ct_CC" >&6
else
    echo "$as_me:$LINENO: result: no" >&5
    echo "${ECHO_T}no" >&6
fi

    test -n "$ac_ct_CC" && break
done

    CC=$ac_ct_CC
fi

fi

test -z "$CC" && { { echo "$as_me:$LINENO: error: no acceptable C
compiler found in \$PATH
See `config.log' for more details." >&5
echo "$as_me: error: no acceptable C compiler found in \$PATH
See `config.log' for more details." >&2;}
    { (exit 1); exit 1; }; }

# Provide some information about the compiler.
echo "$as_me:$LINENO:" \
    "checking for C compiler version" >&5
ac_compiler=`set X $ac_compile; echo $2`
{ (eval echo "$as_me:$LINENO: \"$ac_compiler --version </dev/null >&5\""
>&5
    (eval $ac_compiler --version </dev/null >&5) 2>&5
    ac_status=$?
    echo "$as_me:$LINENO: \ $? = $ac_status" >&5
    (exit $ac_status); }
{ (eval echo "$as_me:$LINENO: \"$ac_compiler -v </dev/null >&5\"" >&5
    (eval $ac_compiler -v </dev/null >&5) 2>&5
    ac_status=$?
    echo "$as_me:$LINENO: \ $? = $ac_status" >&5
    (exit $ac_status); }
{ (eval echo "$as_me:$LINENO: \"$ac_compiler -V </dev/null >&5\"" >&5
    (eval $ac_compiler -V </dev/null >&5) 2>&5
    ac_status=$?
    echo "$as_me:$LINENO: \ $? = $ac_status" >&5
    (exit $ac_status); }

```

```

cat >confptest.$ac_ext <<_ACEOF
/* confdefs.h. */
_ACEOF
cat confdefs.h >>confptest.$ac_ext
cat >>confptest.$ac_ext <<_ACEOF
/* end confdefs.h. */

int
main ()
{

    ;
    return 0;
}
_ACEOF
ac_clean_files_save=$ac_clean_files
ac_clean_files="$ac_clean_files a.out a.exe b.out"
# Try to create an executable without -o first, disregard a.out.
# It will help us diagnose broken compilers, and finding out an intuition
# of exeext.
echo "$as_me:$LINENO: checking for C compiler default output file name"
>&5
echo $ECHO_N "checking for C compiler default output file name..."
$ECHO_C" >&6
ac_link_default=`echo "$ac_link" | sed 's/ -o *confptest[^\ ]*//'\`
if { (eval echo "$as_me:$LINENO: \"$ac_link_default\"") >&5
      (eval $ac_link_default) 2>&5
      ac_status=$?
      echo "$as_me:$LINENO: \$? = $ac_status" >&5
      (exit $ac_status); }; then
  # Find the output, starting from the most likely. This scheme is
  # not robust to junk in `.', hence go to wildcards (a.*) only as a last
  # resort.

  # Be careful to initialize this variable, since it used to be cached.
  # Otherwise an old cache value of `no' led to `EXEEXT = no' in a
  # Makefile.
  ac_cv_exeext=
  # b.out is created by i960 compilers.
  for ac_file in a_out.exe a.exe confptest.exe a.out confptest a.* confptest.*
  b.out
  do
    test -f "$ac_file" || continue
    case $ac_file in
      *.$ac_ext | *.xcoff | *.tds | *.d | *.pdb | *.xSYM | *.bb | *.bbg |
      *.o | *.obj )
        ;;
      confptest.$ac_ext )
        # This is the source file.
        ;;
      [ab].out )
        # We found the default executable, but exeext='' is most
        # certainly right.

```

```

        break;;
    *.*)
        ac_cv_exeext=`expr "$ac_file" : '[^.]*(\..*)'`
        # FIXME: I believe we export ac_cv_exeext for Libtool,
        # but it would be cool to find out if it's true. Does anybody
        # maintain Libtool? --akim.
        export ac_cv_exeext
        break;;
    *)
        break;;
esac
done
else
    echo "$as_me: failed program was:" >&5
    sed 's/^/| /' conftest.$ac_ext >&5

{ { echo "$as_me:$LINENO: error: C compiler cannot create executables
See `config.log' for more details." >&5
echo "$as_me: error: C compiler cannot create executables
See `config.log' for more details." >&2;}
{ (exit 77); exit 77; }; }
fi

ac_exeext=$ac_cv_exeext
echo "$as_me:$LINENO: result: $ac_file" >&5
echo "${ECHO_T}$ac_file" >&6

# Check the compiler produces executables we can run. If not, either
# the compiler is broken, or we cross compile.
echo "$as_me:$LINENO: checking whether the C compiler works" >&5
echo $ECHO_N "checking whether the C compiler works... $ECHO_C" >&6
# FIXME: These cross compiler hacks should be removed for Autoconf 3.0
# If not cross compiling, check that we can run a simple program.
if test "$cross_compiling" != yes; then
    if { ac_try='./$ac_file'
    { (eval echo "$as_me:$LINENO: \"$ac_try\"") >&5
    (eval $ac_try) 2>&5
    ac_status=$?
    echo "$as_me:$LINENO: \$? = $ac_status" >&5
    (exit $ac_status); }; }; then
        cross_compiling=no
    else
        if test "$cross_compiling" = maybe; then
            cross_compiling=yes
        else
            { { echo "$as_me:$LINENO: error: cannot run C compiled programs.
If you meant to cross compile, use `--host'.
See `config.log' for more details." >&5
echo "$as_me: error: cannot run C compiled programs.
If you meant to cross compile, use `--host'.
See `config.log' for more details." >&2;}
            { (exit 1); exit 1; }; }
        fi
    fi
fi

```

```

fi
echo "$as_me:$LINENO: result: yes" >&5
echo "${ECHO_T}yes" >&6

rm -f a.out a.exe conftest$ac_cv_exeext b.out
ac_clean_files=$ac_clean_files_save
# Check the compiler produces executables we can run.  If not, either
# the compiler is broken, or we cross compile.
echo "$as_me:$LINENO: checking whether we are cross compiling" >&5
echo $ECHO_N "checking whether we are cross compiling... $ECHO_C" >&6
echo "$as_me:$LINENO: result: $cross_compiling" >&5
echo "${ECHO_T}$cross_compiling" >&6

echo "$as_me:$LINENO: checking for suffix of executables" >&5
echo $ECHO_N "checking for suffix of executables... $ECHO_C" >&6
if { (eval echo "$as_me:$LINENO: \"$ac_link\"" >&5
      (eval $ac_link) 2>&5
      ac_status=$?
      echo "$as_me:$LINENO: \$? = $ac_status" >&5
      (exit $ac_status); }; then
  # If both `conftest.exe' and `conftest' are `present' (well,
  observable)
  # catch `conftest.exe'.  For instance with Cygwin, `ls conftest' will
  # work properly (i.e., refer to `conftest.exe'), while it won't with
  # `rm'.
  for ac_file in conftest.exe conftest conftest.*; do
    test -f "$ac_file" || continue
    case $ac_file in
      *.$ac_ext | *.xcoff | *.tds | *.d | *.pdb | *.xSYM | *.bb | *.bbg |
      *.o | *.obj ) ;;
      *.* ) ac_cv_exeext=`expr "$ac_file" : '[^.]*(\..*)'`
            export ac_cv_exeext
            break;;
      * ) break;;
    esac
  done
else
  { { echo "$as_me:$LINENO: error: cannot compute suffix of executables:
cannot compile and link
See `config.log' for more details." >&5
    echo "$as_me: error: cannot compute suffix of executables: cannot compile
and link
See `config.log' for more details." >&2;}
    { (exit 1); exit 1; }; }
fi

rm -f conftest$ac_cv_exeext
echo "$as_me:$LINENO: result: $ac_cv_exeext" >&5
echo "${ECHO_T}$ac_cv_exeext" >&6

rm -f conftest.$ac_ext
EXEEXT=$ac_cv_exeext
ac_exeext=$EXEEXT
echo "$as_me:$LINENO: checking for suffix of object files" >&5

```

```

echo $ECHO_N "checking for suffix of object files... $ECHO_C" >&6
if test "${ac_cv_objext+set}" = set; then
  echo $ECHO_N "(cached) $ECHO_C" >&6
else
  cat >confptest.$ac_ext <<_ACEOF
/* confdefs.h. */
_ACEOF
cat confdefs.h >>confptest.$ac_ext
cat >>confptest.$ac_ext <<_ACEOF
/* end confdefs.h. */

int
main ()
{

  ;
  return 0;
}
_ACEOF
rm -f confptest.o confptest.obj
if { (eval echo "$as_me:$LINENO: \"$ac_compile\"" >&5
(eval $ac_compile) 2>&5
ac_status=$?
echo "$as_me:$LINENO: \$? = $ac_status" >&5
(exit $ac_status); }; then
  for ac_file in `(ls confptest.o confptest.obj; ls confptest.*)
2>/dev/null`; do
  case $ac_file in
    *.$ac_ext | *.xcoff | *.tds | *.d | *.pdb | *.xSYM | *.bb | *.bbg )
;;
    *) ac_cv_objext=`expr "$ac_file" : '.*\.(.*)'`
      break;;
  esac
done
else
  echo "$as_me: failed program was:" >&5
sed 's/^/| /' confptest.$ac_ext >&5

{ { echo "$as_me:$LINENO: error: cannot compute suffix of object files:
cannot compile
See \`config.log' for more details." >&5
echo "$as_me: error: cannot compute suffix of object files: cannot
compile
See \`config.log' for more details." >&2;}
  { (exit 1); exit 1; }; }
fi

rm -f confptest.$ac_cv_objext confptest.$ac_ext
fi
echo "$as_me:$LINENO: result: $ac_cv_objext" >&5
echo "${ECHO_T}$ac_cv_objext" >&6
OBJEXT=$ac_cv_objext
ac_objext=$OBJEXT

```

```

echo "$as_me:$LINENO: checking whether we are using the GNU C compiler"
>&5
echo $ECHO_N "checking whether we are using the GNU C compiler...
$ECHO_C" >&6
if test "${ac_cv_c_compiler_gnu+set}" = set; then
  echo $ECHO_N "(cached) $ECHO_C" >&6
else
  cat >confptest.$ac_ext <<_ACEOF
/* confdefs.h. */
_ACEOF
cat confdefs.h >>confptest.$ac_ext
cat >>confptest.$ac_ext <<_ACEOF
/* end confdefs.h. */

int
main ()
{
#ifdef __GNUC__
  choke me
#endif

  ;
  return 0;
}
_ACEOF
rm -f confptest.$ac_objext
if { (eval echo "$as_me:$LINENO: \"$ac_compile\"") >&5
  (eval $ac_compile) 2>confptest.er1
  ac_status=$?
  grep -v '^ *+' confptest.er1 >confptest.err
  rm -f confptest.er1
  cat confptest.err >&5
  echo "$as_me:$LINENO: \$? = $ac_status" >&5
  (exit $ac_status); } &&
  { ac_try='test -z "$ac_c_werror_flag"
  || test ! -s confptest.err'
  { (eval echo "$as_me:$LINENO: \"$ac_try\"") >&5
  (eval $ac_try) 2>&5
  ac_status=$?
  echo "$as_me:$LINENO: \$? = $ac_status" >&5
  (exit $ac_status); }; } &&
  { ac_try='test -s confptest.$ac_objext'
  { (eval echo "$as_me:$LINENO: \"$ac_try\"") >&5
  (eval $ac_try) 2>&5
  ac_status=$?
  echo "$as_me:$LINENO: \$? = $ac_status" >&5
  (exit $ac_status); }; }; then
  ac_compiler_gnu=yes
else
  echo "$as_me: failed program was:" >&5
  sed 's/^/| /' confptest.$ac_ext >&5

ac_compiler_gnu=no
fi

```

```

rm -f conftest.err conftest.$ac_objext conftest.$ac_ext
ac_cv_c_compiler_gnu=$ac_compiler_gnu

fi
echo "$as_me:$LINENO: result: $ac_cv_c_compiler_gnu" >&5
echo "${ECHO_T}$ac_cv_c_compiler_gnu" >&6
GCC=`test $ac_compiler_gnu = yes && echo yes`
ac_test_CFLAGS=${CFLAGS+set}
ac_save_CFLAGS=$CFLAGS
CFLAGS="-g"
echo "$as_me:$LINENO: checking whether $CC accepts -g" >&5
echo $ECHO_N "checking whether $CC accepts -g... $ECHO_C" >&6
if test "${ac_cv_prog_cc_g+set}" = set; then
  echo $ECHO_N "(cached) $ECHO_C" >&6
else
  cat >conftest.$ac_ext <<_ACEOF
/* confdefs.h. */
_ACEOF
cat confdefs.h >>conftest.$ac_ext
cat >>conftest.$ac_ext <<_ACEOF
/* end confdefs.h. */

int
main ()
{

  ;
  return 0;
}
_ACEOF
rm -f conftest.$ac_objext
if { (eval echo "$as_me:$LINENO: \"$ac_compile\"") >&5
  (eval $ac_compile) 2>conftest.er1
  ac_status=$?
  grep -v '^ *+' conftest.er1 >conftest.err
  rm -f conftest.er1
  cat conftest.err >&5
  echo "$as_me:$LINENO: \$? = $ac_status" >&5
  (exit $ac_status); } &&
  { ac_try='test -z "$ac_c_werror_flag"
  || test ! -s conftest.err'
  { (eval echo "$as_me:$LINENO: \"$ac_try\"") >&5
  (eval $ac_try) 2>&5
  ac_status=$?
  echo "$as_me:$LINENO: \$? = $ac_status" >&5
  (exit $ac_status); }; } &&
  { ac_try='test -s conftest.$ac_objext'
  { (eval echo "$as_me:$LINENO: \"$ac_try\"") >&5
  (eval $ac_try) 2>&5
  ac_status=$?
  echo "$as_me:$LINENO: \$? = $ac_status" >&5
  (exit $ac_status); }; }; } then
  ac_cv_prog_cc_g=yes
else

```



```

    echo "$as_me: failed program was:" >&5
sed 's/^/| /' conftest.$ac_ext >&5

ac_cv_prog_cc_g=no
fi
rm -f conftest.err conftest.$ac_objext conftest.$ac_ext
fi
echo "$as_me:$LINENO: result: $ac_cv_prog_cc_g" >&5
echo "${ECHO_T}$ac_cv_prog_cc_g" >&6
if test "$ac_test_CFLAGS" = set; then
    CFLAGS=$ac_save_CFLAGS
elif test $ac_cv_prog_cc_g = yes; then
    if test "$GCC" = yes; then
        CFLAGS="-g -O2"
    else
        CFLAGS="-g"
    fi
else
    if test "$GCC" = yes; then
        CFLAGS="-O2"
    else
        CFLAGS=
    fi
fi
echo "$as_me:$LINENO: checking for $CC option to accept ANSI C" >&5
echo $ECHO_N "checking for $CC option to accept ANSI C... $ECHO_C" >&6
if test "${ac_cv_prog_cc_stdC+set}" = set; then
    echo $ECHO_N "(cached) $ECHO_C" >&6
else
    ac_cv_prog_cc_stdC=no
ac_save_CC=$CC
cat >conftest.$ac_ext <<_ACEOF
/* confdefs.h. */
_ACEOF
cat confdefs.h >>conftest.$ac_ext
cat >>conftest.$ac_ext <<_ACEOF
/* end confdefs.h. */
#include <stdarg.h>
#include <stdio.h>
#include <sys/types.h>
#include <sys/stat.h>
/* Most of the following tests are stolen from RCS 5.7's src/conf.sh. */
struct buf { int x; };
FILE * (*rcsopen) (struct buf *, struct stat *, int);
static char *e (p, i)
    char **p;
    int i;
{
    return p[i];
}
static char *f (char * (*g) (char **, int), char **p, ...)
{
    char *s;
    va_list v;

```

```

    va_start (v,p);
    s = g (p, va_arg (v,int));
    va_end (v);
    return s;
}

/* OSF 4.0 Compaq cc is some sort of almost-ANSI by default.  It has
   function prototypes and stuff, but not '\xHH' hex character constants.
   These don't provoke an error unfortunately, instead are silently
   treated
   as 'x'.  The following induces an error, until -std1 is added to get
   proper ANSI mode.  Curiously '\x00'!='x' always comes out true, for an
   array size at least.  It's necessary to write '\x00'==0 to get
   something
   that's true only with -std1.  */
int osf4_cc_array ['\x00' == 0 ? 1 : -1];

int test (int i, double x);
struct s1 {int (*f) (int a);};
struct s2 {int (*f) (double a);};
int pairnames (int, char **, FILE *(*)(struct buf *, struct stat *, int),
int, int);
int argc;
char **argv;
int
main ()
{
return f (e, argv, 0) != argv[0]  ||  f (e, argv, 1) != argv[1];
;
return 0;
}
_ACEOF
# Don't try gcc -ansi; that turns off useful extensions and
# breaks some systems' header files.
# AIX          -qlanglvl=ansi
# Ultrix and OSF/1      -std1
# HP-UX 10.20 and later      -Ae
# HP-UX older versions -Aa -D_HPUX_SOURCE
# SVR4          -Xc -D__EXTENSIONS__
for ac_arg in "" -qlanglvl=ansi -std1 -Ae "-Aa -D_HPUX_SOURCE" "-Xc -
D__EXTENSIONS__"
do
    CC="$ac_save_CC $ac_arg"
    rm -f conftest.$ac_objext
if { (eval echo "$as_me:$LINENO: \"\$ac_compile\"" ) >&5
    (eval $ac_compile) 2>conftest.erl
    ac_status=$?
    grep -v '^ *+' conftest.erl >conftest.err
    rm -f conftest.erl
    cat conftest.err >&5
    echo "$as_me:$LINENO: \$? = $ac_status" >&5
    (exit $ac_status); } &&
    { ac_try='test -z "$ac_c_werror_flag"
    || test ! -s conftest.err'

```

```

    { (eval echo "$as_me:$LINENO: \"$ac_try\"") >&5
      (eval $ac_try) 2>&5
      ac_status=$?
      echo "$as_me:$LINENO: \ $? = $ac_status" >&5
      (exit $ac_status); }; } &&
      { ac_try='test -s conftest.$ac_objext'
      { (eval echo "$as_me:$LINENO: \"$ac_try\"") >&5
        (eval $ac_try) 2>&5
        ac_status=$?
        echo "$as_me:$LINENO: \ $? = $ac_status" >&5
        (exit $ac_status); }; }; then
        ac_cv_prog_cc_stdc=$ac_arg
      break
    else
      echo "$as_me: failed program was:" >&5
      sed 's/^/| /' conftest.$ac_ext >&5

    fi
    rm -f conftest.err conftest.$ac_objext
  done
  rm -f conftest.$ac_ext conftest.$ac_objext
  CC=$ac_save_CC

fi

case "x$ac_cv_prog_cc_stdc" in
  x|xno)
    echo "$as_me:$LINENO: result: none needed" >&5
    echo "${ECHO_T}none needed" >&6 ;;
  *)
    echo "$as_me:$LINENO: result: $ac_cv_prog_cc_stdc" >&5
    echo "${ECHO_T}$ac_cv_prog_cc_stdc" >&6
    CC="$CC $ac_cv_prog_cc_stdc" ;;
esac

# Some people use a C++ compiler to compile C.  Since we use `exit',
# in C++ we need to declare it.  In case someone uses the same compiler
# for both compiling C and C++ we need to have the C++ compiler decide
# the declaration of exit, since it's the most demanding environment.
cat >conftest.$ac_ext <<_ACEOF
#ifdef __cplusplus
  choke me
#endif
_ACEOF
rm -f conftest.$ac_objext
if { (eval echo "$as_me:$LINENO: \"$ac_compile\"") >&5
      (eval $ac_compile) 2>conftest.er1
      ac_status=$?
      grep -v '^ *+' conftest.er1 >conftest.err
      rm -f conftest.er1
      cat conftest.err >&5
      echo "$as_me:$LINENO: \ $? = $ac_status" >&5
      (exit $ac_status); } &&
      { ac_try='test -z "$ac_c_werror_flag"

```

```

        || test ! -s conftest.err'
{ (eval echo "$as_me:$LINENO: \"\$ac_try\"") >&5
(eval $ac_try) 2>&5
ac_status=$?
echo "$as_me:$LINENO: \ $? = $ac_status" >&5
(exit $ac_status); }; } &&
    { ac_try='test -s conftest.$ac_objext'
{ (eval echo "$as_me:$LINENO: \"\$ac_try\"") >&5
(eval $ac_try) 2>&5
ac_status=$?
echo "$as_me:$LINENO: \ $? = $ac_status" >&5
(exit $ac_status); }; }; then
for ac_declaration in \
    ' \
    'extern "C" void std::exit (int) throw (); using std::exit;' \
    'extern "C" void std::exit (int); using std::exit;' \
    'extern "C" void exit (int) throw ();' \
    'extern "C" void exit (int);' \
    'void exit (int);'
do
    cat >conftest.$ac_ext <<_ACEOF
/* confdefs.h. */
_ACEOF
cat confdefs.h >>conftest.$ac_ext
cat >>conftest.$ac_ext <<_ACEOF
/* end confdefs.h. */
$ac_declaration
#include <stdlib.h>
int
main ()
{
exit (42);
;
return 0;
}
_ACEOF
rm -f conftest.$ac_objext
if { (eval echo "$as_me:$LINENO: \"\$ac_compile\"") >&5
(eval $ac_compile) 2>conftest.er1
ac_status=$?
grep -v '^ *+' conftest.er1 >conftest.err
rm -f conftest.er1
cat conftest.err >&5
echo "$as_me:$LINENO: \ $? = $ac_status" >&5
(exit $ac_status); } &&
    { ac_try='test -z "$ac_c_werror_flag"
|| test ! -s conftest.err'
{ (eval echo "$as_me:$LINENO: \"\$ac_try\"") >&5
(eval $ac_try) 2>&5
ac_status=$?
echo "$as_me:$LINENO: \ $? = $ac_status" >&5
(exit $ac_status); }; } &&
    { ac_try='test -s conftest.$ac_objext'
{ (eval echo "$as_me:$LINENO: \"\$ac_try\"") >&5

```

```

    (eval $ac_try) 2>&5
    ac_status=$?
    echo "$as_me:$LINENO: \ $? = $ac_status" >&5
    (exit $ac_status); }; }; then
    :
else
    echo "$as_me: failed program was:" >&5
    sed 's/^/| /' conftest.$ac_ext >&5

continue
fi
rm -f conftest.err conftest.$ac_objext conftest.$ac_ext
    cat >conftest.$ac_ext <<_ACEOF
/* confdefs.h. */
_ACEOF
cat confdefs.h >>conftest.$ac_ext
cat >>conftest.$ac_ext <<_ACEOF
/* end confdefs.h. */
$ac_declaration
int
main ()
{
exit (42);
;
return 0;
}
_ACEOF
rm -f conftest.$ac_objext
if { (eval echo "$as_me:$LINENO: \"$ac_compile\"") >&5
    (eval $ac_compile) 2>conftest.er1
    ac_status=$?
    grep -v '^ *+' conftest.er1 >conftest.err
    rm -f conftest.er1
    cat conftest.err >&5
    echo "$as_me:$LINENO: \ $? = $ac_status" >&5
    (exit $ac_status); } &&
    { ac_try='test -z "$ac_c_werror_flag"
    || test ! -s conftest.err'
    { (eval echo "$as_me:$LINENO: \"$ac_try\"") >&5
    (eval $ac_try) 2>&5
    ac_status=$?
    echo "$as_me:$LINENO: \ $? = $ac_status" >&5
    (exit $ac_status); }; } &&
    { ac_try='test -s conftest.$ac_objext'
    { (eval echo "$as_me:$LINENO: \"$ac_try\"") >&5
    (eval $ac_try) 2>&5
    ac_status=$?
    echo "$as_me:$LINENO: \ $? = $ac_status" >&5
    (exit $ac_status); }; }; } then
    break
else
    echo "$as_me: failed program was:" >&5
    sed 's/^/| /' conftest.$ac_ext >&5

```

```

fi
rm -f conftest.err conftest.$ac_objext conftest.$ac_ext
done
rm -f conftest*
if test -n "$ac_declaration"; then
  echo '#ifdef __cplusplus' >>confdefs.h
  echo $ac_declaration >>confdefs.h
  echo '#endif' >>confdefs.h
fi

else
  echo "$as_me: failed program was:" >&5
  sed 's/^/| /' conftest.$ac_ext >&5

fi

rm -f conftest.err conftest.$ac_objext conftest.$ac_ext
ac_ext=c
ac_cpp='$CPP $CPPFLAGS'
ac_compile='$CC -c $CFLAGS $CPPFLAGS conftest.$ac_ext >&5'
ac_link='$CC -o conftest$ac_exeext $CFLAGS $CPPFLAGS $LDFLAGS
conftest.$ac_ext $LIBS >&5'
ac_compiler_gnu=$ac_cv_c_compiler_gnu

depcc="$CC" am_compiler_list=

echo "$as_me:$LINENO: checking dependency style of $depcc" >&5
echo $ECHO_N "checking dependency style of $depcc... $ECHO_C" >&6
if test "${am_cv_CC_dependencies_compiler_type+set}" = set; then
  echo $ECHO_N "(cached) $ECHO_C" >&6
else
  if test -z "$SAMDEP_TRUE" && test -f "$sam_depcomp"; then
    # We make a subdir and do the tests there. Otherwise we can end up
    # making bogus files that we don't know about and never remove. For
    # instance it was reported that on HP-UX the gcc test will end up
    # making a dummy file named `D' -- because `-MD' means `put the output
    # in D'.
    mkdir conftest.dir
    # Copy depcomp to subdir because otherwise we won't find it if we're
    # using a relative directory.
    cp "$sam_depcomp" conftest.dir
    cd conftest.dir
    # We will build objects and dependencies in a subdirectory because
    # it helps to detect inapplicable dependency modes. For instance
    # both Tru64's cc and ICC support -MD to output dependencies as a
    # side effect of compilation, but ICC will put the dependencies in
    # the current directory while Tru64 will put them in the object
    # directory.
    mkdir sub

    am_cv_CC_dependencies_compiler_type=none
    if test "$am_compiler_list" = ""; then
      am_compiler_list=`sed -n 's/^#*\([a-zA-Z0-9]*\))$/\1/p' < ./depcomp`
    fi
  fi
  for depmode in $am_compiler_list; do

```

```

# Setup a source with many dependencies, because some compilers
# like to wrap large dependency lists on column 80 (with \), and
# we should not choose a depcomp mode which is confused by this.
#
# We need to recreate these files for each test, as the compiler may
# overwrite some of them when testing with obscure command lines.
# This happens at least with the AIX C compiler.
: > sub/confptest.c
for i in 1 2 3 4 5 6; do
    echo '#include "conftst'$i'.h"' >> sub/confptest.c
    # Using `: > sub/conftst$i.h' creates only sub/conftst1.h with
    # Solaris 8's {/usr,}/bin/sh.
    touch sub/conftst$i.h
done
echo "${am__include} ${am__quote}sub/confptest.Po${am__quote}" >
confmf

case $depmode in
nosideeffect)
    # after this tag, mechanisms are not by side-effect, so they'll
    # only be used when explicitly requested
    if test "x$enable_dependency_tracking" = xyes; then
        continue
    else
        break
    fi
    ;;
none) break ;;
esac
# We check with `-c' and `-o' for the sake of the "dashmstdout"
# mode. It turns out that the SunPro C++ compiler does not properly
# handle `-M -o', and we need to detect this.
if depmode=$depmode \
    source=sub/confptest.c object=sub/confptest.${OBJEXT-o} \
    depfile=sub/confptest.Po tmpdepfile=sub/confptest.TPo \
    $SHELL ./depcomp $depcc -c -o sub/confptest.${OBJEXT-o}
sub/confptest.c \
    >/dev/null 2>conftest.err &&
    grep sub/conftst6.h sub/confptest.Po > /dev/null 2>&1 &&
    grep sub/confptest.${OBJEXT-o} sub/confptest.Po > /dev/null 2>&1 &&
    ${MAKE-make} -s -f confmf > /dev/null 2>&1; then
    # icc doesn't choke on unknown options, it will just issue warnings
    # or remarks (even with -Werror). So we grep stderr for any
message
    # that says an option was ignored or not supported.
    # When given -MP, icc 7.0 and 7.1 complain thusly:
    # icc: Command line warning: ignoring option '-M'; no argument
required
    # The diagnosis changed in icc 8.0:
    # icc: Command line remark: option '-MP' not supported
    if (grep 'ignoring option' conftest.err ||
        grep 'not supported' conftest.err) >/dev/null 2>&1; then ;;
else
    am_cv_CC_dependencies_compiler_type=$depmode

```

```

        break
    fi
fi
done

cd ..
rm -rf confptest.dir
else
    am_cv_CC_dependencies_compiler_type=none
fi

fi
echo "$as_me:$LINENO: result: $am_cv_CC_dependencies_compiler_type" >&5
echo "${ECHO_T}$am_cv_CC_dependencies_compiler_type" >&6
CCDEPMODE=depmode=$am_cv_CC_dependencies_compiler_type

if
    test "x$enable_dependency_tracking" != xno \
    && test "$am_cv_CC_dependencies_compiler_type" = gcc3; then
    am__fastdepCC_TRUE=
    am__fastdepCC_FALSE='#'
else
    am__fastdepCC_TRUE='#'
    am__fastdepCC_FALSE=
fi

echo "$as_me:$LINENO: checking for a sed that does not truncate output"
>&5
echo $ECHO_N "checking for a sed that does not truncate output..."
$ECHO_C" >&6
if test "${lt_cv_path_SED+set}" = set; then
    echo $ECHO_N "(cached) $ECHO_C" >&6
else
    # Loop through the user's path and test for sed and gsed.
    # Then use that list of sed's as ones to test for truncation.
    as_save_IFS=$IFS; IFS=$PATH_SEPARATOR
    for as_dir in $PATH
    do
        IFS=$as_save_IFS
        test -z "$as_dir" && as_dir=.
        for lt_ac_prog in sed gsed; do
            for ac_exec_ext in '' $ac_executable_extensions; do
                if $as_executable_p "$as_dir/$lt_ac_prog$ac_exec_ext"; then
                    lt_ac_sed_list="$lt_ac_sed_list $as_dir/$lt_ac_prog$ac_exec_ext"
                fi
            done
        done
    done
done
lt_ac_max=0
lt_ac_count=0
# Add /usr/xpg4/bin/sed as it is typically found on Solaris

```



```

# along with /bin/sed that truncates output.
for lt_ac_sed in $lt_ac_sed_list /usr/xpg4/bin/sed; do
  test ! -f $lt_ac_sed && continue
  cat /dev/null > confptest.in
  lt_ac_count=0
  echo $ECHO_N "0123456789$ECHO_C" >confptest.in
  # Check for GNU sed and select it if it is found.
  if "$lt_ac_sed" --version 2>&1 < /dev/null | grep 'GNU' > /dev/null;
then
  lt_cv_path_SED=$lt_ac_sed
  break
fi
while true; do
  cat confptest.in confptest.in >confptest.tmp
  mv confptest.tmp confptest.in
  cp confptest.in confptest.nl
  echo >>confptest.nl
  $lt_ac_sed -e 's/a$//' < confptest.nl >confptest.out || break
  cmp -s confptest.out confptest.nl || break
  # 10000 chars as input seems more than enough
  test $lt_ac_count -gt 10 && break
  lt_ac_count=`expr $lt_ac_count + 1`
  if test $lt_ac_count -gt $lt_ac_max; then
    lt_ac_max=$lt_ac_count
    lt_cv_path_SED=$lt_ac_sed
  fi
done
done

fi

SED=$lt_cv_path_SED
echo "$as_me:$LINENO: result: $SED" >&5
echo "${ECHO_T}$SED" >&6

echo "$as_me:$LINENO: checking for egrep" >&5
echo $ECHO_N "checking for egrep... $ECHO_C" >&6
if test "${ac_cv_prog_egrep+set}" = set; then
  echo $ECHO_N "(cached) $ECHO_C" >&6
else
  if echo a | (grep -E '(a|b)') >/dev/null 2>&1
  then ac_cv_prog_egrep='grep -E'
  else ac_cv_prog_egrep='egrep'
  fi
fi
echo "$as_me:$LINENO: result: $ac_cv_prog_egrep" >&5
echo "${ECHO_T}$ac_cv_prog_egrep" >&6
EGREP=$ac_cv_prog_egrep

# Check whether --with-gnu-ld or --without-gnu-ld was given.
if test "${with_gnu_ld+set}" = set; then
  withval="$with_gnu_ld"

```

```

    test "$withval" = no || with_gnu_ld=yes
else
    with_gnu_ld=no
fi;
ac_prog=ld
if test "$GCC" = yes; then
    # Check if gcc -print-prog-name=ld gives a path.
    echo "$as_me:$LINENO: checking for ld used by $CC" >&5
    echo $ECHO_N "checking for ld used by $CC... $ECHO_C" >&6
    case $host in
    *-*-mingw*)
        # gcc leaves a trailing carriage return which upsets mingw
        ac_prog=`($CC -print-prog-name=ld) 2>&5 | tr -d '\015'` ;;
    *)
        ac_prog=`($CC -print-prog-name=ld) 2>&5` ;;
    esac
    case $ac_prog in
    # Accept absolute paths.
    [\\/] * | ?:[\\/] *)
        re_direlt='/[^\s/]*/\.\./'
        # Canonicalize the pathname of ld
        ac_prog=`echo $ac_prog | $SED 's%\\\\\%/%g'`
        while echo $ac_prog | grep "$re_direlt" > /dev/null 2>&1; do
            ac_prog=`echo $ac_prog | $SED "s%$re_direlt%/"`
        done
        test -z "$LD" && LD="$ac_prog"
        ;;
    "")
        # If it fails, then pretend we aren't using GCC.
        ac_prog=ld
        ;;
    *)
        # If it is relative, then search for the first ld in PATH.
        with_gnu_ld=unknown
        ;;
    esac
elif test "$with_gnu_ld" = yes; then
    echo "$as_me:$LINENO: checking for GNU ld" >&5
    echo $ECHO_N "checking for GNU ld... $ECHO_C" >&6
else
    echo "$as_me:$LINENO: checking for non-GNU ld" >&5
    echo $ECHO_N "checking for non-GNU ld... $ECHO_C" >&6
fi
if test "${lt_cv_path_LD+set}" = set; then
    echo $ECHO_N "(cached) $ECHO_C" >&6
else
    if test -z "$LD"; then
        lt_save_ifs="$IFS"; IFS=$PATH_SEPARATOR
        for ac_dir in $PATH; do
            IFS="$lt_save_ifs"
            test -z "$ac_dir" && ac_dir=.
            if test -f "$ac_dir/$ac_prog" || test -f
"$ac_dir/$ac_prog$ac_exeext"; then
                lt_cv_path_LD="$ac_dir/$ac_prog"
            fi
        done
    fi

```

```

    # Check to see if the program is GNU ld.  I'd rather use --version,
    # but apparently some variants of GNU ld only accept -v.
    # Break only if it was the GNU/non-GNU ld that we prefer.
    case `"$lt_cv_path_LD" -v 2>&1 </dev/null` in
    *GNU* | *'with BFD'*)
    test "$with_gnu_ld" != no && break
    ;;
    *)
    test "$with_gnu_ld" != yes && break
    ;;
    esac
  fi
done
IFS="$lt_save_ifs"
else
  lt_cv_path_LD="$LD" # Let the user override the test with a path.
fi
fi

LD="$lt_cv_path_LD"
if test -n "$LD"; then
  echo "$as_me:$LINENO: result: $LD" >&5
  echo "${ECHO_T}$LD" >&6
else
  echo "$as_me:$LINENO: result: no" >&5
  echo "${ECHO_T}no" >&6
fi
test -z "$LD" && { { echo "$as_me:$LINENO: error: no acceptable ld found
in \$PATH" >&5
echo "$as_me: error: no acceptable ld found in \$PATH" >&2;}
  { (exit 1); exit 1; }; }
echo "$as_me:$LINENO: checking if the linker ($LD) is GNU ld" >&5
echo $ECHO_N "checking if the linker ($LD) is GNU ld... $ECHO_C" >&6
if test "${lt_cv_prog_gnu_ld+set}" = set; then
  echo $ECHO_N "(cached) $ECHO_C" >&6
else
  # I'd rather use --version here, but apparently some GNU lds only
  accept -v.
  case `"$LD" -v 2>&1 </dev/null` in
  *GNU* | *'with BFD'*)
    lt_cv_prog_gnu_ld=yes
    ;;
  *)
    lt_cv_prog_gnu_ld=no
    ;;
  esac
fi
echo "$as_me:$LINENO: result: $lt_cv_prog_gnu_ld" >&5
echo "${ECHO_T}$lt_cv_prog_gnu_ld" >&6
with_gnu_ld=$lt_cv_prog_gnu_ld

echo "$as_me:$LINENO: checking for $LD option to reload object files" >&5

```

```

echo $ECHO_N "checking for $LD option to reload object files... $ECHO_C"
>&6
if test "${lt_cv_ld_reload_flag+set}" = set; then
  echo $ECHO_N "(cached) $ECHO_C" >&6
else
  lt_cv_ld_reload_flag='-r'
fi
echo "$as_me:$LINENO: result: $lt_cv_ld_reload_flag" >&5
echo "${ECHO_T}$lt_cv_ld_reload_flag" >&6
reload_flag=$lt_cv_ld_reload_flag
case $reload_flag in
"" | " ") ;;
*) reload_flag=" $reload_flag" ;;
esac
reload_cmds='$LD$reload_flag -o $output$reload_objs'
case $host_os in
darwin*)
  if test "$GCC" = yes; then
    reload_cmds='$LTCC $LTCFLAGS -nostdlib ${wl}-r -o
$output$reload_objs'
  else
    reload_cmds='$LD$reload_flag -o $output$reload_objs'
  fi
  ;;
esac

echo "$as_me:$LINENO: checking for BSD-compatible nm" >&5
echo $ECHO_N "checking for BSD-compatible nm... $ECHO_C" >&6
if test "${lt_cv_path_NM+set}" = set; then
  echo $ECHO_N "(cached) $ECHO_C" >&6
else
  if test -n "$NM"; then
    # Let the user override the test.
    lt_cv_path_NM="$NM"
  else
    lt_nm_to_check="${ac_tool_prefix}nm"
    if test -n "$ac_tool_prefix" && test "$build" = "$host"; then
      lt_nm_to_check="$lt_nm_to_check nm"
    fi
    for lt_tmp_nm in $lt_nm_to_check; do
      lt_save_ifs="$IFS"; IFS=$PATH_SEPARATOR
      for ac_dir in $PATH /usr/ccs/bin/elf /usr/ccs/bin /usr/ucb /bin; do
        IFS="$lt_save_ifs"
        test -z "$ac_dir" && ac_dir=.
        tmp_nm="$ac_dir/$lt_tmp_nm"
        if test -f "$tmp_nm" || test -f "$tmp_nm$ac_exeext" ; then
          # Check to see if the nm accepts a BSD-compatible flag.
          # Adding the `sed lq' prevents false positives on HP-UX, which
says:
          # nm: unknown option "B" ignored
          # Tru64's nm complains that /dev/null is an invalid object file
          case "`$tmp_nm -B /dev/null 2>&1 | sed 'lq'`" in
          */dev/null* | *'Invalid file or object type'*)
            lt_cv_path_NM="$tmp_nm -B"

```

```

        break
        ;;
    *)
        case `"$tmp_nm" -p /dev/null 2>&1 | sed '1q'` in
        */dev/null*)
            lt_cv_path_NM="$tmp_nm -p"
            break
            ;;
        *)
            lt_cv_path_NM=${lt_cv_path_NM="$tmp_nm"} # keep the first
match, but
            continue # so that we can try to find one that supports BSD
flags
            ;;
        esac
        ;;
    esac
done
IFS="$lt_save_ifs"
done
test -z "$lt_cv_path_NM" && lt_cv_path_NM=nm
fi
fi
echo "$as_me:$LINENO: result: $lt_cv_path_NM" >&5
echo "${ECHO_T}$lt_cv_path_NM" >&6
NM="$lt_cv_path_NM"

echo "$as_me:$LINENO: checking whether ln -s works" >&5
echo $ECHO_N "checking whether ln -s works... $ECHO_C" >&6
LN_S=$as_ln_s
if test "$LN_S" = "ln -s"; then
    echo "$as_me:$LINENO: result: yes" >&5
    echo "${ECHO_T}yes" >&6
else
    echo "$as_me:$LINENO: result: no, using $LN_S" >&5
    echo "${ECHO_T}no, using $LN_S" >&6
fi

echo "$as_me:$LINENO: checking how to recognise dependent libraries" >&5
echo $ECHO_N "checking how to recognise dependent libraries... $ECHO_C"
>&6
if test "${lt_cv_deplibs_check_method+set}" = set; then
    echo $ECHO_N "(cached) $ECHO_C" >&6
else
    lt_cv_file_magic_cmd='$MAGIC_CMD'
    lt_cv_file_magic_test_file=
    lt_cv_deplibs_check_method='unknown'
    # Need to set the preceding variable on all platforms that support
    # interlibrary dependencies.
    # 'none' -- dependencies not supported.
    # 'unknown' -- same as none, but documents that we really don't know.
    # 'pass_all' -- all dependencies passed with no checks.
    # 'test_compile' -- check by making test program.

```

```

# 'file_magic [[regex]]' -- check by looking for files in library path
# which responds to the $file_magic_cmd with a given extended regex.
# If you have `file' or equivalent on your system and you're not sure
# whether `pass_all' will *always* work, you probably want this one.

case $host_os in
aix4* | aix5*)
    lt_cv_deplibs_check_method=pass_all
    ;;

beos*)
    lt_cv_deplibs_check_method=pass_all
    ;;

bsdi[45]*)
    lt_cv_deplibs_check_method='file_magic ELF [0-9][0-9]*-bit [ML]SB
(shared object|dynamic lib)'
    lt_cv_file_magic_cmd='/usr/bin/file -L'
    lt_cv_file_magic_test_file=/shlib/libc.so
    ;;

cygwin*)
    # func_win32_libid is a shell function defined in ltmain.sh
    lt_cv_deplibs_check_method='file_magic ^x86 archive import|^x86 DLL'
    lt_cv_file_magic_cmd='func_win32_libid'
    ;;

mingw* | pw32*)
    # Base MSYS/MinGW do not provide the 'file' command needed by
    # func_win32_libid shell function, so use a weaker test based on
    'objdump'.
    lt_cv_deplibs_check_method='file_magic file format pei*-
i386(.*architecture: i386)?'
    lt_cv_file_magic_cmd='$OBJDUMP -f'
    ;;

darwin* | rhapsody*)
    lt_cv_deplibs_check_method=pass_all
    ;;

freebsd* | kfreebsd*-gnu | dragonfly*)
    if echo __ELF__ | $CC -E - | grep __ELF__ > /dev/null; then
        case $host_cpu in
            i*86 )
                # Not sure whether the presence of OpenBSD here was a mistake.
                # Let's accept both of them until this is cleared up.
                lt_cv_deplibs_check_method='file_magic
(FreeBSD|OpenBSD|DragonFly)/i[3-9]86 (compact )?demand paged shared
library'
                lt_cv_file_magic_cmd=/usr/bin/file
                lt_cv_file_magic_test_file=`echo /usr/lib/libc.so.*`
                ;;
            esac
        else
            else

```

```

    lt_cv_deplibs_check_method=pass_all
fi
;;

gnu*)
    lt_cv_deplibs_check_method=pass_all
    ;;

hpux10.20* | hpux11*)
    lt_cv_file_magic_cmd=/usr/bin/file
    case $host_cpu in
    ia64*)
        lt_cv_deplibs_check_method='file_magic (s[0-9][0-9][0-9]|ELF-[0-9][0-9]) shared object file - IA64'
        lt_cv_file_magic_test_file=/usr/lib/hpux32/libc.so
        ;;
    hppa*64*)
        lt_cv_deplibs_check_method='file_magic (s[0-9][0-9][0-9]|ELF-[0-9][0-9]) shared object file - PA-RISC [0-9].[0-9]'
        lt_cv_file_magic_test_file=/usr/lib/pa20_64/libc.sl
        ;;
    *)
        lt_cv_deplibs_check_method='file_magic (s[0-9][0-9][0-9]|PA-RISC[0-9].[0-9]) shared library'
        lt_cv_file_magic_test_file=/usr/lib/libc.sl
        ;;
    esac
    ;;

interix3*)
    # PIC code is broken on Interix 3.x, that's why |\a not |\_pic\a here
    lt_cv_deplibs_check_method='match_pattern /lib[^/]+(\.so|\a)$'
    ;;

irix5* | irix6* | nonstopux*)
    case $LD in
    *-32|*" -32 ") libmagic=32-bit;;
    *-n32|*" -n32 ") libmagic=N32;;
    *-64|*" -64 ") libmagic=64-bit;;
    *) libmagic=never-match;;
    esac
    lt_cv_deplibs_check_method=pass_all
    ;;

# This must be Linux ELF.
linux*)
    lt_cv_deplibs_check_method=pass_all
    ;;

netbsd*)
    if echo __ELF__ | $CC -E - | grep __ELF__ > /dev/null; then
        lt_cv_deplibs_check_method='match_pattern /lib[^/]+(\.so\.[0-9]+\.[0-9]+|\_pic\.)$'
    else

```

```

    lt_cv_deplibs_check_method='match_pattern /lib[^/]+(\.so|_pic\.a)$'
fi
;;

newos6*)
    lt_cv_deplibs_check_method='file_magic ELF [0-9][0-9]*-bit [ML]SB
(executable|dynamic lib)'
    lt_cv_file_magic_cmd=/usr/bin/file
    lt_cv_file_magic_test_file=/usr/lib/libnls.so
    ;;

nto-qnx*)
    lt_cv_deplibs_check_method=unknown
    ;;

openbsd*)
    if test -z "`echo __ELF__ | $CC -E - | grep __ELF__`" || test
"$host_os-$host_cpu" = "openbsd2.8-powerpc"; then
        lt_cv_deplibs_check_method='match_pattern /lib[^/]+(\.so\.[0-9]+\.[0-
9]+|\.so|_pic\.a)$'
    else
        lt_cv_deplibs_check_method='match_pattern /lib[^/]+(\.so\.[0-9]+\.[0-
9]+|_pic\.a)$'
    fi
    ;;

osf3* | osf4* | osf5*)
    lt_cv_deplibs_check_method=pass_all
    ;;

solaris*)
    lt_cv_deplibs_check_method=pass_all
    ;;

sysv4 | sysv4.3*)
    case $host_vendor in
    motorola)
        lt_cv_deplibs_check_method='file_magic ELF [0-9][0-9]*-bit [ML]SB
(shared object|dynamic lib) M[0-9][0-9]* Version [0-9]'
        lt_cv_file_magic_test_file=`echo /usr/lib/libc.so*`
        ;;
    ncr)
        lt_cv_deplibs_check_method=pass_all
        ;;
    sequent)
        lt_cv_file_magic_cmd='/bin/file'
        lt_cv_deplibs_check_method='file_magic ELF [0-9][0-9]*-bit [LM]SB
(shared object|dynamic lib )'
        ;;
    sni)
        lt_cv_file_magic_cmd='/bin/file'
        lt_cv_deplibs_check_method="file_magic ELF [0-9][0-9]*-bit [LM]SB
dynamic lib"
        lt_cv_file_magic_test_file=/lib/libc.so
    ;;

```



```

        ;;
    siemens)
        lt_cv_deplibs_check_method=pass_all
        ;;
    pc)
        lt_cv_deplibs_check_method=pass_all
        ;;
    esac
    ;;

sysv5* | sco3.2v5* | sco5v6* | unixware* | OpenUNIX* | sysv4*uw2*)
    lt_cv_deplibs_check_method=pass_all
    ;;
esac

fi
echo "$as_me:$LINENO: result: $lt_cv_deplibs_check_method" >&5
echo "${ECHO_T}$lt_cv_deplibs_check_method" >&6
file_magic_cmd=$lt_cv_file_magic_cmd
deplibs_check_method=$lt_cv_deplibs_check_method
test -z "$deplibs_check_method" && deplibs_check_method=unknown

# If no C compiler was specified, use CC.
LTCC=${LTCC-"$CC"}

# If no C compiler flags were specified, use CFLAGS.
LTCFLAGS=${LTCFLAGS-"$CFLAGS"}

# Allow CC to be a program name with arguments.
compiler=$CC

# Check whether --enable-libtool-lock or --disable-libtool-lock was
given.
if test "${enable_libtool_lock+set}" = set; then
    enableval="$enable_libtool_lock"

fi;
test "x$enable_libtool_lock" != xno && enable_libtool_lock=yes

# Some flags need to be propagated to the compiler or linker for good
# libtool support.
case $host in
ia64-*-hpux*)
    # Find out which ABI we are using.
    echo 'int i;' > conftest.$ac_ext
    if { (eval echo "$as_me:$LINENO: \"$ac_compile\"" >&5
    (eval $ac_compile) 2>&5
    ac_status=$?
    echo "$as_me:$LINENO: \$? = $ac_status" >&5
    (exit $ac_status); }; then

```

```

    case `/usr/bin/file confptest.$ac_objext` in
    *ELF-32*)
        HPUX_IA64_MODE="32"
        ;;
    *ELF-64*)
        HPUX_IA64_MODE="64"
        ;;
    esac
fi
rm -rf confptest*
;;
*-*-irix6*)
# Find out which ABI we are using.
echo '#line 3856 "configure"' > confptest.$ac_ext
if { (eval echo "$as_me:$LINENO: \"$ac_compile\"" >&5
(eval $ac_compile) 2>&5
ac_status=$?
echo "$as_me:$LINENO: \ $? = $ac_status" >&5
(exit $ac_status); }; then
if test "$lt_cv_prog_gnu_ld" = yes; then
    case `/usr/bin/file confptest.$ac_objext` in
    *32-bit*)
        LD="{LD-ld} -melf32bsmip"
        ;;
    *N32*)
        LD="{LD-ld} -melf32bmipn32"
        ;;
    *64-bit*)
        LD="{LD-ld} -melf64bmip"
        ;;
    esac
else
    case `/usr/bin/file confptest.$ac_objext` in
    *32-bit*)
        LD="{LD-ld} -32"
        ;;
    *N32*)
        LD="{LD-ld} -n32"
        ;;
    *64-bit*)
        LD="{LD-ld} -64"
        ;;
    esac
fi
fi
rm -rf confptest*
;;
x86_64-*linux*|ppc*-*linux*|powerpc*-*linux*|s390*-*linux*|sparc*-*
linux*)
# Find out which ABI we are using.
echo 'int i;' > confptest.$ac_ext
if { (eval echo "$as_me:$LINENO: \"$ac_compile\"" >&5
(eval $ac_compile) 2>&5

```

```

ac_status=$?
echo "$as_me:$LINENO: \ $? = $ac_status" >&5
(exit $ac_status); }; then
  case ` /usr/bin/file conftest.o` in
    *32-bit*)
      case $host in
        x86_64-*linux*)
          LD="{LD-ld} -m elf_i386"
          ;;
        ppc64-*linux*|powerpc64-*linux*)
          LD="{LD-ld} -m elf32ppclinux"
          ;;
        s390x-*linux*)
          LD="{LD-ld} -m elf_s390"
          ;;
        sparc64-*linux*)
          LD="{LD-ld} -m elf32_sparc"
          ;;
      esac
    ;;
    *64-bit*)
      case $host in
        x86_64-*linux*)
          LD="{LD-ld} -m elf_x86_64"
          ;;
        ppc*-*linux*|powerpc*-*linux*)
          LD="{LD-ld} -m elf64ppc"
          ;;
        s390*-*linux*)
          LD="{LD-ld} -m elf64_s390"
          ;;
        sparc*-*linux*)
          LD="{LD-ld} -m elf64_sparc"
          ;;
      esac
    ;;
  esac
fi
rm -rf conftest*
;;

*--sco3.2v5*)
# On SCO OpenServer 5, we need -belf to get full-featured binaries.
SAVE_CFLAGS="$CFLAGS"
CFLAGS="$CFLAGS -belf"
echo "$as_me:$LINENO: checking whether the C compiler needs -belf" >&5
echo $ECHO_N "checking whether the C compiler needs -belf... $ECHO_C" >&6
if test "${lt_cv_cc_needs_belf+set}" = set; then
  echo $ECHO_N "(cached) $ECHO_C" >&6
else
  ac_ext=c
  ac_cpp=' $CPP $CPPFLAGS'
  ac_compile=' $CC -c $CFLAGS $CPPFLAGS conftest.$ac_ext >&5'

```

```

ac_link='$CC -o conftest$sac_exeext $CFLAGS $CPPFLAGS $LDFLAGS
conftest.$sac_ext $LIBS >&5'
ac_compiler_gnu=$sac_cv_c_compiler_gnu

    cat >conftest.$sac_ext <<_ACEOF
/* confdefs.h. */
_ACEOF
cat confdefs.h >>conftest.$sac_ext
cat >>conftest.$sac_ext <<_ACEOF
/* end confdefs.h. */

int
main ()
{

    ;
    return 0;
}
_ACEOF
rm -f conftest.$sac_objext conftest$sac_exeext
if { (eval echo "$as_me:$LINENO: \"$ac_link\"" ) >&5
      (eval $ac_link) 2>conftest.er1
      ac_status=$?
      grep -v '^ *+' conftest.er1 >conftest.err
      rm -f conftest.er1
      cat conftest.err >&5
      echo "$as_me:$LINENO: \ $? = $ac_status" >&5
      (exit $ac_status); } &&
    { ac_try='test -z "$sac_c_werror_flag"
              || test ! -s conftest.err'
      { (eval echo "$as_me:$LINENO: \"$ac_try\"" ) >&5
        (eval $ac_try) 2>&5
        ac_status=$?
        echo "$as_me:$LINENO: \ $? = $ac_status" >&5
        (exit $ac_status); }; } &&
    { ac_try='test -s conftest$sac_exeext'
      { (eval echo "$as_me:$LINENO: \"$ac_try\"" ) >&5
        (eval $ac_try) 2>&5
        ac_status=$?
        echo "$as_me:$LINENO: \ $? = $ac_status" >&5
        (exit $ac_status); }; }; then
      lt_cv_cc_needs_belf=yes
    else
      echo "$as_me: failed program was:" >&5
      sed 's/^/| /' conftest.$sac_ext >&5

      lt_cv_cc_needs_belf=no
    fi
rm -f conftest.err conftest.$sac_objext \
      conftest$sac_exeext conftest.$sac_ext
ac_ext=c
ac_cpp='$CPP $CPPFLAGS'
ac_compile='$CC -c $CFLAGS $CPPFLAGS conftest.$sac_ext >&5'

```

```

ac_link='$CC -o conftest$ac_exeext $CFLAGS $CPPFLAGS $LDFLAGS
conftest.$ac_ext $LIBS >&5'
ac_compiler_gnu=$ac_cv_c_compiler_gnu

fi
echo "$as_me:$LINENO: result: $lt_cv_cc_needs_belf" >&5
echo "${ECHO_T}$lt_cv_cc_needs_belf" >&6
  if test x"$lt_cv_cc_needs_belf" != x"yes"; then
    # this is probably gcc 2.8.0, egcs 1.0 or newer; no need for -belf
    CFLAGS="$SAVE_CFLAGS"
  fi
;;
sparc*--*solaris*)
  # Find out which ABI we are using.
  echo 'int i;' > conftest.$ac_ext
  if { (eval echo "$as_me:$LINENO: \"$ac_compile\"") >&5
    (eval $ac_compile) 2>&5
    ac_status=$?
    echo "$as_me:$LINENO: \ $? = $ac_status" >&5
    (exit $ac_status); }; then
    case ` /usr/bin/file conftest.o ` in
      *64-bit*)
        case $lt_cv_prog_gnu_ld in
          yes*) LD="{LD-ld} -m elf64_sparc" ;;
          *) LD="{LD-ld} -64" ;;
        esac
      ;;
    esac
  fi
  rm -rf conftest*
;;

esac

need_locks="$enable_libtool_lock"

ac_ext=c
ac_cpp='$CPP $CPPFLAGS'
ac_compile='$CC -c $CFLAGS $CPPFLAGS conftest.$ac_ext >&5'
ac_link='$CC -o conftest$ac_exeext $CFLAGS $CPPFLAGS $LDFLAGS
conftest.$ac_ext $LIBS >&5'
ac_compiler_gnu=$ac_cv_c_compiler_gnu
echo "$as_me:$LINENO: checking how to run the C preprocessor" >&5
echo $ECHO_N "checking how to run the C preprocessor... $ECHO_C" >&6
# On Suns, sometimes $CPP names a directory.
if test -n "$CPP" && test -d "$CPP"; then
  CPP=
fi
if test -z "$CPP"; then
  if test "${ac_cv_prog_CPP+set}" = set; then
    echo $ECHO_N "(cached) $ECHO_C" >&6
  else

```

```

        # Double quotes because CPP needs to be expanded
        for CPP in "$CC -E" "$CC -E -traditional-cpp" "/lib/cpp"
        do
            ac_preproc_ok=false
        for ac_c_preproc_warn_flag in '' yes
        do
            # Use a header file that comes with gcc, so configuring glibc
            # with a fresh cross-compiler works.
            # Prefer <limits.h> to <assert.h> if __STDC__ is defined, since
            # <limits.h> exists even on freestanding compilers.
            # On the NeXT, cc -E runs the code through the compiler's parser,
            # not just through cpp. "Syntax error" is here to catch this case.
            cat >conftest.$ac_ext <<_ACEOF
/* confdefs.h. */
_ACEOF
cat confdefs.h >>conftest.$ac_ext
cat >>conftest.$ac_ext <<_ACEOF
/* end confdefs.h. */
#ifdef __STDC__
# include <limits.h>
#else
# include <assert.h>
#endif

                Syntax error
_ACEOF
if { (eval echo "$as_me:$LINENO: \"$ac_cpp conftest.$ac_ext\"") >&5
    (eval $ac_cpp conftest.$ac_ext) 2>conftest.er1
    ac_status=$?
    grep -v '^ *+' conftest.er1 >conftest.err
    rm -f conftest.er1
    cat conftest.err >&5
    echo "$as_me:$LINENO: \ $? = $ac_status" >&5
    (exit $ac_status); } >/dev/null; then
    if test -s conftest.err; then
        ac_cpp_err=$ac_c_preproc_warn_flag
        ac_cpp_err=$ac_cpp_err$ac_c_werror_flag
    else
        ac_cpp_err=
    fi
else
    ac_cpp_err=yes
fi
if test -z "$ac_cpp_err"; then
:
else
    echo "$as_me: failed program was:" >&5
    sed 's/^/| /' conftest.$ac_ext >&5

        # Broken: fails on valid input.
        continue
    fi
    rm -f conftest.err conftest.$ac_ext

        # OK, works on sane cases.  Now check whether non-existent headers

```

```

    # can be detected and how.
    cat >confptest.$ac_ext <<_ACEOF
/* confdefs.h. */
_ACEOF
cat confdefs.h >>confptest.$ac_ext
cat >>confptest.$ac_ext <<_ACEOF
/* end confdefs.h. */
#include <ac_nonexistent.h>
_ACEOF
if { (eval echo "$as_me:$LINENO: \"\$ac_cpp confptest.$ac_ext\"") >&5
    (eval $ac_cpp confptest.$ac_ext) 2>confptest.erl
    ac_status=$?
    grep -v '^ *+' confptest.erl >confptest.err
    rm -f confptest.erl
    cat confptest.err >&5
    echo "$as_me:$LINENO: \ $? = $ac_status" >&5
    (exit $ac_status); } >/dev/null; then
    if test -s confptest.err; then
        ac_cpp_err=$ac_c_preproc_warn_flag
        ac_cpp_err=$ac_cpp_err$ac_c_werror_flag
    else
        ac_cpp_err=
    fi
else
    ac_cpp_err=yes
fi
if test -z "$ac_cpp_err"; then
    # Broken: success on invalid input.
    continue
else
    echo "$as_me: failed program was:" >&5
    sed 's/^/| /' confptest.$ac_ext >&5

    # Passes both tests.
    ac_preproc_ok=:
    break
fi
rm -f confptest.err confptest.$ac_ext

done
# Because of `break', _AC_PREPROC_IFELSE's cleaning code was skipped.
rm -f confptest.err confptest.$ac_ext
if $ac_preproc_ok; then
    break
fi

done
ac_cv_prog_CPP=$CPP

fi
CPP=$ac_cv_prog_CPP
else
    ac_cv_prog_CPP=$CPP
fi

```

```

echo "$as_me:$LINENO: result: $CPP" >&5
echo "${ECHO_T}$CPP" >&6
ac_preproc_ok=false
for ac_c_preproc_warn_flag in '' yes
do
  # Use a header file that comes with gcc, so configuring glibc
  # with a fresh cross-compiler works.
  # Prefer <limits.h> to <assert.h> if __STDC__ is defined, since
  # <limits.h> exists even on freestanding compilers.
  # On the NeXT, cc -E runs the code through the compiler's parser,
  # not just through cpp. "Syntax error" is here to catch this case.
  cat >conftest.$ac_ext <<_ACEOF
/* confdefs.h. */
_ACEOF
cat confdefs.h >>conftest.$ac_ext
cat >>conftest.$ac_ext <<_ACEOF
/* end confdefs.h. */
#ifdef __STDC__
# include <limits.h>
#else
# include <assert.h>
#endif

                Syntax error

_ACEOF
if { (eval echo "$as_me:$LINENO: \"$ac_cpp conftest.$ac_ext\"") >&5
  (eval $ac_cpp conftest.$ac_ext) 2>conftest.er1
  ac_status=$?
  grep -v '^ *+' conftest.er1 >conftest.err
  rm -f conftest.er1
  cat conftest.err >&5
  echo "$as_me:$LINENO: \$? = $ac_status" >&5
  (exit $ac_status); } >/dev/null; then
  if test -s conftest.err; then
    ac_cpp_err=$ac_c_preproc_warn_flag
    ac_cpp_err=$ac_cpp_err$ac_c_werror_flag
  else
    ac_cpp_err=
  fi
else
  ac_cpp_err=yes
fi
if test -z "$ac_cpp_err"; then
:
else
  echo "$as_me: failed program was:" >&5
  sed 's/^/| /' conftest.$ac_ext >&5

  # Broken: fails on valid input.
  continue
fi
rm -f conftest.err conftest.$ac_ext

  # OK, works on sane cases.  Now check whether non-existent headers
  # can be detected and how.

```



```

    cat >confptest.$ac_ext <<_ACEOF
/* confdefs.h. */
_ACEOF
cat confdefs.h >>confptest.$ac_ext
cat >>confptest.$ac_ext <<_ACEOF
/* end confdefs.h. */
#include <ac_nonexistent.h>
_ACEOF
if { (eval echo "$as_me:$LINENO: \"\$ac_cpp confptest.$ac_ext\"") >&5
    (eval $ac_cpp confptest.$ac_ext) 2>confptest.erl
    ac_status=$?
    grep -v '^ *+' confptest.erl >confptest.err
    rm -f confptest.erl
    cat confptest.err >&5
    echo "$as_me:$LINENO: \ $? = $ac_status" >&5
    (exit $ac_status); } >/dev/null; then
if test -s confptest.err; then
    ac_cpp_err=$ac_c_preproc_warn_flag
    ac_cpp_err=$ac_cpp_err$ac_c_werror_flag
else
    ac_cpp_err=
fi
else
    ac_cpp_err=yes
fi
if test -z "$ac_cpp_err"; then
    # Broken: success on invalid input.
    continue
else
    echo "$as_me: failed program was:" >&5
    sed 's/^/| /' confptest.$ac_ext >&5

    # Passes both tests.
    ac_preproc_ok=:
    break
fi
rm -f confptest.err confptest.$ac_ext

done
# Because of `break', _AC_PREPROC_IFELSE's cleaning code was skipped.
rm -f confptest.err confptest.$ac_ext
if $ac_preproc_ok; then
:
else
    { { echo "$as_me:$LINENO: error: C preprocessor \"\$CPP\" fails sanity
check
See `config.log' for more details." >&5
echo "$as_me: error: C preprocessor \"\$CPP\" fails sanity check
See `config.log' for more details." >&2;}
    { (exit 1); exit 1; }; }
fi

ac_ext=c
ac_cpp='$CPP $CPPFLAGS'

```

```

ac_compile='$CC -c $CFLAGS $CPPFLAGS conftest.$ac_ext >&5'
ac_link='$CC -o conftest$ac_exeext $CFLAGS $CPPFLAGS $LDFLAGS
conftest.$ac_ext $LIBS >&5'
ac_compiler_gnu=$ac_cv_c_compiler_gnu

echo "$as_me:$LINENO: checking for ANSI C header files" >&5
echo $ECHO_N "checking for ANSI C header files... $ECHO_C" >&6
if test "${ac_cv_header_stdclib+set}" = set; then
  echo $ECHO_N "(cached) $ECHO_C" >&6
else
  cat >conftest.$ac_ext <<_ACEOF
/* confdefs.h. */
_ACEOF
cat confdefs.h >>conftest.$ac_ext
cat >>conftest.$ac_ext <<_ACEOF
/* end confdefs.h. */
#include <stdlib.h>
#include <stdarg.h>
#include <string.h>
#include <float.h>

int
main ()
{

  ;
  return 0;
}
_ACEOF
rm -f conftest.$ac_objext
if { (eval echo "$as_me:$LINENO: \"$ac_compile\"") >&5
  (eval $ac_compile) 2>conftest.er1
  ac_status=$?
  grep -v '^ *+' conftest.er1 >conftest.err
  rm -f conftest.er1
  cat conftest.err >&5
  echo "$as_me:$LINENO: \ $? = $ac_status" >&5
  (exit $ac_status); } &&
  { ac_try='test -z "$ac_c_werror_flag"
  || test ! -s conftest.err'
  { (eval echo "$as_me:$LINENO: \"$ac_try\"") >&5
  (eval $ac_try) 2>&5
  ac_status=$?
  echo "$as_me:$LINENO: \ $? = $ac_status" >&5
  (exit $ac_status); }; } &&
  { ac_try='test -s conftest.$ac_objext'
  { (eval echo "$as_me:$LINENO: \"$ac_try\"") >&5
  (eval $ac_try) 2>&5
  ac_status=$?
  echo "$as_me:$LINENO: \ $? = $ac_status" >&5
  (exit $ac_status); }; }; } then
  ac_cv_header_stdclib=yes
else

```

```

    echo "$as_me: failed program was:" >&5
sed 's/^\| /' conftest.$ac_ext >&5

ac_cv_header_stdcl=no
fi
rm -f conftest.err conftest.$ac_objext conftest.$ac_ext

if test $ac_cv_header_stdcl = yes; then
    # SunOS 4.x string.h does not declare mem*, contrary to ANSI.
    cat >conftest.$ac_ext <<_ACEOF
/* confdefs.h. */
_ACEOF
cat confdefs.h >>conftest.$ac_ext
cat >>conftest.$ac_ext <<_ACEOF
/* end confdefs.h. */
#include <string.h>

_ACEOF
if (eval "$ac_cpp conftest.$ac_ext") 2>&5 |
    $EGREP "memchr" >/dev/null 2>&1; then
    :
else
    ac_cv_header_stdcl=no
fi
rm -f conftest*

fi

if test $ac_cv_header_stdcl = yes; then
    # ISC 2.0.2 stdlib.h does not declare free, contrary to ANSI.
    cat >conftest.$ac_ext <<_ACEOF
/* confdefs.h. */
_ACEOF
cat confdefs.h >>conftest.$ac_ext
cat >>conftest.$ac_ext <<_ACEOF
/* end confdefs.h. */
#include <stdlib.h>

_ACEOF
if (eval "$ac_cpp conftest.$ac_ext") 2>&5 |
    $EGREP "free" >/dev/null 2>&1; then
    :
else
    ac_cv_header_stdcl=no
fi
rm -f conftest*

fi

if test $ac_cv_header_stdcl = yes; then
    # /bin/cc in Irix-4.0.5 gets non-ANSI ctype macros unless using -ansi.
    if test "$cross_compiling" = yes; then
        :
    else

```

```

    cat >confptest.$ac_ext <<_ACEOF
/* confdefs.h. */
_ACEOF
cat confdefs.h >>confptest.$ac_ext
cat >>confptest.$ac_ext <<_ACEOF
/* end confdefs.h. */
#include <ctype.h>
#if ((' ' & 0x0FF) == 0x020)
# define ISLOWER(c) ('a' <= (c) && (c) <= 'z')
# define TOUPPER(c) (ISLOWER(c) ? 'A' + ((c) - 'a') : (c))
#else
# define ISLOWER(c) \
    (('a' <= (c) && (c) <= 'i' \
     || ('j' <= (c) && (c) <= 'r' \
     || ('s' <= (c) && (c) <= 'z'))
# define TOUPPER(c) (ISLOWER(c) ? ((c) | 0x40) : (c))
#endif

#define XOR(e, f) (((e) && !(f)) || (!(e) && (f)))
int
main ()
{
    int i;
    for (i = 0; i < 256; i++)
        if (XOR (islower (i), ISLOWER (i))
            || toupper (i) != TOUPPER (i))
            exit(2);
    exit (0);
}
_ACEOF
rm -f confptest$ac_exeext
if { (eval echo "$as_me:$LINENO: \"$ac_link\"" ) >&5
    (eval $ac_link) 2>&5
    ac_status=$?
    echo "$as_me:$LINENO: \ $? = $ac_status" >&5
    (exit $ac_status); } && { ac_try='./confptest$ac_exeext'
    { (eval echo "$as_me:$LINENO: \"$ac_try\"" ) >&5
      (eval $ac_try) 2>&5
      ac_status=$?
      echo "$as_me:$LINENO: \ $? = $ac_status" >&5
      (exit $ac_status); }; }; then
:
else
    echo "$as_me: program exited with status $ac_status" >&5
    echo "$as_me: failed program was:" >&5
    sed 's/^/| /' confptest.$ac_ext >&5

( exit $ac_status )
ac_cv_header_stdcl=no
fi
rm -f core *.core gmon.out bb.out confptest$ac_exeext confptest.$ac_objext
confptest.$ac_ext
fi
fi

```

```

fi
echo "$as_me:$LINENO: result: $ac_cv_header_stdcl" >&5
echo "${ECHO_T}$ac_cv_header_stdcl" >&6
if test $ac_cv_header_stdcl = yes; then

cat >>confdefs.h <<\_ACEOF
#define STDC_HEADERS 1
\_ACEOF

fi

# On IRIX 5.3, sys/types and inttypes.h are conflicting.

for ac_header in sys/types.h sys/stat.h stdlib.h string.h memory.h
strings.h \
    inttypes.h stdint.h unistd.h
do
as_ac_Header=`echo "ac_cv_header_$ac_header" | $as_tr_sh`
echo "$as_me:$LINENO: checking for $ac_header" >&5
echo $ECHO_N "checking for $ac_header... $ECHO_C" >&6
if eval "test \"\${$as_ac_Header+set}\" = set"; then
    echo $ECHO_N "(cached) $ECHO_C" >&6
else
    cat >conftest.$ac_ext <<\_ACEOF
/* confdefs.h. */
\_ACEOF
cat confdefs.h >>conftest.$ac_ext
cat >>conftest.$ac_ext <<\_ACEOF
/* end confdefs.h. */
$ac_includes_default

#include <$ac_header>
\_ACEOF
rm -f conftest.$ac_objext
if { (eval echo "$as_me:$LINENO: \"$ac_compile\"") >&5
    (eval $ac_compile) 2>conftest.er1
    ac_status=$?
    grep -v '^ *+' conftest.er1 >conftest.err
    rm -f conftest.er1
    cat conftest.err >&5
    echo "$as_me:$LINENO: \ $? = $ac_status" >&5
    (exit $ac_status); } &&
    { ac_try='test -z "$ac_c_werror_flag"
    || test ! -s conftest.err'
    { (eval echo "$as_me:$LINENO: \"$ac_try\"") >&5
    (eval $ac_try) 2>&5

```

```

ac_status=$?
echo "$as_me:$LINENO: \ $? = $ac_status" >&5
(exit $ac_status); }; } &&
  { ac_try='test -s conftest.$ac_objext'
  { (eval echo "$as_me:$LINENO: \"\$ac_try\"") >&5
  (eval $ac_try) 2>&5
  ac_status=$?
  echo "$as_me:$LINENO: \ $? = $ac_status" >&5
  (exit $ac_status); }; }; then
  eval "$as_ac_Header=yes"
else
  echo "$as_me: failed program was:" >&5
  sed 's/^/| /' conftest.$ac_ext >&5

eval "$as_ac_Header=no"
fi
rm -f conftest.err conftest.$ac_objext conftest.$ac_ext
fi
echo "$as_me:$LINENO: result: `eval echo '${'$as_ac_Header'}'`" >&5
echo "${ECHO_T}`eval echo '${'$as_ac_Header'}'`" >&6
if test `eval echo '${'$as_ac_Header'}'` = yes; then
  cat >>confdefs.h <<_ACEOF
#define `echo "HAVE_$ac_header" | $as_tr_cpp` 1
_ACEOF

fi

done

for ac_header in dlfcn.h
do
as_ac_Header=`echo "ac_cv_header_$ac_header" | $as_tr_sh`
if eval "test \"\${$as_ac_Header+set}\" = set"; then
  echo "$as_me:$LINENO: checking for $ac_header" >&5
  echo $ECHO_N "checking for $ac_header... $ECHO_C" >&6
  if eval "test \"\${$as_ac_Header+set}\" = set"; then
    echo $ECHO_N "(cached) $ECHO_C" >&6
  fi
  echo "$as_me:$LINENO: result: `eval echo '${'$as_ac_Header'}'`" >&5
  echo "${ECHO_T}`eval echo '${'$as_ac_Header'}'`" >&6
else
  # Is the header compilable?
  echo "$as_me:$LINENO: checking $ac_header usability" >&5
  echo $ECHO_N "checking $ac_header usability... $ECHO_C" >&6
  cat >conftest.$ac_ext <<_ACEOF
/* confdefs.h. */
_ACEOF
cat confdefs.h >>conftest.$ac_ext
cat >>conftest.$ac_ext <<_ACEOF
/* end confdefs.h. */
$ac_includes_default
#include <$ac_header>

```

```

_ACEOF
rm -f confptest.$ac_objext
if { (eval echo "$as_me:$LINENO: \"$ac_compile\"" ) >&5
  (eval $ac_compile) 2>confptest.er1
  ac_status=$?
  grep -v '^ *+' confptest.er1 >confptest.err
  rm -f confptest.er1
  cat confptest.err >&5
  echo "$as_me:$LINENO: \ $? = $ac_status" >&5
  (exit $ac_status); } &&
  { ac_try='test -z "$ac_c_werror_flag"
  || test ! -s confptest.err'
  { (eval echo "$as_me:$LINENO: \"$ac_try\"" ) >&5
  (eval $ac_try) 2>&5
  ac_status=$?
  echo "$as_me:$LINENO: \ $? = $ac_status" >&5
  (exit $ac_status); }; } &&
  { ac_try='test -s confptest.$ac_objext'
  { (eval echo "$as_me:$LINENO: \"$ac_try\"" ) >&5
  (eval $ac_try) 2>&5
  ac_status=$?
  echo "$as_me:$LINENO: \ $? = $ac_status" >&5
  (exit $ac_status); }; }; then
  ac_header_compiler=yes
else
  echo "$as_me: failed program was:" >&5
  sed 's/^/| /' confptest.$ac_ext >&5

  ac_header_compiler=no
fi
rm -f confptest.err confptest.$ac_objext confptest.$ac_ext
echo "$as_me:$LINENO: result: $ac_header_compiler" >&5
echo "${ECHO_T}$ac_header_compiler" >&6

# Is the header present?
echo "$as_me:$LINENO: checking $ac_header presence" >&5
echo $ECHO_N "checking $ac_header presence... $ECHO_C" >&6
cat >confptest.$ac_ext <<_ACEOF
/* confdefs.h. */
_ACEOF
cat confdefs.h >>confptest.$ac_ext
cat >>confptest.$ac_ext <<_ACEOF
/* end confdefs.h. */
#include <$ac_header>
_ACEOF
if { (eval echo "$as_me:$LINENO: \"$ac_cpp confptest.$ac_ext\"" ) >&5
  (eval $ac_cpp confptest.$ac_ext) 2>confptest.er1
  ac_status=$?
  grep -v '^ *+' confptest.er1 >confptest.err
  rm -f confptest.er1
  cat confptest.err >&5
  echo "$as_me:$LINENO: \ $? = $ac_status" >&5
  (exit $ac_status); } >/dev/null; then
  if test -s confptest.err; then

```

```

        ac_cpp_err=$ac_c_preproc_warn_flag
        ac_cpp_err=$ac_cpp_err$ac_c_werror_flag
    else
        ac_cpp_err=
    fi
else
    ac_cpp_err=yes
fi
if test -z "$ac_cpp_err"; then
    ac_header_preproc=yes
else
    echo "$as_me: failed program was:" >&5
    sed 's/^/| /' conftest.$ac_ext >&5

    ac_header_preproc=no
fi
rm -f conftest.err conftest.$ac_ext
echo "$as_me:$LINENO: result: $ac_header_preproc" >&5
echo "${ECHO_T}$ac_header_preproc" >&6

# So?  What about this header?
case $ac_header_compiler:$ac_header_preproc:$ac_c_preproc_warn_flag in
  yes:no: )
    { echo "$as_me:$LINENO: WARNING: $ac_header: accepted by the
compiler, rejected by the preprocessor!" >&5
echo "$as_me: WARNING: $ac_header: accepted by the compiler, rejected by
the preprocessor!" >&2;}
    { echo "$as_me:$LINENO: WARNING: $ac_header: proceeding with the
compiler's result" >&5
echo "$as_me: WARNING: $ac_header: proceeding with the compiler's result"
>&2;}
    ac_header_preproc=yes
    ;;
  no:yes:* )
    { echo "$as_me:$LINENO: WARNING: $ac_header: present but cannot be
compiled" >&5
echo "$as_me: WARNING: $ac_header: present but cannot be compiled" >&2;}
    { echo "$as_me:$LINENO: WARNING: $ac_header:
check for missing
prerequisite headers?" >&5
echo "$as_me: WARNING: $ac_header:
check for missing prerequisite
headers?" >&2;}
    { echo "$as_me:$LINENO: WARNING: $ac_header: see the Autoconf
documentation" >&5
echo "$as_me: WARNING: $ac_header: see the Autoconf documentation" >&2;}
    { echo "$as_me:$LINENO: WARNING: $ac_header:
section \"Present
But Cannot Be Compiled\"" >&5
echo "$as_me: WARNING: $ac_header:
section \"Present But Cannot Be
Compiled\"" >&2;}
    { echo "$as_me:$LINENO: WARNING: $ac_header: proceeding with the
preprocessor's result" >&5
echo "$as_me: WARNING: $ac_header: proceeding with the preprocessor's
result" >&2;}
    { echo "$as_me:$LINENO: WARNING: $ac_header: in the future, the
compiler will take precedence" >&5

```



```

echo "$as_me: WARNING: $ac_header: in the future, the compiler will take
precedence" >&2;}
(
  cat <<\_ASBOX
## ----- ##
## Report this to linux-diag-devel@lists.sourceforge.net ##
## ----- ##
\_ASBOX
) |
  sed "s/^\($as_me: WARNING:      /" >&2
;;
esac
echo "$as_me:$LINENO: checking for $ac_header" >&5
echo $ECHO_N "checking for $ac_header... $ECHO_C" >&6
if eval "test \"\${$as_ac_Header+set}\" = set"; then
  echo $ECHO_N "(cached) $ECHO_C" >&6
else
  eval "$as_ac_Header=\$ac_header_preproc"
fi
echo "$as_me:$LINENO: result: `eval echo '${'$as_ac_Header}'`" >&5
echo "${ECHO_T}`eval echo '${'$as_ac_Header}'`" >&6

fi
if test `eval echo '${'$as_ac_Header}'` = yes; then
  cat >>confdefs.h <<_ACEOF
#define `echo "HAVE_$ac_header" | $as_tr_cpp` 1
\_ACEOF

fi

done

ac_ext=cc
ac_cpp='$CXXCPP $CPPFLAGS'
ac_compile='$CXX -c $CXXFLAGS $CPPFLAGS conftest.$ac_ext >&5'
ac_link='$CXX -o conftest$ac_exeext $CXXFLAGS $CPPFLAGS $LDFLAGS
conftest.$ac_ext $LIBS >&5'
ac_compiler_gnu=$ac_cv_cxx_compiler_gnu
if test -n "$ac_tool_prefix"; then
  for ac_prog in $CCC g++ c++ gpp aCC CC cxx cc++ cl FCC KCC RCC xlc_r
xlc
  do
    # Extract the first word of "$ac_tool_prefix$ac_prog", so it can be a
program name with args.
    set dummy $ac_tool_prefix$ac_prog; ac_word=$2
    echo "$as_me:$LINENO: checking for $ac_word" >&5
    echo $ECHO_N "checking for $ac_word... $ECHO_C" >&6
    if test "${ac_cv_prog_CXX+set}" = set; then
      echo $ECHO_N "(cached) $ECHO_C" >&6
    else
      if test -n "$CXX"; then
        ac_cv_prog_CXX="$CXX" # Let the user override the test.
      else
as_save_IFS=$IFS; IFS=$PATH_SEPARATOR

```

```

for as_dir in $PATH
do
  IFS=$as_save_IFS
  test -z "$as_dir" && as_dir=.
  for ac_exec_ext in ' $ac_executable_extensions; do
  if $as_executable_p "$as_dir/$ac_word$ac_exec_ext"; then
    ac_cv_prog_CXX="$ac_tool_prefix$ac_prog"
    echo "$as_me:$LINENO: found $as_dir/$ac_word$ac_exec_ext" >&5
    break 2
  fi
done
done

fi
fi
CXX=$ac_cv_prog_CXX
if test -n "$CXX"; then
  echo "$as_me:$LINENO: result: $CXX" >&5
  echo "${ECHO_T}$CXX" >&6
else
  echo "$as_me:$LINENO: result: no" >&5
  echo "${ECHO_T}no" >&6
fi

  test -n "$CXX" && break
done
fi
if test -z "$CXX"; then
  ac_ct_CXX=$CXX
  for ac_prog in $CCC g++ c++ gpp aCC CC cxx cc++ cl FCC KCC RCC xlc_r
  xlc
do
  # Extract the first word of "$ac_prog", so it can be a program name
  with args.
  set dummy $ac_prog; ac_word=$2
  echo "$as_me:$LINENO: checking for $ac_word" >&5
  echo $ECHO_N "checking for $ac_word... $ECHO_C" >&6
  if test "${ac_cv_prog_ac_ct_CXX+set}" = set; then
    echo $ECHO_N "(cached) $ECHO_C" >&6
  else
    if test -n "$ac_ct_CXX"; then
      ac_cv_prog_ac_ct_CXX="$ac_ct_CXX" # Let the user override the test.
    else
      as_save_IFS=$IFS; IFS=$PATH_SEPARATOR
      for as_dir in $PATH
      do
        IFS=$as_save_IFS
        test -z "$as_dir" && as_dir=.
        for ac_exec_ext in ' $ac_executable_extensions; do
        if $as_executable_p "$as_dir/$ac_word$ac_exec_ext"; then
          ac_cv_prog_ac_ct_CXX="$ac_prog"
          echo "$as_me:$LINENO: found $as_dir/$ac_word$ac_exec_ext" >&5
          break 2
        fi
      done
    fi
  fi

```

```

done
done

fi
fi
ac_ct_CXX=$ac_cv_prog_ac_ct_CXX
if test -n "$ac_ct_CXX"; then
  echo "$as_me:$LINENO: result: $ac_ct_CXX" >&5
  echo "${ECHO_T}$ac_ct_CXX" >&6
else
  echo "$as_me:$LINENO: result: no" >&5
  echo "${ECHO_T}no" >&6
fi

  test -n "$ac_ct_CXX" && break
done
test -n "$ac_ct_CXX" || ac_ct_CXX="g++"

  CXX=$ac_ct_CXX
fi

# Provide some information about the compiler.
echo "$as_me:$LINENO:" \
  "checking for C++ compiler version" >&5
ac_compiler=`set X $ac_compile; echo $2`
{ (eval echo "$as_me:$LINENO: \"$ac_compiler --version </dev/null >&5\"")
>&5
  (eval $ac_compiler --version </dev/null >&5) 2>&5
  ac_status=$?
  echo "$as_me:$LINENO: \ $? = $ac_status" >&5
  (exit $ac_status); }
{ (eval echo "$as_me:$LINENO: \"$ac_compiler -v </dev/null >&5\"") >&5
  (eval $ac_compiler -v </dev/null >&5) 2>&5
  ac_status=$?
  echo "$as_me:$LINENO: \ $? = $ac_status" >&5
  (exit $ac_status); }
{ (eval echo "$as_me:$LINENO: \"$ac_compiler -V </dev/null >&5\"") >&5
  (eval $ac_compiler -V </dev/null >&5) 2>&5
  ac_status=$?
  echo "$as_me:$LINENO: \ $? = $ac_status" >&5
  (exit $ac_status); }

echo "$as_me:$LINENO: checking whether we are using the GNU C++ compiler"
>&5
echo $ECHO_N "checking whether we are using the GNU C++ compiler...
$ECHO_C" >&6
if test "${ac_cv_cxx_compiler_gnu+set}" = set; then
  echo $ECHO_N "(cached) $ECHO_C" >&6
else
  cat >confptest.$ac_ext <<_ACEOF
/* confdefs.h. */
_ACEOF
cat confdefs.h >>confptest.$ac_ext

```

```

cat >>confptest.$ac_ext <<_ACEOF
/* end confdefs.h.  */

int
main ()
{
#ifdef __GNUC__
    choke me
#endif

    ;
    return 0;
}
_ACEOF
rm -f confptest.$ac_objext
if { (eval echo "$as_me:$LINENO: \"$ac_compile\"" >&5
      (eval $ac_compile) 2>confptest.erl
      ac_status=$?
      grep -v '^ *+' confptest.erl >confptest.err
      rm -f confptest.erl
      cat confptest.err >&5
      echo "$as_me:$LINENO: \ $? = $ac_status" >&5
      (exit $ac_status); } &&
    { ac_try='test -z "$ac_cxx_werror_flag"
              || test ! -s confptest.err'
      { (eval echo "$as_me:$LINENO: \"$ac_try\"" >&5
          (eval $ac_try) 2>&5
          ac_status=$?
          echo "$as_me:$LINENO: \ $? = $ac_status" >&5
          (exit $ac_status); }; } &&
      { ac_try='test -s confptest.$ac_objext'
        { (eval echo "$as_me:$LINENO: \"$ac_try\"" >&5
            (eval $ac_try) 2>&5
            ac_status=$?
            echo "$as_me:$LINENO: \ $? = $ac_status" >&5
            (exit $ac_status); }; }; then
        ac_compiler_gnu=yes
      else
        echo "$as_me: failed program was:" >&5
        sed 's/^/| /' confptest.$ac_ext >&5

        ac_compiler_gnu=no
      fi
    rm -f confptest.err confptest.$ac_objext confptest.$ac_ext
    ac_cv_cxx_compiler_gnu=$ac_compiler_gnu

    fi
  echo "$as_me:$LINENO: result: $ac_cv_cxx_compiler_gnu" >&5
  echo "${ECHO_T}$ac_cv_cxx_compiler_gnu" >&6
  GXX=`test $ac_compiler_gnu = yes && echo yes`
  ac_test_CXXFLAGS=${CXXFLAGS+set}
  ac_save_CXXFLAGS=$CXXFLAGS
  CXXFLAGS="-g"
  echo "$as_me:$LINENO: checking whether $CXX accepts -g" >&5

```

```

echo $ECHO_N "checking whether $CXX accepts -g... $ECHO_C" >&6
if test "${ac_cv_prog_cxx_g+set}" = set; then
  echo $ECHO_N "(cached) $ECHO_C" >&6
else
  cat >confptest.$ac_ext <<_ACEOF
/* confdefs.h. */
_ACEOF
cat confdefs.h >>confptest.$ac_ext
cat >>confptest.$ac_ext <<_ACEOF
/* end confdefs.h. */

int
main ()
{

  ;
  return 0;
}
_ACEOF
rm -f confptest.$ac_objext
if { (eval echo "$as_me:$LINENO: \"$ac_compile\"" ) >&5
  (eval $ac_compile) 2>confptest.erl
  ac_status=$?
  grep -v '^ *+' confptest.erl >confptest.err
  rm -f confptest.erl
  cat confptest.err >&5
  echo "$as_me:$LINENO: \ $? = $ac_status" >&5
  (exit $ac_status); } &&
  { ac_try='test -z "$ac_cxx_werror_flag"
  || test ! -s confptest.err'
  { (eval echo "$as_me:$LINENO: \"$ac_try\"" ) >&5
  (eval $ac_try) 2>&5
  ac_status=$?
  echo "$as_me:$LINENO: \ $? = $ac_status" >&5
  (exit $ac_status); }; } &&
  { ac_try='test -s confptest.$ac_objext'
  { (eval echo "$as_me:$LINENO: \"$ac_try\"" ) >&5
  (eval $ac_try) 2>&5
  ac_status=$?
  echo "$as_me:$LINENO: \ $? = $ac_status" >&5
  (exit $ac_status); }; }; then
  ac_cv_prog_cxx_g=yes
else
  echo "$as_me: failed program was:" >&5
  sed 's/^/| /' confptest.$ac_ext >&5

ac_cv_prog_cxx_g=no
fi
rm -f confptest.err confptest.$ac_objext confptest.$ac_ext
fi
echo "$as_me:$LINENO: result: $ac_cv_prog_cxx_g" >&5
echo "${ECHO_T}$ac_cv_prog_cxx_g" >&6
if test "$ac_test_CXXFLAGS" = set; then
  CXXFLAGS=$ac_save_CXXFLAGS

```

```

elif test $ac_cv_prog_cxx_g = yes; then
  if test "$GXX" = yes; then
    CXXFLAGS="-g -O2"
  else
    CXXFLAGS="-g"
  fi
else
  if test "$GXX" = yes; then
    CXXFLAGS="-O2"
  else
    CXXFLAGS=
  fi
fi
for ac_declaration in \
  '' \
  'extern "C" void std::exit (int) throw (); using std::exit;' \
  'extern "C" void std::exit (int); using std::exit;' \
  'extern "C" void exit (int) throw ();' \
  'extern "C" void exit (int);' \
  'void exit (int);'
do
  cat >confptest.$ac_ext <<_ACEOF
/* confdefs.h. */
_ACEOF
cat confdefs.h >>confptest.$ac_ext
cat >>confptest.$ac_ext <<_ACEOF
/* end confdefs.h. */
$ac_declaration
#include <stdlib.h>
int
main ()
{
exit (42);
;
return 0;
}
_ACEOF
rm -f confptest.$ac_objext
if { (eval echo "$as_me:$LINENO: \"$ac_compile\"" ) >&5
(eval $ac_compile) 2>confptest.erl
ac_status=$?
grep -v '^ *+' confptest.erl >confptest.err
rm -f confptest.erl
cat confptest.err >&5
echo "$as_me:$LINENO: \$? = $ac_status" >&5
(exit $ac_status); } &&
{ ac_try='test -z "$ac_cxx_werror_flag"
|| test ! -s confptest.err'
{ (eval echo "$as_me:$LINENO: \"$ac_try\"" ) >&5
(eval $ac_try) 2>&5
ac_status=$?
echo "$as_me:$LINENO: \$? = $ac_status" >&5
(exit $ac_status); }; } &&
{ ac_try='test -s confptest.$ac_objext'

```

```

    { (eval echo "$as_me:$LINENO: \"$ac_try\"") >&5
      (eval $ac_try) 2>&5
      ac_status=$?
      echo "$as_me:$LINENO: \ $? = $ac_status" >&5
      (exit $ac_status); }; }; then
    :
else
  echo "$as_me: failed program was:" >&5
  sed 's/^/| /' conftest.$ac_ext >&5

continue
fi
rm -f conftest.err conftest.$ac_objext conftest.$ac_ext
  cat >conftest.$ac_ext <<_ACEOF
/* confdefs.h. */
_ACEOF
cat confdefs.h >>conftest.$ac_ext
cat >>conftest.$ac_ext <<_ACEOF
/* end confdefs.h. */
$ac_declaration
int
main ()
{
exit (42);
;
  return 0;
}
_ACEOF
rm -f conftest.$ac_objext
if { (eval echo "$as_me:$LINENO: \"$ac_compile\"") >&5
      (eval $ac_compile) 2>conftest.er1
      ac_status=$?
      grep -v '^ *+' conftest.er1 >conftest.err
      rm -f conftest.er1
      cat conftest.err >&5
      echo "$as_me:$LINENO: \ $? = $ac_status" >&5
      (exit $ac_status); } &&
    { ac_try='test -z "$ac_cxx_werror_flag"
              || test !-s conftest.err'
      { (eval echo "$as_me:$LINENO: \"$ac_try\"") >&5
        (eval $ac_try) 2>&5
        ac_status=$?
        echo "$as_me:$LINENO: \ $? = $ac_status" >&5
        (exit $ac_status); }; } &&
    { ac_try='test -s conftest.$ac_objext'
      { (eval echo "$as_me:$LINENO: \"$ac_try\"") >&5
        (eval $ac_try) 2>&5
        ac_status=$?
        echo "$as_me:$LINENO: \ $? = $ac_status" >&5
        (exit $ac_status); }; }; } then
    break
else
  echo "$as_me: failed program was:" >&5
  sed 's/^/| /' conftest.$ac_ext >&5

```

```

fi
rm -f confptest.err confptest.$ac_objext confptest.$ac_ext
done
rm -f confptest*
if test -n "$ac_declaration"; then
  echo '#ifdef __cplusplus' >>confdefs.h
  echo $ac_declaration >>confdefs.h
  echo '#endif' >>confdefs.h
fi

ac_ext=cc
ac_cpp='$CXXCPP $CPPFLAGS'
ac_compile='$CXX -c $CXXFLAGS $CPPFLAGS confptest.$ac_ext >&5'
ac_link='$CXX -o confptest$ac_exeext $CXXFLAGS $CPPFLAGS $LDFLAGS
confptest.$ac_ext $LIBS >&5'
ac_compiler_gnu=$ac_cv_cxx_compiler_gnu

depcc="$CXX" am_compiler_list=

echo "$as_me:$LINENO: checking dependency style of $depcc" >&5
echo $ECHO_N "checking dependency style of $depcc... $ECHO_C" >&6
if test "${am_cv_CXX_dependencies_compiler_type+set}" = set; then
  echo $ECHO_N "(cached) $ECHO_C" >&6
else
  if test -z "$SAMDEP_TRUE" && test -f "$sam_depcomp"; then
    # We make a subdir and do the tests there. Otherwise we can end up
    # making bogus files that we don't know about and never remove. For
    # instance it was reported that on HP-UX the gcc test will end up
    # making a dummy file named `D' -- because `-MD' means `put the output
    # in D'.
    mkdir confptest.dir
    # Copy depcomp to subdir because otherwise we won't find it if we're
    # using a relative directory.
    cp "$sam_depcomp" confptest.dir
    cd confptest.dir
    # We will build objects and dependencies in a subdirectory because
    # it helps to detect inapplicable dependency modes. For instance
    # both Tru64's cc and ICC support -MD to output dependencies as a
    # side effect of compilation, but ICC will put the dependencies in
    # the current directory while Tru64 will put them in the object
    # directory.
    mkdir sub

    am_cv_CXX_dependencies_compiler_type=none
    if test "$sam_compiler_list" = ""; then
      am_compiler_list=`sed -n 's/^#*\([a-zA-Z0-9]*\))$/\1/p' < ./depcomp`
    fi
  fi
  for depmode in $sam_compiler_list; do
    # Setup a source with many dependencies, because some compilers
    # like to wrap large dependency lists on column 80 (with \), and
    # we should not choose a depcomp mode which is confused by this.
    #
    # We need to recreate these files for each test, as the compiler may

```



```

# overwrite some of them when testing with obscure command lines.
# This happens at least with the AIX C compiler.
: > sub/confptest.c
for i in 1 2 3 4 5 6; do
    echo '#include "conftst'$i'.h"' >> sub/confptest.c
    # Using `: > sub/conftst$i.h' creates only sub/conftst1.h with
    # Solaris 8's {/usr,}/bin/sh.
    touch sub/conftst$i.h
done
echo "${am__include} ${am__quote}sub/confptest.Po${am__quote}" >
confmf

case $depmode in
nosideeffect)
    # after this tag, mechanisms are not by side-effect, so they'll
    # only be used when explicitly requested
    if test "x$enable_dependency_tracking" = xyes; then
        continue
    else
        break
    fi
    ;;
none) break ;;
esac
# We check with `-c' and `-o' for the sake of the "dashmstdout"
# mode. It turns out that the SunPro C++ compiler does not properly
# handle `-M -o', and we need to detect this.
if depmode=$depmode \
    source=sub/confptest.c object=sub/confptest.${OBJEXT-o} \
    depfile=sub/confptest.Po tmpdepfile=sub/confptest.TPo \
    $SHELL ./depcomp $depcc -c -o sub/confptest.${OBJEXT-o}
sub/confptest.c \
    >/dev/null 2>conftest.err &&
    grep sub/conftst6.h sub/confptest.Po > /dev/null 2>&1 &&
    grep sub/confptest.${OBJEXT-o} sub/confptest.Po > /dev/null 2>&1 &&
    ${MAKE-make} -s -f confmf > /dev/null 2>&1; then
    # icc doesn't choke on unknown options, it will just issue warnings
    # or remarks (even with -Werror). So we grep stderr for any
message
    # that says an option was ignored or not supported.
    # When given -MP, icc 7.0 and 7.1 complain thusly:
    # icc: Command line warning: ignoring option '-M'; no argument
required
    # The diagnosis changed in icc 8.0:
    # icc: Command line remark: option '-MP' not supported
    if (grep 'ignoring option' conftest.err ||
        grep 'not supported' conftest.err) >/dev/null 2>&1; then ;;
else
    am_cv_CXX_dependencies_compiler_type=$depmode
    break
    fi
fi
done

```

```

    cd ..
    rm -rf confptest.dir
else
    am_cv_CXX_dependencies_compiler_type=none
fi

fi

echo "$as_me:$LINENO: result: $am_cv_CXX_dependencies_compiler_type" >&5
echo "${ECHO_T}$am_cv_CXX_dependencies_compiler_type" >&6
CXXDEPMODE=depmode=$am_cv_CXX_dependencies_compiler_type

if
    test "x$enable_dependency_tracking" != xno \
    && test "$am_cv_CXX_dependencies_compiler_type" = gcc3; then
    am__fastdepCXX_TRUE=
    am__fastdepCXX_FALSE='#'
else
    am__fastdepCXX_TRUE='#'
    am__fastdepCXX_FALSE=
fi

if test -n "$CXX" && ( test "X$CXX" != "Xno" &&
    ( (test "X$CXX" = "Xg++" && `g++ -v >/dev/null 2>&1` ) ||
    (test "X$CXX" != "Xg++")) ) ; then
    ac_ext=cc
    ac_cpp='$CXXCPP $CPPFLAGS'
    ac_compile='$CXX -c $CXXFLAGS $CPPFLAGS confptest.$ac_ext >&5'
    ac_link='$CXX -o confptest$ac_exeext $CXXFLAGS $CPPFLAGS $LDFLAGS
confptest.$ac_ext $LIBS >&5'
    ac_compiler_gnu=$ac_cv_cxx_compiler_gnu
    echo "$as_me:$LINENO: checking how to run the C++ preprocessor" >&5
    echo $ECHO_N "checking how to run the C++ preprocessor... $ECHO_C" >&6
    if test -z "$CXXCPP"; then
        if test "${ac_cv_prog_CXXCPP+set}" = set; then
            echo $ECHO_N "(cached) $ECHO_C" >&6
        else
            # Double quotes because CXXCPP needs to be expanded
            for CXXCPP in "$CXX -E" "/lib/cpp"
            do
                ac_preproc_ok=false
            for ac_cxx_preproc_warn_flag in ' yes
do
            # Use a header file that comes with gcc, so configuring glibc
            # with a fresh cross-compiler works.
            # Prefer <limits.h> to <assert.h> if __STDC__ is defined, since
            # <limits.h> exists even on freestanding compilers.
            # On the NeXT, cc -E runs the code through the compiler's parser,
            # not just through cpp. "Syntax error" is here to catch this case.
            cat >confptest.$ac_ext <<_ACEOF

```

```

/* confdefs.h. */
_ACEOF
cat confdefs.h >>conftest.$ac_ext
cat >>conftest.$ac_ext <<_ACEOF
/* end confdefs.h. */
#ifdef __STDC__
# include <limits.h>
#else
# include <assert.h>
#endif

                Syntax error

_ACEOF
if { (eval echo "$as_me:$LINENO: \"\$ac_cpp conftest.$ac_ext\"") >&5
  (eval $ac_cpp conftest.$ac_ext) 2>conftest.erl
  ac_status=$?
  grep -v '^ *+' conftest.erl >conftest.err
  rm -f conftest.erl
  cat conftest.err >&5
  echo "$as_me:$LINENO: \ $? = $ac_status" >&5
  (exit $ac_status); } >/dev/null; then
if test -s conftest.err; then
  ac_cpp_err=$ac_cxx_preproc_warn_flag
  ac_cpp_err=$ac_cpp_err$ac_cxx_werror_flag
else
  ac_cpp_err=
fi
else
  ac_cpp_err=yes
fi
if test -z "$ac_cpp_err"; then
:
else
  echo "$as_me: failed program was:" >&5
  sed 's/^/| /' conftest.$ac_ext >&5

  # Broken: fails on valid input.
continue
fi
rm -f conftest.err conftest.$ac_ext

  # OK, works on sane cases.  Now check whether non-existent headers
  # can be detected and how.
  cat >conftest.$ac_ext <<_ACEOF
/* confdefs.h. */
_ACEOF
cat confdefs.h >>conftest.$ac_ext
cat >>conftest.$ac_ext <<_ACEOF
/* end confdefs.h. */
#include <ac_nonexistent.h>
_ACEOF
if { (eval echo "$as_me:$LINENO: \"\$ac_cpp conftest.$ac_ext\"") >&5
  (eval $ac_cpp conftest.$ac_ext) 2>conftest.erl
  ac_status=$?
  grep -v '^ *+' conftest.erl >conftest.err

```

```

rm -f confptest.erl
cat confptest.err >&5
echo "$as_me:$LINENO: \ $? = $ac_status" >&5
(exit $ac_status); } >/dev/null; then
if test -s confptest.err; then
    ac_cpp_err=$ac_cxx_preproc_warn_flag
    ac_cpp_err=$ac_cpp_err$ac_cxx_werror_flag
else
    ac_cpp_err=
fi
else
    ac_cpp_err=yes
fi
if test -z "$ac_cpp_err"; then
    # Broken: success on invalid input.
continue
else
    echo "$as_me: failed program was:" >&5
sed 's/^\| /' confptest.$ac_ext >&5

    # Passes both tests.
ac_preproc_ok=:
break
fi
rm -f confptest.err confptest.$ac_ext

done
# Because of `break', _AC_PREPROC_IFELSE's cleaning code was skipped.
rm -f confptest.err confptest.$ac_ext
if $ac_preproc_ok; then
    break
fi

done
ac_cv_prog_CXXCPP=$CXXCPP

fi
CXXCPP=$ac_cv_prog_CXXCPP
else
    ac_cv_prog_CXXCPP=$CXXCPP
fi
echo "$as_me:$LINENO: result: $CXXCPP" >&5
echo "${ECHO_T}$CXXCPP" >&6
ac_preproc_ok=false
for ac_cxx_preproc_warn_flag in ' yes
do
    # Use a header file that comes with gcc, so configuring glibc
    # with a fresh cross-compiler works.
    # Prefer <limits.h> to <assert.h> if __STDC__ is defined, since
    # <limits.h> exists even on freestanding compilers.
    # On the NeXT, cc -E runs the code through the compiler's parser,
    # not just through cpp. "Syntax error" is here to catch this case.
    cat >confptest.$ac_ext <<_ACEOF
/* confdefs.h. */

```

```

_ACEOF
cat confdefs.h >>conftest.$ac_ext
cat >>conftest.$ac_ext <<_ACEOF
/* end confdefs.h.  */
#ifdef __STDC__
# include <limits.h>
#else
# include <assert.h>
#endif

                Syntax error
_ACEOF
if { (eval echo "$as_me:$LINENO: \"$ac_cpp conftest.$ac_ext\"") >&5
  (eval $ac_cpp conftest.$ac_ext) 2>conftest.erl
  ac_status=$?
  grep -v '^ *+' conftest.erl >conftest.err
  rm -f conftest.erl
  cat conftest.err >&5
  echo "$as_me:$LINENO: \ $? = $ac_status" >&5
  (exit $ac_status); } >/dev/null; then
if test -s conftest.err; then
  ac_cpp_err=$ac_cxx_preproc_warn_flag
  ac_cpp_err=$ac_cpp_err$ac_cxx_werror_flag
else
  ac_cpp_err=
fi
else
  ac_cpp_err=yes
fi
if test -z "$ac_cpp_err"; then
:
else
  echo "$as_me: failed program was:" >&5
  sed 's/^/| /' conftest.$ac_ext >&5

  # Broken: fails on valid input.
continue
fi
rm -f conftest.err conftest.$ac_ext

  # OK, works on sane cases.  Now check whether non-existent headers
  # can be detected and how.
  cat >conftest.$ac_ext <<_ACEOF
/* confdefs.h.  */
_ACEOF
cat confdefs.h >>conftest.$ac_ext
cat >>conftest.$ac_ext <<_ACEOF
/* end confdefs.h.  */
#include <ac_nonexistent.h>
_ACEOF
if { (eval echo "$as_me:$LINENO: \"$ac_cpp conftest.$ac_ext\"") >&5
  (eval $ac_cpp conftest.$ac_ext) 2>conftest.erl
  ac_status=$?
  grep -v '^ *+' conftest.erl >conftest.err
  rm -f conftest.erl

```

```

cat confptest.err >&5
echo "$as_me:$LINENO: \ $? = $ac_status" >&5
(exit $ac_status); } >/dev/null; then
if test -s confptest.err; then
    ac_cpp_err=$ac_cxx_preproc_warn_flag
    ac_cpp_err=$ac_cpp_err$ac_cxx_werror_flag
else
    ac_cpp_err=
fi
else
    ac_cpp_err=yes
fi
if test -z "$ac_cpp_err"; then
    # Broken: success on invalid input.
continue
else
    echo "$as_me: failed program was:" >&5
sed 's/^\| /' confptest.$ac_ext >&5

    # Passes both tests.
ac_preproc_ok=:
break
fi
rm -f confptest.err confptest.$ac_ext

done
# Because of `break', _AC_PREPROC_IFELSE's cleaning code was skipped.
rm -f confptest.err confptest.$ac_ext
if $ac_preproc_ok; then
    :
else
    { { echo "$as_me:$LINENO: error: C++ preprocessor \"$CXXCPP\" fails
sanity check
See `config.log' for more details." >&5
echo "$as_me: error: C++ preprocessor \"$CXXCPP\" fails sanity check
See `config.log' for more details." >&2;}
    { (exit 1); exit 1; }; }
fi

ac_ext=cc
ac_cpp='$CXXCPP $CPPFLAGS'
ac_compile='$CXX -c $CXXFLAGS $CPPFLAGS confptest.$ac_ext >&5'
ac_link='$CXX -o confptest$ac_exeext $CXXFLAGS $CPPFLAGS $LDFLAGS
confptest.$ac_ext $LIBS >&5'
ac_compiler_gnu=$ac_cv_cxx_compiler_gnu

fi

ac_ext=f
ac_compile='$F77 -c $FFLAGS confptest.$ac_ext >&5'
ac_link='$F77 -o confptest$ac_exeext $FFLAGS $LDFLAGS confptest.$ac_ext
$LIBS >&5'
ac_compiler_gnu=$ac_cv_f77_compiler_gnu

```

```

if test -n "$ac_tool_prefix"; then
  for ac_prog in g77 f77 xlf frt pgf77 fort77 fl32 af77 f90 xlf90 pgf90
epcf90 f95 fort xlf95 ifc efc pgf95 lf95 gfortran
  do
    # Extract the first word of "$ac_tool_prefix$ac_prog", so it can be a
program name with args.
    set dummy $ac_tool_prefix$ac_prog; ac_word=$2
    echo "$as_me:$LINENO: checking for $ac_word" >&5
    echo $ECHO_N "checking for $ac_word... $ECHO_C" >&6
    if test "${ac_cv_prog_F77+set}" = set; then
      echo $ECHO_N "(cached) $ECHO_C" >&6
    else
      if test -n "$F77"; then
        ac_cv_prog_F77="$F77" # Let the user override the test.
      else
as_save_IFS=$IFS; IFS=$PATH_SEPARATOR
for as_dir in $PATH
do
  IFS=$as_save_IFS
  test -z "$as_dir" && as_dir=.
  for ac_exec_ext in ' $ac_executable_extensions; do
    if $as_executable_p "$as_dir/$ac_word$ac_exec_ext"; then
      ac_cv_prog_F77="$ac_tool_prefix$ac_prog"
      echo "$as_me:$LINENO: found $as_dir/$ac_word$ac_exec_ext" >&5
      break 2
    fi
  done
done

fi
fi
F77=$ac_cv_prog_F77
if test -n "$F77"; then
  echo "$as_me:$LINENO: result: $F77" >&5
  echo "${ECHO_T}$F77" >&6
else
  echo "$as_me:$LINENO: result: no" >&5
  echo "${ECHO_T}no" >&6
fi

  test -n "$F77" && break
done
fi
if test -z "$F77"; then
  ac_ct_F77=$F77
  for ac_prog in g77 f77 xlf frt pgf77 fort77 fl32 af77 f90 xlf90 pgf90
epcf90 f95 fort xlf95 ifc efc pgf95 lf95 gfortran
  do
    # Extract the first word of "$ac_prog", so it can be a program name
with args.
    set dummy $ac_prog; ac_word=$2
    echo "$as_me:$LINENO: checking for $ac_word" >&5
    echo $ECHO_N "checking for $ac_word... $ECHO_C" >&6
    if test "${ac_cv_prog_ac_ct_F77+set}" = set; then

```

```

    echo $ECHO_N "(cached) $ECHO_C" >&6
else
    if test -n "$ac_ct_F77"; then
        ac_cv_prog_ac_ct_F77="$ac_ct_F77" # Let the user override the test.
    else
as_save_IFS=$IFS; IFS=$PATH_SEPARATOR
for as_dir in $PATH
do
    IFS=$as_save_IFS
    test -z "$as_dir" && as_dir=.
    for ac_exec_ext in ' $ac_executable_extensions; do
        if $as_executable_p "$as_dir/$ac_word$ac_exec_ext"; then
            ac_cv_prog_ac_ct_F77="$ac_prog"
            echo "$as_me:$LINENO: found $as_dir/$ac_word$ac_exec_ext" >&5
            break 2
        fi
    done
done

fi
fi
ac_ct_F77=$ac_cv_prog_ac_ct_F77
if test -n "$ac_ct_F77"; then
    echo "$as_me:$LINENO: result: $ac_ct_F77" >&5
    echo "${ECHO_T}$ac_ct_F77" >&6
else
    echo "$as_me:$LINENO: result: no" >&5
    echo "${ECHO_T}no" >&6
fi

    test -n "$ac_ct_F77" && break
done

    F77=$ac_ct_F77
fi

# Provide some information about the compiler.
echo "$as_me:5455:" \
    "checking for Fortran 77 compiler version" >&5
ac_compiler=`set X $ac_compile; echo $2`
{ (eval echo "$as_me:$LINENO: \"$ac_compiler --version </dev/null >&5\\""
>&5
    (eval $ac_compiler --version </dev/null >&5) 2>&5
    ac_status=$?
    echo "$as_me:$LINENO: \ $? = $ac_status" >&5
    (exit $ac_status); }
{ (eval echo "$as_me:$LINENO: \"$ac_compiler -v </dev/null >&5\\"" >&5
    (eval $ac_compiler -v </dev/null >&5) 2>&5
    ac_status=$?
    echo "$as_me:$LINENO: \ $? = $ac_status" >&5
    (exit $ac_status); }
{ (eval echo "$as_me:$LINENO: \"$ac_compiler -V </dev/null >&5\\"" >&5
    (eval $ac_compiler -V </dev/null >&5) 2>&5

```



```

    ac_status=$?
    echo "$as_me:$LINENO: \ $? = $ac_status" >&5
    (exit $ac_status); }
rm -f a.out

# If we don't use `.F' as extension, the preprocessor is not run on the
# input file. (Note that this only needs to work for GNU compilers.)
ac_save_ext=$ac_ext
ac_ext=F
echo "$as_me:$LINENO: checking whether we are using the GNU Fortran 77
compiler" >&5
echo $ECHO_N "checking whether we are using the GNU Fortran 77
compiler... $ECHO_C" >&6
if test "${ac_cv_f77_compiler_gnu+set}" = set; then
    echo $ECHO_N "(cached) $ECHO_C" >&6
else
    cat >confptest.$ac_ext <<_ACEOF
        program main
#ifdef __GNUC__
        choke me
#endif

        end
    _ACEOF
rm -f confptest.$ac_objext
if { (eval echo "$as_me:$LINENO: \"$ac_compile\"") >&5
    (eval $ac_compile) 2>confptest.er1
    ac_status=$?
    grep -v '^ *+' confptest.er1 >confptest.err
    rm -f confptest.er1
    cat confptest.err >&5
    echo "$as_me:$LINENO: \ $? = $ac_status" >&5
    (exit $ac_status); } &&
    { ac_try='test -z "$ac_f77_werror_flag"
    || test ! -s confptest.err'
    { (eval echo "$as_me:$LINENO: \"$ac_try\"") >&5
    (eval $ac_try) 2>&5
    ac_status=$?
    echo "$as_me:$LINENO: \ $? = $ac_status" >&5
    (exit $ac_status); }; } &&
    { ac_try='test -s confptest.$ac_objext'
    { (eval echo "$as_me:$LINENO: \"$ac_try\"") >&5
    (eval $ac_try) 2>&5
    ac_status=$?
    echo "$as_me:$LINENO: \ $? = $ac_status" >&5
    (exit $ac_status); }; }; then
    ac_compiler_gnu=yes
else
    echo "$as_me: failed program was:" >&5
    sed 's/^/| /' confptest.$ac_ext >&5

ac_compiler_gnu=no
fi
rm -f confptest.err confptest.$ac_objext confptest.$ac_ext

```

```

ac_cv_f77_compiler_gnu=$ac_compiler_gnu

fi
echo "$as_me:$LINENO: result: $ac_cv_f77_compiler_gnu" >&5
echo "${ECHO_T}$ac_cv_f77_compiler_gnu" >&6
ac_ext=$ac_save_ext
ac_test_FFLAGS=${FFLAGS+set}
ac_save_FFLAGS=$FFLAGS
FFLAGS=
echo "$as_me:$LINENO: checking whether $F77 accepts -g" >&5
echo $ECHO_N "checking whether $F77 accepts -g... $ECHO_C" >&6
if test "${ac_cv_prog_f77_g+set}" = set; then
  echo $ECHO_N "(cached) $ECHO_C" >&6
else
  FFLAGS=-g
  cat >conftest.$ac_ext <<_ACEOF
      program main

      end
  _ACEOF
  rm -f conftest.$ac_objext
  if { (eval echo "$as_me:$LINENO: \"$ac_compile\"") >&5
      (eval $ac_compile) 2>conftest.erl
      ac_status=$?
      grep -v '^ *+' conftest.erl >conftest.err
      rm -f conftest.erl
      cat conftest.err >&5
      echo "$as_me:$LINENO: \ $? = $ac_status" >&5
      (exit $ac_status); } &&
      { ac_try='test -z "$ac_f77_werror_flag"
        || test ! -s conftest.err'
      { (eval echo "$as_me:$LINENO: \"$ac_try\"") >&5
      (eval $ac_try) 2>&5
      ac_status=$?
      echo "$as_me:$LINENO: \ $? = $ac_status" >&5
      (exit $ac_status); }; } &&
      { ac_try='test -s conftest.$ac_objext'
      { (eval echo "$as_me:$LINENO: \"$ac_try\"") >&5
      (eval $ac_try) 2>&5
      ac_status=$?
      echo "$as_me:$LINENO: \ $? = $ac_status" >&5
      (exit $ac_status); }; }; then
      ac_cv_prog_f77_g=yes
    else
      echo "$as_me: failed program was:" >&5
      sed 's/^/| /' conftest.$ac_ext >&5

      ac_cv_prog_f77_g=no
    fi
  rm -f conftest.err conftest.$ac_objext conftest.$ac_ext

  fi
  echo "$as_me:$LINENO: result: $ac_cv_prog_f77_g" >&5
  echo "${ECHO_T}$ac_cv_prog_f77_g" >&6

```

```

if test "$ac_test_FFLAGS" = set; then
  FFLAGS=$ac_save_FFLAGS
elif test $ac_cv_prog_f77_g = yes; then
  if test "x$ac_cv_f77_compiler_gnu" = xyes; then
    FFLAGS="-g -O2"
  else
    FFLAGS="-g"
  fi
else
  if test "x$ac_cv_f77_compiler_gnu" = xyes; then
    FFLAGS="-O2"
  else
    FFLAGS=
  fi
fi

G77=`test $ac_compiler_gnu = yes && echo yes`
ac_ext=c
ac_cpp='$CPP $CPPFLAGS'
ac_compile='$CC -c $CFLAGS $CPPFLAGS conftest.$ac_ext >&5'
ac_link='$CC -o conftest$ac_exeext $CFLAGS $CPPFLAGS $LDFLAGS
conftest.$ac_ext $LIBS >&5'
ac_compiler_gnu=$ac_cv_c_compiler_gnu

# Autoconf 2.13's AC_OBJEXT and AC_EXEEXT macros only works for C
compilers!

# find the maximum length of command line arguments
echo "$as_me:$LINENO: checking the maximum length of command line
arguments" >&5
echo $ECHO_N "checking the maximum length of command line arguments...
$ECHO_C" >&6
if test "${lt_cv_sys_max_cmd_len+set}" = set; then
  echo $ECHO_N "(cached) $ECHO_C" >&6
else
  i=0
  teststring="ABCD"

  case $build_os in
  msdosdjgpp*)
    # On DJGPP, this test can blow up pretty badly due to problems in
libc
    # (any single argument exceeding 2000 bytes causes a buffer overrun
    # during glob expansion). Even if it were fixed, the result of this
    # check would be larger than it should be.
    lt_cv_sys_max_cmd_len=12288; # 12K is about right
    ;;

  gnu*)
    # Under GNU Hurd, this test is not required because there is
    # no limit to the length of command line arguments.
    # Libtool will interpret -1 as no limit whatsoever

```

```

lt_cv_sys_max_cmd_len=-1;
;;

cygwin* | mingw*)
# On Win9x/ME, this test blows up -- it succeeds, but takes
# about 5 minutes as the teststring grows exponentially.
# Worse, since 9x/ME are not pre-emptively multitasking,
# you end up with a "frozen" computer, even though with patience
# the test eventually succeeds (with a max line length of 256k).
# Instead, let's just punt: use the minimum linelength reported by
# all of the supported platforms: 8192 (on NT/2K/XP).
lt_cv_sys_max_cmd_len=8192;
;;

amigaos*)
# On AmigaOS with pdksh, this test takes hours, literally.
# So we just punt and use a minimum line length of 8192.
lt_cv_sys_max_cmd_len=8192;
;;

netbsd* | freebsd* | openbsd* | darwin* | dragonfly*)
# This has been around since 386BSD, at least. Likely further.
if test -x /sbin/sysctl; then
  lt_cv_sys_max_cmd_len=`/sbin/sysctl -n kern.argmax`
elif test -x /usr/sbin/sysctl; then
  lt_cv_sys_max_cmd_len=`/usr/sbin/sysctl -n kern.argmax`
else
  lt_cv_sys_max_cmd_len=65536 # usable default for all BSDs
fi
# And add a safety zone
lt_cv_sys_max_cmd_len=`expr $lt_cv_sys_max_cmd_len \/ 4`
lt_cv_sys_max_cmd_len=`expr $lt_cv_sys_max_cmd_len \* 3`
;;

interix*)
# We know the value 262144 and hardcode it with a safety zone (like
BSD)
lt_cv_sys_max_cmd_len=196608
;;

osf*)
# Dr. Hans Ekkehard Plesser reports seeing a kernel panic running
configure
# due to this test when exec_disable_arg_limit is 1 on Tru64. It is
not
# nice to cause kernel panics so lets avoid the loop below.
# First set a reasonable default.
lt_cv_sys_max_cmd_len=16384
#
if test -x /sbin/sysconfig; then
  case ` /sbin/sysconfig -q proc exec_disable_arg_limit` in
    *1*) lt_cv_sys_max_cmd_len=-1 ;;
  esac
fi

```

```

;;
sco3.2v5*)
    lt_cv_sys_max_cmd_len=102400
;;
sysv5* | sco5v6* | sysv4.2uw2*)
    kargmax=`grep ARG_MAX /etc/conf/cf.d/stune 2>/dev/null`
    if test -n "$kargmax"; then
        lt_cv_sys_max_cmd_len=`echo $kargmax | sed 's/.*[ ]//'\`
    else
        lt_cv_sys_max_cmd_len=32768
    fi
;;
*)
    # If test is not a shell built-in, we'll probably end up computing a
    # maximum length that is only half of the actual maximum length, but
    # we can't tell.
    SHELL=${SHELL-${CONFIG_SHELL-/bin/sh}}
    while (test "X"`$SHELL $0 --fallback-echo "X$teststring" 2>/dev/null`
        \
            = "XX$teststring") >/dev/null 2>&1 &&
        new_result=`expr "X$teststring" : ".*" 2>&1` &&
        lt_cv_sys_max_cmd_len=$new_result &&
        test $i != 17 # 1/2 MB should be enough
    do
        i=`expr $i + 1`
        teststring=$teststring$teststring
    done
    teststring=
    # Add a significant safety factor because C++ compilers can tack on
massive
    # amounts of additional arguments before passing them to the linker.
    # It appears as though 1/2 is a usable value.
    lt_cv_sys_max_cmd_len=`expr $lt_cv_sys_max_cmd_len \/ 2`
;;
esac

fi

if test -n $lt_cv_sys_max_cmd_len ; then
    echo "$as_me:$LINENO: result: $lt_cv_sys_max_cmd_len" >&5
    echo "${ECHO_T}$lt_cv_sys_max_cmd_len" >&6
else
    echo "$as_me:$LINENO: result: none" >&5
    echo "${ECHO_T}none" >&6
fi

# Check for command to grab the raw symbol name followed by C symbol from
nm.
echo "$as_me:$LINENO: checking command to parse $NM output from $compiler
object" >&5

```

```

echo $ECHO_N "checking command to parse $NM output from $compiler
object... $ECHO_C" >&6
if test "${lt_cv_sys_global_symbol_pipe+set}" = set; then
  echo $ECHO_N "(cached) $ECHO_C" >&6
else

# These are sane defaults that work on at least a few old systems.
# [They come from Ultrix.  What could be older than Ultrix?!! ;)]

# Character class describing NM global symbol codes.
symcode='[BCDEGRST]'

# Regexp to match symbols that can be accessed directly from C.
sympat='\([_A-Za-z][_A-Za-z0-9]*\)'

# Transform an extracted symbol line into a proper C declaration
lt_cv_sys_global_symbol_to_cdecl="sed -n -e 's/^.* \([^*]\)$/extern int
\1;/p'"

# Transform an extracted symbol line into symbol name and symbol address
lt_cv_sys_global_symbol_to_c_name_address="sed -n -e 's/^: \([^ ]*\) $/
{\\"\\1\\", (lt_ptr) 0},/p' -e 's/^$symcode \([^ ]*\) \([^ ]*\)$/
{\\"\\2\\", (lt_ptr) \&2},/p'"

# Define system-specific variables.
case $host_os in
aix*)
  symcode='[BCDT]'
  ;;
cygwin* | mingw* | pw32*)
  symcode='[ABCDGISTW]'
  ;;
hpux*) # Its linker distinguishes data from code symbols
  if test "$host_cpu" = ia64; then
    symcode='[ABCDEGRST]'
  fi
  lt_cv_sys_global_symbol_to_cdecl="sed -n -e 's/^T .* \([^*]\)$/extern int
\1()/;p' -e 's/^$symcode* .* \([^*]\)$/extern char \1;/p'"
  lt_cv_sys_global_symbol_to_c_name_address="sed -n -e 's/^: \([^ ]*\) $/
{\\"\\1\\", (lt_ptr) 0},/p' -e 's/^$symcode* \([^ ]*\) \([^ ]*\)$/
{\\"\\2\\", (lt_ptr) \&2},/p'"
  ;;
linux*)
  if test "$host_cpu" = ia64; then
    symcode='[ABCDGIRSTW]'
    lt_cv_sys_global_symbol_to_cdecl="sed -n -e 's/^T .* \([^*]\)$/extern
int \1()/;p' -e 's/^$symcode* .* \([^*]\)$/extern char \1;/p'"
    lt_cv_sys_global_symbol_to_c_name_address="sed -n -e 's/^: \([^ ]*\)
$/ {\\"\\1\\", (lt_ptr) 0},/p' -e 's/^$symcode* \([^ ]*\) \([^ ]*\)$/
{\\"\\2\\", (lt_ptr) \&2},/p'"
  fi
  ;;
irix* | nonstopux*)
  symcode='[BCDEGRST]'

```

```

;;
osf*)
    symcode=' [BCDEGQRST] '
;;
solaris*)
    symcode=' [BDRT] '
;;
sco3.2v5*)
    symcode=' [DT] '
;;
sysv4.2uw2*)
    symcode=' [DT] '
;;
sysv5* | sco5v6* | unixware* | OpenUNIX*)
    symcode=' [ABDT] '
;;
sysv4)
    symcode=' [DFNSTU] '
;;
esac

# Handle CRLF in mingw tool chain
opt_cr=
case $build_os in
mingw*)
    opt_cr=`echo 'x\{0,1\}' | tr x '\015'` # option cr in regexp
;;
esac

# If we're using GNU nm, then use its standard symbol codes.
case ` $NM -V 2>&1 ` in
*GNU* | *'with BFD'*)
    symcode=' [ABCDGIRSTW] ' ;;
esac

# Try without a prefix undercore, then with it.
for ac_symprfx in "" "_"; do

    # Transform symcode, sympat, and symprfx into a raw symbol and a C
    symbol.
    symxfrm="\1 $ac_symprfx\2 \2"

    # Write the raw and C identifiers.
    lt_cv_sys_global_symbol_pipe="sed -n -e 's/^\.*[
    ]\($symcode$symcode*\)[
    ]\[*$ac_symprfx$sympat$opt_cr$/symxfrm/p'"

    # Check to see that the pipe works correctly.
    pipe_works=no

    rm -f conftest*
    cat > conftest.$ac_ext <<EOF
#ifdef __cplusplus
extern "C" {

```

```

#endif
char nm_test_var;
void nm_test_func(){}
#ifdef __cplusplus
}
#endif
int main(){nm_test_var='a';nm_test_func();return(0);}
EOF

if { (eval echo "$as_me:$LINENO: \"$ac_compile\"" ) >&5
(eval $ac_compile) 2>&5
ac_status=$?
echo "$as_me:$LINENO: \$? = $ac_status" >&5
(exit $ac_status); }; then
# Now try to grab the symbols.
nlist=confptest.nm
if { (eval echo "$as_me:$LINENO: \"$NM confptest.$ac_objext \
|lt_cv_sys_global_symbol_pipe \> $nlist\"" ) >&5
(eval $NM confptest.$ac_objext \
|lt_cv_sys_global_symbol_pipe \>
$nlist) 2>&5
ac_status=$?
echo "$as_me:$LINENO: \$? = $ac_status" >&5
(exit $ac_status); } && test -s "$nlist"; then
# Try sorting and uniquifying the output.
if sort "$nlist" | uniq > "$nlist".T; then
mv -f "$nlist".T "$nlist"
else
rm -f "$nlist".T
fi

# Make sure that we snagged all the symbols we need.
if grep ' nm_test_var$' "$nlist" >/dev/null; then
if grep ' nm_test_func$' "$nlist" >/dev/null; then
cat <<EOF > confptest.$ac_ext
#endif
extern "C" {
#endif
EOF

# Now generate the symbol file.
eval "$lt_cv_sys_global_symbol_to_cdecl" < "$nlist" | grep -v
main >> confptest.$ac_ext

cat <<EOF >> confptest.$ac_ext
#ifdef __STDC__ && __STDC__
# define lt_ptr_t void *
#else
# define lt_ptr_t char *
# define const
#endif

/* The mapping between symbol names and symbols. */
const struct {
const char *name;

```



```

    lt_ptr_t address;
}
lt_preloaded_symbols[] =
{
EOF
    $SED "s/^\$symcode\$symcode* \(.*\)\ \(.*)\$/ {\\"2\", (lt_ptr_t)
\&2},/" < "$nlist" | grep -v main >> conftest.$ac_ext
    cat <<\EOF >> conftest.$ac_ext
    {0, (lt_ptr_t) 0}
};

#ifdef __cplusplus
}
#endif
EOF

    # Now try linking the two files.
    mv conftest.$ac_objext conftstm.$ac_objext
    lt_save_LIBS="$LIBS"
    lt_save_CFLAGS="$CFLAGS"
    LIBS="conftstm.$ac_objext"
    CFLAGS="$CFLAGS$lt_prog_compiler_no_builtin_flag"
    if { (eval echo "$as_me:$LINENO: \\"$ac_link\\"" ) >&5
(eval $ac_link) 2>&5
ac_status=$?
echo "$as_me:$LINENO: \\\$? = $ac_status" >&5
(exit $ac_status); } && test -s conftest${ac_exeext}; then
    pipe_works=yes
    fi
    LIBS="$lt_save_LIBS"
    CFLAGS="$lt_save_CFLAGS"
    else
    echo "cannot find nm_test_func in $nlist" >&5
    fi
    else
    echo "cannot find nm_test_var in $nlist" >&5
    fi
    else
    echo "cannot run $lt_cv_sys_global_symbol_pipe" >&5
    fi
    else
    echo "$progname: failed program was:" >&5
    cat conftest.$ac_ext >&5
    fi
    rm -f conftest* conftst*

    # Do not use the global_symbol_pipe unless it works.
    if test "$pipe_works" = yes; then
        break
    else
        lt_cv_sys_global_symbol_pipe=
    fi
done

fi

```

```

if test -z "$lt_cv_sys_global_symbol_pipe"; then
  lt_cv_sys_global_symbol_to_cdecl=
fi
if test -z
"$lt_cv_sys_global_symbol_pipe$lt_cv_sys_global_symbol_to_cdecl"; then
  echo "$as_me:$LINENO: result: failed" >&5
echo "${ECHO_T}failed" >&6
else
  echo "$as_me:$LINENO: result: ok" >&5
echo "${ECHO_T}ok" >&6
fi

echo "$as_me:$LINENO: checking for objdir" >&5
echo $ECHO_N "checking for objdir... $ECHO_C" >&6
if test "${lt_cv_objdir+set}" = set; then
  echo $ECHO_N "(cached) $ECHO_C" >&6
else
  rm -f .libs 2>/dev/null
mkdir .libs 2>/dev/null
if test -d .libs; then
  lt_cv_objdir=.libs
else
  # MS-DOS does not allow filenames that begin with a dot.
  lt_cv_objdir=_libs
fi
rmdir .libs 2>/dev/null
fi
echo "$as_me:$LINENO: result: $lt_cv_objdir" >&5
echo "${ECHO_T}$lt_cv_objdir" >&6
objdir=$lt_cv_objdir

case $host_os in
aix3*)
  # AIX sometimes has problems with the GCC collect2 program. For some
  # reason, if we set the COLLECT_NAMES environment variable, the
problems
  # vanish in a puff of smoke.
  if test "X${COLLECT_NAMES+set}" != Xset; then
    COLLECT_NAMES=
    export COLLECT_NAMES
  fi
  ;;
esac

# Sed substitution that helps us do robust quoting. It backslashifies
# metacharacters that are still active within double-quoted strings.
Xsed='sed -e 1s/^X/'
sed_quote_subst='s/\\([\\\"`\\$\\\\])\\\\/\\\\1/g'

```

```

# Same as above, but do not quote variable references.
double_quote_subst='s/([\\"\\\`\\\\\\])/\\\\1/g'

# Sed substitution to delay expansion of an escaped shell variable in a
# double_quote_subst'ed string.
delay_variable_subst='s/\\\\\\\\\\\\\\\\\\\\\\$/\\\\\\\\\\\\\\\\\\$/g'

# Sed substitution to avoid accidental globbing in evaled expressions
no_glob_subst='s/\\*/\\\\\\*/g'

# Constants:
rm="rm -f"

# Global variables:
default_ofile=libtool
can_build_shared=yes

# All known linkers require a `.a' archive for static linking (except
MSVC,
# which needs '.lib').
libext=a
ltmain="$ac_aux_dir/ltmain.sh"
ofile="$default_ofile"
with_gnu_ld="$lt_cv_prog_gnu_ld"

if test -n "$ac_tool_prefix"; then
  # Extract the first word of "${ac_tool_prefix}ar", so it can be a
  # program name with args.
  set dummy ${ac_tool_prefix}ar; ac_word=$2
  echo "$as_me:$LINENO: checking for $ac_word" >&5
  echo $ECHO_N "checking for $ac_word... $ECHO_C" >&6
  if test "${ac_cv_prog_AR+set}" = set; then
    echo $ECHO_N "(cached) $ECHO_C" >&6
  else
    if test -n "$AR"; then
      ac_cv_prog_AR="$AR" # Let the user override the test.
    else
      as_save_IFS=$IFS; IFS=$PATH_SEPARATOR
      for as_dir in $PATH
      do
        IFS=$as_save_IFS
        test -z "$as_dir" && as_dir=.
        for ac_exec_ext in ' $ac_executable_extensions; do
          if $as_executable_p "$as_dir/$ac_word$ac_exec_ext"; then
            ac_cv_prog_AR="${ac_tool_prefix}ar"
            echo "$as_me:$LINENO: found $as_dir/$ac_word$ac_exec_ext" >&5
            break 2
          fi
        done
      done
    fi
  fi
  AR=$ac_cv_prog_AR

```

```

if test -n "$AR"; then
  echo "$as_me:$LINENO: result: $AR" >&5
  echo "${ECHO_T}$AR" >&6
else
  echo "$as_me:$LINENO: result: no" >&5
  echo "${ECHO_T}no" >&6
fi

fi

if test -z "$ac_cv_prog_AR"; then
  ac_ct_AR=$AR
  # Extract the first word of "ar", so it can be a program name with
  args.
  set dummy ar; ac_word=$2
  echo "$as_me:$LINENO: checking for $ac_word" >&5
  echo $ECHO_N "checking for $ac_word... $ECHO_C" >&6
  if test "${ac_cv_prog_ac_ct_AR+set}" = set; then
    echo $ECHO_N "(cached) $ECHO_C" >&6
  else
    if test -n "$ac_ct_AR"; then
      ac_cv_prog_ac_ct_AR="$ac_ct_AR" # Let the user override the test.
    else
      as_save_IFS=$IFS; IFS=$PATH_SEPARATOR
      for as_dir in $PATH
      do
        IFS=$as_save_IFS
        test -z "$as_dir" && as_dir=.
        for ac_exec_ext in ' $ac_executable_extensions; do
          if $as_executable_p "$as_dir/$ac_word$ac_exec_ext"; then
            ac_cv_prog_ac_ct_AR="ar"
            echo "$as_me:$LINENO: found $as_dir/$ac_word$ac_exec_ext" >&5
            break 2
          fi
        done
      done
      test -z "$ac_cv_prog_ac_ct_AR" && ac_cv_prog_ac_ct_AR="false"
    fi
  fi
  ac_ct_AR=$ac_cv_prog_ac_ct_AR
  if test -n "$ac_ct_AR"; then
    echo "$as_me:$LINENO: result: $ac_ct_AR" >&5
    echo "${ECHO_T}$ac_ct_AR" >&6
  else
    echo "$as_me:$LINENO: result: no" >&5
    echo "${ECHO_T}no" >&6
  fi

  AR=$ac_ct_AR
else
  AR="$ac_cv_prog_AR"
fi

if test -n "$ac_tool_prefix"; then

```

```

# Extract the first word of "${ac_tool_prefix}ranlib", so it can be a
program name with args.
set dummy ${ac_tool_prefix}ranlib; ac_word=$2
echo "$as_me:$LINENO: checking for $ac_word" >&5
echo $ECHO_N "checking for $ac_word... $ECHO_C" >&6
if test "${ac_cv_prog_RANLIB+set}" = set; then
  echo $ECHO_N "(cached) $ECHO_C" >&6
else
  if test -n "$RANLIB"; then
    ac_cv_prog_RANLIB="$RANLIB" # Let the user override the test.
  else
as_save_IFS=$IFS; IFS=$PATH_SEPARATOR
for as_dir in $PATH
do
  IFS=$as_save_IFS
  test -z "$as_dir" && as_dir=.
  for ac_exec_ext in ' $ac_executable_extensions; do
    if $as_executable_p "$as_dir/$ac_word$ac_exec_ext"; then
      ac_cv_prog_RANLIB="${ac_tool_prefix}ranlib"
      echo "$as_me:$LINENO: found $as_dir/$ac_word$ac_exec_ext" >&5
      break 2
    fi
  done
done

fi
fi
RANLIB=$ac_cv_prog_RANLIB
if test -n "$RANLIB"; then
  echo "$as_me:$LINENO: result: $RANLIB" >&5
  echo "${ECHO_T}$RANLIB" >&6
else
  echo "$as_me:$LINENO: result: no" >&5
  echo "${ECHO_T}no" >&6
fi

fi
if test -z "$ac_cv_prog_RANLIB"; then
  ac_ct_RANLIB=$RANLIB
  # Extract the first word of "ranlib", so it can be a program name with
  args.
  set dummy ranlib; ac_word=$2
  echo "$as_me:$LINENO: checking for $ac_word" >&5
  echo $ECHO_N "checking for $ac_word... $ECHO_C" >&6
  if test "${ac_cv_prog_ac_ct_RANLIB+set}" = set; then
    echo $ECHO_N "(cached) $ECHO_C" >&6
  else
    if test -n "$ac_ct_RANLIB"; then
      ac_cv_prog_ac_ct_RANLIB="$ac_ct_RANLIB" # Let the user override the
      test.
    else
as_save_IFS=$IFS; IFS=$PATH_SEPARATOR
for as_dir in $PATH
do

```

```

IFS=$as_save_IFS
test -z "$as_dir" && as_dir=.
for ac_exec_ext in ' $ac_executable_extensions; do
if $as_executable_p "$as_dir/$ac_word$ac_exec_ext"; then
    ac_cv_prog_ac_ct_RANLIB="ranlib"
    echo "$as_me:$LINENO: found $as_dir/$ac_word$ac_exec_ext" >&5
    break 2
fi
done
done

    test -z "$ac_cv_prog_ac_ct_RANLIB" && ac_cv_prog_ac_ct_RANLIB=":"
fi
fi
ac_ct_RANLIB=$ac_cv_prog_ac_ct_RANLIB
if test -n "$ac_ct_RANLIB"; then
    echo "$as_me:$LINENO: result: $ac_ct_RANLIB" >&5
    echo "${ECHO_T}$ac_ct_RANLIB" >&6
else
    echo "$as_me:$LINENO: result: no" >&5
    echo "${ECHO_T}no" >&6
fi

    RANLIB=$ac_ct_RANLIB
else
    RANLIB="$ac_cv_prog_RANLIB"
fi

if test -n "$ac_tool_prefix"; then
    # Extract the first word of "${ac_tool_prefix}strip", so it can be a
    program name with args.
    set dummy ${ac_tool_prefix}strip; ac_word=$2
    echo "$as_me:$LINENO: checking for $ac_word" >&5
    echo $ECHO_N "checking for $ac_word... $ECHO_C" >&6
    if test "${ac_cv_prog_STRIP+set}" = set; then
        echo $ECHO_N "(cached) $ECHO_C" >&6
    else
        if test -n "$STRIP"; then
            ac_cv_prog_STRIP="$STRIP" # Let the user override the test.
        else
as_save_IFS=$IFS; IFS=$PATH_SEPARATOR
for as_dir in $PATH
do
    IFS=$as_save_IFS
    test -z "$as_dir" && as_dir=.
    for ac_exec_ext in ' $ac_executable_extensions; do
if $as_executable_p "$as_dir/$ac_word$ac_exec_ext"; then
        ac_cv_prog_STRIP="${ac_tool_prefix}strip"
        echo "$as_me:$LINENO: found $as_dir/$ac_word$ac_exec_ext" >&5
        break 2
fi
done
done

```

```

fi
fi
STRIP=$ac_cv_prog_STRIP
if test -n "$STRIP"; then
  echo "$as_me:$LINENO: result: $STRIP" >&5
  echo "${ECHO_T}$STRIP" >&6
else
  echo "$as_me:$LINENO: result: no" >&5
  echo "${ECHO_T}no" >&6
fi

fi
if test -z "$ac_cv_prog_STRIP"; then
  ac_ct_STRIP=$STRIP
  # Extract the first word of "strip", so it can be a program name with
  args.
  set dummy strip; ac_word=$2
  echo "$as_me:$LINENO: checking for $ac_word" >&5
  echo $ECHO_N "checking for $ac_word... $ECHO_C" >&6
  if test "${ac_cv_prog_ac_ct_STRIP+set}" = set; then
    echo $ECHO_N "(cached) $ECHO_C" >&6
  else
    if test -n "$ac_ct_STRIP"; then
      ac_cv_prog_ac_ct_STRIP="$ac_ct_STRIP" # Let the user override the test.
    else
      as_save_IFS=$IFS; IFS=$PATH_SEPARATOR
      for as_dir in $PATH
      do
        IFS=$as_save_IFS
        test -z "$as_dir" && as_dir=.
        for ac_exec_ext in ' $ac_executable_extensions; do
          if $as_executable_p "$as_dir/$ac_word$ac_exec_ext"; then
            ac_cv_prog_ac_ct_STRIP="strip"
            echo "$as_me:$LINENO: found $as_dir/$ac_word$ac_exec_ext" >&5
            break 2
          fi
        done
      done
      test -z "$ac_cv_prog_ac_ct_STRIP" && ac_cv_prog_ac_ct_STRIP=""
    fi
  fi
  ac_ct_STRIP=$ac_cv_prog_ac_ct_STRIP
  if test -n "$ac_ct_STRIP"; then
    echo "$as_me:$LINENO: result: $ac_ct_STRIP" >&5
    echo "${ECHO_T}$ac_ct_STRIP" >&6
  else
    echo "$as_me:$LINENO: result: no" >&5
    echo "${ECHO_T}no" >&6
  fi

  STRIP=$ac_ct_STRIP
else
  STRIP="$ac_cv_prog_STRIP"

```

```

fi

old_CC="$CC"
old_CFLAGS="$CFLAGS"

# Set sane defaults for various variables
test -z "$AR" && AR=ar
test -z "$AR_FLAGS" && AR_FLAGS=cru
test -z "$AS" && AS=as
test -z "$CC" && CC=cc
test -z "$LTCC" && LTCC=$CC
test -z "$LTCFLAGS" && LTCFLAGS=$CFLAGS
test -z "$DLLTOOL" && DLLTOOL=dlltool
test -z "$LD" && LD=ld
test -z "$LN_S" && LN_S="ln -s"
test -z "$MAGIC_CMD" && MAGIC_CMD=file
test -z "$NM" && NM=nm
test -z "$SED" && SED=sed
test -z "$OBJDUMP" && OBJDUMP=objdump
test -z "$RANLIB" && RANLIB=:
test -z "$STRIP" && STRIP=:
test -z "$ac_objext" && ac_objext=o

# Determine commands to create old-style static archives.
old_archive_cmds='$AR $AR_FLAGS $oldlib$oldobjs$old_deplibs'
old_postinstall_cmds='chmod 644 $oldlib'
old_postuninstall_cmds=

if test -n "$RANLIB"; then
  case $host_os in
    openbsd*)
      old_postinstall_cmds="$old_postinstall_cmds~\ $RANLIB -t \ $oldlib"
      ;;
    *)
      old_postinstall_cmds="$old_postinstall_cmds~\ $RANLIB \ $oldlib"
      ;;
  esac
  old_archive_cmds="$old_archive_cmds~\ $RANLIB \ $oldlib"
fi

for cc_temp in $compiler""; do
  case $cc_temp in
    compile | *[\ \ /]compile | ccache | *[\ \ /]ccache ) ;;
    distcc | *[\ \ /]distcc | purify | *[\ \ /]purify ) ;;
    \-*) ;;
    *) break;;
  esac
done
cc_basename=`$echo "X$cc_temp" | $Xsed -e 's%.*/%%' -e "s%^$host_alias-%%"``

# Only perform the check for file, if the check method requires it

```



```

case $deplibs_check_method in
file_magic*)
  if test "$file_magic_cmd" = '$MAGIC_CMD'; then
    echo "$as_me:$LINENO: checking for ${ac_tool_prefix}file" >&5
  echo $ECHO_N "checking for ${ac_tool_prefix}file... $ECHO_C" >&6
  if test "${lt_cv_path_MAGIC_CMD+set}" = set; then
    echo $ECHO_N "(cached) $ECHO_C" >&6
  else
    case $MAGIC_CMD in
[\\/*] | ?:[\\/*]*)
      lt_cv_path_MAGIC_CMD="$MAGIC_CMD" # Let the user override the test with
a path.
      ;;
*)
      lt_save_MAGIC_CMD="$MAGIC_CMD"
      lt_save_ifs="$IFS"; IFS=$PATH_SEPARATOR
      ac_dummy="/usr/bin$PATH_SEPARATOR$PATH"
      for ac_dir in $ac_dummy; do
        IFS="$lt_save_ifs"
        test -z "$ac_dir" && ac_dir=.
        if test -f $ac_dir/${ac_tool_prefix}file; then
          lt_cv_path_MAGIC_CMD="$ac_dir/${ac_tool_prefix}file"
          if test -n "$file_magic_test_file"; then
            case $deplibs_check_method in
"file_magic "*)
              file_magic_regex=`expr "$deplibs_check_method" : "file_magic
\(.*\)"`
              MAGIC_CMD="$lt_cv_path_MAGIC_CMD"
              if eval $file_magic_cmd \$file_magic_test_file 2> /dev/null |
                $EGREP "$file_magic_regex" > /dev/null; then
                :
              else
                cat <<EOF 1>&2

*** Warning: the command libtool uses to detect shared libraries,
*** $file_magic_cmd, produces output that libtool cannot recognize.
*** The result is that libtool may fail to recognize shared libraries
*** as such. This will affect the creation of libtool libraries that
*** depend on shared libraries, but programs linked with such libtool
*** libraries will work regardless of this problem. Nevertheless, you
*** may want to report the problem to your system manager and/or to
*** bug-libtool@gnu.org

EOF
            fi ;;
          esac
        fi
      done
      IFS="$lt_save_ifs"
      MAGIC_CMD="$lt_save_MAGIC_CMD"
      ;;
    esac
  fi
done
IFS="$lt_save_ifs"
MAGIC_CMD="$lt_save_MAGIC_CMD"
;;
esac

```

```

fi

MAGIC_CMD="$lt_cv_path_MAGIC_CMD"
if test -n "$MAGIC_CMD"; then
  echo "$as_me:$LINENO: result: $MAGIC_CMD" >&5
  echo "${ECHO_T}$MAGIC_CMD" >&6
else
  echo "$as_me:$LINENO: result: no" >&5
  echo "${ECHO_T}no" >&6
fi

if test -z "$lt_cv_path_MAGIC_CMD"; then
  if test -n "$ac_tool_prefix"; then
    echo "$as_me:$LINENO: checking for file" >&5
    echo $ECHO_N "checking for file... $ECHO_C" >&6
    if test "${lt_cv_path_MAGIC_CMD+set}" = set; then
      echo $ECHO_N "(cached) $ECHO_C" >&6
    else
      case $MAGIC_CMD in
        [\\/*] | ?:[\\/*]*)
          lt_cv_path_MAGIC_CMD="$MAGIC_CMD" # Let the user override the test with
          a path.
          ;;
        *)
          lt_save_MAGIC_CMD="$MAGIC_CMD"
          lt_save_ifs="$IFS"; IFS=$PATH_SEPARATOR
          ac_dummy="/usr/bin$PATH_SEPARATOR$PATH"
          for ac_dir in $ac_dummy; do
            IFS="$lt_save_ifs"
            test -z "$ac_dir" && ac_dir=.
            if test -f $ac_dir/file; then
              lt_cv_path_MAGIC_CMD="$ac_dir/file"
              if test -n "$file_magic_test_file"; then
                case $deplibs_check_method in
                  "file_magic "*
                    file_magic_regex=`expr "$deplibs_check_method" : "file_magic
\(.*\)"`
                    MAGIC_CMD="$lt_cv_path_MAGIC_CMD"
                    if eval $file_magic_cmd \$file_magic_test_file 2> /dev/null |
                      $EGREP "$file_magic_regex" > /dev/null; then
                      :
                    else
                      cat <<EOF 1>&2

*** Warning: the command libtool uses to detect shared libraries,
*** $file_magic_cmd, produces output that libtool cannot recognize.
*** The result is that libtool may fail to recognize shared libraries
*** as such. This will affect the creation of libtool libraries that
*** depend on shared libraries, but programs linked with such libtool
*** libraries will work regardless of this problem. Nevertheless, you
*** may want to report the problem to your system manager and/or to
*** bug-libtool@gnu.org

```

EOF

```

        fi ;;
    esac
    fi
    break
fi
done
IFS="$lt_save_ifs"
MAGIC_CMD="$lt_save_MAGIC_CMD"
;;
esac
fi

MAGIC_CMD="$lt_cv_path_MAGIC_CMD"
if test -n "$MAGIC_CMD"; then
  echo "$as_me:$LINENO: result: $MAGIC_CMD" >&5
  echo "${ECHO_T}$MAGIC_CMD" >&6
else
  echo "$as_me:$LINENO: result: no" >&5
  echo "${ECHO_T}no" >&6
fi

else
  MAGIC_CMD=:
fi
fi

fi
;;
esac

enable_dlopen=no
enable_win32_dll=no

# Check whether --enable-libtool-lock or --disable-libtool-lock was
# given.
if test "${enable_libtool_lock+set}" = set; then
  enableval="$enable_libtool_lock"

fi;
test "x$enable_libtool_lock" != xno && enable_libtool_lock=yes

# Check whether --with-pic or --without-pic was given.
if test "${with_pic+set}" = set; then
  withval="$with_pic"
  pic_mode="$withval"
else
  pic_mode=default
fi;
test -z "$pic_mode" && pic_mode=default

# Use C for the default configuration in the libtool script
tagname=
lt_save_CC="$CC"

```

```

ac_ext=c
ac_cpp='$CPP $CPPFLAGS'
ac_compile='$CC -c $CFLAGS $CPPFLAGS conftest.$ac_ext >&5'
ac_link='$CC -o conftest$ac_exeext $CFLAGS $CPPFLAGS $LDFLAGS
conftest.$ac_ext $LIBS >&5'
ac_compiler_gnu=$ac_cv_c_compiler_gnu

# Source file extension for C test sources.
ac_ext=c

# Object file extension for compiled C test sources.
objext=o
objext=$objext

# Code to be used in simple compile tests
lt_simple_compile_test_code="int some_variable = 0;\n"

# Code to be used in simple link tests
lt_simple_link_test_code='int main(){return(0);}\n'

# If no C compiler was specified, use CC.
LTCC=${LTCC-"$CC"}

# If no C compiler flags were specified, use CFLAGS.
LTCFLAGS=${LTCFLAGS-"$CFLAGS"}

# Allow CC to be a program name with arguments.
compiler=$CC

# save warnings/boilerplate of simple test code
ac_outfile=conftest.$ac_objext
printf "$lt_simple_compile_test_code" >conftest.$ac_ext
eval "$ac_compile" 2>&1 >/dev/null | $SED '/^$/d; /^ *+/d' >conftest.err
_lt_compiler_boilerplate=`cat conftest.err`
$rm conftest*

ac_outfile=conftest.$ac_objext
printf "$lt_simple_link_test_code" >conftest.$ac_ext
eval "$ac_link" 2>&1 >/dev/null | $SED '/^$/d; /^ *+/d' >conftest.err
_lt_linker_boilerplate=`cat conftest.err`
$rm conftest*

lt_prog_compiler_no_builtin_flag=

if test "$GCC" = yes; then
  lt_prog_compiler_no_builtin_flag=' -fno-builtin'

```

```

echo "$as_me:$LINENO: checking if $compiler supports -fno-rtti -fno-
exceptions" >&5
echo $ECHO_N "checking if $compiler supports -fno-rtti -fno-exceptions...
$ECHO_C" >&6
if test "${lt_cv_prog_compiler_rtti_exceptions+set}" = set; then
  echo $ECHO_N "(cached) $ECHO_C" >&6
else
  lt_cv_prog_compiler_rtti_exceptions=no
  ac_outfile=conftest.$ac_objext
  printf "$lt_simple_compile_test_code" > conftest.$ac_ext
  lt_compiler_flag="-fno-rtti -fno-exceptions"
  # Insert the option either (1) after the last *FLAGS variable, or
  # (2) before a word containing "conftest.", or (3) at the end.
  # Note that $ac_compile itself does not contain backslashes and begins
  # with a dollar sign (not a hyphen), so the echo should work
correctly.
  # The option is referenced via a variable to avoid confusing sed.
  lt_compile=`echo "$ac_compile" | $SED \
-e 's:.*FLAGS}\{0,1\} :&$lt_compiler_flag ;; t' \
-e 's: [^ ]*conftest\.: $lt_compiler_flag&; t' \
-e 's:$: $lt_compiler_flag:'`
  (eval echo "\"$as_me:6518: $lt_compile\"" >&5)
  (eval "$lt_compile" 2>conftest.err)
  ac_status=$?
  cat conftest.err >&5
  echo "$as_me:6522: \$? = $ac_status" >&5
  if (exit $ac_status) && test -s "$ac_outfile"; then
    # The compiler can only warn and ignore the option if not recognized
    # So say no if there are warnings other than the usual output.
    $echo "X$lt_compiler_boilerplate" | $Xsed -e '/^$/d' >conftest.exp
    $SED '/^$/d; /^ *+/d' conftest.err >conftest.er2
    if test ! -s conftest.er2 || diff conftest.exp conftest.er2
>/dev/null; then
      lt_cv_prog_compiler_rtti_exceptions=yes
    fi
  fi
  $rm conftest*

fi

echo "$as_me:$LINENO: result: $lt_cv_prog_compiler_rtti_exceptions" >&5
echo "${ECHO_T}$lt_cv_prog_compiler_rtti_exceptions" >&6

if test x"$lt_cv_prog_compiler_rtti_exceptions" = xyes; then
  lt_prog_compiler_no_builtin_flag="$lt_prog_compiler_no_builtin_flag -
fno-rtti -fno-exceptions"
else
  :
fi

fi

lt_prog_compiler_wl=
lt_prog_compiler_pic=
lt_prog_compiler_static=

```

```

echo "$as_me:$LINENO: checking for $compiler option to produce PIC" >&5
echo $ECHO_N "checking for $compiler option to produce PIC... $ECHO_C"
>&6

if test "$GCC" = yes; then
  lt_prog_compiler_wl='-Wl,'
  lt_prog_compiler_static='-static'

  case $host_os in
    aix*)
      # All AIX code is PIC.
      if test "$host_cpu" = ia64; then
        # AIX 5 now supports IA64 processor
        lt_prog_compiler_static='-Bstatic'
      fi
      ;;

    amigaos*)
      # FIXME: we need at least 68020 code to build shared libraries, but
      # adding the '-m68020' flag to GCC prevents building anything
better,
      # like '-m68040'.
      lt_prog_compiler_pic='-m68020 -resident32 -malways-restore-a4'
      ;;

    beos* | cygwin* | irix5* | irix6* | nonstopux* | osf3* | osf4* |
osf5*)
      # PIC is the default for these OSes.
      ;;

    mingw* | pw32* | os2*)
      # This hack is so that the source file can tell whether it is being
      # built for inclusion in a dll (and should export symbols for
example).
      lt_prog_compiler_pic='-DDLL_EXPORT'
      ;;

    darwin* | rhapsody*)
      # PIC is the default on this platform
      # Common symbols not allowed in MH_DYLIB files
      lt_prog_compiler_pic='-fno-common'
      ;;

    interix3*)
      # Interix 3.x gcc -fpic/-fPIC options generate broken code.
      # Instead, we relocate shared libraries at runtime.
      ;;

    msdosdjgpp*)
      # Just because we use GCC doesn't mean we suddenly get shared
libraries
      # on systems that don't support them.
      lt_prog_compiler_can_build_shared=no

```

```

enable_shared=no
;;

sysv4*MP*)
    if test -d /usr/nec; then
        lt_prog_compiler_pic=-Kconform_pic
    fi
    ;;

hpux*)
    # PIC is the default for IA64 HP-UX and 64-bit HP-UX, but
    # not for PA HP-UX.
    case $host_cpu in
        hppa*64*|ia64*)
            # +Z the default
            ;;
        *)
            lt_prog_compiler_pic='-fPIC'
            ;;
    esac
    ;;

*)
    lt_prog_compiler_pic='-fPIC'
    ;;
esac
else
    # PORTME Check for flag to pass linker flags through the system
    compiler.
    case $host_os in
        aix*)
            lt_prog_compiler_wl='-Wl,'
            if test "$host_cpu" = ia64; then
                # AIX 5 now supports IA64 processor
                lt_prog_compiler_static='-Bstatic'
            else
                lt_prog_compiler_static='-bnso -bI:/lib/syscalls.exp'
            fi
            ;;
        darwin*)
            # PIC is the default on this platform
            # Common symbols not allowed in MH_DYLIB files
            case $cc_basename in
                xlc*)
                    lt_prog_compiler_pic='-qnocommon'
                    lt_prog_compiler_wl='-Wl,'
                    ;;
            esac
            ;;
        mingw* | pw32* | os2*)
            # This hack is so that the source file can tell whether it is being
            # built for inclusion in a dll (and should export symbols for
            example).

```

```

    lt_prog_compiler_pic='-DDLL_EXPORT'
    ;;

hpux9* | hpux10* | hpux11*)
    lt_prog_compiler_wl='-Wl,'
    # PIC is the default for IA64 HP-UX and 64-bit HP-UX, but
    # not for PA HP-UX.
    case $host_cpu in
    hppa*64*|ia64*)
        # +Z the default
        ;;
    *)
        lt_prog_compiler_pic='+Z'
        ;;
    esac
    # Is there a better lt_prog_compiler_static that works with the
bundled CC?
    lt_prog_compiler_static='${wl}-a ${wl}archive'
    ;;

irix5* | irix6* | nonstopux*)
    lt_prog_compiler_wl='-Wl,'
    # PIC (with -KPIC) is the default.
    lt_prog_compiler_static='-non_shared'
    ;;

newsos6)
    lt_prog_compiler_pic='-KPIC'
    lt_prog_compiler_static='-Bstatic'
    ;;

linux*)
    case $cc_basename in
    icc* | ecc*)
        lt_prog_compiler_wl='-Wl,'
        lt_prog_compiler_pic='-KPIC'
        lt_prog_compiler_static='-static'
        ;;
    pgcc* | pgf77* | pgf90* | pgf95*)
        # Portland Group compilers (*not* the Pentium gcc compiler,
        # which looks to be a dead project)
        lt_prog_compiler_wl='-Wl,'
        lt_prog_compiler_pic='-fpic'
        lt_prog_compiler_static='-Bstatic'
        ;;
    ccc*)
        lt_prog_compiler_wl='-Wl,'
        # All Alpha code is PIC.
        lt_prog_compiler_static='-non_shared'
        ;;
    esac
    ;;

osf3* | osf4* | osf5*)

```



```

    lt_prog_compiler_wl='-Wl,'
    # All OSF/1 code is PIC.
    lt_prog_compiler_static='-non_shared'
    ;;

solaris*)
    lt_prog_compiler_pic='-KPIC'
    lt_prog_compiler_static='-Bstatic'
    case $cc_basename in
    f77* | f90* | f95*)
    lt_prog_compiler_wl='-Qoption ld ';;
    *)
    lt_prog_compiler_wl='-Wl, ';;
    esac
    ;;

sunos4*)
    lt_prog_compiler_wl='-Qoption ld '
    lt_prog_compiler_pic='-PIC'
    lt_prog_compiler_static='-Bstatic'
    ;;

sysv4 | sysv4.2uw2* | sysv4.3*)
    lt_prog_compiler_wl='-Wl,'
    lt_prog_compiler_pic='-KPIC'
    lt_prog_compiler_static='-Bstatic'
    ;;

sysv4*MP*)
    if test -d /usr/nec ;then
    lt_prog_compiler_pic='-Kconform_pic'
    lt_prog_compiler_static='-Bstatic'
    fi
    ;;

sysv5* | unixware* | sco3.2v5* | sco5v6* | OpenUNIX*)
    lt_prog_compiler_wl='-Wl,'
    lt_prog_compiler_pic='-KPIC'
    lt_prog_compiler_static='-Bstatic'
    ;;

unicos*)
    lt_prog_compiler_wl='-Wl,'
    lt_prog_compiler_can_build_shared=no
    ;;

uts4*)
    lt_prog_compiler_pic='-pic'
    lt_prog_compiler_static='-Bstatic'
    ;;

*)
    lt_prog_compiler_can_build_shared=no
    ;;

```

```

    esac
fi

echo "$as_me:$LINENO: result: $lt_prog_compiler_pic" >&5
echo "${ECHO_T}$lt_prog_compiler_pic" >&6

#
# Check to make sure the PIC flag actually works.
#
if test -n "$lt_prog_compiler_pic"; then

echo "$as_me:$LINENO: checking if $compiler PIC flag
$lt_prog_compiler_pic works" >&5
echo $ECHO_N "checking if $compiler PIC flag $lt_prog_compiler_pic
works... $ECHO_C" >&6
if test "${lt_prog_compiler_pic_works+set}" = set; then
    echo $ECHO_N "(cached) $ECHO_C" >&6
else
    lt_prog_compiler_pic_works=no
    ac_outfile=confptest.$ac_objext
    printf "$lt_simple_compile_test_code" > confptest.$ac_ext
    lt_compiler_flag="$lt_prog_compiler_pic -DPIC"
    # Insert the option either (1) after the last *FLAGS variable, or
    # (2) before a word containing "confptest.", or (3) at the end.
    # Note that $ac_compile itself does not contain backslashes and begins
    # with a dollar sign (not a hyphen), so the echo should work
correctly.
    # The option is referenced via a variable to avoid confusing sed.
    lt_compile=`echo "$ac_compile" | $SED \
-e 's:.*FLAGS}\{0,1}\}:&$lt_compiler_flag :; t' \
-e 's: [^ ]*confptest\.: $lt_compiler_flag&;; t' \
-e 's:$: $lt_compiler_flag:'`
    (eval echo "\"$as_me:6786: $lt_compile\"" >&5)
    (eval "$lt_compile" 2>confptest.err)
    ac_status=$?
    cat confptest.err >&5
    echo "$as_me:6790: \$? = $ac_status" >&5
    if (exit $ac_status) && test -s "$ac_outfile"; then
        # The compiler can only warn and ignore the option if not recognized
        # So say no if there are warnings other than the usual output.
        $echo "X$lt_compiler_boilerplate" | $Xsed -e '/^$/d' >confptest.exp
        $SED '/^$/d; /^ *+/d' confptest.err >confptest.er2
        if test ! -s confptest.er2 || diff confptest.exp confptest.er2
>/dev/null; then
            lt_prog_compiler_pic_works=yes
        fi
    fi
fi
$rm confptest*

fi

echo "$as_me:$LINENO: result: $lt_prog_compiler_pic_works" >&5
echo "${ECHO_T}$lt_prog_compiler_pic_works" >&6

if test x"$lt_prog_compiler_pic_works" = xyes; then

```

```

    case $lt_prog_compiler_pic in
        "" | " "*) ;;
        *) lt_prog_compiler_pic="$lt_prog_compiler_pic" ;;
    esac
else
    lt_prog_compiler_pic=
    lt_prog_compiler_can_build_shared=no
fi

fi

case $host_os in
    # For platforms which do not support PIC, -DPIC is meaningless:
    *djgpp*)
        lt_prog_compiler_pic=
        ;;
    *)
        lt_prog_compiler_pic="$lt_prog_compiler_pic -DPIC"
        ;;
esac

#
# Check to make sure the static flag actually works.
#
wl=$lt_prog_compiler_wl eval
lt_tmp_static_flag="\$lt_prog_compiler_static\"
echo "$as_me:$LINENO: checking if $compiler static flag
$lt_tmp_static_flag works" >&5
echo $ECHO_N "checking if $compiler static flag $lt_tmp_static_flag
works... $ECHO_C" >&6
if test "${lt_prog_compiler_static_works+set}" = set; then
    echo $ECHO_N "(cached) $ECHO_C" >&6
else
    lt_prog_compiler_static_works=no
    save_LDFLAGS="$LDFLAGS"
    LDFLAGS="$LDFLAGS $lt_tmp_static_flag"
    printf "$lt_simple_link_test_code" > conftest.$ac_ext
    if (eval $ac_link 2>conftest.err) && test -s conftest.$ac_exeext; then
        # The linker can only warn and ignore the option if not recognized
        # So say no if there are warnings
        if test -s conftest.err; then
            # Append any errors to the config.log.
            cat conftest.err 1>&5
            $echo "X$lt_linker_boilerplate" | $Xsed -e '/^$/d' > conftest.exp
            $SED '/^$/d; /^ *+/d' conftest.err >conftest.er2
            if diff conftest.exp conftest.er2 >/dev/null; then
                lt_prog_compiler_static_works=yes
            fi
        else
            lt_prog_compiler_static_works=yes
        fi
    fi
    $rm conftest*
    LDFLAGS="$save_LDFLAGS"

```

```

fi
echo "$as_me:$LINENO: result: $lt_prog_compiler_static_works" >&5
echo "${ECHO_T}$lt_prog_compiler_static_works" >&6

if test x"$lt_prog_compiler_static_works" = xyes; then
:
else
    lt_prog_compiler_static=
fi

echo "$as_me:$LINENO: checking if $compiler supports -c -o
file.$ac_objext" >&5
echo $ECHO_N "checking if $compiler supports -c -o file.$ac_objext...
$ECHO_C" >&6
if test "${lt_cv_prog_compiler_c_o+set}" = set; then
    echo $ECHO_N "(cached) $ECHO_C" >&6
else
    lt_cv_prog_compiler_c_o=no
    $rm -r conftest 2>/dev/null
    mkdir conftest
    cd conftest
    mkdir out
    printf "$lt_simple_compile_test_code" > conftest.$ac_ext

    lt_compiler_flag="-o out/conftest2.$ac_objext"
    # Insert the option either (1) after the last *FLAGS variable, or
    # (2) before a word containing "conftest.", or (3) at the end.
    # Note that $ac_compile itself does not contain backslashes and begins
    # with a dollar sign (not a hyphen), so the echo should work
correctly.
    lt_compile=`echo "$ac_compile" | $SED \
-e 's:.*FLAGS}\{0,1}\}:&$lt_compiler_flag :; t' \
-e 's: [^ ]*conftest\.: $lt_compiler_flag&;; t' \
-e 's:$: $lt_compiler_flag:'`
    (eval echo "\"$as_me:6890: $lt_compile\"" >&5)
    (eval "$lt_compile" 2>out/conftest.err)
    ac_status=$?
    cat out/conftest.err >&5
    echo "$as_me:6894: \$? = $ac_status" >&5
    if (exit $ac_status) && test -s out/conftest2.$ac_objext
    then
        # The compiler can only warn and ignore the option if not recognized
        # So say no if there are warnings
        $echo "X$lt_compiler_boilerplate" | $Xsed -e '/^$/d' >
out/conftest.exp
        $SED '/^$/d; /^ *+/d' out/conftest.err >out/conftest.er2
        if test ! -s out/conftest.er2 || diff out/conftest.exp
out/conftest.er2 >/dev/null; then
            lt_cv_prog_compiler_c_o=yes
        fi
    fi
    chmod u+w . 2>&5
    $rm conftest*

```

```

# SGI C++ compiler will create directory out/ii_files/ for
# template instantiation
test -d out/ii_files && $rm out/ii_files/* && rmdir out/ii_files
$rm out/* && rmdir out
cd ..
rmdir confctest
$rm confctest*

fi

echo "$as_me:$LINENO: result: $lt_cv_prog_compiler_c_o" >&5
echo "${ECHO_T}$lt_cv_prog_compiler_c_o" >&6

hard_links="nottested"
if test "$lt_cv_prog_compiler_c_o" = no && test "$need_locks" != no; then
  # do not overwrite the value of need_locks provided by the user
  echo "$as_me:$LINENO: checking if we can lock with hard links" >&5
  echo $ECHO_N "checking if we can lock with hard links... $ECHO_C" >&6
  hard_links=yes
  $rm confctest*
  ln confctest.a confctest.b 2>/dev/null && hard_links=no
  touch confctest.a
  ln confctest.a confctest.b 2>&5 || hard_links=no
  ln confctest.a confctest.b 2>/dev/null && hard_links=no
  echo "$as_me:$LINENO: result: $hard_links" >&5
  echo "${ECHO_T}$hard_links" >&6
  if test "$hard_links" = no; then
    { echo "$as_me:$LINENO: WARNING: \`$CC' does not support \`-c -o', so
\`make -j' may be unsafe" >&5
  echo "$as_me: WARNING: \`$CC' does not support \`-c -o', so \`make -j'
may be unsafe" >&2;}
    need_locks=warn
  fi
else
  need_locks=no
fi

echo "$as_me:$LINENO: checking whether the $compiler linker ($LD)
supports shared libraries" >&5
echo $ECHO_N "checking whether the $compiler linker ($LD) supports shared
libraries... $ECHO_C" >&6

runpath_var=
allow_undefined_flag=
enable_shared_with_static_runtimes=no
archive_cmds=
archive_expsym_cmds=
old_archive_From_new_cmds=
old_archive_from_expsyms_cmds=
export_dynamic_flag_spec=
whole_archive_flag_spec=
thread_safe_flag_spec=
hardcode_libdir_flag_spec=
hardcode_libdir_flag_spec_ld=

```

```

hardcode_libdir_separator=
hardcode_direct=no
hardcode_minus_L=no
hardcode_shlibpath_var=unsupported
link_all_deplibs=unknown
hardcode_automatic=no
module_cmds=
module_expsym_cmds=
always_export_symbols=no
export_symbols_cmds='$NM $libobjs $convenience | $global_symbol_pipe |
$SED '\''s/.* //' | sort | uniq > $export_symbols'
# include_expsyms should be a list of space-separated symbols to be
*always*
# included in the symbol list
include_expsyms=
# exclude_expsyms can be an extended regexp of symbols to exclude
# it will be wrapped by ` (' and `)'$, so one must not match beginning
or
# end of line. Example: `a|bc|.d.*' will exclude the symbols `a' and
`bc',
# as well as any symbol that contains `d'.
exclude_expsyms="_GLOBAL_OFFSET_TABLE_"
# Although _GLOBAL_OFFSET_TABLE_ is a valid symbol C name, most a.out
# platforms (ab)use it in PIC code, but their linkers get confused if
# the symbol is explicitly referenced. Since portable code cannot
# rely on this symbol name, it's probably fine to never include it in
# preloaded symbol tables.
extract_expsyms_cmds=
# Just being paranoid about ensuring that cc_basename is set.
for cc_temp in $compiler""; do
case $cc_temp in
  compile | *[\//]compile | ccache | *[\//]ccache ) ;;
  distcc | *[\//]distcc | purify | *[\//]purify ) ;;
  \-*) ;;
  *) break;;
esac
done
cc_basename=`$echo "X$cc_temp" | $Xsed -e 's%.*/%%' -e "s%^$host_alias-
%%" `

case $host_os in
cygwin* | mingw* | pw32*)
# FIXME: the MSVC++ port hasn't been tested in a loooong time
# When not using gcc, we currently assume that we are using
# Microsoft Visual C++.
if test "$GCC" != yes; then
  with_gnu_ld=no
fi
;;
interix*)
# we just hope/assume this is gcc and not c89 (= MSVC++)
with_gnu_ld=yes
;;
openbsd*)

```

```

    with_gnu_ld=no
    ;;
esac

ld_shlibs=yes
if test "$with_gnu_ld" = yes; then
    # If archive_cmds runs LD, not CC, wlarc should be empty
    wlarc='${wl}'

    # Set some defaults for GNU ld with shared library support. These
    # are reset later if shared libraries are not supported. Putting them
    # here allows them to be overridden if necessary.
    runpath_var=LD_RUN_PATH
    hardcode_libdir_flag_spec='${wl}--rpath ${wl}$libdir'
    export_dynamic_flag_spec='${wl}--export-dynamic'
    # ancient GNU ld didn't support --whole-archive et. al.
    if $LD --help 2>&1 | grep 'no-whole-archive' > /dev/null; then
        whole_archive_flag_spec="$wlarc"--whole-archive$convenience
        "$wlarc"--no-whole-archive'
    else
        whole_archive_flag_spec=
    fi
fi
supports_anon_versioning=no
case ` $LD -v 2>/dev/null ` in
    *\ [01].* | *\ 2.[0-9].* | *\ 2.10.*) ;; # catch versions < 2.11
    *\ 2.11.93.0.2\ *) supports_anon_versioning=yes ;; # RH7.3 ...
    *\ 2.11.92.0.12\ *) supports_anon_versioning=yes ;; # Mandrake 8.2
...
    *\ 2.11.*) ;; # other 2.11 versions
    *) supports_anon_versioning=yes ;;
esac

# See if GNU ld supports shared libraries.
case $host_os in
aix3* | aix4* | aix5*)
    # On AIX/PPC, the GNU linker is very broken
    if test "$host_cpu" != ia64; then
        ld_shlibs=no
        cat <<EOF 1>&2

*** Warning: the GNU linker, at least up to release 2.9.1, is reported
*** to be unable to reliably create shared libraries on AIX.
*** Therefore, libtool is disabling shared libraries support.  If you
*** really care for shared libraries, you may want to modify your PATH
*** so that a non-GNU linker is found, and then restart.

EOF

        fi
        ;;
amigaos*)
    archive_cmds='$rm $output_objdir/a2ixlibrary.data~$echo "#define
NAME $libname" > $output_objdir/a2ixlibrary.data~$echo "#define
LIBRARY_ID 1" >> $output_objdir/a2ixlibrary.data~$echo "#define VERSION

```

```

$major" >> $output_objdir/a2ixlibrary.data~$echo "#define REVISION
$revision" >> $output_objdir/a2ixlibrary.data~$AR $AR_FLAGS $lib
$libobjs~$RANLIB $lib~(cd $output_objdir && a2ixlibrary -32)'
    hardcode_libdir_flag_spec='-L$libdir'
    hardcode_minus_L=yes

# Samuel A. Falvo II <kc5tja@dolphin.openprojects.net> reports
# that the semantics of dynamic libraries on AmigaOS, at least up
# to version 4, is to share data among multiple programs linked
# with the same dynamic library. Since this doesn't match the
# behavior of shared libraries on other platforms, we can't use
# them.
ld_shlibs=no
;;

beos*)
    if $LD --help 2>&1 | grep ': supported targets:.* elf' > /dev/null;
then
    allow_undefined_flag=unsupported
    # Joseph Beckenbach <jrb3@best.com> says some releases of gcc
    # support --undefined. This deserves some investigation. FIXME
    archive_cmds='$CC -nostart $libobjs $deplibs $compiler_flags ${wl}-
soname $wl$soname -o $lib'
    else
    ld_shlibs=no
    fi
    ;;

cygwin* | mingw* | pw32*)
    # _LT_AC_TAGVAR(hardcode_libdir_flag_spec, ) is actually
meaningless,
    # as there is no search path for DLLs.
    hardcode_libdir_flag_spec='-L$libdir'
    allow_undefined_flag=unsupported
    always_export_symbols=no
    enable_shared_with_static_runtimes=yes
    export_symbols_cmds='$NM $libobjs $convenience |
$global_symbol_pipe | $SED -e '\''/^[BCDGRS] /s/.*/ \([^\ ]*\)/\1 DATA/'\''
| $SED -e '\''/^[AITW] /s/.*/ //'\'' | sort | uniq > $export_symbols'

    if $LD --help 2>&1 | grep 'auto-import' > /dev/null; then
        archive_cmds='$CC -shared $libobjs $deplibs $compiler_flags -o
$output_objdir/$soname ${wl}--enable-auto-image-base -Xlinker --out-
implib -Xlinker $lib'
        # If the export-symbols file already is a .def file (1st line
        # is EXPORTS), use it as is; otherwise, prepend...
        archive_expsym_cmds='if test "x`$SED 1q $export_symbols`" =
xEXPORTS; then
            cp $export_symbols $output_objdir/$soname.def;
        else
            echo EXPORTS > $output_objdir/$soname.def;
            cat $export_symbols >> $output_objdir/$soname.def;
        fi~

```



```

        $CC -shared $output_objdir/$soname.def $libobjs $deplibs
$compiler_flags -o $output_objdir/$soname ${wl}--enable-auto-image-base -
Xlinker --out-implib -Xlinker $lib'
    else
    ld_shlibs=no
    fi
    ;;

interix3*)
    hardcode_direct=no
    hardcode_shlibpath_var=no
    hardcode_libdir_flag_spec='${wl}-rpath,$libdir'
    export_dynamic_flag_spec='${wl}-E'
    # Hack: On Interix 3.x, we cannot compile PIC because of a broken
gcc.
    # Instead, shared libraries are loaded at an image base (0x10000000
by
    # default) and relocated if they conflict, which is a slow very
memory
    # consuming and fragmenting process. To avoid this, we pick a
random,
    # 256 KiB-aligned image base between 0x50000000 and 0x6FFC0000 at
link
    # time. Moving up from 0x10000000 also allows more sbrk(2) space.
    archive_cmds='$CC -shared $pic_flag $libobjs $deplibs
$compiler_flags ${wl}-h,$soname ${wl}--image-base,`expr ${RANDOM-$$} %
4096 / 2 \* 262144 + 1342177280` -o $lib'
    archive_expsym_cmds='sed "s,^,_" $export_symbols
>$output_objdir/$soname.expsym~$CC -shared $pic_flag $libobjs $deplibs
$compiler_flags ${wl}-h,$soname ${wl}--retain-symbols-
file,$output_objdir/$soname.expsym ${wl}--image-base,`expr ${RANDOM-$$} %
4096 / 2 \* 262144 + 1342177280` -o $lib'
    ;;

linux*)
    if $LD --help 2>&1 | grep ': supported targets:.* elf' > /dev/null;
then
    tmp_addflag=
    case $cc_basename,$host_cpu in
    pgcc*)
        # Portland Group C compiler
        whole_archive_flag_spec='${wl}--whole-archive`for conv in
$convenience\``"; do test -n \"$conv\" &&
new_convenience=\"$new_convenience,$conv\"; done; $echo
\"$new_convenience\`` ${wl}--no-whole-archive'
        tmp_addflag=' $pic_flag'
        ;;
    pgf77* | pgf90* | pgf95*)
        # Portland Group f77 and f90 compilers
        whole_archive_flag_spec='${wl}--whole-archive`for conv in
$convenience\``"; do test -n \"$conv\" &&
new_convenience=\"$new_convenience,$conv\"; done; $echo
\"$new_convenience\`` ${wl}--no-whole-archive'
        tmp_addflag=' $pic_flag -Mnomain' ;;
    ecc*,ia64* | icc*,ia64*)
        # Intel C compiler on ia64
        tmp_addflag=' -i_dynamic' ;;

```

```

efc*,ia64* | ifort*,ia64*) # Intel Fortran compiler on ia64
    tmp_addflag=' -i_dynamic -nofor_main' ;;
ifc* | ifort*) # Intel Fortran compiler
    tmp_addflag=' -nofor_main' ;;
esac
archive_cmds='$CC -shared"$tmp_addflag"' $libobjs $deplibs
$compiler_flags ${wl}-soname $wl$soname -o $lib'

    if test $supports_anon_versioning = yes; then
        archive_expsym_cmds='$echo "{ global:" >
$output_objdir/$libname.ver~
cat $export_symbols | sed -e "s/\(.*\)\/\1;/" >>
$output_objdir/$libname.ver~
$echo "local: *; };" >> $output_objdir/$libname.ver~
$CC -shared"$tmp_addflag"' $libobjs $deplibs $compiler_flags
${wl}-soname $wl$soname ${wl}-version-script
${wl}$output_objdir/$libname.ver -o $lib'
        fi
    else
        ld_shlibs=no
    fi
;;

netbsd*)
    if echo __ELF__ | $CC -E - | grep __ELF__ >/dev/null; then
        archive_cmds='$LD -Bshareable $libobjs $deplibs $linker_flags -o
$lib'
        wlarc=
    else
        archive_cmds='$CC -shared $libobjs $deplibs $compiler_flags ${wl}-
soname $wl$soname -o $lib'
        archive_expsym_cmds='$CC -shared $libobjs $deplibs $compiler_flags
${wl}-soname $wl$soname ${wl}-retain-symbols-file $wl$export_symbols -o
$lib'
    fi
;;

solaris*)
    if $LD -v 2>&1 | grep 'BFD 2\.8' > /dev/null; then
        ld_shlibs=no
        cat <<EOF 1>&2

*** Warning: The releases 2.8.* of the GNU linker cannot reliably
*** create shared libraries on Solaris systems. Therefore, libtool
*** is disabling shared libraries support. We urge you to upgrade GNU
*** binutils to release 2.9.1 or newer. Another option is to modify
*** your PATH or compiler configuration so that the native linker is
*** used, and then restart.

EOF
        elif $LD --help 2>&1 | grep ': supported targets:.* elf' >
/dev/null; then
            archive_cmds='$CC -shared $libobjs $deplibs $compiler_flags ${wl}-
soname $wl$soname -o $lib'

```

```

        archive_expsym_cmds='$CC -shared $libobjs $deplibs $compiler_flags
${wl}-soname $wl$soname ${wl}-retain-symbols-file $wl$export_symbols -o
$lib'
        else
        ld_shlibs=no
        fi
        ;;

sysv5* | sco3.2v5* | sco5v6* | unixware* | OpenUNIX*)
        case ` $LD -v 2>&1 ` in
        *\ [01].* | *\ 2.[0-9].* | *\ 2.1[0-5].*)
        ld_shlibs=no
        cat <<_LT_EOF 1>&2

*** Warning: Releases of the GNU linker prior to 2.16.91.0.3 can not
*** reliably create shared libraries on SCO systems.  Therefore, libtool
*** is disabling shared libraries support.  We urge you to upgrade GNU
*** binutils to release 2.16.91.0.3 or newer.  Another option is to
modify
*** your PATH or compiler configuration so that the native linker is
*** used, and then restart.

_LT_EOF
        ;;
        *)
        if $LD --help 2>&1 | grep ': supported targets:.* elf' >
/dev/null; then
                hardcode_libdir_flag_spec=`test -z "$SCOABSPATH" && echo
${wl}-rpath,$libdir`
                archive_cmds='$CC -shared $libobjs $deplibs $compiler_flags
${wl}-soname,\${SCOABSPATH:+${install_libdir}/}$soname -o $lib'
                archive_expsym_cmds='$CC -shared $libobjs $deplibs
$compiler_flags ${wl}-soname,\${SCOABSPATH:+${install_libdir}/}$soname,-
retain-symbols-file,$export_symbols -o $lib'
                else
                ld_shlibs=no
                fi
                ;;
        esac
        ;;

sunos4*)
        archive_cmds='$LD -assert pure-text -Bshareable -o $lib $libobjs
$deplibs $linker_flags'
        wlarc=
        hardcode_direct=yes
        hardcode_shlibpath_var=no
        ;;
        *)
        if $LD --help 2>&1 | grep ': supported targets:.* elf' > /dev/null;
then
                archive_cmds='$CC -shared $libobjs $deplibs $compiler_flags ${wl}-
soname $wl$soname -o $lib'

```

```

        archive_expsym_cmds='$CC -shared $libobjs $deplibs $compiler_flags
${wl}-soname $wl$soname ${wl}-retain-symbols-file $wl$export_symbols -o
$lib'
    else
        ld_shlibs=no
    fi
    ;;
esac

if test "$ld_shlibs" = no; then
    runpath_var=
    hardcode_libdir_flag_spec=
    export_dynamic_flag_spec=
    whole_archive_flag_spec=
fi
else
    # PORTME fill in a description of your system's linker (not GNU ld)
    case $host_os in
    aix3*)
        allow_undefined_flag=unsupported
        always_export_symbols=yes
        archive_expsym_cmds='$LD -o $output_objdir/$soname $libobjs
$deplibs $linker_flags -bE:$export_symbols -T512 -H512 -bM:SRE~$AR
$AR_FLAGS $lib $output_objdir/$soname'
        # Note: this linker hardcodes the directories in LIBPATH if there
        # are no directories specified by -L.
        hardcode_minus_L=yes
        if test "$GCC" = yes && test -z "$lt_prog_compiler_static"; then
            # Neither direct hardcoding nor static linking is supported with a
            # broken collect2.
            hardcode_direct=unsupported
        fi
        ;;

    aix4* | aix5*)
        if test "$host_cpu" = ia64; then
            # On IA64, the linker does run time linking by default, so we don't
            # have to do anything special.
            aix_use_runtimelinking=no
            exp_sym_flag='-Bexport'
            no_entry_flag=""
        else
            # If we're using GNU nm, then we don't want the "-C" option.
            # -C means demangle to AIX nm, but means don't demangle with GNU nm
            if $NM -V 2>&1 | grep 'GNU' > /dev/null; then
                export_symbols_cmds='$NM -Bpg $libobjs $convenience | awk '\''{
if ((\($2 == "T") || (\($2 == "D") || (\($2 == "B"))) && (substr(\($3,1,1) !=
".")) { print \($3 } }'\'' | sort -u > $export_symbols'
            else
                export_symbols_cmds='$NM -BCpg $libobjs $convenience | awk '\''{
if ((\($2 == "T") || (\($2 == "D") || (\($2 == "B"))) && (substr(\($3,1,1) !=
".")) { print \($3 } }'\'' | sort -u > $export_symbols'
            fi
            aix_use_runtimelinking=no
        fi
    esac

```

```

# Test if we are trying to use run time linking or normal
# AIX style linking. If -brtl is somewhere in LDFLAGS, we
# need to do runtime linking.
case $host_os in aix4.[23]|aix4.[23].*|aix5*)
    for ld_flag in $LDFLAGS; do
        if (test $ld_flag = "-brtl" || test $ld_flag = "-Wl,-brtl"); then
            aix_use_runtimelinking=yes
            break
        fi
    done
    ;;
esac

exp_sym_flag='-bexport'
no_entry_flag='-bnoentry'
fi

# When large executables or shared objects are built, AIX ld can
# have problems creating the table of contents.  If linking a
library
# or program results in "error TOC overflow" add -mminimal-toc to
# CXXFLAGS/CFLAGS for g++/gcc.  In the cases where that is not
# enough to fix the problem, add -Wl,-bbigtoc to LDFLAGS.

archive_cmds=''
hardcode_direct=yes
hardcode_libdir_separator=':'
link_all_deplibs=yes

if test "$GCC" = yes; then
case $host_os in aix4.[012]|aix4.[012].*)
# We only want to do this on AIX 4.2 and lower, the check
# below for broken collect2 doesn't work under 4.3+
collect2name=`${CC} -print-prog-name=collect2`
if test -f "$collect2name" && \
strings "$collect2name" | grep resolve_lib_name >/dev/null
then
# We have reworked collect2
hardcode_direct=yes
else
# We have old collect2
hardcode_direct=unsupported
# It fails to find uninstalled libraries when the uninstalled
# path is not listed in the libpath.  Setting hardcode_minus_L
# to unsupported forces relinking
hardcode_minus_L=yes
hardcode_libdir_flag_spec='-L$libdir'
hardcode_libdir_separator=
fi
fi
;;
esac
shared_flag='-shared'
if test "$aix_use_runtimelinking" = yes; then

```

```

        shared_flag="$shared_flag "'${wl}-G'
    fi
    else
    # not using gcc
    if test "$host_cpu" = ia64; then
    # VisualAge C++, Version 5.5 for AIX 5L for IA-64, Beta 3 Release
    # chokes on -Wl,-G. The following line is correct:
        shared_flag='-G'
    else
        if test "$aix_use_runtimelinking" = yes; then
            shared_flag='${wl}-G'
        else
            shared_flag='${wl}-bM:SRE'
        fi
    fi
fi
fi

# It seems that -bexpall does not export symbols beginning with
# underscore (_), so it is better to generate a list of symbols to
export.
always_export_symbols=yes
if test "$aix_use_runtimelinking" = yes; then
# Warning - without using the other runtime loading flags (-brtl),
# -berok will link without error, but may produce a broken library.
allow_undefined_flag='-berok'
# Determine the default libpath from the value encoded in an empty
executable.
    cat >conftest.$ac_ext <<_ACEOF
/* confdefs.h. */
_ACEOF
cat confdefs.h >>conftest.$ac_ext
cat >>conftest.$ac_ext <<_ACEOF
/* end confdefs.h. */

int
main ()
{

    ;
    return 0;
}
_ACEOF
rm -f conftest.$ac_objext conftest$ac_exeext
if { (eval echo "$as_me:$LINENO: \"\$ac_link\"") >&5
    (eval $ac_link) 2>conftest.er1
    ac_status=$?
    grep -v '^ *+' conftest.er1 >conftest.err
    rm -f conftest.er1
    cat conftest.err >&5
    echo "$as_me:$LINENO: \$? = $ac_status" >&5
    (exit $ac_status); } &&
    { ac_try='test -z "$ac_c_werror_flag"
        || test ! -s conftest.err'
    { (eval echo "$as_me:$LINENO: \"\$ac_try\"") >&5

```

```

(eval $ac_try) 2>&5
ac_status=$?
echo "$as_me:$LINENO: \ $? = $ac_status" >&5
(exit $ac_status); }; } &&
    { ac_try='test -s conftest$ac_exeext'
    { (eval echo "$as_me:$LINENO: \"\$ac_try\"") >&5
    (eval $ac_try) 2>&5
    ac_status=$?
    echo "$as_me:$LINENO: \ $? = $ac_status" >&5
    (exit $ac_status); }; }; then

aix_libpath=`dump -H conftest$ac_exeext 2>/dev/null | $SED -n -e '/Import
File Strings/,/^$/ { /^0/ { s/^0 *\(.*\)$/\1/; p; }
}'`
# Check for a 64-bit object if we didn't find anything.
if test -z "$aix_libpath"; then aix_libpath=`dump -HX64
conftest$ac_exeext 2>/dev/null | $SED -n -e '/Import File Strings/,/^$/ {
/^0/ { s/^0 *\(.*\)$/\1/; p; }
}'`; fi
else
    echo "$as_me: failed program was:" >&5
    sed 's/^/| /' conftest.$ac_ext >&5

fi
rm -f conftest.err conftest.$ac_objext \
    conftest$ac_exeext conftest.$ac_ext
if test -z "$aix_libpath"; then aix_libpath="/usr/lib:/lib"; fi

    hardcode_libdir_flag_spec='${wl}-blibpath:$libdir:"$aix_libpath"
    archive_expsym_cmds="\$CC" -o $output_objdir/$soname $libobjs
$deplibs '"\${wl}$no_entry_flag"' $compiler_flags `if test
"x${allow_undefined_flag}" != "x"; then echo
"${wl}${allow_undefined_flag}"; else ;; fi`
'"\${wl}$exp_sym_flag:\$export_symbols $shared_flag"
    else
    if test "$host_cpu" = ia64; then
        hardcode_libdir_flag_spec='${wl}-R $libdir:/usr/lib:/lib'
        allow_undefined_flag="-z nodefs"
        archive_expsym_cmds="\$CC $shared_flag" -o
$output_objdir/$soname $libobjs $deplibs '"\${wl}$no_entry_flag"'
$compiler_flags ${wl}${allow_undefined_flag}
'"\${wl}$exp_sym_flag:\$export_symbols"
    else
        # Determine the default libpath from the value encoded in an empty
executable.
        cat >conftest.$ac_ext <<_ACEOF
/* confdefs.h. */
_ACEOF
cat confdefs.h >>conftest.$ac_ext
cat >>conftest.$ac_ext <<_ACEOF
/* end confdefs.h. */

int
main ()

```

```

{
    ;
    return 0;
}
_ACEOF
rm -f confptest.$ac_objext confptest$ac_exeext
if { (eval echo "$as_me:$LINENO: \"$ac_link\"" ) >&5
    (eval $ac_link) 2>confptest.er1
    ac_status=$?
    grep -v '^ *+' confptest.er1 >confptest.err
    rm -f confptest.er1
    cat confptest.err >&5
    echo "$as_me:$LINENO: \ $? = $ac_status" >&5
    (exit $ac_status); } &&
    { ac_try='test -z "$ac_c_werror_flag"
        || test ! -s confptest.err'
    { (eval echo "$as_me:$LINENO: \"$ac_try\"" ) >&5
    (eval $ac_try) 2>&5
    ac_status=$?
    echo "$as_me:$LINENO: \ $? = $ac_status" >&5
    (exit $ac_status); }; } &&
    { ac_try='test -s confptest$ac_exeext'
    { (eval echo "$as_me:$LINENO: \"$ac_try\"" ) >&5
    (eval $ac_try) 2>&5
    ac_status=$?
    echo "$as_me:$LINENO: \ $? = $ac_status" >&5
    (exit $ac_status); }; }; then

aix_libpath=`dump -H confptest$ac_exeext 2>/dev/null | $SED -n -e '/Import
File Strings/,/^$/ { /^0/ { s/^0  *\(.*\)$/\1/; p; }
}'`
# Check for a 64-bit object if we didn't find anything.
if test -z "$aix_libpath"; then aix_libpath=`dump -HX64
confptest$ac_exeext 2>/dev/null | $SED -n -e '/Import File Strings/,/^$/ {
/^0/ { s/^0  *\(.*\)$/\1/; p; }
}'`; fi
else
    echo "$as_me: failed program was:" >&5
    sed 's/^/| /' confptest.$ac_ext >&5

fi
rm -f confptest.err confptest.$ac_objext \
    confptest$ac_exeext confptest.$ac_ext
if test -z "$aix_libpath"; then aix_libpath="/usr/lib:/lib"; fi

    hardcode_libdir_flag_spec='${wl}-blibpath:$libdir:"$aix_libpath"
    # Warning - without using the other run time loading flags,
    # -berok will link without error, but may produce a broken
library.
    no_undefined_flag=' ${wl}-bernotok'
    allow_undefined_flag=' ${wl}-berok'
    # Exported symbols can be pulled into shared objects from
archives

```



```

    whole_archive_flag_spec='$convenience'
    archive_cmds_need_lc=yes
    # This is similar to how AIX traditionally builds its shared
libraries.
    archive_expsym_cmds="\$CC $shared_flag" -o
$output_objdir/$soname $libobjs $deplibs ${wl}-bnoentry $compiler_flags
${wl}-bE:$export_symbols${allow_undefined_flag}~$AR $AR_FLAGS
$output_objdir/$libname$release.a $output_objdir/$soname'
    fi
    fi
    ;;

amigaos*)
    archive_cmds='$rm $output_objdir/a2ixlibrary.data~$echo "#define
NAME $libname" > $output_objdir/a2ixlibrary.data~$echo "#define
LIBRARY_ID 1" >> $output_objdir/a2ixlibrary.data~$echo "#define VERSION
$major" >> $output_objdir/a2ixlibrary.data~$echo "#define REVISION
$revision" >> $output_objdir/a2ixlibrary.data~$AR $AR_FLAGS $lib
$libobjs~$RANLIB $lib~(cd $output_objdir && a2ixlibrary -32)'
    hardcode_libdir_flag_spec='-L$libdir'
    hardcode_minus_L=yes
    # see comment about different semantics on the GNU ld section
    ld_shlibs=no
    ;;

bsdi[45]*)
    export_dynamic_flag_spec=-rdynamic
    ;;

cygwin* | mingw* | pw32*)
    # When not using gcc, we currently assume that we are using
    # Microsoft Visual C++.
    # hardcode_libdir_flag_spec is actually meaningless, as there is
    # no search path for DLLs.
    hardcode_libdir_flag_spec=' '
    allow_undefined_flag=unsupported
    # Tell ltmain to make .lib files, not .a files.
    libext=lib
    # Tell ltmain to make .dll files, not .so files.
    shrext_cmds=".dll"
    # FIXME: Setting linknames here is a bad hack.
    archive_cmds='$CC -o $lib $libobjs $compiler_flags `echo "$deplibs"
| $SED -e '\''s/ -lc$/ -lcs/'\`` -link -dll~linknames='
    # The linker will automatically build a .lib file if we build a
DLL.
    old_archive_From_new_cmds='true'
    # FIXME: Should let the user specify the lib program.
    old_archive_cmds='lib /OUT:$oldlib$oldobjs$old_deplibs'
    fix_srcfile_path='`cygpath -w "$srcfile"`'
    enable_shared_with_static_runtimes=yes
    ;;

darwin* | rhapsody*)
    case $host_os in

```

```

rhapsody* | darwin1.[012])
    allow_undefined_flag='${wl}-undefined ${wl}suppress'
    ;;
*) # Darwin 1.3 on
    if test -z ${MACOSX_DEPLOYMENT_TARGET} ; then
        allow_undefined_flag='${wl}-flat_namespace ${wl}-undefined
${wl}suppress'
    else
        case ${MACOSX_DEPLOYMENT_TARGET} in
            10.[012])
                allow_undefined_flag='${wl}-flat_namespace ${wl}-undefined
${wl}suppress'
            ;;
            10.*)
                allow_undefined_flag='${wl}-undefined ${wl}dynamic_lookup'
            ;;
        esac
    fi
    ;;
esac
archive_cmds_need_lc=no
hardcode_direct=no
hardcode_automatic=yes
hardcode_shlibpath_var=unsupported
whole_archive_flag_spec=''
link_all_deplibs=yes
if test "$GCC" = yes ; then
    output_verbose_link_cmd='echo'
    archive_cmds='$CC -dynamiclib $allow_undefined_flag -o $lib
$libobjs $deplibs $compiler_flags -install_name $rpath/$soname
$verstring'
    module_cmds='$CC $allow_undefined_flag -o $lib -bundle $libobjs
$deplibs$compiler_flags'
    # Don't fix this by using the ld -exported_symbols_list flag, it
    # doesn't exist in older darwin lds
    archive_expsym_cmds='sed -e "s,#.*,, " -e "s,^[ ]*,," -e
"s,^\(..*\),_&," < $export_symbols > $output_objdir/${libname}-
symbols.expsym~$CC -dynamiclib $allow_undefined_flag -o $lib $libobjs
$deplibs $compiler_flags -install_name $rpath/$soname $verstring~nmedit -
s $output_objdir/${libname}-symbols.expsym ${lib}'
    module_expsym_cmds='sed -e "s,#.*,, " -e "s,^[ ]*,," -e
"s,^\(..*\),_&," < $export_symbols > $output_objdir/${libname}-
symbols.expsym~$CC $allow_undefined_flag -o $lib -bundle $libobjs
$deplibs$compiler_flags~nmedit -s $output_objdir/${libname}-
symbols.expsym ${lib}'
else
    case $cc_basename in
        xlc*)
            output_verbose_link_cmd='echo'
            archive_cmds='$CC -qmksprobj $allow_undefined_flag -o $lib
$libobjs $deplibs $compiler_flags ${wl}-install_name ${wl}`echo
$rpath/$soname` $verstring'
            module_cmds='$CC $allow_undefined_flag -o $lib -bundle $libobjs
$deplibs$compiler_flags'
        *)
            ;;
    esac
fi

```

```

        # Don't fix this by using the ld -exported_symbols_list flag,
it doesn't exist in older darwin lds
        archive_expsym_cmds='sed -e "s,#.*,, " -e "s,^[ ]*,, " -e
"s,^\(..*\),_&," < $export_symbols > $output_objdir/${libname}-
symbols.expsym~$CC -qmksrobj $allow_undefined_flag -o $lib $libobjs
$deplibs $compiler_flags ${wl}-install_name ${wl}$rpath/$soname
$verstring~nmedit -s $output_objdir/${libname}-symbols.expsym ${lib}'
        module_expsym_cmds='sed -e "s,#.*,, " -e "s,^[ ]*,, " -e
"s,^\(..*\),_&," < $export_symbols > $output_objdir/${libname}-
symbols.expsym~$CC $allow_undefined_flag -o $lib -bundle $libobjs
$deplibs$compiler_flags~nmedit -s $output_objdir/${libname}-
symbols.expsym ${lib}'
        ;;
*)
        ld_shlibs=no
        ;;
esac
fi
;;

dgux*)
        archive_cmds='$LD -G -h $soname -o $lib $libobjs $deplibs
$linker_flags'
        hardcode_libdir_flag_spec='-L$libdir'
        hardcode_shlibpath_var=no
        ;;

freebsd1*)
        ld_shlibs=no
        ;;

# FreeBSD 2.2.[012] allows us to include c++rt0.o to get C++
constructor
# support. Future versions do this automatically, but an explicit
c++rt0.o
# does not break anything, and helps significantly (at the cost of a
little
# extra space).
freebsd2.2*)
        archive_cmds='$LD -Bshareable -o $lib $libobjs $deplibs
$linker_flags /usr/lib/c++rt0.o'
        hardcode_libdir_flag_spec='-R$libdir'
        hardcode_direct=yes
        hardcode_shlibpath_var=no
        ;;

# Unfortunately, older versions of FreeBSD 2 do not have this
feature.
freebsd2*)
        archive_cmds='$LD -Bshareable -o $lib $libobjs $deplibs
$linker_flags'
        hardcode_direct=yes
        hardcode_minus_L=yes
        hardcode_shlibpath_var=no

```

```

;;

# FreeBSD 3 and greater uses gcc -shared to do shared libraries.
freebsd* | kfreebsd*-gnu | dragonfly*)
    archive_cmds='$CC -shared -o $lib $libobjs $deplibs
$compiler_flags'
    hardcode_libdir_flag_spec='-R$libdir'
    hardcode_direct=yes
    hardcode_shlibpath_var=no
    ;;

hpux9*)
    if test "$GCC" = yes; then
        archive_cmds='$rm $output_objdir/$soname~$CC -shared -fPIC ${wl}+b
${wl}$install_libdir -o $output_objdir/$soname $libobjs $deplibs
$compiler_flags~test $output_objdir/$soname = $lib || mv
$output_objdir/$soname $lib'
    else
        archive_cmds='$rm $output_objdir/$soname~$LD -b +b $install_libdir
-o $output_objdir/$soname $libobjs $deplibs $linker_flags~test
$output_objdir/$soname = $lib || mv $output_objdir/$soname $lib'
    fi
    hardcode_libdir_flag_spec='${wl}+b ${wl}$libdir'
    hardcode_libdir_separator=:
    hardcode_direct=yes

    # hardcode_minus_L: Not really in the search PATH,
    # but as the default location of the library.
    hardcode_minus_L=yes
    export_dynamic_flag_spec='${wl}-E'
    ;;

hpux10*)
    if test "$GCC" = yes -a "$with_gnu_ld" = no; then
        archive_cmds='$CC -shared -fPIC ${wl}+h ${wl}$soname ${wl}+b
${wl}$install_libdir -o $lib $libobjs $deplibs $compiler_flags'
    else
        archive_cmds='$LD -b +h $soname +b $install_libdir -o $lib $libobjs
$deplibs $linker_flags'
    fi
    if test "$with_gnu_ld" = no; then
        hardcode_libdir_flag_spec='${wl}+b ${wl}$libdir'
        hardcode_libdir_separator=:

        hardcode_direct=yes
        export_dynamic_flag_spec='${wl}-E'

        # hardcode_minus_L: Not really in the search PATH,
        # but as the default location of the library.
        hardcode_minus_L=yes
    fi
    ;;

hpux11*)

```

```

    if test "$GCC" = yes -a "$with_gnu_ld" = no; then
    case $host_cpu in
    hppa*64*)
        archive_cmds='$CC -shared ${wl}+h ${wl}$soname -o $lib $libobjs
$deplibs $compiler_flags'
        ;;
    ia64*)
        archive_cmds='$CC -shared ${wl}+h ${wl}$soname
${wl}+nodefaulttrpath -o $lib $libobjs $deplibs $compiler_flags'
        ;;
    *)
        archive_cmds='$CC -shared -fPIC ${wl}+h ${wl}$soname ${wl}+b
${wl}$install_libdir -o $lib $libobjs $deplibs $compiler_flags'
        ;;
    esac
    else
    case $host_cpu in
    hppa*64*)
        archive_cmds='$CC -b ${wl}+h ${wl}$soname -o $lib $libobjs
$deplibs $compiler_flags'
        ;;
    ia64*)
        archive_cmds='$CC -b ${wl}+h ${wl}$soname ${wl}+nodefaulttrpath -o
$lib $libobjs $deplibs $compiler_flags'
        ;;
    *)
        archive_cmds='$CC -b ${wl}+h ${wl}$soname ${wl}+b
${wl}$install_libdir -o $lib $libobjs $deplibs $compiler_flags'
        ;;
    esac
    fi
    if test "$with_gnu_ld" = no; then
    hardcode_libdir_flag_spec='${wl}+b ${wl}$libdir'
    hardcode_libdir_separator=:

    case $host_cpu in
    hppa*64*|ia64*)
        hardcode_libdir_flag_spec_ld='+b $libdir'
        hardcode_direct=no
        hardcode_shlibpath_var=no
        ;;
    *)
        hardcode_direct=yes
        export_dynamic_flag_spec='${wl}-E'

        # hardcode_minus_L: Not really in the search PATH,
        # but as the default location of the library.
        hardcode_minus_L=yes
        ;;
    esac
    fi
    ;;
    irix5* | irix6* | nonstopux*)

```

```

        if test "$GCC" = yes; then
            archive_cmds='$CC -shared $libobjs $deplibs $compiler_flags ${wl}-
soname ${wl}$soname `test -n "$verstring" && echo ${wl}-set_version
${wl}$verstring` ${wl}-update_registry ${wl}${output_objdir}/so_locations
-o $lib'
            else
                archive_cmds='$LD -shared $libobjs $deplibs $linker_flags -soname
$soname `test -n "$verstring" && echo -set_version $verstring` -
update_registry ${output_objdir}/so_locations -o $lib'
                hardcode_libdir_flag_spec_ld='-rpath $libdir'
                fi
                hardcode_libdir_flag_spec='${wl}-rpath ${wl}$libdir'
                hardcode_libdir_separator=:
                link_all_deplibs=yes
                ;;

netbsd*)
    if echo __ELF__ | $CC -E - | grep __ELF__ >/dev/null; then
        archive_cmds='$LD -Bshareable -o $lib $libobjs $deplibs
$linker_flags' # a.out
    else
        archive_cmds='$LD -shared -o $lib $libobjs $deplibs $linker_flags'
# ELF
        fi
        hardcode_libdir_flag_spec='-R$libdir'
        hardcode_direct=yes
        hardcode_shlibpath_var=no
        ;;

newsos6)
    archive_cmds='$LD -G -h $soname -o $lib $libobjs $deplibs
$linker_flags'
    hardcode_direct=yes
    hardcode_libdir_flag_spec='${wl}-rpath ${wl}$libdir'
    hardcode_libdir_separator=:
    hardcode_shlibpath_var=no
    ;;

openbsd*)
    hardcode_direct=yes
    hardcode_shlibpath_var=no
    if test -z "`echo __ELF__ | $CC -E - | grep __ELF__`" || test
"$host_os-$host_cpu" = "openbsd2.8-powerpc"; then
        archive_cmds='$CC -shared $pic_flag -o $lib $libobjs $deplibs
$compiler_flags'
        archive_expsym_cmds='$CC -shared $pic_flag -o $lib $libobjs
$deplibs $compiler_flags ${wl}-retain-symbols-file,$export_symbols'
        hardcode_libdir_flag_spec='${wl}-rpath,$libdir'
        export_dynamic_flag_spec='${wl}-E'
    else
        case $host_os in
            openbsd[01].* | openbsd2.[0-7] | openbsd2.[0-7].*)
                archive_cmds='$LD -Bshareable -o $lib $libobjs $deplibs
$linker_flags'

```

```

        hardcode_libdir_flag_spec='-R$libdir'
        ;;
*)
    archive_cmds='$CC -shared $pic_flag -o $lib $libobjs $deplibs
$compiler_flags'
    hardcode_libdir_flag_spec='${wl}-rpath,$libdir'
    ;;
esac
fi
;;

os2*)
    hardcode_libdir_flag_spec='-L$libdir'
    hardcode_minus_L=yes
    allow_undefined_flag=unsupported
    archive_cmds='$echo "LIBRARY $libname INITINSTANCE" >
$output_objdir/$libname.def~$echo "DESCRIPTION \"$libname\" " >>
$output_objdir/$libname.def~$echo DATA >>
$output_objdir/$libname.def~$echo " SINGLE NONSHARED" >>
$output_objdir/$libname.def~$echo EXPORTS >>
$output_objdir/$libname.def~emxexp $libobjs >>
$output_objdir/$libname.def~$CC -Zdll -Zcrtdll -o $lib $libobjs $deplibs
$compiler_flags $output_objdir/$libname.def'
    old_archive_From_new_cmds='emximp -o $output_objdir/$libname.a
$output_objdir/$libname.def'
    ;;

osf3*)
    if test "$GCC" = yes; then
        allow_undefined_flag=' ${wl}-expect_unresolved ${wl}\*'
        archive_cmds='$CC -shared${allow_undefined_flag} $libobjs $deplibs
$compiler_flags ${wl}-soname ${wl}$soname `test -n "$verstring" && echo
${wl}-set_version ${wl}$verstring` ${wl}-update_registry
${wl}${output_objdir}/so_locations -o $lib'
    else
        allow_undefined_flag=' -expect_unresolved \*'
        archive_cmds='$LD -shared${allow_undefined_flag} $libobjs $deplibs
$linker_flags -soname $soname `test -n "$verstring" && echo -set_version
$verstring` -update_registry ${output_objdir}/so_locations -o $lib'
    fi
    hardcode_libdir_flag_spec='${wl}-rpath ${wl}$libdir'
    hardcode_libdir_separator=:
    ;;

osf4* | osf5*)      # as osf3* with the addition of -msym flag
    if test "$GCC" = yes; then
        allow_undefined_flag=' ${wl}-expect_unresolved ${wl}\*'
        archive_cmds='$CC -shared${allow_undefined_flag} $libobjs $deplibs
$compiler_flags ${wl}-msym ${wl}-soname ${wl}$soname `test -n
"$verstring" && echo ${wl}-set_version ${wl}$verstring` ${wl}-
update_registry ${wl}${output_objdir}/so_locations -o $lib'
        hardcode_libdir_flag_spec='${wl}-rpath ${wl}$libdir'
    else
        allow_undefined_flag=' -expect_unresolved \*'

```

```

        archive_cmds='$LD -shared${allow_undefined_flag} $libobjs $deplibs
$linker_flags -msym -soname $soname `test -n "$verstring" && echo -
set_version $verstring` -update_registry ${output_objdir}/so_locations -o
$lib'

        archive_expsym_cmds='for i in `cat $export_symbols`; do printf "%s
%s\n" -exported_symbol "\$i" >> $lib.exp; done; echo "-hidden">>
$lib.exp~
        $LD -shared${allow_undefined_flag} -input $lib.exp $linker_flags
$libobjs $deplibs -soname $soname `test -n "$verstring" && echo -
set_version $verstring` -update_registry ${output_objdir}/so_locations -o
$lib~$rm $lib.exp'

# Both c and cxx compiler support -rpath directly
hardcode_libdir_flag_spec='-rpath $libdir'
fi
hardcode_libdir_separator=:
;;

solaris*)
    no_undefined_flag=' -z text'
    if test "$GCC" = yes; then
        wlarc='${wl}'
        archive_cmds='$CC -shared ${wl}-h ${wl}$soname -o $lib $libobjs
$deplibs $compiler_flags'
        archive_expsym_cmds='$echo "{ global:" > $lib.exp~cat
$export_symbols | $SED -e "s/\(.*\)/\1;/ " >> $lib.exp~$echo "local: *;
};" >> $lib.exp~
        $CC -shared ${wl}-M ${wl}$lib.exp ${wl}-h ${wl}$soname -o $lib
$libobjs $deplibs $compiler_flags~$rm $lib.exp'
        else
            wlarc=''
            archive_cmds='$LD -G${allow_undefined_flag} -h $soname -o $lib
$libobjs $deplibs $linker_flags'
            archive_expsym_cmds='$echo "{ global:" > $lib.exp~cat
$export_symbols | $SED -e "s/\(.*\)/\1;/ " >> $lib.exp~$echo "local: *;
};" >> $lib.exp~
            $LD -G${allow_undefined_flag} -M $lib.exp -h $soname -o $lib
$libobjs $deplibs $linker_flags~$rm $lib.exp'
        fi
        hardcode_libdir_flag_spec='-R$libdir'
        hardcode_shlibpath_var=no
        case $host_os in
            solaris2.[0-5] | solaris2.[0-5].*) ;;
            *)
                # The compiler driver will combine linker options so we
                # cannot just pass the convenience library names through
                # without $wl, iff we do not link with $LD.
                # Luckily, gcc supports the same syntax we need for Sun Studio.
                # Supported since Solaris 2.6 (maybe 2.5.1?)
                case $wlarc in
                    '')
                        whole_archive_flag_spec='-z alleextract$convenience -z
defaultextract' ;;
                *)

```



```

        whole_archive_flag_spec='${wl}-z ${wl}alleextract`for conv in
$convenience\`\`; do test -n \`${conv}\` &&
new_convenience=\`${new_convenience,$conv}\`; done; $echo
\`${new_convenience}\` \`${wl}-z ${wl}defaultextract' ;;
    esac ;;
    esac
    link_all_deplibs=yes
    ;;

sunos4*)
    if test "x$host_vendor" = xsequent; then
        # Use $CC to link under sequent, because it throws in some extra .o
        # files that make .init and .fini sections work.
        archive_cmds='$CC -G ${wl}-h $soname -o $lib $libobjs $deplibs
$compiler_flags'
    else
        archive_cmds='$LD -assert pure-text -Bstatic -o $lib $libobjs
$deplibs $linker_flags'
    fi
    hardcode_libdir_flag_spec='-L$libdir'
    hardcode_direct=yes
    hardcode_minus_L=yes
    hardcode_shlibpath_var=no
    ;;

sysv4)
    case $host_vendor in
        sni)
            archive_cmds='$LD -G -h $soname -o $lib $libobjs $deplibs
$linker_flags'
            hardcode_direct=yes # is this really true???
            ;;
        siemens)
            ## LD is ld it makes a PLAMLIB
            ## CC just makes a GrossModule.
            archive_cmds='$LD -G -o $lib $libobjs $deplibs $linker_flags'
            reload_cmds='$CC -r -o $output$reload_objs'
            hardcode_direct=no
            ;;
        motorola)
            archive_cmds='$LD -G -h $soname -o $lib $libobjs $deplibs
$linker_flags'
            hardcode_direct=no #Motorola manual says yes, but my tests say
they lie
            ;;
    esac
    runpath_var='LD_RUN_PATH'
    hardcode_shlibpath_var=no
    ;;

sysv4.3*)
    archive_cmds='$LD -G -h $soname -o $lib $libobjs $deplibs
$linker_flags'
    hardcode_shlibpath_var=no

```

```

export_dynamic_flag_spec='-Bexport'
;;

sysv4*MP*)
    if test -d /usr/nec; then
        archive_cmds='$LD -G -h $soname -o $lib $libobjs $deplibs
$linker_flags'
        hardcode_shlibpath_var=no
        runpath_var=LD_RUN_PATH
        hardcode_runpath_var=yes
        ld_shlibs=yes
    fi
    ;;

sysv4*uw2* | sysv5OpenUNIX* | sysv5UnixWare7.[01].[10]* | unixware7*)
    no_undefined_flag='${wl}-z,text'
    archive_cmds_need_lc=no
    hardcode_shlibpath_var=no
    runpath_var='LD_RUN_PATH'

    if test "$GCC" = yes; then
        archive_cmds='$CC -shared ${wl}-h,$soname -o $lib $libobjs $deplibs
$compiler_flags'
        archive_expsym_cmds='$CC -shared ${wl}-Bexport:$export_symbols
${wl}-h,$soname -o $lib $libobjs $deplibs $compiler_flags'
    else
        archive_cmds='$CC -G ${wl}-h,$soname -o $lib $libobjs $deplibs
$compiler_flags'
        archive_expsym_cmds='$CC -G ${wl}-Bexport:$export_symbols ${wl}-
h,$soname -o $lib $libobjs $deplibs $compiler_flags'
    fi
    ;;

sysv5* | sco3.2v5* | sco5v6*)
    # Note: We can NOT use -z defs as we might desire, because we do
not
    # link with -lc, and that would cause any symbols used from libc to
    # always be unresolved, which means just about no library would
    # ever link correctly.  If we're not using GNU ld we use -z text
    # though, which does catch some bad symbols but isn't as heavy-
handed
    # as -z defs.
    no_undefined_flag='${wl}-z,text'
    allow_undefined_flag='${wl}-z,nodefs'
    archive_cmds_need_lc=no
    hardcode_shlibpath_var=no
    hardcode_libdir_flag_spec='`test -z "$SCOABSPATH" && echo ${wl}-
R,$libdir`'
    hardcode_libdir_separator=':'
    link_all_deplibs=yes
    export_dynamic_flag_spec='${wl}-Bexport'
    runpath_var='LD_RUN_PATH'

    if test "$GCC" = yes; then

```

```

        archive_cmds='$CC -shared ${wl}-
h,\${SCOABSPATH:+\${install_libdir}/}$soname -o $lib $libobjs $deplibs
$compiler_flags'
        archive_expsym_cmds='$CC -shared ${wl}-Bexport:$export_symbols
${wl}-h,\${SCOABSPATH:+\${install_libdir}/}$soname -o $lib $libobjs
$deplibs $compiler_flags'
        else
        archive_cmds='$CC -G ${wl}-
h,\${SCOABSPATH:+\${install_libdir}/}$soname -o $lib $libobjs $deplibs
$compiler_flags'
        archive_expsym_cmds='$CC -G ${wl}-Bexport:$export_symbols ${wl}-
h,\${SCOABSPATH:+\${install_libdir}/}$soname -o $lib $libobjs $deplibs
$compiler_flags'
        fi
        ;;

uts4*)
        archive_cmds='$LD -G -h $soname -o $lib $libobjs $deplibs
$linker_flags'
        hardcode_libdir_flag_spec='-L$libdir'
        hardcode_shlibpath_var=no
        ;;

*)
        ld_shlibs=no
        ;;
esac
fi

echo "$as_me:$LINENO: result: $ld_shlibs" >&5
echo "${ECHO_T}$ld_shlibs" >&6
test "$ld_shlibs" = no && can_build_shared=no

#
# Do we need to explicitly link libc?
#
case "x$archive_cmds_need_lc" in
x|xyes)
        # Assume -lc should be added
        archive_cmds_need_lc=yes

        if test "$enable_shared" = yes && test "$GCC" = yes; then
                case $archive_cmds in
                *'~'*)
                        # FIXME: we may have to deal with multi-command sequences.
                        ;;
                '$CC '*))
                        # Test whether the compiler implicitly links with -lc since on some
                        # systems, -lgcc has to come before -lc. If gcc already passes -lc
                        # to ld, don't add -lc before -lgcc.
                        echo "$as_me:$LINENO: checking whether -lc should be explicitly
linked in" >&5
                        echo $ECHO_N "checking whether -lc should be explicitly linked in...
$ECHO_C" >&6

```

```

    $rm conftest*
    printf "$lt_simple_compile_test_code" > conftest.$ac_ext

    if { (eval echo "$as_me:$LINENO: \"$ac_compile\"" ) >&5
(eval $ac_compile) 2>&5
ac_status=$?
echo "$as_me:$LINENO: \ $? = $ac_status" >&5
(exit $ac_status); } 2>conftest.err; then
    soname=conftest
    lib=conftest
    libobjs=conftest.$ac_objext
    deplibs=
    wl=$lt_prog_compiler_wl
    pic_flag=$lt_prog_compiler_pic
    compiler_flags=-v
    linker_flags=-v
    verstring=
    output_objdir=.
    libname=conftest
    lt_save_allow_undefined_flag=$allow_undefined_flag
    allow_undefined_flag=
    if { (eval echo "$as_me:$LINENO: \"$archive_cmds 2\>\&1 \ | grep
\" -lc \" \>/dev/null 2\>\&1\"" ) >&5
(eval $archive_cmds 2\>\&1 \ | grep \" -lc \" \>/dev/null 2\>\&1) 2>&5
ac_status=$?
echo "$as_me:$LINENO: \ $? = $ac_status" >&5
(exit $ac_status); }
    then
        archive_cmds_need_lc=no
    else
        archive_cmds_need_lc=yes
    fi
    allow_undefined_flag=$lt_save_allow_undefined_flag
else
    cat conftest.err 1>&5
fi
    $rm conftest*
    echo "$as_me:$LINENO: result: $archive_cmds_need_lc" >&5
echo "${ECHO_T}$archive_cmds_need_lc" >&6
    ;;
esac
fi
;;
esac

echo "$as_me:$LINENO: checking dynamic linker characteristics" >&5
echo $ECHO_N "checking dynamic linker characteristics... $ECHO_C" >&6
library_names_spec=
libname_spec='lib$name'
soname_spec=
shrext_cmds=".so"
postinstall_cmds=
postuninstall_cmds=
finish_cmds=

```

```

finish_eval=
shlibpath_var=
shlibpath_overrides_runpath=unknown
version_type=none
dynamic_linker="$host_os ld.so"
sys_lib_dlsearch_path_spec="/lib /usr/lib"
if test "$GCC" = yes; then
  sys_lib_search_path_spec=`$CC -print-search-dirs | grep "^libraries:" |
$SED -e "s/^libraries://" -e "s,=,/,g"`
  if echo "$sys_lib_search_path_spec" | grep ';' >/dev/null ; then
    # if the path contains ";" then we assume it to be the separator
    # otherwise default to the standard path separator (i.e. ":") - it is
    # assumed that no part of a normal pathname contains ";" but that
should
    # okay in the real world where ";" in dirpaths is itself problematic.
    sys_lib_search_path_spec=`echo "$sys_lib_search_path_spec" | $SED -e
's;/ /g'`
  else
    sys_lib_search_path_spec=`echo "$sys_lib_search_path_spec" | $SED -e
"s/$PATH_SEPARATOR/ /g"`
  fi
else
  sys_lib_search_path_spec="/lib /usr/lib /usr/local/lib"
fi
need_lib_prefix=unknown
hardcode_into_libs=no

# when you set need_version to no, make sure it does not cause -
set_version
# flags to be left without arguments
need_version=unknown

case $host_os in
aix3*)
  version_type=linux
  library_names_spec='${libname}${release}${shared_ext}$versuffix
$libname.a'
  shlibpath_var=LIBPATH

  # AIX 3 has no versioning support, so we append a major version to the
name.
  soname_spec='${libname}${release}${shared_ext}$major'
  ;;

aix4* | aix5*)
  version_type=linux
  need_lib_prefix=no
  need_version=no
  hardcode_into_libs=yes
  if test "$host_cpu" = ia64; then
    # AIX 5 supports IA64
    library_names_spec='${libname}${release}${shared_ext}$major
${libname}${release}${shared_ext}$versuffix $libname${shared_ext}'
    shlibpath_var=LD_LIBRARY_PATH
  fi

```

```

else
  # With GCC up to 2.95.x, collect2 would create an import file
  # for dependence libraries. The import file would start with
  # the line `#! .' . This would cause the generated library to
  # depend on `.', always an invalid library. This was fixed in
  # development snapshots of GCC prior to 3.0.
  case $host_os in
    aix4 | aix4.[01] | aix4.[01].*)
      if { echo '#if __GNUC__ > 2 || (__GNUC__ == 2 && __GNUC_MINOR__ >=
97)'
          echo ' yes '
          echo '#endif'; } | ${CC} -E - | grep yes > /dev/null; then
        :
      else
        can_build_shared=no
      fi
    ;;
  esac
  # AIX (on Power*) has no versioning support, so currently we can not
  # hardcode correct
  # soname into executable. Probably we can add versioning support to
  # collect2, so additional links can be useful in future.
  if test "$aix_use_runtimelinking" = yes; then
    # If using run time linking (on AIX 4.2 or later) use lib<name>.so
    # instead of lib<name>.a to let people know that these are not
    # typical AIX shared libraries.
    library_names_spec='${libname}${release}${shared_ext}$versuffix
${libname}${release}${shared_ext}$major $libname${shared_ext}'
  else
    # We preserve .a as extension for shared libraries through AIX4.2
    # and later when we are not doing run time linking.
    library_names_spec='${libname}${release}.a $libname.a'
    soname_spec='${libname}${release}${shared_ext}$major'
  fi
  shlibpath_var=LIBPATH
fi
;;

amigaos*)
  library_names_spec='$libname.ixlibrary $libname.a'
  # Create ${libname}_ixlibrary.a entries in /sys/libs.
  finish_eval='for lib in `ls $libdir/*.ixlibrary 2>/dev/null`; do
libname=`$echo "X$lib" | $Xsed -e
'\''s%^\./\([^/]*\)\.ixlibrary$%\1%'\''`; test $rm
/sys/libs/${libname}_ixlibrary.a; $show "cd /sys/libs && $LN_S $lib
${libname}_ixlibrary.a"; cd /sys/libs && $LN_S $lib
${libname}_ixlibrary.a || exit 1; done'
  ;;

beos*)
  library_names_spec='${libname}${shared_ext}'
  dynamic_linker="$host_os ld.so"
  shlibpath_var=LIBRARY_PATH
  ;;

```

```

bsdi[45]*)
    version_type=linux
    need_version=no
    library_names_spec='${libname}${release}${shared_ext}$versuffix
${libname}${release}${shared_ext}$major $libname${shared_ext}'
    soname_spec='${libname}${release}${shared_ext}$major'
    finish_cmds='PATH="\$PATH:/sbin" ldconfig $libdir'
    shlibpath_var=LD_LIBRARY_PATH
    sys_lib_search_path_spec="/shlib /usr/lib /usr/X11/lib /usr/contrib/lib
/lib /usr/local/lib"
    sys_lib_dlsearch_path_spec="/shlib /usr/lib /usr/local/lib"
    # the default ld.so.conf also contains /usr/contrib/lib and
    # /usr/X11R6/lib (/usr/X11 is a link to /usr/X11R6), but let us allow
    # libtool to hard-code these into programs
    ;;

cygwin* | mingw* | pw32*)
    version_type=windows
    shrext_cmds=".dll"
    need_version=no
    need_lib_prefix=no

    case $GCC,$host_os in
    yes,cygwin* | yes,mingw* | yes,pw32*)
        library_names_spec='$libname.dll.a'
        # DLL is installed to $(libdir)/../bin by postinstall_cmds
        postinstall_cmds='base_file=`basename \${file}`~
        dlpath=`$SHELL 2>&1 -c '\''. $dir/\'''\${base_file}\'''\`i;echo
\${dlname}\'''\`~
        dldir=$destdir/`dirname \${dlpath}`~
        test -d \${dldir} || mkdir -p \${dldir}~
        $install_prog $dir/\${dlname} \${dldir}/\${dlname}~
        chmod a+x \${dldir}/\${dlname}'
        postuninstall_cmds='dldll=`$SHELL 2>&1 -c '\''. $file; echo
\${dlname}\'''\`~
        dlpath=$dir/\${dldll}~
        $rm \${dlpath}'
        shlibpath_overrides_runpath=yes

    case $host_os in
    cygwin*)
        # Cygwin DLLs use 'cyg' prefix rather than 'lib'
        soname_spec='`echo ${libname} | sed -e 's/^lib/cyg/'``echo
${release} | $SED -e 's/[.]/-/g'`${versuffix}${shared_ext}'
        sys_lib_search_path_spec="/usr/lib /lib/w32api /lib /usr/local/lib"
        ;;
    mingw*)
        # MinGW DLLs use traditional 'lib' prefix
        soname_spec='${libname}`echo ${release} | $SED -e 's/[.]/-
/g`${versuffix}${shared_ext}'
        sys_lib_search_path_spec=`$CC -print-search-dirs | grep
"^libraries:" | $SED -e "s/^libraries://" -e "s,=,/,g"`

```

```

        if echo "$sys_lib_search_path_spec" | grep '[c-zA-Z]:/'
>/dev/null; then
    # It is most probably a Windows format PATH printed by
    # mingw gcc, but we are running on Cygwin. Gcc prints its search
    # path with ; separators, and with drive letters. We can handle
the
    # drive letters (cygwin fileutils understands them), so leave
them,
    # especially as we might pass files found there to a mingw
objdump,
    # which wouldn't understand a cygwinified path. Ahh.
    sys_lib_search_path_spec=`echo "$sys_lib_search_path_spec" | $SED
-e 's/;/ /g'\`
    else
        sys_lib_search_path_spec=`echo "$sys_lib_search_path_spec" | $SED
-e "s/$PATH_SEPARATOR/ /g"\`
    fi
    ;;
pw32*)
    # pw32 DLLs use 'pw' prefix rather than 'lib'
    library_names_spec=`echo ${libname} | sed -e 's/^lib/pw/'`echo
${release} | $SED -e 's/[.]/-/g'`${versuffix}${shared_ext}'
    ;;
esac
;;

*)
    library_names_spec='${libname}`echo ${release} | $SED -e 's/[.]/-
/g'`${versuffix}${shared_ext} $libname.lib'
    ;;
esac
dynamic_linker='Win32 ld.exe'
# FIXME: first we should search . and the directory the executable is
in
shlibpath_var=PATH
;;

darwin* | rhapsody*)
dynamic_linker="$host_os dyld"
version_type=darwin
need_lib_prefix=no
need_version=no
library_names_spec='${libname}${release}${versuffix}$shared_ext
${libname}${release}${major}$shared_ext ${libname}$shared_ext'
soname_spec='${libname}${release}${major}$shared_ext'
shlibpath_overrides_runpath=yes
shlibpath_var=DYLD_LIBRARY_PATH
shrext_cmds='`test $.module = .yes && echo .so || echo .dylib`'
# Apple's gcc prints 'gcc -print-search-dirs' doesn't operate the same.
if test "$GCC" = yes; then
    sys_lib_search_path_spec=`$CC -print-search-dirs | tr "\n"
"$PATH_SEPARATOR" | sed -e 's/libraries:/libraries:/' | tr "@" "\n" |
grep "^libraries:" | sed -e "s/^libraries:/" -e "s,=,/,g" -e
"s,$PATH_SEPARATOR, ,g" -e "s,.*, & /lib /usr/lib /usr/local/lib,g"\`

```



```

else
    sys_lib_search_path_spec='/lib /usr/lib /usr/local/lib'
fi
sys_lib_dlsearch_path_spec='/usr/local/lib /lib /usr/lib'
;;

dgux*)
    version_type=linux
    need_lib_prefix=no
    need_version=no
    library_names_spec='${libname}${release}${shared_ext}$versuffix
${libname}${release}${shared_ext}$major $libname$shared_ext'
    soname_spec='${libname}${release}${shared_ext}$major'
    shlibpath_var=LD_LIBRARY_PATH
    ;;

freebsd1*)
    dynamic_linker=no
    ;;

kfreebsd*-gnu)
    version_type=linux
    need_lib_prefix=no
    need_version=no
    library_names_spec='${libname}${release}${shared_ext}$versuffix
${libname}${release}${shared_ext}$major ${libname}${shared_ext}'
    soname_spec='${libname}${release}${shared_ext}$major'
    shlibpath_var=LD_LIBRARY_PATH
    shlibpath_overrides_runpath=no
    hardcode_into_libs=yes
    dynamic_linker='GNU ld.so'
    ;;

freebsd* | dragonfly*)
    # DragonFly does not have aout.  When/if they implement a new
    # versioning mechanism, adjust this.
    if test -x /usr/bin/objformat; then
        objformat=`/usr/bin/objformat`
    else
        case $host_os in
            freebsd[123]*) objformat=aout ;;
            *) objformat=elf ;;
        esac
    fi
    version_type=freebsd-$objformat
    case $version_type in
        freebsd-elf*)
            library_names_spec='${libname}${release}${shared_ext}$versuffix
${libname}${release}${shared_ext} $libname${shared_ext}'
            need_version=no
            need_lib_prefix=no
            ;;
        freebsd-*)

```

```

        library_names_spec='${libname}${release}${shared_ext}$versuffix
${libname}${shared_ext}$versuffix'
        need_version=yes
        ;;
    esac
    shlibpath_var=LD_LIBRARY_PATH
    case $host_os in
    freebsd2*)
        shlibpath_overrides_runpath=yes
        ;;
    freebsd3.[01]* | freebsdelf3.[01]*)
        shlibpath_overrides_runpath=yes
        hardcode_into_libs=yes
        ;;
    freebsd3.[2-9]* | freebsdelf3.[2-9]* | \
    freebsd4.[0-5] | freebsdelf4.[0-5] | freebsd4.1.1 | freebsdelf4.1.1)
        shlibpath_overrides_runpath=no
        hardcode_into_libs=yes
        ;;
    freebsd*) # from 4.6 on
        shlibpath_overrides_runpath=yes
        hardcode_into_libs=yes
        ;;
    esac
    ;;

gnu*)
    version_type=linux
    need_lib_prefix=no
    need_version=no
    library_names_spec='${libname}${release}${shared_ext}$versuffix
${libname}${release}${shared_ext}${major} ${libname}${shared_ext}'
    soname_spec='${libname}${release}${shared_ext}$major'
    shlibpath_var=LD_LIBRARY_PATH
    hardcode_into_libs=yes
    ;;

hpux9* | hpux10* | hpux11*)
    # Give a soname corresponding to the major version so that dld.sl
    refuses to
    # link against other versions.
    version_type=sunos
    need_lib_prefix=no
    need_version=no
    case $host_cpu in
    ia64*)
        shrext_cmds='.so'
        hardcode_into_libs=yes
        dynamic_linker="$host_os dld.so"
        shlibpath_var=LD_LIBRARY_PATH
        shlibpath_overrides_runpath=yes # Unless +noenvvar is specified.
        library_names_spec='${libname}${release}${shared_ext}$versuffix
${libname}${release}${shared_ext}$major ${libname}${shared_ext}'
        soname_spec='${libname}${release}${shared_ext}$major'

```

```

    if test "X$HPUX_IA64_MODE" = X32; then
        sys_lib_search_path_spec="/usr/lib/hpux32 /usr/local/lib/hpux32
/usr/local/lib"
    else
        sys_lib_search_path_spec="/usr/lib/hpux64 /usr/local/lib/hpux64"
    fi
    sys_lib_dlsearch_path_spec=$sys_lib_search_path_spec
    ;;
hppa*64*)
    shrext_cmds='.sl'
    hardcode_into_libs=yes
    dynamic_linker="$host_os dld.sl"
    shlibpath_var=LD_LIBRARY_PATH # How should we handle SHLIB_PATH
    shlibpath_overrides_runpath=yes # Unless +noenvvar is specified.
    library_names_spec='${libname}${release}${shared_ext}$versuffix
${libname}${release}${shared_ext}$major ${libname}${shared_ext}'
    soname_spec='${libname}${release}${shared_ext}$major'
    sys_lib_search_path_spec="/usr/lib/pa20_64 /usr/ccs/lib/pa20_64"
    sys_lib_dlsearch_path_spec=$sys_lib_search_path_spec
    ;;
*)
    shrext_cmds='.sl'
    dynamic_linker="$host_os dld.sl"
    shlibpath_var=SHLIB_PATH
    shlibpath_overrides_runpath=no # +s is required to enable SHLIB_PATH
    library_names_spec='${libname}${release}${shared_ext}$versuffix
${libname}${release}${shared_ext}$major ${libname}${shared_ext}'
    soname_spec='${libname}${release}${shared_ext}$major'
    ;;
esac
# HP-UX runs *really* slowly unless shared libraries are mode 555.
postinstall_cmds='chmod 555 $lib'
;;

interix3*)
    version_type=linux
    need_lib_prefix=no
    need_version=no
    library_names_spec='${libname}${release}${shared_ext}$versuffix
${libname}${release}${shared_ext}$major ${libname}${shared_ext}'
    soname_spec='${libname}${release}${shared_ext}$major'
    dynamic_linker='Interix 3.x ld.so.1 (PE, like ELF)'
    shlibpath_var=LD_LIBRARY_PATH
    shlibpath_overrides_runpath=no
    hardcode_into_libs=yes
    ;;

irix5* | irix6* | nonstopux*)
    case $host_os in
        nonstopux*) version_type=nonstopux ;;
        *)
            if test "$lt_cv_prog_gnu_ld" = yes; then
                version_type=linux
            else

```

```

        version_type=irix
    fi ;;
esac
need_lib_prefix=no
need_version=no
soname_spec='${libname}${release}${shared_ext}$major'
library_names_spec='${libname}${release}${shared_ext}$versuffix
${libname}${release}${shared_ext}$major ${libname}${release}${shared_ext}
$libname${shared_ext}'
case $host_os in
    irix5* | nonstopux*)
        libsuff= shlibsuff=
        ;;
    *)
        case $LD in # libtool.m4 will add one of these switches to LD
*-32|*" -32 " | *-melf32bsmip|*" -melf32bsmip ")
            libsuff= shlibsuff= libmagic=32-bit;;
*-n32|*" -n32 " | *-melf32bmipn32|*" -melf32bmipn32 ")
            libsuff=32 shlibsuff=N32 libmagic=N32;;
*-64|*" -64 " | *-melf64bmip|*" -melf64bmip ")
            libsuff=64 shlibsuff=64 libmagic=64-bit;;
*) libsuff= shlibsuff= libmagic=never-match;;
        esac
        ;;
    esac
shlibpath_var=LD_LIBRARY${shlibsuff}_PATH
shlibpath_overrides_runpath=no
sys_lib_search_path_spec="/usr/lib${libsuff} /lib${libsuff}
/usr/local/lib${libsuff}"
sys_lib_dlsearch_path_spec="/usr/lib${libsuff} /lib${libsuff}"
hardcode_into_libs=yes
;;

# No shared lib support for Linux oldld, aout, or coff.
linux*oldld* | linux*aout* | linux*coff*)
    dynamic_linker=no
    ;;

# This must be Linux ELF.
linux*)
    version_type=linux
    need_lib_prefix=no
    need_version=no
    library_names_spec='${libname}${release}${shared_ext}$versuffix
${libname}${release}${shared_ext}$major $libname${shared_ext}'
    soname_spec='${libname}${release}${shared_ext}$major'
    finish_cmds='PATH="\$PATH:/sbin" ldconfig -n $libdir'
    shlibpath_var=LD_LIBRARY_PATH
    shlibpath_overrides_runpath=no
    # This implies no fast_install, which is unacceptable.
    # Some rework will be needed to allow for fast_install
    # before this can be enabled.
    hardcode_into_libs=yes

```

```

# find out which ABI we are using
libsuff=
case "$host_cpu" in
x86_64*|s390x*|powerpc64*)
    echo '#line 8359 "configure"' > conftest.$ac_ext
    if { (eval echo "$as_me:$LINENO: \"$ac_compile\"" >&5
(eval $ac_compile) 2>&5
ac_status=$?
echo "$as_me:$LINENO: \ $? = $ac_status" >&5
(exit $ac_status); }; then
        case ` /usr/bin/file conftest.$ac_objext ` in
        *64-bit*)
            libsuff=64
            sys_lib_search_path_spec="/lib${libsuff} /usr/lib${libsuff}
/usr/local/lib${libsuff}"
            ;;
        esac
    fi
    rm -rf conftest*
    ;;
esac

# Append ld.so.conf contents to the search path
if test -f /etc/ld.so.conf; then
    lt_ld_extra=`awk '/^include / { system(sprintf("cd /etc; cat %s",
\S2)); skip = 1; } { if (!skip) print \$0; skip = 0; }' < /etc/ld.so.conf
| $SED -e 's/#.*//;s/[:,]//g;s/=[^=]*$//;s/=[^= ]* //g;/^$/d' | tr
'\n' ' ' `
    sys_lib_dlsearch_path_spec="/lib${libsuff} /usr/lib${libsuff}
$lt_ld_extra"
fi

# We used to test for /lib/ld.so.1 and disable shared libraries on
# powerpc, because MkLinux only supported shared libraries with the
# GNU dynamic linker. Since this was broken with cross compilers,
# most powerpc-linux boxes support dynamic linking these days and
# people can always --disable-shared, the test was removed, and we
# assume the GNU/Linux dynamic linker is in use.
dynamic_linker='GNU/Linux ld.so'
;;

knetbsd*-gnu)
    version_type=linux
    need_lib_prefix=no
    need_version=no
    library_names_spec='${libname}${release}${shared_ext}$versuffix
${libname}${release}${shared_ext}$major ${libname}${shared_ext}'
    soname_spec='${libname}${release}${shared_ext}$major'
    shlibpath_var=LD_LIBRARY_PATH
    shlibpath_overrides_runpath=no
    hardcode_into_libs=yes
    dynamic_linker='GNU ld.so'
    ;;

```

```

netbsd*)
    version_type=sunos
    need_lib_prefix=no
    need_version=no
    if echo __ELF__ | $CC -E - | grep __ELF__ >/dev/null; then
        library_names_spec='${libname}${release}${shared_ext}$versuffix
${libname}${shared_ext}$versuffix'
        finish_cmds='PATH="\$PATH:/sbin" ldconfig -m $libdir'
        dynamic_linker='NetBSD (a.out) ld.so'
    else
        library_names_spec='${libname}${release}${shared_ext}$versuffix
${libname}${release}${shared_ext}$major ${libname}${shared_ext}'
        soname_spec='${libname}${release}${shared_ext}$major'
        dynamic_linker='NetBSD ld.elf_so'
    fi
    shlibpath_var=LD_LIBRARY_PATH
    shlibpath_overrides_runpath=yes
    hardcode_into_libs=yes
    ;;

newsos6)
    version_type=linux
    library_names_spec='${libname}${release}${shared_ext}$versuffix
${libname}${release}${shared_ext}$major $libname${shared_ext}'
    shlibpath_var=LD_LIBRARY_PATH
    shlibpath_overrides_runpath=yes
    ;;

nto-qnx*)
    version_type=linux
    need_lib_prefix=no
    need_version=no
    library_names_spec='${libname}${release}${shared_ext}$versuffix
${libname}${release}${shared_ext}$major $libname${shared_ext}'
    soname_spec='${libname}${release}${shared_ext}$major'
    shlibpath_var=LD_LIBRARY_PATH
    shlibpath_overrides_runpath=yes
    ;;

openbsd*)
    version_type=sunos
    sys_lib_dlsearch_path_spec="/usr/lib"
    need_lib_prefix=no
    # Some older versions of OpenBSD (3.3 at least) *do* need versioned
libs.
    case $host_os in
        openbsd3.3 | openbsd3.3.*) need_version=yes ;;
        *) need_version=no ;;
    esac
    library_names_spec='${libname}${release}${shared_ext}$versuffix
${libname}${shared_ext}$versuffix'
    finish_cmds='PATH="\$PATH:/sbin" ldconfig -m $libdir'
    shlibpath_var=LD_LIBRARY_PATH

```

```

if test -z "`echo __ELF__ | $CC -E - | grep __ELF__`" || test
"$host_os-$host_cpu" = "openbsd2.8-powerpc"; then
    case $host_os in
        openbsd2.[89] | openbsd2.[89].*)
            shlibpath_overrides_runpath=no
            ;;
        *)
            shlibpath_overrides_runpath=yes
            ;;
    esac
else
    shlibpath_overrides_runpath=yes
fi
;;

os2*)
    libname_spec='$name'
    shrext_cmds=".dll"
    need_lib_prefix=no
    library_names_spec='$libname${shared_ext} $libname.a'
    dynamic_linker='OS/2 ld.exe'
    shlibpath_var=LIBPATH
    ;;

osf3* | osf4* | osf5*)
    version_type=osf
    need_lib_prefix=no
    need_version=no
    soname_spec='${libname}${release}${shared_ext}$major'
    library_names_spec='${libname}${release}${shared_ext}$versuffix
${libname}${release}${shared_ext}$major $libname${shared_ext}'
    shlibpath_var=LD_LIBRARY_PATH
    sys_lib_search_path_spec="/usr/shlib /usr/ccs/lib /usr/lib/cmplrs/cc
/usr/lib /usr/local/lib /var/shlib"
    sys_lib_dlsearch_path_spec="$sys_lib_search_path_spec"
    ;;

solaris*)
    version_type=linux
    need_lib_prefix=no
    need_version=no
    library_names_spec='${libname}${release}${shared_ext}$versuffix
${libname}${release}${shared_ext}$major $libname${shared_ext}'
    soname_spec='${libname}${release}${shared_ext}$major'
    shlibpath_var=LD_LIBRARY_PATH
    shlibpath_overrides_runpath=yes
    hardcode_into_libs=yes
    # ldd complains unless libraries are executable
    postinstall_cmds='chmod +x $lib'
    ;;

sunos4*)
    version_type=sunos

```

```

    library_names_spec='${libname}${release}${shared_ext}$versuffix
    ${libname}${shared_ext}$versuffix'
    finish_cmds='PATH="\$PATH:/usr/etc" ldconfig $libdir'
    shlibpath_var=LD_LIBRARY_PATH
    shlibpath_overrides_runpath=yes
    if test "$with_gnu_ld" = yes; then
        need_lib_prefix=no
    fi
    need_version=yes
;;

sysv4 | sysv4.3*)
    version_type=linux
    library_names_spec='${libname}${release}${shared_ext}$versuffix
    ${libname}${release}${shared_ext}$major $libname${shared_ext}'
    soname_spec='${libname}${release}${shared_ext}$major'
    shlibpath_var=LD_LIBRARY_PATH
    case $host_vendor in
        sni)
            shlibpath_overrides_runpath=no
            need_lib_prefix=no
            export_dynamic_flag_spec='${wl}-Blargedynsym'
            runpath_var=LD_RUN_PATH
            ;;
        siemens)
            need_lib_prefix=no
            ;;
        motorola)
            need_lib_prefix=no
            need_version=no
            shlibpath_overrides_runpath=no
            sys_lib_search_path_spec='/lib /usr/lib /usr/ccs/lib'
            ;;
    esac
;;

sysv4*MP*)
    if test -d /usr/nec ;then
        version_type=linux
        library_names_spec='$libname${shared_ext}.$versuffix
    $libname${shared_ext}.$major $libname${shared_ext}'
        soname_spec='$libname${shared_ext}.$major'
        shlibpath_var=LD_LIBRARY_PATH
    fi
;;

sysv5* | sco3.2v5* | sco5v6* | unixware* | OpenUNIX* | sysv4*uw2*)
    version_type=freebsd-elf
    need_lib_prefix=no
    need_version=no
    library_names_spec='${libname}${release}${shared_ext}$versuffix
    ${libname}${release}${shared_ext} $libname${shared_ext}'
    soname_spec='${libname}${release}${shared_ext}$major'
    shlibpath_var=LD_LIBRARY_PATH

```



```

hardcode_into_libs=yes
if test "$with_gnu_ld" = yes; then
    sys_lib_search_path_spec='/usr/local/lib /usr/gnu/lib /usr/ccs/lib
/usr/lib /lib'
    shlibpath_overrides_runpath=no
else
    sys_lib_search_path_spec='/usr/ccs/lib /usr/lib'
    shlibpath_overrides_runpath=yes
    case $host_os in
        sco3.2v5*)
            sys_lib_search_path_spec="$sys_lib_search_path_spec /lib"
            ;;
    esac
fi
sys_lib_dlsearch_path_spec='/usr/lib'
;;

uts4*)
    version_type=linux
    library_names_spec='${libname}${release}${shared_ext}$versuffix
${libname}${release}${shared_ext}$major $libname${shared_ext}'
    soname_spec='${libname}${release}${shared_ext}$major'
    shlibpath_var=LD_LIBRARY_PATH
    ;;

*)
    dynamic_linker=no
    ;;
esac
echo "$as_me:$LINENO: result: $dynamic_linker" >&5
echo "${ECHO_T}$dynamic_linker" >&6
test "$dynamic_linker" = no && can_build_shared=no

variables_saved_for_relink="PATH $shlibpath_var $runpath_var"
if test "$GCC" = yes; then
    variables_saved_for_relink="$variables_saved_for_relink GCC_EXEC_PREFIX
COMPILER_PATH LIBRARY_PATH"
fi

echo "$as_me:$LINENO: checking how to hardcode library paths into
programs" >&5
echo $ECHO_N "checking how to hardcode library paths into programs...
$ECHO_C" >&6
hardcode_action=
if test -n "$hardcode_libdir_flag_spec" || \
    test -n "$runpath_var" || \
    test "X$hardcode_automatic" = "Xyes" ; then

    # We can hardcode non-existent directories.
    if test "$hardcode_direct" != no &&
        # If the only mechanism to avoid hardcoding is shlibpath_var, we
        # have to relink, otherwise we might link with an installed library
        # when we should be linking with a yet-to-be-installed one
        ## test "$_LT_AC_TAGVAR(hardcode_shlibpath_var, )" != no &&

```

```

        test "$hardcode_minus_L" != no; then
        # Linking always hardcodes the temporary library directory.
        hardcode_action=relink
    else
        # We can link without hardcoding, and we can hardcode nonexisting
dirs.
        hardcode_action=immediate
    fi
else
    # We cannot hardcode anything, or else we can only hardcode existing
    # directories.
    hardcode_action=unsupported
fi
echo "$as_me:$LINENO: result: $hardcode_action" >&5
echo "${ECHO_T}$hardcode_action" >&6

if test "$hardcode_action" = relink; then
    # Fast installation is not supported
    enable_fast_install=no
elif test "$shlibpath_overrides_runpath" = yes ||
    test "$enable_shared" = no; then
    # Fast installation is not necessary
    enable_fast_install=needless
fi

striplib=
old_striplib=
echo "$as_me:$LINENO: checking whether stripping libraries is possible"
>&5
echo $ECHO_N "checking whether stripping libraries is possible...
$ECHO_C" >&6
if test -n "$STRIP" && $STRIP -V 2>&1 | grep "GNU strip" >/dev/null; then
    test -z "$old_striplib" && old_striplib="$STRIP --strip-debug"
    test -z "$striplib" && striplib="$STRIP --strip-unneeded"
    echo "$as_me:$LINENO: result: yes" >&5
    echo "${ECHO_T}yes" >&6
else
    # FIXME - insert some real tests, host_os isn't really good enough
    case $host_os in
        darwin*)
            if test -n "$STRIP" ; then
                striplib="$STRIP -x"
                echo "$as_me:$LINENO: result: yes" >&5
            echo "${ECHO_T}yes" >&6
            else
                echo "$as_me:$LINENO: result: no" >&5
            echo "${ECHO_T}no" >&6
        fi
        ;;
        *)
            echo "$as_me:$LINENO: result: no" >&5
            echo "${ECHO_T}no" >&6
        ;;
    esac

```

```

fi

if test "x$enable_dlopen" != xyes; then
  enable_dlopen=unknown
  enable_dlopen_self=unknown
  enable_dlopen_self_static=unknown
else
  lt_cv_dlopen=no
  lt_cv_dlopen_libs=

  case $host_os in
    beos*)
      lt_cv_dlopen="load_add_on"
      lt_cv_dlopen_libs=
      lt_cv_dlopen_self=yes
      ;;

    mingw* | pw32*)
      lt_cv_dlopen="LoadLibrary"
      lt_cv_dlopen_libs=
      ;;

    cygwin*)
      lt_cv_dlopen="dlopen"
      lt_cv_dlopen_libs=
      ;;

    darwin*)
      # if libdl is installed we need to link against it
      echo "$as_me:$LINENO: checking for dlopen in -ldl" >&5
      echo $ECHO_N "checking for dlopen in -ldl... $ECHO_C" >&6
      if test "${ac_cv_lib_dl_dlopen+set}" = set; then
        echo $ECHO_N "(cached) $ECHO_C" >&6
      else
        ac_check_lib_save_LIBS=$LIBS
        LIBS="-ldl $LIBS"
        cat >confptest.$ac_ext <<_ACEOF
        /* confdefs.h. */
        _ACEOF
        cat confdefs.h >>confptest.$ac_ext
        cat >>confptest.$ac_ext <<_ACEOF
        /* end confdefs.h. */

        /* Override any gcc2 internal prototype to avoid an error. */
        #ifdef __cplusplus
        extern "C"
        #endif
        /* We use char because int might match the return type of a gcc2
           builtin and then its argument prototype would still apply. */
        char dlopen ();
        int
        main ()
        {
          dlopen ();

```

```

;
return 0;
}
_ACEOF
rm -f confptest.$ac_objext confptest$ac_exeext
if { (eval echo "$as_me:$LINENO: \"$ac_link\"" ) >&5
      (eval $ac_link) 2>confptest.erl
      ac_status=$?
      grep -v '^ *+' confptest.erl >confptest.err
      rm -f confptest.erl
      cat confptest.err >&5
      echo "$as_me:$LINENO: \ $? = $ac_status" >&5
      (exit $ac_status); } &&
    { ac_try='test -z "$ac_c_werror_flag"
              || test ! -s confptest.err'
      { (eval echo "$as_me:$LINENO: \"$ac_try\"" ) >&5
        (eval $ac_try) 2>&5
        ac_status=$?
        echo "$as_me:$LINENO: \ $? = $ac_status" >&5
        (exit $ac_status); }; } &&
    { ac_try='test -s confptest$ac_exeext'
      { (eval echo "$as_me:$LINENO: \"$ac_try\"" ) >&5
        (eval $ac_try) 2>&5
        ac_status=$?
        echo "$as_me:$LINENO: \ $? = $ac_status" >&5
        (exit $ac_status); }; }; } then
  ac_cv_lib_dl_dlopen=yes
else
  echo "$as_me: failed program was:" >&5
  sed 's/^/| /' confptest.$ac_ext >&5

  ac_cv_lib_dl_dlopen=no
fi
rm -f confptest.err confptest.$ac_objext \
      confptest$ac_exeext confptest.$ac_ext
LIBS=$ac_check_lib_save_LIBS
fi
echo "$as_me:$LINENO: result: $ac_cv_lib_dl_dlopen" >&5
echo "${ECHO_T}$ac_cv_lib_dl_dlopen" >&6
if test $ac_cv_lib_dl_dlopen = yes; then
  lt_cv_dlopen="dlopen" lt_cv_dlopen_libs="-ldl"
else

  lt_cv_dlopen="dyld"
  lt_cv_dlopen_libs=
  lt_cv_dlopen_self=yes

fi

;;

*)
  echo "$as_me:$LINENO: checking for shl_load" >&5
  echo $ECHO_N "checking for shl_load... $ECHO_C" >&6

```

```

if test "${ac_cv_func_shl_load+set}" = set; then
    echo $ECHO_N "(cached) $ECHO_C" >&6
else
    cat >confptest.$ac_ext <<_ACEOF
/* confdefs.h. */
_ACEOF
cat confdefs.h >>confptest.$ac_ext
cat >>confptest.$ac_ext <<_ACEOF
/* end confdefs.h. */
/* Define shl_load to an innocuous variant, in case <limits.h> declares
shl_load.
   For example, HP-UX 11i <limits.h> declares gettimeofday. */
#define shl_load innocuous_shl_load

/* System header to define __stub macros and hopefully few prototypes,
   which can conflict with char shl_load (); below.
   Prefer <limits.h> to <assert.h> if __STDC__ is defined, since
   <limits.h> exists even on freestanding compilers. */

#ifdef __STDC__
# include <limits.h>
#else
# include <assert.h>
#endif

#undef shl_load

/* Override any gcc2 internal prototype to avoid an error. */
#ifdef __cplusplus
extern "C"
{
#endif
/* We use char because int might match the return type of a gcc2
   builtin and then its argument prototype would still apply. */
char shl_load ();
/* The GNU C library defines this for functions which it implements
   to always fail with ENOSYS. Some functions are actually named
   something starting with __ and the normal name is an alias. */
#ifdef defined (__stub_shl_load) || defined (__stub__shl_load)
choke me
#else
char (*f) () = shl_load;
#endif
#ifdef __cplusplus
}
#endif

int
main ()
{
return f != shl_load;
    ;
return 0;
}

```

```

_ACEOF
rm -f confptest.$ac_objext confptest$ac_exeext
if { (eval echo "$as_me:$LINENO: \"$ac_link\"" ) >&5
  (eval $ac_link) 2>confptest.er1
  ac_status=$?
  grep -v '^ *+' confptest.er1 >confptest.err
  rm -f confptest.er1
  cat confptest.err >&5
  echo "$as_me:$LINENO: \ $? = $ac_status" >&5
  (exit $ac_status); } &&
  { ac_try='test -z "$ac_c_werror_flag"
  || test ! -s confptest.err'
  { (eval echo "$as_me:$LINENO: \"$ac_try\"" ) >&5
  (eval $ac_try) 2>&5
  ac_status=$?
  echo "$as_me:$LINENO: \ $? = $ac_status" >&5
  (exit $ac_status); }; } &&
  { ac_try='test -s confptest$ac_exeext'
  { (eval echo "$as_me:$LINENO: \"$ac_try\"" ) >&5
  (eval $ac_try) 2>&5
  ac_status=$?
  echo "$as_me:$LINENO: \ $? = $ac_status" >&5
  (exit $ac_status); }; }; then
  ac_cv_func_shl_load=yes
else
  echo "$as_me: failed program was:" >&5
  sed 's/^/| /' confptest.$ac_ext >&5

  ac_cv_func_shl_load=no
fi
rm -f confptest.err confptest.$ac_objext \
  confptest$ac_exeext confptest.$ac_ext
fi
echo "$as_me:$LINENO: result: $ac_cv_func_shl_load" >&5
echo "${ECHO_T}$ac_cv_func_shl_load" >&6
if test $ac_cv_func_shl_load = yes; then
  lt_cv_dlopen="shl_load"
else
  echo "$as_me:$LINENO: checking for shl_load in -ldld" >&5
  echo $ECHO_N "checking for shl_load in -ldld... $ECHO_C" >&6
  if test "${ac_cv_lib_dld_shl_load+set}" = set; then
    echo $ECHO_N "(cached) $ECHO_C" >&6
  else
    ac_check_lib_save_LIBS=$LIBS
    LIBS="-ldld $LIBS"
    cat >confptest.$ac_ext <<_ACEOF
    /* confdefs.h. */
    _ACEOF
    cat confdefs.h >>confptest.$ac_ext
    cat >>confptest.$ac_ext <<_ACEOF
    /* end confdefs.h. */

    /* Override any gcc2 internal prototype to avoid an error. */
    #ifdef __cplusplus

```

```

extern "C"
#endif
/* We use char because int might match the return type of a gcc2
   builtin and then its argument prototype would still apply. */
char shl_load ();
int
main ()
{
shl_load ();
;
return 0;
}
_ACEOF
rm -f confptest.$ac_objext confptest$ac_exeext
if { (eval echo "$as_me:$LINENO: \"$ac_link\"" ) >&5
      (eval $ac_link) 2>confptest.er1
      ac_status=$?
      grep -v '^ *+' confptest.er1 >confptest.err
      rm -f confptest.er1
      cat confptest.err >&5
      echo "$as_me:$LINENO: \ $? = $ac_status" >&5
      (exit $ac_status); } &&
    { ac_try='test -z "$ac_c_werror_flag"
              || test ! -s confptest.err'
      { (eval echo "$as_me:$LINENO: \"$ac_try\"" ) >&5
        (eval $ac_try) 2>&5
        ac_status=$?
        echo "$as_me:$LINENO: \ $? = $ac_status" >&5
        (exit $ac_status); }; } &&
      { ac_try='test -s confptest$ac_exeext'
        { (eval echo "$as_me:$LINENO: \"$ac_try\"" ) >&5
          (eval $ac_try) 2>&5
          ac_status=$?
          echo "$as_me:$LINENO: \ $? = $ac_status" >&5
          (exit $ac_status); }; }; then
        ac_cv_lib_dld_shl_load=yes
      else
        echo "$as_me: failed program was:" >&5
        sed 's/^/| /' confptest.$ac_ext >&5

        ac_cv_lib_dld_shl_load=no
      fi
      rm -f confptest.err confptest.$ac_objext \
          confptest$ac_exeext confptest.$ac_ext
      LIBS=$ac_check_lib_save_LIBS
      fi
      echo "$as_me:$LINENO: result: $ac_cv_lib_dld_shl_load" >&5
      echo "${ECHO_T}$ac_cv_lib_dld_shl_load" >&6
      if test $ac_cv_lib_dld_shl_load = yes; then
        lt_cv_dlopen="shl_load" lt_cv_dlopen_libs="-dld"
      else
        echo "$as_me:$LINENO: checking for dlopen" >&5
        echo $ECHO_N "checking for dlopen... $ECHO_C" >&6
        if test "${ac_cv_func_dlopen+set}" = set; then

```

```

    echo $ECHO_N "(cached) $ECHO_C" >&6
else
    cat >confptest.$ac_ext <<_ACEOF
/* confdefs.h. */
_ACEOF
cat confdefs.h >>confptest.$ac_ext
cat >>confptest.$ac_ext <<_ACEOF
/* end confdefs.h. */
/* Define dlopen to an innocuous variant, in case <limits.h> declares
dlopen.
   For example, HP-UX 11i <limits.h> declares gettimeofday. */
#define dlopen innocuous_dlopen

/* System header to define __stub macros and hopefully few prototypes,
   which can conflict with char dlopen (); below.
   Prefer <limits.h> to <assert.h> if __STDC__ is defined, since
   <limits.h> exists even on freestanding compilers. */

#ifdef __STDC__
# include <limits.h>
#else
# include <assert.h>
#endif

#undef dlopen

/* Override any gcc2 internal prototype to avoid an error. */
#ifdef __cplusplus
extern "C"
{
#endif
/* We use char because int might match the return type of a gcc2
   builtin and then its argument prototype would still apply. */
char dlopen ();
/* The GNU C library defines this for functions which it implements
   to always fail with ENOSYS. Some functions are actually named
   something starting with __ and the normal name is an alias. */
#ifdef defined (__stub_dlopen) || defined (__stub___dlopen)
choke me
#else
char (*f) () = dlopen;
#endif
#ifdef __cplusplus
}
#endif

int
main ()
{
return f != dlopen;
;
return 0;
}
_ACEOF

```



```

rm -f confptest.$ac_objext confptest$ac_exeext
if { (eval echo "$as_me:$LINENO: \"$ac_link\"" ) >&5
  (eval $ac_link) 2>confptest.er1
  ac_status=$?
  grep -v '^ *+' confptest.er1 >confptest.err
  rm -f confptest.er1
  cat confptest.err >&5
  echo "$as_me:$LINENO: \ $? = $ac_status" >&5
  (exit $ac_status); } &&
  { ac_try='test -z "$ac_c_werror_flag"
  || test ! -s confptest.err'
  { (eval echo "$as_me:$LINENO: \"$ac_try\"" ) >&5
  (eval $ac_try) 2>&5
  ac_status=$?
  echo "$as_me:$LINENO: \ $? = $ac_status" >&5
  (exit $ac_status); }; } &&
  { ac_try='test -s confptest$ac_exeext'
  { (eval echo "$as_me:$LINENO: \"$ac_try\"" ) >&5
  (eval $ac_try) 2>&5
  ac_status=$?
  echo "$as_me:$LINENO: \ $? = $ac_status" >&5
  (exit $ac_status); }; }; then
  ac_cv_func_dlopen=yes
else
  echo "$as_me: failed program was:" >&5
  sed 's/^/| /' confptest.$ac_ext >&5

  ac_cv_func_dlopen=no
fi
rm -f confptest.err confptest.$ac_objext \
  confptest$ac_exeext confptest.$ac_ext
fi
echo "$as_me:$LINENO: result: $ac_cv_func_dlopen" >&5
echo "${ECHO_T}$ac_cv_func_dlopen" >&6
if test $ac_cv_func_dlopen = yes; then
  lt_cv_dlopen="dlopen"
else
  echo "$as_me:$LINENO: checking for dlopen in -ldl" >&5
  echo $ECHO_N "checking for dlopen in -ldl... $ECHO_C" >&6
  if test "${ac_cv_lib_dl_dlopen+set}" = set; then
    echo $ECHO_N "(cached) $ECHO_C" >&6
  else
    ac_check_lib_save_LIBS=$LIBS
    LIBS="-ldl $LIBS"
    cat >confptest.$ac_ext <<_ACEOF
    /* confdefs.h. */
    _ACEOF
    cat confdefs.h >>confptest.$ac_ext
    cat >>confptest.$ac_ext <<_ACEOF
    /* end confdefs.h. */

    /* Override any gcc2 internal prototype to avoid an error. */
    #ifdef __cplusplus
    extern "C"

```

```

#endif
/* We use char because int might match the return type of a gcc2
   builtin and then its argument prototype would still apply. */
char dlopen ();
int
main ()
{
dlopen ();
;
return 0;
}
_ACEOF
rm -f confptest.$ac_objext confptest$ac_exeext
if { (eval echo "$as_me:$LINENO: \"$ac_link\"" ) >&5
      (eval $ac_link) 2>confptest.er1
      ac_status=$?
      grep -v '^ *+' confptest.er1 >confptest.err
      rm -f confptest.er1
      cat confptest.err >&5
      echo "$as_me:$LINENO: \ $? = $ac_status" >&5
      (exit $ac_status); } &&
    { ac_try='test -z "$ac_c_werror_flag"
              || test ! -s confptest.err'
      { (eval echo "$as_me:$LINENO: \"$ac_try\"" ) >&5
        (eval $ac_try) 2>&5
        ac_status=$?
        echo "$as_me:$LINENO: \ $? = $ac_status" >&5
        (exit $ac_status); }; } &&
      { ac_try='test -s confptest$ac_exeext'
        { (eval echo "$as_me:$LINENO: \"$ac_try\"" ) >&5
          (eval $ac_try) 2>&5
          ac_status=$?
          echo "$as_me:$LINENO: \ $? = $ac_status" >&5
          (exit $ac_status); }; }; then
        ac_cv_lib_dl_dlopen=yes
      else
        echo "$as_me: failed program was:" >&5
        sed 's/^/| /' confptest.$ac_ext >&5

        ac_cv_lib_dl_dlopen=no
      fi
      rm -f confptest.err confptest.$ac_objext \
          confptest$ac_exeext confptest.$ac_ext
      LIBS=$ac_check_lib_save_LIBS
      fi
      echo "$as_me:$LINENO: result: $ac_cv_lib_dl_dlopen" >&5
      echo "${ECHO_T}$ac_cv_lib_dl_dlopen" >&6
      if test $ac_cv_lib_dl_dlopen = yes; then
        lt_cv_dlopen="dlopen" lt_cv_dlopen_libs="-ldl"
      else
        echo "$as_me:$LINENO: checking for dlopen in -lsvld" >&5
        echo $ECHO_N "checking for dlopen in -lsvld... $ECHO_C" >&6
        if test "${ac_cv_lib_svld_dlopen+set}" = set; then
          echo $ECHO_N "(cached) $ECHO_C" >&6

```

```

else
  ac_check_lib_save_LIBS=$LIBS
  LIBS="-lsvld $LIBS"
  cat >confptest.$_ac_ext <<_ACEOF
/* confdefs.h. */
_ACEOF
cat confdefs.h >>confptest.$_ac_ext
cat >>confptest.$_ac_ext <<_ACEOF
/* end confdefs.h. */

/* Override any gcc2 internal prototype to avoid an error. */
#ifdef __cplusplus
extern "C"
#endif
/* We use char because int might match the return type of a gcc2
   builtin and then its argument prototype would still apply. */
char dlopen ();
int
main ()
{
  dlopen ();
  ;
  return 0;
}
_ACEOF
rm -f confptest.$_ac_objext confptest$_ac_exeext
if { (eval echo "$as_me:$LINENO: \"$_ac_link\"" ) >&5
      (eval $_ac_link) 2>confptest.er1
      ac_status=$?
      grep -v '^ *+' confptest.er1 >confptest.err
      rm -f confptest.er1
      cat confptest.err >&5
      echo "$as_me:$LINENO: \$_? = $ac_status" >&5
      (exit $ac_status); } &&
  { ac_try='test -z "$ac_c_werror_flag"
            || test ! -s confptest.err'
    { (eval echo "$as_me:$LINENO: \"$_ac_try\"" ) >&5
      (eval $_ac_try) 2>&5
      ac_status=$?
      echo "$as_me:$LINENO: \$_? = $ac_status" >&5
      (exit $ac_status); }; } &&
  { ac_try='test -s confptest$_ac_exeext'
    { (eval echo "$as_me:$LINENO: \"$_ac_try\"" ) >&5
      (eval $_ac_try) 2>&5
      ac_status=$?
      echo "$as_me:$LINENO: \$_? = $ac_status" >&5
      (exit $ac_status); }; }; then
    ac_cv_lib_svld_dlopen=yes
  else
    echo "$as_me: failed program was:" >&5
    sed 's/^/| /' confptest.$_ac_ext >&5

ac_cv_lib_svld_dlopen=no
fi

```

```

rm -f confptest.err confptest.$ac_objext \
    confptest$ac_exeext confptest.$ac_ext
LIBS=$ac_check_lib_save_LIBS
fi
echo "$as_me:$LINENO: result: $ac_cv_lib_svld_dlopen" >&5
echo "${ECHO_T}$ac_cv_lib_svld_dlopen" >&6
if test $ac_cv_lib_svld_dlopen = yes; then
    lt_cv_dlopen="dlopen" lt_cv_dlopen_libs="-lsvld"
else
    echo "$as_me:$LINENO: checking for dld_link in -ldld" >&5
    echo $ECHO_N "checking for dld_link in -ldld... $ECHO_C" >&6
    if test "${ac_cv_lib_dld_dld_link+set}" = set; then
        echo $ECHO_N "(cached) $ECHO_C" >&6
    else
        ac_check_lib_save_LIBS=$LIBS
        LIBS="-ldld $LIBS"
        cat >confptest.$ac_ext <<_ACEOF
        /* confdefs.h. */
        _ACEOF
        cat confdefs.h >>confptest.$ac_ext
        cat >>confptest.$ac_ext <<_ACEOF
        /* end confdefs.h. */

        /* Override any gcc2 internal prototype to avoid an error. */
        #ifdef __cplusplus
        extern "C"
        #endif
        /* We use char because int might match the return type of a gcc2
           builtin and then its argument prototype would still apply. */
        char dld_link ();
        int
        main ()
        {
        dld_link ();
            ;
            return 0;
        }
        _ACEOF
rm -f confptest.$ac_objext confptest$ac_exeext
if { (eval echo "$as_me:$LINENO: \"$ac_link\"" >&5
    (eval $ac_link) 2>confptest.er1
    ac_status=$?
    grep -v '^ *+' confptest.er1 >confptest.err
    rm -f confptest.er1
    cat confptest.err >&5
    echo "$as_me:$LINENO: \ $? = $ac_status" >&5
    (exit $ac_status); } &&
    { ac_try='test -z "$ac_c_werror_flag"
    || test ! -s confptest.err'
    { (eval echo "$as_me:$LINENO: \"$ac_try\"" >&5
    (eval $ac_try) 2>&5
    ac_status=$?
    echo "$as_me:$LINENO: \ $? = $ac_status" >&5
    (exit $ac_status); }; } &&

```

```

        { ac_try='test -s conftest$ac_exeext'
        { (eval echo "$as_me:$LINENO: \"$ac_try\"" ) >&5
        (eval $ac_try) 2>&5
        ac_status=$?
        echo "$as_me:$LINENO: \ $? = $ac_status" >&5
        (exit $ac_status); }; }; then
        ac_cv_lib_dld_dld_link=yes
    else
        echo "$as_me: failed program was:" >&5
        sed 's/^/| /' conftest.$ac_ext >&5

ac_cv_lib_dld_dld_link=no
fi
rm -f conftest.err conftest.$ac_objext \
    conftest$ac_exeext conftest.$ac_ext
LIBS=$ac_check_lib_save_LIBS
fi
echo "$as_me:$LINENO: result: $ac_cv_lib_dld_dld_link" >&5
echo "${ECHO_T}$ac_cv_lib_dld_dld_link" >&6
if test $ac_cv_lib_dld_dld_link = yes; then
    lt_cv_dlopen="dld_link" lt_cv_dlopen_libs="-dld"
fi

fi

fi

fi

fi

fi

;;
esac

if test "x$lt_cv_dlopen" != xno; then
    enable_dlopen=yes
else
    enable_dlopen=no
fi

case $lt_cv_dlopen in
dlopen)
    save_CPPFLAGS="$CPPFLAGS"
    test "x$ac_cv_header_dlfcn_h" = xyes && CPPFLAGS="$CPPFLAGS -
DHAVE_DLFCN_H"

    save_LDFLAGS="$LDFLAGS"

```

```

    wl=$lt_prog_compiler_wl eval LDFLAGS="\`$LDFLAGS
$export_dynamic_flag_spec`"

    save_LIBS="$LIBS"
    LIBS="$lt_cv_dlopen_libs $LIBS"

    echo "$as_me:$LINENO: checking whether a program can dlopen itself"
>&5
echo $ECHO_N "checking whether a program can dlopen itself... $ECHO_C"
>&6
if test "${lt_cv_dlopen_self+set}" = set; then
    echo $ECHO_N "(cached) $ECHO_C" >&6
else
    if test "$cross_compiling" = yes; then :
        lt_cv_dlopen_self=cross
    else
        lt_dlunknown=0; lt_dlno_uscore=1; lt_dlneed_uscore=2
        lt_status=$lt_dlunknown
        cat > conftest.$ac_ext <<EOF
#line 9256 "configure"
#include "confdefs.h"

#if HAVE_DLFCN_H
#include <dlfcn.h>
#endif

#include <stdio.h>

#ifdef RTLD_GLOBAL
# define LT_DLGLOBAL          RTLD_GLOBAL
#else
# ifdef DL_GLOBAL
#   define LT_DLGLOBAL          DL_GLOBAL
# else
#   define LT_DLGLOBAL          0
# endif
#endif

/* We may have to define LT_DLLAZY_OR_NOW in the command line if we
   find out it does not work in some platform. */
#ifndef LT_DLLAZY_OR_NOW
# ifdef RTLD_LAZY
#   define LT_DLLAZY_OR_NOW    RTLD_LAZY
# else
#   ifdef DL_LAZY
#     define LT_DLLAZY_OR_NOW    DL_LAZY
#   else
#     ifdef RTLD_NOW
#       define LT_DLLAZY_OR_NOW    RTLD_NOW
#     else
#       ifdef DL_NOW
#         define LT_DLLAZY_OR_NOWDL_NOW
#       else
#         define LT_DLLAZY_OR_NOW 0

```

```

#         endif
#         endif
#         endif
#     endif
#endif

#ifdef __cplusplus
extern "C" void exit (int);
#endif

void fnord() { int i=42;}
int main ()
{
    void *self = dlopen (0, LT_DLGLOBAL|LT_DLLAZY_OR_NOW);
    int status = $lt_dlunknown;

    if (self)
    {
        if (dlsym (self,"fnord"))          status = $lt_dlno_uscore;
        else if (dlsym( self,"_fnord")) status = $lt_dlneed_uscore;
        /* dlclose (self); */
    }
    else
        puts (dlerror ());

    exit (status);
}
EOF
if { (eval echo "$as_me:$LINENO: \"$ac_link\"" ) >&5
    (eval $ac_link) 2>&5
    ac_status=$?
    echo "$as_me:$LINENO: \$? = $ac_status" >&5
    (exit $ac_status); } && test -s conftest${ac_exeext} 2>/dev/null; then
    (./conftest; exit; ) >&5 2>/dev/null
    lt_status=$?
    case x$lt_status in
        x$lt_dlno_uscore) lt_cv_dlopen_self=yes ;;
        x$lt_dlneed_uscore) lt_cv_dlopen_self=yes ;;
        x$lt_dlunknown|x*) lt_cv_dlopen_self=no ;;
    esac
else :
    # compilation failed
    lt_cv_dlopen_self=no
fi
fi
rm -fr conftest*

fi
echo "$as_me:$LINENO: result: $lt_cv_dlopen_self" >&5
echo "${ECHO_T}$lt_cv_dlopen_self" >&6

    if test "x$lt_cv_dlopen_self" = xyes; then

```

```

        wl=$lt_prog_compiler_wl eval LDFLAGS="\`$LDFLAGS
$lt_prog_compiler_static\`"
        echo "$as_me:$LINENO: checking whether a statically linked program
can dlopen itself" >&5
echo $ECHO_N "checking whether a statically linked program can dlopen
itself... $ECHO_C" >&6
if test "${lt_cv_dlopen_self_static+set}" = set; then
    echo $ECHO_N "(cached) $ECHO_C" >&6
else
    if test "$cross_compiling" = yes; then :
        lt_cv_dlopen_self_static=cross
    else
        lt_dlunknown=0; lt_dlno_uscore=1; lt_dlneed_uscore=2
        lt_status=$lt_dlunknown
        cat > conftest.$ac_ext <<EOF
#line 9356 "configure"
#include "confdefs.h"

#if HAVE_DLFCN_H
#include <dlfcn.h>
#endif

#include <stdio.h>

#ifdef RTLD_GLOBAL
# define LT_DLGLOBAL          RTLD_GLOBAL
#else
# ifdef DL_GLOBAL
#   define LT_DLGLOBAL          DL_GLOBAL
# else
#   define LT_DLGLOBAL          0
# endif
#endif
#endif

/* We may have to define LT_DLLAZY_OR_NOW in the command line if we
   find out it does not work in some platform. */
#ifndef LT_DLLAZY_OR_NOW
# ifdef RTLD_LAZY
#   define LT_DLLAZY_OR_NOW    RTLD_LAZY
# else
#   ifdef DL_LAZY
#     define LT_DLLAZY_OR_NOW    DL_LAZY
#   else
#     ifdef RTLD_NOW
#       define LT_DLLAZY_OR_NOW    RTLD_NOW
#     else
#       ifdef DL_NOW
#         define LT_DLLAZY_OR_NOW    DL_NOW
#       else
#         define LT_DLLAZY_OR_NOW 0
#       endif
#     endif
#   endif
# endif
#endif
#endif

```



```

#endif

#ifdef __cplusplus
extern "C" void exit (int);
#endif

void fnord() { int i=42;}
int main ()
{
    void *self = dlopen (0, LT_DLGLOBAL|LT_DLLAZY_OR_NOW);
    int status = $lt_dlunknown;

    if (self)
    {
        if (dlsym (self,"fnord"))          status = $lt_dlno_uscore;
        else if (dlsym( self,"_fnord")) status = $lt_dlneed_uscore;
        /* dlclose (self); */
    }
    else
        puts (dlerror ());

    exit (status);
}
EOF
if { (eval echo "$as_me:$LINENO: \"$ac_link\"" ) >&5
    (eval $ac_link) 2>&5
    ac_status=$?
    echo "$as_me:$LINENO: \ $? = $ac_status" >&5
    (exit $ac_status); } && test -s conftest${ac_exeext} 2>/dev/null; then
    (./conftest; exit; ) >&5 2>/dev/null
    lt_status=$?
    case x$lt_status in
        x$lt_dlno_uscore) lt_cv_dlopen_self_static=yes ;;
        x$lt_dlneed_uscore) lt_cv_dlopen_self_static=yes ;;
        x$lt_dlunknown|x*) lt_cv_dlopen_self_static=no ;;
    esac
else :
    # compilation failed
    lt_cv_dlopen_self_static=no
fi
fi
rm -fr conftest*

fi
echo "$as_me:$LINENO: result: $lt_cv_dlopen_self_static" >&5
echo "${ECHO_T}$lt_cv_dlopen_self_static" >&6
fi

CPPFLAGS="$save_CPPFLAGS"
LDFLAGS="$save_LDFLAGS"
LIBS="$save_LIBS"
;;
esac

```

```

case $lt_cv_dlopen_self in
yes|no) enable_dlopen_self=$lt_cv_dlopen_self ;;
*) enable_dlopen_self=unknown ;;
esac

case $lt_cv_dlopen_self_static in
yes|no) enable_dlopen_self_static=$lt_cv_dlopen_self_static ;;
*) enable_dlopen_self_static=unknown ;;
esac
fi

# Report which library types will actually be built
echo "$as_me:$LINENO: checking if libtool supports shared libraries" >&5
echo $ECHO_N "checking if libtool supports shared libraries... $ECHO_C"
>&6
echo "$as_me:$LINENO: result: $scan_build_shared" >&5
echo "${ECHO_T}$scan_build_shared" >&6

echo "$as_me:$LINENO: checking whether to build shared libraries" >&5
echo $ECHO_N "checking whether to build shared libraries... $ECHO_C" >&6
test "$scan_build_shared" = "no" && enable_shared=no

# On AIX, shared libraries and static libraries use the same namespace,
and
# are all built from PIC.
case $host_os in
aix3*)
test "$enable_shared" = yes && enable_static=no
if test -n "$RANLIB"; then
archive_cmds="$archive_cmds~\${RANLIB} \${lib}"
postinstall_cmds='${RANLIB} \${lib}'
fi
;;

aix4* | aix5*)
if test "$host_cpu" != ia64 && test "$aix_use_runtimelinking" = no ;
then
test "$enable_shared" = yes && enable_static=no
fi
;;
esac
echo "$as_me:$LINENO: result: $enable_shared" >&5
echo "${ECHO_T}$enable_shared" >&6

echo "$as_me:$LINENO: checking whether to build static libraries" >&5
echo $ECHO_N "checking whether to build static libraries... $ECHO_C" >&6
# Make sure either enable_shared or enable_static is yes.
test "$enable_shared" = yes || enable_static=yes
echo "$as_me:$LINENO: result: $enable_static" >&5
echo "${ECHO_T}$enable_static" >&6

# The else clause should only fire when bootstrapping the

```

```

# libtool distribution, otherwise you forgot to ship ltmain.sh
# with your package, and you will get complaints that there are
# no rules to generate ltmain.sh.
if test -f "$ltmain"; then
  # See if we are running on zsh, and set the options which allow our
  commands through
  # without removal of \ escapes.
  if test -n "${ZSH_VERSION+set}" ; then
    setopt NO_GLOB_SUBST
  fi
  # Now quote all the things that may contain metacharacters while being
  # careful not to overquote the AC_SUBSTed values.  We take copies of
  the
  # variables and quote the copies for generation of the libtool script.
  for var in echo old_CC old_CFLAGS AR AR_FLAGS EGREP RANLIB LN_S LTCC
  LTCFLAGS NM \
    SED SHELL STRIP \
    libname_spec library_names_spec soname_spec extract_expsyms_cmds \
    old_striplib striplib file_magic_cmd finish_cmds finish_eval \
    deplibs_check_method reload_flag reload_cmds need_locks \
    lt_cv_sys_global_symbol_pipe lt_cv_sys_global_symbol_to_cdecl \
    lt_cv_sys_global_symbol_to_c_name_address \
    sys_lib_search_path_spec sys_lib_dlsearch_path_spec \
    old_postinstall_cmds old_postuninstall_cmds \
    compiler \
    CC \
    LD \
    lt_prog_compiler_wl \
    lt_prog_compiler_pic \
    lt_prog_compiler_static \
    lt_prog_compiler_no_builtin_flag \
    export_dynamic_flag_spec \
    thread_safe_flag_spec \
    whole_archive_flag_spec \
    enable_shared_with_static_runtimes \
    old_archive_cmds \
    old_archive_from_new_cmds \
    predep_objects \
    postdep_objects \
    predeps \
    postdeps \
    compiler_lib_search_path \
    archive_cmds \
    archive_expsym_cmds \
    postinstall_cmds \
    postuninstall_cmds \
    old_archive_from_expsyms_cmds \
    allow_undefined_flag \
    no_undefined_flag \
    export_symbols_cmds \
    hardcode_libdir_flag_spec \
    hardcode_libdir_flag_spec_ld \
    hardcode_libdir_separator \
    hardcode_automatic \

```

```

module_cmds \
module_expsym_cmds \
lt_cv_prog_compiler_c_o \
exclude_expsyms \
include_expsyms; do

case $var in
old_archive_cmds | \
old_archive_from_new_cmds | \
archive_cmds | \
archive_expsym_cmds | \
module_cmds | \
module_expsym_cmds | \
old_archive_from_expsyms_cmds | \
export_symbols_cmds | \
extract_expsyms_cmds | reload_cmds | finish_cmds | \
postinstall_cmds | postuninstall_cmds | \
old_postinstall_cmds | old_postuninstall_cmds | \
sys_lib_search_path_spec | sys_lib_dlsearch_path_spec)
# Double-quote double-evaled strings.
eval "lt_$var=\\\\"`$echo "X$$var" | $Xsed -e
"\$double_quote_subst" -e "\$sed_quote_subst" -e
"\$delay_variable_subst"\\`\\`"
;;
*)
eval "lt_$var=\\\\"`$echo "X$$var" | $Xsed -e
"\$sed_quote_subst"\\`\\`"
;;
esac
done

case $lt_echo in
*'`$0 --fallback-echo"`)
lt_echo=`$echo "X$lt_echo" | $Xsed -e 's/\\\\\\\\\\\\$0 --fallback-
echo"/$0 --fallback-echo"/'`
;;
esac

cfgfile="${ofile}T"
trap "$rm \"$cfgfile\"; exit 1" 1 2 15
$rm -f "$cfgfile"
{ echo "$as_me:$LINENO: creating $ofile" >&5
echo "$as_me: creating $ofile" >&6;}

cat <<__EOF__ >> "$cfgfile"
#! $SHELL

# `echo "$cfgfile" | sed 's%^.*/%%'` - Provide generalized library-
building support services.
# Generated automatically by $PROGRAM (GNU $PACKAGE $VERSION$TIMESTAMP)
# NOTE: Changes made to this file will be lost: look at ltmain.sh.
#
# Copyright (C) 1996, 1997, 1998, 1999, 2000, 2001
# Free Software Foundation, Inc.

```

```

#
# This file is part of GNU Libtool:
# Originally by Gordon Matzigkeit <gord@gnu.ai.mit.edu>, 1996
#
# This program is free software; you can redistribute it and/or modify
# it under the terms of the GNU General Public License as published by
# the Free Software Foundation; either version 2 of the License, or
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# 1301, USA.
#
# As a special exception to the GNU General Public License, if you
# distribute this file as part of a program that contains a
# configuration script generated by Autoconf, you may include it under
# the same distribution terms that you use for the rest of that program.

# A sed program that does not truncate output.
SED=$lt_SED

# Sed that helps us avoid accidentally triggering echo(1) options like -
# n.
Xsed="$SED -e 1s/^X//"

# The HP-UX ksh and POSIX shell print the target directory to stdout
# if CDPATH is set.
(unset CDPATH) >/dev/null 2>&1 && unset CDPATH

# The names of the tagged configurations supported by this script.
available_tags=

# ### BEGIN LIBTOOL CONFIG

# Libtool was configured on host `(hostname || uname -n) 2>/dev/null |
# sed 1q`:

# Shell to use when invoking shell scripts.
SHELL=$lt_SHELL

# Whether or not to build shared libraries.
build_libtool_libs=$enable_shared

# Whether or not to build static libraries.
build_old_libs=$enable_static

# Whether or not to add -lc for building shared libraries.
build_libtool_need_lc=$archive_cmds_need_lc

```

```

# Whether or not to disallow shared libs when runtime libs are static
allow_libtool_libs_with_static_runtimes=$enable_shared_with_static_runtimes

# Whether or not to optimize for fast installation.
fast_install=$enable_fast_install

# The host system.
host_alias=$host_alias
host=$host
host_os=$host_os

# The build system.
build_alias=$build_alias
build=$build
build_os=$build_os

# An echo program that does not interpret backslashes.
echo=$lt_echo

# The archiver.
AR=$lt_AR
AR_FLAGS=$lt_AR_FLAGS

# A C compiler.
LTCC=$lt_LTCC

# LTCC compiler flags.
LTCFLAGS=$lt_LTCFLAGS

# A language-specific compiler.
CC=$lt_compiler

# Is the compiler the GNU C compiler?
with_gcc=$GCC

# An ERE matcher.
EGREP=$lt_EGREP

# The linker used to build libraries.
LD=$lt_LD

# Whether we need hard or soft links.
LN_S=$lt_LN_S

# A BSD-compatible nm program.
NM=$lt_NM

# A symbol stripping program
STRIP=$lt_STRIP

# Used to examine libraries when file_magic_cmd begins "file"
MAGIC_CMD=$MAGIC_CMD

```

```

# Used on cygwin: DLL creation program.
DLLTOOL="$DLLTOOL"

# Used on cygwin: object dumper.
OBJDUMP="$OBJDUMP"

# Used on cygwin: assembler.
AS="$AS"

# The name of the directory that contains temporary libtool files.
objdir=$objdir

# How to create reloadable object files.
reload_flag=$lt_reload_flag
reload_cmds=$lt_reload_cmds

# How to pass a linker flag through the compiler.
wl=$lt_lt_prog_compiler_wl

# Object file suffix (normally "o").
objext="$ac_objext"

# Old archive suffix (normally "a").
libext="$libext"

# Shared library suffix (normally ".so").
shrext_cmds=' $shrext_cmds '

# Executable file suffix (normally "").
exeext="$exeext"

# Additional compiler flags for building library objects.
pic_flag=$lt_lt_prog_compiler_pic
pic_mode=$pic_mode

# What is the maximum length of a command?
max_cmd_len=$lt_cv_sys_max_cmd_len

# Does compiler simultaneously support -c and -o options?
compiler_c_o=$lt_lt_cv_prog_compiler_c_o

# Must we lock files when doing compilation?
need_locks=$lt_need_locks

# Do we need the lib prefix for modules?
need_lib_prefix=$need_lib_prefix

# Do we need a version for libraries?
need_version=$need_version

# Whether dlopen is supported.
dlopen_support=$enable_dlopen

```

```

# Whether dlopen of programs is supported.
dlopen_self=$enable_dlopen_self

# Whether dlopen of statically linked programs is supported.
dlopen_self_static=$enable_dlopen_self_static

# Compiler flag to prevent dynamic linking.
link_static_flag=$lt_lt_prog_compiler_static

# Compiler flag to turn off builtin functions.
no_builtin_flag=$lt_lt_prog_compiler_no_builtin_flag

# Compiler flag to allow reflexive dlopens.
export_dynamic_flag_spec=$lt_export_dynamic_flag_spec

# Compiler flag to generate shared objects directly from archives.
whole_archive_flag_spec=$lt_whole_archive_flag_spec

# Compiler flag to generate thread-safe objects.
thread_safe_flag_spec=$lt_thread_safe_flag_spec

# Library versioning type.
version_type=$version_type

# Format of library name prefix.
libname_spec=$lt_libname_spec

# List of archive names.  First name is the real one, the rest are links.
# The last name is the one that the linker finds with -lNAME.
library_names_spec=$lt_library_names_spec

# The coded name of the library, if different from the real name.
soname_spec=$lt_soname_spec

# Commands used to build and install an old-style archive.
RANLIB=$lt_RANLIB
old_archive_cmds=$lt_old_archive_cmds
old_postinstall_cmds=$lt_old_postinstall_cmds
old_postuninstall_cmds=$lt_old_postuninstall_cmds

# Create an old-style archive from a shared archive.
old_archive_from_new_cmds=$lt_old_archive_from_new_cmds

# Create a temporary old-style archive to link instead of a shared
archive.
old_archive_from_expsyms_cmds=$lt_old_archive_from_expsyms_cmds

# Commands used to build and install a shared archive.
archive_cmds=$lt_archive_cmds
archive_expsym_cmds=$lt_archive_expsym_cmds
postinstall_cmds=$lt_postinstall_cmds
postuninstall_cmds=$lt_postuninstall_cmds

```



```

# Commands used to build a loadable module (assumed same as above if
empty)
module_cmds=$lt_module_cmds
module_expsym_cmds=$lt_module_expsym_cmds

# Commands to strip libraries.
old_striplib=$lt_old_striplib
striplib=$lt_striplib

# Dependencies to place before the objects being linked to create a
# shared library.
predep_objects=$lt_predep_objects

# Dependencies to place after the objects being linked to create a
# shared library.
postdep_objects=$lt_postdep_objects

# Dependencies to place before the objects being linked to create a
# shared library.
predeps=$lt_predeps

# Dependencies to place after the objects being linked to create a
# shared library.
postdeps=$lt_postdeps

# The library search path used internally by the compiler when linking
# a shared library.
compiler_lib_search_path=$lt_compiler_lib_search_path

# Method to check whether dependent libraries are shared objects.
deplibs_check_method=$lt_deplibs_check_method

# Command to use when deplibs_check_method == file_magic.
file_magic_cmd=$lt_file_magic_cmd

# Flag that allows shared libraries with undefined symbols to be built.
allow_undefined_flag=$lt_allow_undefined_flag

# Flag that forces no undefined symbols.
no_undefined_flag=$lt_no_undefined_flag

# Commands used to finish a libtool library installation in a directory.
finish_cmds=$lt_finish_cmds

# Same as above, but a single script fragment to be eval'd but not shown.
finish_eval=$lt_finish_eval

# Take the output of nm and produce a listing of raw symbols and C names.
global_symbol_pipe=$lt_lt_cv_sys_global_symbol_pipe

# Transform the output of nm in a proper C declaration
global_symbol_to_cdecl=$lt_lt_cv_sys_global_symbol_to_cdecl

# Transform the output of nm in a C name address pair

```

```

global_symbol_to_c_name_address=$lt_lt_cv_sys_global_symbol_to_c_name_add
ress

# This is the shared library runtime path variable.
runpath_var=$runpath_var

# This is the shared library path variable.
shlibpath_var=$shlibpath_var

# Is shlibpath searched before the hard-coded library search path?
shlibpath_overrides_runpath=$shlibpath_overrides_runpath

# How to hardcode a shared library path into an executable.
hardcode_action=$hardcode_action

# Whether we should hardcode library paths into libraries.
hardcode_into_libs=$hardcode_into_libs

# Flag to hardcode \${libdir} into a binary during linking.
# This must work even if \${libdir} does not exist.
hardcode_libdir_flag_spec=$lt_hardcode_libdir_flag_spec

# If ld is used when linking, flag to hardcode \${libdir} into
# a binary during linking. This must work even if \${libdir} does
# not exist.
hardcode_libdir_flag_spec_ld=$lt_hardcode_libdir_flag_spec_ld

# Whether we need a single -rpath flag with a separated argument.
hardcode_libdir_separator=$lt_hardcode_libdir_separator

# Set to yes if using DIR/libNAME${shared_ext} during linking hardcodes
DIR into the
# resulting binary.
hardcode_direct=$hardcode_direct

# Set to yes if using the -LDIR flag during linking hardcodes DIR into
the
# resulting binary.
hardcode_minus_L=$hardcode_minus_L

# Set to yes if using SHLIBPATH_VAR=DIR during linking hardcodes DIR into
# the resulting binary.
hardcode_shlibpath_var=$hardcode_shlibpath_var

# Set to yes if building a shared library automatically hardcodes DIR
into the library
# and all subsequent libraries and executables linked against it.
hardcode_automatic=$hardcode_automatic

# Variables whose values should be saved in libtool wrapper scripts and
# restored at relink time.
variables_saved_for_relink="$variables_saved_for_relink"

```

```

# Whether libtool must link a program against all its dependency
libraries.
link_all_deplibs=$link_all_deplibs

# Compile-time system search path for libraries
sys_lib_search_path_spec=$lt_sys_lib_search_path_spec

# Run-time system search path for libraries
sys_lib_dlsearch_path_spec=$lt_sys_lib_dlsearch_path_spec

# Fix the shell variable \${srcfile} for the compiler.
fix_srcfile_path="$fix_srcfile_path"

# Set to yes if exported symbols are required.
always_export_symbols=$always_export_symbols

# The commands to list exported symbols.
export_symbols_cmds=$lt_export_symbols_cmds

# The commands to extract the exported symbol list from a shared archive.
extract_expsyms_cmds=$lt_extract_expsyms_cmds

# Symbols that should not be listed in the preloaded symbols.
exclude_expsyms=$lt_exclude_expsyms

# Symbols that must always be exported.
include_expsyms=$lt_include_expsyms

# ### END LIBTOOL CONFIG

__EOF__

case $host_os in
aix3*)
  cat <<\EOF >> "$cfgfile"

# AIX sometimes has problems with the GCC collect2 program.  For some
# reason, if we set the COLLECT_NAMES environment variable, the problems
# vanish in a puff of smoke.
if test "X${COLLECT_NAMES+set}" != Xset; then
  COLLECT_NAMES=
  export COLLECT_NAMES
fi
EOF
  ;;
esac

# We use sed instead of cat because bash on DJGPP gets confused if
# if finds mixed CR/LF and LF-only lines.  Since sed operates in
# text mode, it properly converts lines to CR/LF.  This bash problem
# is reportedly fixed, but why not run on old versions too?
sed '$q' "$ltmain" >> "$cfgfile" || (rm -f "$cfgfile"; exit 1)

```

```

mv -f "$cfgfile" "$ofile" || \
  (rm -f "$ofile" && cp "$cfgfile" "$ofile" && rm -f "$cfgfile")
chmod +x "$ofile"

else
# If there is no Makefile yet, we rely on a make rule to execute
# `config.status --recheck' to rerun these tests and create the
# libtool script then.
ltmain_in=`echo $ltmain | sed -e 's/\.sh$/\.in/'`
if test -f "$ltmain_in"; then
  test -f Makefile && make "$ltmain"
fi
fi

ac_ext=c
ac_cpp='$CPP $CPPFLAGS'
ac_compile='$CC -c $CFLAGS $CPPFLAGS conftest.$ac_ext >&5'
ac_link='$CC -o conftest$ac_exeext $CFLAGS $CPPFLAGS $LDFLAGS
conftest.$ac_ext $LIBS >&5'
ac_compiler_gnu=$ac_cv_c_compiler_gnu

CC="$lt_save_CC"

# Check whether --with-tags or --without-tags was given.
if test "${with_tags+set}" = set; then
  withval="$with_tags"
  tagnames="$withval"
fi;

if test -f "$ltmain" && test -n "$tagnames"; then
  if test ! -f "${ofile}"; then
    { echo "$as_me:$LINENO: WARNING: output file `'$ofile'` does not
exist" >&5
echo "$as_me: WARNING: output file `'$ofile'` does not exist" >&2;}
  fi

  if test -z "$LTCC"; then
    eval "`$SHELL ${ofile} --config | grep '^LTCC='`"
    if test -z "$LTCC"; then
      { echo "$as_me:$LINENO: WARNING: output file `'$ofile'` does not
look like a libtool script" >&5
echo "$as_me: WARNING: output file `'$ofile'` does not look like a libtool
script" >&2;}
    else
      { echo "$as_me:$LINENO: WARNING: using `'$LTCC=$LTCC'`, extracted
from `'$ofile'`" >&5
echo "$as_me: WARNING: using `'$LTCC=$LTCC'`, extracted from `'$ofile'`"
>&2;}
    fi
  fi

  if test -z "$LTCFLAGS"; then
    eval "`$SHELL ${ofile} --config | grep '^LTCFLAGS='`"

```

```

fi

# Extract list of available tagged configurations in $ofile.
# Note that this assumes the entire list is on one line.
available_tags=`grep "^available_tags=" "${ofile}" | $SED -e
's/available_tags=\(.*$\)\/\1/' -e 's/\\"//g'`

lt_save_ifs="$IFS"; IFS="${IFS}$PATH_SEPARATOR,"
for tagname in $tagnames; do
  IFS="$lt_save_ifs"
  # Check whether tagname contains only valid characters
  case `echo "X$tagname" | $Xsed -e 's:[-
_ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz1234567890,/]:g'`
in
  "") ;;
  *) { { echo "$as_me:$LINENO: error: invalid tag name: $tagname" >&5
echo "$as_me: error: invalid tag name: $tagname" >&2;}
{ (exit 1); exit 1; }; }
  ;;
esac

  if grep "^# ### BEGIN LIBTOOL TAG CONFIG: $tagname$" < "${ofile}" >
/dev/null
  then
    { { echo "$as_me:$LINENO: error: tag name \"$tagname\" already
exists" >&5
echo "$as_me: error: tag name \"$tagname\" already exists" >&2;}
{ (exit 1); exit 1; }; }
  fi

# Update the list of available tags.
if test -n "$tagname"; then
  echo appending configuration tag \"$tagname\" to $ofile

  case $tagname in
  CXX)
    if test -n "$CXX" && ( test "X$CXX" != "Xno" &&
      ( (test "X$CXX" = "Xg++" && `g++ -v >/dev/null 2>&1` ) ||
        (test "X$CXX" != "Xg++"))) ; then
      ac_ext=cc
      ac_cpp='$CXXCPP $CPPFLAGS'
      ac_compile='$CXX -c $CXXFLAGS $CPPFLAGS conftest.$ac_ext >&5'
      ac_link='$CXX -o conftest$ac_exeext $CXXFLAGS $CPPFLAGS $LDFLAGS
conftest.$ac_ext $LIBS >&5'
      ac_compiler_gnu=$ac_cv_cxx_compiler_gnu

archive_cmds_need_lc_CXX=no
allow_undefined_flag_CXX=
always_export_symbols_CXX=no
archive_expsym_cmds_CXX=
export_dynamic_flag_spec_CXX=

```

```

hardcode_direct_CXX=no
hardcode_libdir_flag_spec_CXX=
hardcode_libdir_flag_spec_ld_CXX=
hardcode_libdir_separator_CXX=
hardcode_minus_L_CXX=no
hardcode_shlibpath_var_CXX=unsupported
hardcode_automatic_CXX=no
module_cmds_CXX=
module_expsym_cmds_CXX=
link_all_deplibs_CXX=unknown
old_archive_cmds_CXX=$old_archive_cmds
no_undefined_flag_CXX=
whole_archive_flag_spec_CXX=
enable_shared_with_static_runtimes_CXX=no

# Dependencies to place before and after the object being linked:
predep_objects_CXX=
postdep_objects_CXX=
predeps_CXX=
postdeps_CXX=
compiler_lib_search_path_CXX=

# Source file extension for C++ test sources.
ac_ext=cpp

# Object file extension for compiled C++ test sources.
objext=o
objext_CXX=$objext

# Code to be used in simple compile tests
lt_simple_compile_test_code="int some_variable = 0;\n"

# Code to be used in simple link tests
lt_simple_link_test_code='int main(int, char *[]) { return(0); }\n'

# ltmain only uses $CC for tagged configurations so make sure $CC is set.

# If no C compiler was specified, use CC.
LTCC=${LTCC-"$CC"}

# If no C compiler flags were specified, use CFLAGS.
LTCFLAGS=${LTCFLAGS-"$CFLAGS"}

# Allow CC to be a program name with arguments.
compiler=$CC

# save warnings/boilerplate of simple test code
ac_outfile=confptest.$ac_objext
printf "$lt_simple_compile_test_code" >confptest.$ac_ext
eval "$ac_compile" 2>&1 >/dev/null | $SED '/^$/d; /\^ *+\/d' >confptest.err
_lt_compiler_boilerplate=`cat confptest.err`
$rm confptest*

```

```

ac_outfile=conftest.$ac_objext
printf "$lt_simple_link_test_code" >conftest.$ac_ext
eval "$ac_link" 2>&1 >/dev/null | $SED '/^$/d; /^ *+/d' >conftest.err
_lt_linker_boilerplate=`cat conftest.err`
$rm conftest*

# Allow CC to be a program name with arguments.
lt_save_CC=$CC
lt_save_LD=$LD
lt_save_GCC=$GCC
GCC=$GXX
lt_save_with_gnu_ld=$with_gnu_ld
lt_save_path_LD=$lt_cv_path_LD
if test -n "${lt_cv_prog_gnu_ldcxx+set}"; then
  lt_cv_prog_gnu_ld=$lt_cv_prog_gnu_ldcxx
else
  $as_unset lt_cv_prog_gnu_ld
fi
if test -n "${lt_cv_path_LDCXX+set}"; then
  lt_cv_path_LD=$lt_cv_path_LDCXX
else
  $as_unset lt_cv_path_LD
fi
test -z "${LDCXX+set}" || LD=$LDCXX
CC=${CXX-"c++"}
compiler=$CC
compiler_CXX=$CC
for cc_temp in $compiler""; do
  case $cc_temp in
    compile | *[\//]compile | ccache | *[\//]ccache ) ;;
    distcc | *[\//]distcc | purify | *[\//]purify ) ;;
    \-*) ;;
    *) break;;
  esac
done
cc_basename=`$echo "X$cc_temp" | $Xsed -e 's%.*/%%' -e "s%^$host_alias-%%"`

# We don't want -fno-exception wen compiling C++ code, so set the
# no_builtin_flag separately
if test "$GXX" = yes; then
  lt_prog_compiler_no_builtin_flag_CXX=' -fno-builtin'
else
  lt_prog_compiler_no_builtin_flag_CXX=
fi

if test "$GXX" = yes; then
  # Set up default GNU C++ configuration

# Check whether --with-gnu-ld or --without-gnu-ld was given.
if test "${with_gnu_ld+set}" = set; then

```

```

    withval="$with_gnu_ld"
    test "$withval" = no || with_gnu_ld=yes
else
    with_gnu_ld=no
fi;
ac_prog=ld
if test "$GCC" = yes; then
    # Check if gcc -print-prog-name=ld gives a path.
    echo "$as_me:$LINENO: checking for ld used by $CC" >&5
    echo $ECHO_N "checking for ld used by $CC... $ECHO_C" >&6
    case $host in
    *-*-mingw*)
        # gcc leaves a trailing carriage return which upsets mingw
        ac_prog=`($CC -print-prog-name=ld) 2>&5 | tr -d '\015'` ;;
    *)
        ac_prog=`($CC -print-prog-name=ld) 2>&5` ;;
    esac
    case $ac_prog in
    # Accept absolute paths.
    [\\/] * | ?:[\\/] *)
        re_direlt='/[^\s/]*/\.\./'
        # Canonicalize the pathname of ld
        ac_prog=`echo $ac_prog | $SED 's%\\%/%g'`
        while echo $ac_prog | grep "$re_direlt" > /dev/null 2>&1; do
            ac_prog=`echo $ac_prog | $SED "s%$re_direlt%/"`
        done
        test -z "$LD" && LD="$ac_prog"
        ;;
    "")
        # If it fails, then pretend we aren't using GCC.
        ac_prog=ld
        ;;
    *)
        # If it is relative, then search for the first ld in PATH.
        with_gnu_ld=unknown
        ;;
    esac
elif test "$with_gnu_ld" = yes; then
    echo "$as_me:$LINENO: checking for GNU ld" >&5
    echo $ECHO_N "checking for GNU ld... $ECHO_C" >&6
else
    echo "$as_me:$LINENO: checking for non-GNU ld" >&5
    echo $ECHO_N "checking for non-GNU ld... $ECHO_C" >&6
fi
if test "${lt_cv_path_LD+set}" = set; then
    echo $ECHO_N "(cached) $ECHO_C" >&6
else
    if test -z "$LD"; then
        lt_save_ifs="$IFS"; IFS=$PATH_SEPARATOR
        for ac_dir in $PATH; do
            IFS="$lt_save_ifs"
            test -z "$ac_dir" && ac_dir=.
            if test -f "$ac_dir/$ac_prog" || test -f
"$ac_dir/$ac_prog$ac_exeext"; then

```



```

    lt_cv_path_LD="$ac_dir/$ac_prog"
    # Check to see if the program is GNU ld.  I'd rather use --version,
    # but apparently some variants of GNU ld only accept -v.
    # Break only if it was the GNU/non-GNU ld that we prefer.
    case `"$lt_cv_path_LD" -v 2>&1 </dev/null` in
    *GNU* | *'with BFD'*)
        test "$with_gnu_ld" != no && break
        ;;
    *)
        test "$with_gnu_ld" != yes && break
        ;;
    esac
fi
done
IFS="$lt_save_ifs"
else
    lt_cv_path_LD="$LD" # Let the user override the test with a path.
fi
fi

LD="$lt_cv_path_LD"
if test -n "$LD"; then
    echo "$as_me:$LINENO: result: $LD" >&5
    echo "${ECHO_T}$LD" >&6
else
    echo "$as_me:$LINENO: result: no" >&5
    echo "${ECHO_T}no" >&6
fi
test -z "$LD" && { { echo "$as_me:$LINENO: error: no acceptable ld found
in \$PATH" >&5
echo "$as_me: error: no acceptable ld found in \$PATH" >&2;}
{ (exit 1); exit 1; }; }
echo "$as_me:$LINENO: checking if the linker ($LD) is GNU ld" >&5
echo $ECHO_N "checking if the linker ($LD) is GNU ld... $ECHO_C" >&6
if test "${lt_cv_prog_gnu_ld+set}" = set; then
    echo $ECHO_N "(cached) $ECHO_C" >&6
else
    # I'd rather use --version here, but apparently some GNU lds only
    accept -v.
    case `"$LD" -v 2>&1 </dev/null` in
    *GNU* | *'with BFD'*)
        lt_cv_prog_gnu_ld=yes
        ;;
    *)
        lt_cv_prog_gnu_ld=no
        ;;
    esac
fi
echo "$as_me:$LINENO: result: $lt_cv_prog_gnu_ld" >&5
echo "${ECHO_T}$lt_cv_prog_gnu_ld" >&6
with_gnu_ld=$lt_cv_prog_gnu_ld

```

```

# Check if GNU C++ uses GNU ld as the underlying linker, since the
# archiving commands below assume that GNU ld is being used.
if test "$with_gnu_ld" = yes; then
    archive_cmds_CXX='$CC -shared -nostdlib $predep_objects $libobjs
$deplibs $postdep_objects $compiler_flags ${wl}-soname $wl$soname -o
$lib'
    archive_expsym_cmds_CXX='$CC -shared -nostdlib $predep_objects
$libobjs $deplibs $postdep_objects $compiler_flags ${wl}-soname
$wl$soname ${wl}-retain-symbols-file $wl$export_symbols -o $lib'

    hardcode_libdir_flag_spec_CXX='${wl}--rpath ${wl}$libdir'
    export_dynamic_flag_spec_CXX='${wl}--export-dynamic'

# If archive_cmds runs LD, not CC, wlarc should be empty
# XXX I think wlarc can be eliminated in ltcf-cxx, but I need to
# investigate it a little bit more. (MM)
wlarc='${wl}'

# ancient GNU ld didn't support --whole-archive et. al.
if eval "`$CC -print-prog-name=ld` --help 2>&1" | \
    grep 'no-whole-archive' > /dev/null; then
    whole_archive_flag_spec_CXX="$wlarc"--whole-archive$convenience
"$wlarc"--no-whole-archive'
else
    whole_archive_flag_spec_CXX=
fi
else
with_gnu_ld=no
wlarc=

# A generic and very simple default shared library creation
# command for GNU C++ for the case where it uses the native
# linker, instead of GNU ld.  If possible, this setting should
# be overridden to take advantage of the native linker features on
# the platform it is being used on.
archive_cmds_CXX='$CC -shared -nostdlib $predep_objects $libobjs
$deplibs $postdep_objects $compiler_flags -o $lib'
fi

# Commands to make compiler produce verbose output that lists
# what "hidden" libraries, object files and flags are used when
# linking a shared library.
output_verbose_link_cmd='$CC -shared $CFLAGS -v conftest.$objext 2>&1 |
grep "\-L"'

else
GXX=no
with_gnu_ld=no
wlarc=
fi

# PORTME: fill in a description of your system's C++ link characteristics
echo "$as_me:$LINENO: checking whether the $compiler linker ($LD)
supports shared libraries" >&5

```

```

echo $ECHO_N "checking whether the $compiler linker ($LD) supports shared
libraries... $ECHO_C" >&6
ld_shlibs_CXX=yes
case $host_os in
  aix3*)
    # FIXME: insert proper C++ library support
    ld_shlibs_CXX=no
    ;;
  aix4* | aix5*)
    if test "$host_cpu" = ia64; then
      # On IA64, the linker does run time linking by default, so we don't
      # have to do anything special.
      aix_use_runtimelinking=no
      exp_sym_flag='-Bexport'
      no_entry_flag=""
    else
      aix_use_runtimelinking=no

      # Test if we are trying to use run time linking or normal
      # AIX style linking. If -brtl is somewhere in LDFLAGS, we
      # need to do runtime linking.
      case $host_os in aix4.[23]|aix4.[23].*|aix5*)
        for ld_flag in $LDFLAGS; do
          case $ld_flag in
            *-brtl*)
              aix_use_runtimelinking=yes
              break
            ;;
          esac
        done
        ;;
      esac
    done
    exp_sym_flag='-bexport'
    no_entry_flag='-bnoentry'
  fi

  # When large executables or shared objects are built, AIX ld can
  # have problems creating the table of contents.  If linking a library
  # or program results in "error TOC overflow" add -minimal-toc to
  # CXXFLAGS/CFLAGS for g++/gcc.  In the cases where that is not
  # enough to fix the problem, add -Wl,-bbigtoc to LDFLAGS.

  archive_cmds_CXX=''
  hardcode_direct_CXX=yes
  hardcode_libdir_separator_CXX=':'
  link_all_deplibs_CXX=yes

  if test "$GXX" = yes; then
    case $host_os in aix4.[012]|aix4.[012].*)
      # We only want to do this on AIX 4.2 and lower, the check
      # below for broken collect2 doesn't work under 4.3+
      collect2name=`${CC} -print-prog-name=collect2`
      if test -f "$collect2name" && \

```

```

        strings "$collect2name" | grep resolve_lib_name >/dev/null
then
    # We have reworked collect2
    hardcode_direct_CXX=yes
else
    # We have old collect2
    hardcode_direct_CXX=unsupported
    # It fails to find uninstalled libraries when the uninstalled
    # path is not listed in the libpath. Setting hardcode_minus_L
    # to unsupported forces relinking
    hardcode_minus_L_CXX=yes
    hardcode_libdir_flag_spec_CXX='-L$libdir'
    hardcode_libdir_separator_CXX=
fi
;;
esac
shared_flag='-shared'
if test "$aix_use_runtimelinking" = yes; then
shared_flag="$shared_flag "'${wl}-G'
fi
else
    # not using gcc
    if test "$host_cpu" = ia64; then
    # VisualAge C++, Version 5.5 for AIX 5L for IA-64, Beta 3 Release
    # chokes on -Wl,-G. The following line is correct:
    shared_flag='-G'
    else
    if test "$aix_use_runtimelinking" = yes; then
        shared_flag='${wl}-G'
    else
        shared_flag='${wl}-bM:SRE'
    fi
    fi
fi

# It seems that -bexpall does not export symbols beginning with
# underscore (_), so it is better to generate a list of symbols to
export.
always_export_symbols_CXX=yes
if test "$aix_use_runtimelinking" = yes; then
    # Warning - without using the other runtime loading flags (-brtl),
    # -berok will link without error, but may produce a broken library.
    allow_undefined_flag_CXX='-berok'
    # Determine the default libpath from the value encoded in an empty
executable.
    cat >confptest.$ac_ext <<_ACEOF
/* confdefs.h. */
_ACEOF
cat confdefs.h >>confptest.$ac_ext
cat >>confptest.$ac_ext <<_ACEOF
/* end confdefs.h. */

int
main ()

```

```

{
    ;
    return 0;
}
_ACEOF
rm -f confptest.$ac_objext confptest$ac_exeext
if { (eval echo "$as_me:$LINENO: \"$ac_link\"" ) >&5
    (eval $ac_link) 2>confptest.erl
    ac_status=$?
    grep -v '^ *+' confptest.erl >confptest.err
    rm -f confptest.erl
    cat confptest.err >&5
    echo "$as_me:$LINENO: \ $? = $ac_status" >&5
    (exit $ac_status); } &&
    { ac_try='test -z "$ac_cxx_werror_flag"
        || test ! -s confptest.err'
    { (eval echo "$as_me:$LINENO: \"$ac_try\"" ) >&5
    (eval $ac_try) 2>&5
    ac_status=$?
    echo "$as_me:$LINENO: \ $? = $ac_status" >&5
    (exit $ac_status); }; } &&
    { ac_try='test -s confptest$ac_exeext'
    { (eval echo "$as_me:$LINENO: \"$ac_try\"" ) >&5
    (eval $ac_try) 2>&5
    ac_status=$?
    echo "$as_me:$LINENO: \ $? = $ac_status" >&5
    (exit $ac_status); }; }; then

aix_libpath=`dump -H confptest$ac_exeext 2>/dev/null | $SED -n -e '/Import
File Strings/,/^$/ { /^0/ { s/^0  *(.*)$/\1/; p; }
}'`
# Check for a 64-bit object if we didn't find anything.
if test -z "$aix_libpath"; then aix_libpath=`dump -HX64
confptest$ac_exeext 2>/dev/null | $SED -n -e '/Import File Strings/,/^$/ {
/^0/ { s/^0  *(.*)$/\1/; p; }
}'`; fi
else
    echo "$as_me: failed program was:" >&5
    sed 's/^/| /' confptest.$ac_ext >&5

fi
rm -f confptest.err confptest.$ac_objext \
    confptest$ac_exeext confptest.$ac_ext
if test -z "$aix_libpath"; then aix_libpath="/usr/lib:/lib"; fi

    hardcode_libdir_flag_spec_CXX='${wl}-
blibpath:$libdir:"$aix_libpath"

    archive_expsym_cmds_CXX="\$CC" -o $output_objdir/$soname $libobjs
$deplibs "'\${wl}$no_entry_flag"' $compiler_flags `if test
"x${allow_undefined_flag}" != "x"; then echo
"${wl}${allow_undefined_flag}"; else ;; fi`
'\${wl}${exp_sym_flag:\$export_symbols $shared_flag"

```

```

else
  if test "$host_cpu" = ia64; then
    hardcode_libdir_flag_spec_CXX='${wl}-R $libdir:/usr/lib:/lib'
    allow_undefined_flag_CXX="-z nodefs"
    archive_expsym_cmds_CXX="\$CC $shared_flag" -o
$output_objdir/$soname $libobjs $deplibs '"\${wl}$no_entry_flag"'
$compiler_flags ${wl}${allow_undefined_flag}
'"\${wl}$exp_sym_flag:\$export_symbols"
  else
    # Determine the default libpath from the value encoded in an empty
executable.
    cat >conftest.$ac_ext <<_ACEOF
/* confdefs.h. */
_ACEOF
cat confdefs.h >>conftest.$ac_ext
cat >>conftest.$ac_ext <<_ACEOF
/* end confdefs.h. */

int
main ()
{

;
  return 0;
}
_ACEOF
rm -f conftest.$ac_objext conftest$ac_exeext
if { (eval echo "$as_me:$LINENO: \"\$ac_link\"" ) >&5
  (eval $ac_link) 2>conftest.er1
  ac_status=$?
  grep -v '^ *+' conftest.er1 >conftest.err
  rm -f conftest.er1
  cat conftest.err >&5
  echo "$as_me:$LINENO: \$? = $ac_status" >&5
  (exit $ac_status); } &&
  { ac_try='test -z "$ac_cxx_werror_flag"
  || test ! -s conftest.err'
  { (eval echo "$as_me:$LINENO: \"\$ac_try\"" ) >&5
  (eval $ac_try) 2>&5
  ac_status=$?
  echo "$as_me:$LINENO: \$? = $ac_status" >&5
  (exit $ac_status); }; } &&
  { ac_try='test -s conftest$ac_exeext'
  { (eval echo "$as_me:$LINENO: \"\$ac_try\"" ) >&5
  (eval $ac_try) 2>&5
  ac_status=$?
  echo "$as_me:$LINENO: \$? = $ac_status" >&5
  (exit $ac_status); }; }; then
aix_libpath=`dump -H conftest$ac_exeext 2>/dev/null | $SED -n -e '/Import
File Strings/,/^$/ { /^0/ { s/^0 *\(.*\)$/\1/; p; }
}'`
# Check for a 64-bit object if we didn't find anything.

```

```

if test -z "$aix_libpath"; then aix_libpath=`dump -HX64
conftest${ac_exeext} 2>/dev/null | $SED -n -e '/Import File Strings/,/^$/ {
/^0/ { s/^0_*(.*)$/\1/; p; }
}'`; fi
else
    echo "$as_me: failed program was:" >&5
    sed 's/^/| /' conftest.${ac_ext} >&5

fi
rm -f conftest.err conftest.${ac_objext} \
    conftest${ac_exeext} conftest.${ac_ext}
if test -z "$aix_libpath"; then aix_libpath="/usr/lib:/lib"; fi

    hardcode_libdir_flag_spec_CXX='${wl}-
bldirpath:${libdir}:"$aix_libpath"
    # Warning - without using the other run time loading flags,
    # -berok will link without error, but may produce a broken library.
    no_undefined_flag_CXX=' ${wl}-bernotok'
    allow_undefined_flag_CXX=' ${wl}-berok'
    # Exported symbols can be pulled into shared objects from archives
    whole_archive_flag_spec_CXX='$convenience'
    archive_cmds_need_lc_CXX=yes
    # This is similar to how AIX traditionally builds its shared
libraries.
    archive_expsym_cmds_CXX="\$CC \$shared_flag" -o
$output_objdir/$soname $libobjs $deplibs ${wl}-bnoentry $compiler_flags
${wl}-bE:$export_symbols${allow_undefined_flag}~$AR $AR_FLAGS
$output_objdir/$libname$release.a $output_objdir/$soname'
    fi
    fi
;;

beos*)
    if $LD --help 2>&1 | grep ': supported targets:.* elf' > /dev/null;
then
    allow_undefined_flag_CXX=unsupported
    # Joseph Beckenbach <jrb3@best.com> says some releases of gcc
    # support --undefined. This deserves some investigation. FIXME
    archive_cmds_CXX='$CC -nostart $libobjs $deplibs $compiler_flags
${wl}-soname $wl$soname -o $lib'
    else
    ld_shlibs_CXX=no
    fi
    ;;

chorus*)
    case $cc_basename in
    *)
        # FIXME: insert proper C++ library support
        ld_shlibs_CXX=no
        ;;
    esac
    ;;

```

```

    cygwin* | mingw* | pw32*)
        # _LT_AC_TAGVAR(hardcode_libdir_flag_spec, CXX) is actually
meaningless,
        # as there is no search path for DLLs.
        hardcode_libdir_flag_spec_CXX='-L$libdir'
        allow_undefined_flag_CXX=unsupported
        always_export_symbols_CXX=no
        enable_shared_with_static_runtimes_CXX=yes

        if $LD --help 2>&1 | grep 'auto-import' > /dev/null; then
            archive_cmds_CXX='$CC -shared -nostdlib $predep_objects $libobjs
$deplibs $postdep_objects $compiler_flags -o $output_objdir/$soname
${wl}--enable-auto-image-base -Xlinker --out-implib -Xlinker $lib'
            # If the export-symbols file already is a .def file (1st line
            # is EXPORTS), use it as is; otherwise, prepend...
            archive_expsym_cmds_CXX='if test "x`$SED 1q $export_symbols`" =
xEXPORTS; then
            cp $export_symbols $output_objdir/$soname.def;
            else
            echo EXPORTS > $output_objdir/$soname.def;
            cat $export_symbols >> $output_objdir/$soname.def;
            fi~
            $CC -shared -nostdlib $output_objdir/$soname.def $predep_objects
$libobjs $deplibs $postdep_objects $compiler_flags -o
$output_objdir/$soname ${wl}--enable-auto-image-base -Xlinker --out-
implib -Xlinker $lib'
        else
            ld_shlibs_CXX=no
        fi
    ;;
    darwin* | rhapsody*)
        case $host_os in
            rhapsody* | darwin1.[012])
                allow_undefined_flag_CXX='${wl}-undefined ${wl}suppress'
                ;;
            *) # Darwin 1.3 on
                if test -z ${MACOSX_DEPLOYMENT_TARGET} ; then
                    allow_undefined_flag_CXX='${wl}-flat_namespace ${wl}-undefined
${wl}suppress'
                else
                    case ${MACOSX_DEPLOYMENT_TARGET} in
                        10.[012])
                            allow_undefined_flag_CXX='${wl}-flat_namespace ${wl}-
undefined ${wl}suppress'
                            ;;
                        *)
                            allow_undefined_flag_CXX='${wl}-undefined
${wl}dynamic_lookup'
                            ;;
                    esac
                fi
            ;;
        esac
    fi
    ;;
esac
archive_cmds_need_lc_CXX=no

```



```

hardcode_direct_CXX=no
hardcode_automatic_CXX=yes
hardcode_shlibpath_var_CXX=unsupported
whole_archive_flag_spec_CXX=''
link_all_deplibs_CXX=yes

if test "$GXX" = yes ; then
  lt_int_apple_cc_single_mod=no
  output_verbose_link_cmd='echo'
  if $CC -dumpspecs 2>&1 | $EGREP 'single_module' >/dev/null ; then
    lt_int_apple_cc_single_mod=yes
  fi
  if test "X$lt_int_apple_cc_single_mod" = Xyes ; then
    archive_cmds_CXX='$CC -dynamiclib -single_module
$allow_undefined_flag -o $lib $libobjs $deplibs $compiler_flags -
install_name $rpath/$soname $verstring'
  else
    archive_cmds_CXX='$CC -r -keep_private_externs -nostdlib -o
${lib}-master.o $libobjs~$CC -dynamiclib $allow_undefined_flag -o $lib
${lib}-master.o $deplibs $compiler_flags -install_name $rpath/$soname
$verstring'
  fi
  module_cmds_CXX='$CC $allow_undefined_flag -o $lib -bundle
$libobjs $deplibs$compiler_flags'
  # Don't fix this by using the ld -exported_symbols_list flag, it
  # doesn't exist in older darwin lds
  if test "X$lt_int_apple_cc_single_mod" = Xyes ; then
    archive_expsym_cmds_CXX='sed -e "s,#.*,, " -e "s,^[ ]*,," -
e "s,^\(..*\),_&," < $export_symbols > $output_objdir/${libname}-
symbols.expsym~$CC -dynamiclib -single_module $allow_undefined_flag -o
$lib $libobjs $deplibs $compiler_flags -install_name $rpath/$soname
$verstring~nmedit -s $output_objdir/${libname}-symbols.expsym ${lib}'
  else
    archive_expsym_cmds_CXX='sed -e "s,#.*,, " -e "s,^[ ]*,," -
e "s,^\(..*\),_&," < $export_symbols > $output_objdir/${libname}-
symbols.expsym~$CC -r -keep_private_externs -nostdlib -o ${lib}-master.o
$libobjs~$CC -dynamiclib $allow_undefined_flag -o $lib ${lib}-master.o
$deplibs $compiler_flags -install_name $rpath/$soname $verstring~nmedit -
s $output_objdir/${libname}-symbols.expsym ${lib}'
  fi
  module_expsym_cmds_CXX='sed -e "s,#.*,, " -e "s,^[ ]*,," -e
"s,^\(..*\),_&," < $export_symbols > $output_objdir/${libname}-
symbols.expsym~$CC $allow_undefined_flag -o $lib -bundle $libobjs
$deplibs$compiler_flags~nmedit -s $output_objdir/${libname}-
symbols.expsym ${lib}'
  else
    case $cc_basename in
      xlc*)
        output_verbose_link_cmd='echo'
        archive_cmds_CXX='$CC -qmkshrobj ${wl}-single_module
$allow_undefined_flag -o $lib $libobjs $deplibs $compiler_flags ${wl}-
install_name ${wl}`echo $rpath/$soname` $verstring'
        module_cmds_CXX='$CC $allow_undefined_flag -o $lib -bundle
$libobjs $deplibs$compiler_flags'
      *)
    esac
  fi
fi

```

```

        # Don't fix this by using the ld -exported_symbols_list flag,
it doesn't exist in older darwin lds
        archive_expsym_cmds_CXX='sed -e "s,#.*,,," -e "s,^[    ]*,," -e
"s,^\(..*\),_&," < $export_symbols > $output_objdir/${libname}-
symbols.expsym~$CC -qmksprobj ${wl}-single_module $allow_undefined_flag -
o $lib $libobjs $deplibs $compiler_flags ${wl}-install_name
${wl}$rpath/$soname $verstring~nmedit -s $output_objdir/${libname}-
symbols.expsym ${lib}'
        module_expsym_cmds_CXX='sed -e "s,#.*,,," -e "s,^[    ]*,," -e
"s,^\(..*\),_&," < $export_symbols > $output_objdir/${libname}-
symbols.expsym~$CC $allow_undefined_flag -o $lib -bundle $libobjs
$deplibs$compiler_flags~nmedit -s $output_objdir/${libname}-
symbols.expsym ${lib}'
        ;;
*)
        ld_shlibs_CXX=no
        ;;
esac
fi
;;

dgux*)
case $cc_basename in
ec++)
        # FIXME: insert proper C++ library support
        ld_shlibs_CXX=no
        ;;
ghc*)
        # Green Hills C++ Compiler
        # FIXME: insert proper C++ library support
        ld_shlibs_CXX=no
        ;;
*)
        # FIXME: insert proper C++ library support
        ld_shlibs_CXX=no
        ;;
esac
;;
freebsd[12]*)
        # C++ shared libraries reported to be fairly broken before switch to
ELF
        ld_shlibs_CXX=no
        ;;
freebsd-elf*)
        archive_cmds_need_lc_CXX=no
        ;;
freebsd* | kfreebsd*-gnu | dragonfly*)
        # FreeBSD 3 and later use GNU C++ and GNU ld with standard ELF
        # conventions
        ld_shlibs_CXX=yes
        ;;
gnu*)
        ;;
hpux9*)

```

```

hardcode_libdir_flag_spec_CXX='${wl}+b ${wl}$libdir'
hardcode_libdir_separator_CXX=:
export_dynamic_flag_spec_CXX='${wl}-E'
hardcode_direct_CXX=yes
hardcode_minus_L_CXX=yes # Not in the search PATH,
                          # but as the default
                          # location of the library.

case $cc_basename in
CC*)
    # FIXME: insert proper C++ library support
    ld_shlibs_CXX=no
    ;;
aCC*)
    archive_cmds_CXX='$rm $output_objdir/$soname~$CC -b ${wl}+b
${wl}$install_libdir -o $output_objdir/$soname $predep_objects $libobjs
$deplibs $postdep_objects $compiler_flags~test $output_objdir/$soname =
$lib || mv $output_objdir/$soname $lib'
    # Commands to make compiler produce verbose output that lists
    # what "hidden" libraries, object files and flags are used when
    # linking a shared library.
    #
    # There doesn't appear to be a way to prevent this compiler from
    # explicitly linking system object files so we need to strip them
    # from the output so that they don't get included in the library
    # dependencies.
    output_verbose_link_cmd='templist=`($CC -b $CFLAGS -v
conftest.$objext 2>&l) | grep "[-]L"`; list=""; for z in $templist; do
case $z in conftest.$objext) list="$list $z";; *.objext);; *)
list="$list $z";; esac; done; echo $list'
    ;;
*)
    if test "$GXX" = yes; then
        archive_cmds_CXX='$rm $output_objdir/$soname~$CC -shared -
nostdlib -fPIC ${wl}+b ${wl}$install_libdir -o $output_objdir/$soname
$predep_objects $libobjs $deplibs $postdep_objects $compiler_flags~test
$output_objdir/$soname = $lib || mv $output_objdir/$soname $lib'
    else
        # FIXME: insert proper C++ library support
        ld_shlibs_CXX=no
    fi
    ;;
esac
;;
hpux10*|hpux11*)
    if test $with_gnu_ld = no; then
        hardcode_libdir_flag_spec_CXX='${wl}+b ${wl}$libdir'
        hardcode_libdir_separator_CXX=:

        case $host_cpu in
        hppa*64*|ia64*)
            hardcode_libdir_flag_spec_ld_CXX='+b $libdir'
            ;;
        *)

```

```

export_dynamic_flag_spec_CXX='${wl}-E'
    ;;
esac
fi
case $host_cpu in
hppa*64*|ia64*)
    hardcode_direct_CXX=no
    hardcode_shlibpath_var_CXX=no
    ;;
*)
    hardcode_direct_CXX=yes
    hardcode_minus_L_CXX=yes # Not in the search PATH,
                             # but as the default
                             # location of the library.

    ;;
esac

case $cc_basename in
CC*)
    # FIXME: insert proper C++ library support
    ld_shlibs_CXX=no
    ;;
aCC*)
    case $host_cpu in
hppa*64*)
        archive_cmds_CXX='$CC -b ${wl}+h ${wl}$soname -o $lib
$predep_objects $libobjs $deplibs $postdep_objects $compiler_flags'
        ;;
ia64*)
        archive_cmds_CXX='$CC -b ${wl}+h ${wl}$soname
${wl}+nodefaulttrpath -o $lib $predep_objects $libobjs $deplibs
$postdep_objects $compiler_flags'
        ;;
*)
        archive_cmds_CXX='$CC -b ${wl}+h ${wl}$soname ${wl}+b
${wl}$install_libdir -o $lib $predep_objects $libobjs $deplibs
$postdep_objects $compiler_flags'
        ;;
esac
# Commands to make compiler produce verbose output that lists
# what "hidden" libraries, object files and flags are used when
# linking a shared library.
#
# There doesn't appear to be a way to prevent this compiler from
# explicitly linking system object files so we need to strip them
# from the output so that they don't get included in the library
# dependencies.
output_verbose_link_cmd='templist=`($CC -b $CFLAGS -v
confstest.$objext 2>&1) | grep "\-L"; list=""; for z in $templist; do
case $z in confstest.$objext) list="$list $z";; *.objext);; *)
list="$list $z";;esac; done; echo $list'
    ;;
*)
    if test "$GXX" = yes; then

```

```

        if test $with_gnu_ld = no; then
            case $host_cpu in
                hppa*64*)
                    archive_cmds_CXX='$CC -shared -nostdlib -fPIC ${wl}+h
${wl}$soname -o $lib $predep_objects $libobjs $deplibs $postdep_objects
$compiler_flags'
                    ;;
                ia64*)
                    archive_cmds_CXX='$CC -shared -nostdlib -fPIC ${wl}+h
${wl}$soname ${wl}+nodefauiltrpath -o $lib $predep_objects $libobjs
$deplibs $postdep_objects $compiler_flags'
                    ;;
                *)
                    archive_cmds_CXX='$CC -shared -nostdlib -fPIC ${wl}+h
${wl}$soname ${wl}+b ${wl}$install_libdir -o $lib $predep_objects
$libobjs $deplibs $postdep_objects $compiler_flags'
                    ;;
            esac
        fi
    else
        # FIXME: insert proper C++ library support
        ld_shlibs_CXX=no
    fi
    ;;
esac
;;
interix3*)
    hardcode_direct_CXX=no
    hardcode_shlibpath_var_CXX=no
    hardcode_libdir_flag_spec_CXX='${wl}-rpath,$libdir'
    export_dynamic_flag_spec_CXX='${wl}-E'
    # Hack: On Interix 3.x, we cannot compile PIC because of a broken
gcc.
    # Instead, shared libraries are loaded at an image base (0x10000000
by
    # default) and relocated if they conflict, which is a slow very
memory
    # consuming and fragmenting process. To avoid this, we pick a
random,
    # 256 KiB-aligned image base between 0x50000000 and 0x6FFC0000 at
link
    # time. Moving up from 0x10000000 also allows more sbrk(2) space.
    archive_cmds_CXX='$CC -shared $pic_flag $libobjs $deplibs
$compiler_flags ${wl}-h,$soname ${wl}--image-base,`expr ${RANDOM-$$} %
4096 / 2 \* 262144 + 1342177280` -o $lib'
    archive_expsym_cmds_CXX='sed "s,^,_" $export_symbols
>$output_objdir/$soname.expsym~$CC -shared $pic_flag $libobjs $deplibs
$compiler_flags ${wl}-h,$soname ${wl}--retain-symbols-
file,$output_objdir/$soname.expsym ${wl}--image-base,`expr ${RANDOM-$$} %
4096 / 2 \* 262144 + 1342177280` -o $lib'
    ;;
    irix5* | irix6*)
        case $cc_basename in
            CC*)

```

```

# SGI C++
archive_cmds_CXX='$CC -shared -all -multigot $predep_objects
$libobjs $deplibs $postdep_objects $compiler_flags -soname $soname `test
-n "$verstring" && echo -set_version $verstring` -update_registry
${output_objdir}/so_locations -o $lib'

# Archives containing C++ object files must be created using
# "CC -ar", where "CC" is the IRIX C++ compiler. This is
# necessary to make sure instantiated templates are included
# in the archive.
old_archive_cmds_CXX='$CC -ar -WR,-u -o $oldlib $oldobjs'
;;
*)
if test "$GXX" = yes; then
  if test "$with_gnu_ld" = no; then
    archive_cmds_CXX='$CC -shared -nostdlib $predep_objects
$libobjs $deplibs $postdep_objects $compiler_flags ${wl}-soname
${wl}$soname `test -n "$verstring" && echo ${wl}-set_version
${wl}$verstring` ${wl}-update_registry ${wl}${output_objdir}/so_locations
-o $lib'
  else
    archive_cmds_CXX='$CC -shared -nostdlib $predep_objects
$libobjs $deplibs $postdep_objects $compiler_flags ${wl}-soname
${wl}$soname `test -n "$verstring" && echo ${wl}-set_version
${wl}$verstring` -o $lib'
  fi
fi
link_all_deplibs_CXX=yes
;;
esac
hardcode_libdir_flag_spec_CXX='${wl}-rpath ${wl}$libdir'
hardcode_libdir_separator_CXX=:
;;
linux*)
case $cc_basename in
  KCC*)
    # Kuck and Associates, Inc. (KAI) C++ Compiler

    # KCC will only create a shared library if the output file
    # ends with ".so" (or ".sl" for HP-UX), so rename the library
    # to its proper name (with version) after linking.
    archive_cmds_CXX='tempext=`echo $shared_ext | $SED -e
\'\'s/\([^\()0-9A-Za-z{}]\)/\|\\\|1/g\'\'`; templib=`echo $lib | $SED -e
"s/\${tempext}\.*/.so/"`; $CC $predep_objects $libobjs $deplibs
$postdep_objects $compiler_flags --soname $soname -o \${templib}; mv
\${templib} $lib'
    archive_expsym_cmds_CXX='tempext=`echo $shared_ext | $SED -e
\'\'s/\([^\()0-9A-Za-z{}]\)/\|\\\|1/g\'\'`; templib=`echo $lib | $SED -e
"s/\${tempext}\.*/.so/"`; $CC $predep_objects $libobjs $deplibs
$postdep_objects $compiler_flags --soname $soname -o \${templib} ${wl}-
retain-symbols-file,$export_symbols; mv \${templib} $lib'
    # Commands to make compiler produce verbose output that lists
    # what "hidden" libraries, object files and flags are used when
    # linking a shared library.

```

```

#
# There doesn't appear to be a way to prevent this compiler from
# explicitly linking system object files so we need to strip them
# from the output so that they don't get included in the library
# dependencies.
output_verbose_link_cmd='templist=`$CC $CFLAGS -v conftest.$objext
-o libconfctest$shared_ext 2>&1 | grep "ld"`; rm -f
libconfctest$shared_ext; list=""; for z in $templist; do case $z in
conftest.$objext) list="$list $z";; *.$objext);; *) list="$list
$z";;esac; done; echo $list'

hardcode_libdir_flag_spec_CXX='${wl}--rpath,$libdir'
export_dynamic_flag_spec_CXX='${wl}--export-dynamic'

# Archives containing C++ object files must be created using
# "CC -Bstatic", where "CC" is the KAI C++ compiler.
old_archive_cmds_CXX='$CC -Bstatic -o $oldlib $oldobjs'
;;
icpc*)
# Intel C++
with_gnu_ld=yes
# version 8.0 and above of icpc choke on multiply defined symbols
# if we add $predep_objects and $postdep_objects, however 7.1 and
# earlier do not add the objects themselves.
case ` $CC -V 2>&1 ` in
*"Version 7."*)
archive_cmds_CXX='$CC -shared $predep_objects $libobjs $deplibs
$postdep_objects $compiler_flags ${wl}-soname $wl$soname -o $lib'
archive_expsym_cmds_CXX='$CC -shared $predep_objects $libobjs
$deplibs $postdep_objects $compiler_flags ${wl}-soname $wl$soname ${wl}-
retain-symbols-file $wl$export_symbols -o $lib'
;;
*) # Version 8.0 or newer
tmp_idyn=
case $host_cpu in
ia64*) tmp_idyn=' -i_dynamic';;
esac
archive_cmds_CXX='$CC -shared"$tmp_idyn" $libobjs $deplibs
$compiler_flags ${wl}-soname $wl$soname -o $lib'
archive_expsym_cmds_CXX='$CC -shared"$tmp_idyn" $libobjs
$deplibs $compiler_flags ${wl}-soname $wl$soname ${wl}-retain-symbols-
file $wl$export_symbols -o $lib'
;;
esac
archive_cmds_need_lc_CXX=no
hardcode_libdir_flag_spec_CXX='${wl}-rpath,$libdir'
export_dynamic_flag_spec_CXX='${wl}--export-dynamic'
whole_archive_flag_spec_CXX='${wl}--whole-archive$convenience
${wl}--no-whole-archive'
;;
pgCC*)
# Portland Group C++ compiler

```

```

    archive_cmds_CXX='$CC -shared $pic_flag $predep_objects $libobjs
$deplibs $postdep_objects $compiler_flags ${wl}-soname ${wl}$soname -o
$lib'
    archive_expsym_cmds_CXX='$CC -shared $pic_flag $predep_objects
$libobjs $deplibs $postdep_objects $compiler_flags ${wl}-soname
${wl}$soname ${wl}-retain-symbols-file ${wl}$export_symbols -o $lib'

    hardcode_libdir_flag_spec_CXX='${wl}--rpath ${wl}$libdir'
    export_dynamic_flag_spec_CXX='${wl}--export-dynamic'
    whole_archive_flag_spec_CXX='${wl}--whole-archive`for conv in
$convenience\`\`; do test -n \"$conv\" &&
new_convenience=\"$new_convenience,$conv\"; done; $echo
\`$new_convenience\`' ${wl}--no-whole-archive'
;;
cxx*)
# Compaq C++
    archive_cmds_CXX='$CC -shared $predep_objects $libobjs $deplibs
$postdep_objects $compiler_flags ${wl}-soname $wl$soname -o $lib'
    archive_expsym_cmds_CXX='$CC -shared $predep_objects $libobjs
$deplibs $postdep_objects $compiler_flags ${wl}-soname $wl$soname -o
$lib ${wl}-retain-symbols-file $wl$export_symbols'

    runpath_var=LD_RUN_PATH
    hardcode_libdir_flag_spec_CXX='-rpath $libdir'
    hardcode_libdir_separator_CXX=:

# Commands to make compiler produce verbose output that lists
# what "hidden" libraries, object files and flags are used when
# linking a shared library.
#
# There doesn't appear to be a way to prevent this compiler from
# explicitly linking system object files so we need to strip them
# from the output so that they don't get included in the library
# dependencies.
    output_verbose_link_cmd='templist=`$CC -shared $CFLAGS -v
conftest.$objext 2>&1 | grep "ld" `; templist=`echo $templist | $SED
"s/\(^\.*ld.*\)\( .*ld.*\)/\1/" `; list=""; for z in $templist; do case
$z in conftest.$objext) list="$list $z";; *.$objext);; *) list="$list
$z";; esac; done; echo $list'
;;
esac
;;
lynxos*)
# FIXME: insert proper C++ library support
ld_shlibs_CXX=no
;;
m88k*)
# FIXME: insert proper C++ library support
ld_shlibs_CXX=no
;;
mvs*)
case $cc_basename in
cxx*)
# FIXME: insert proper C++ library support

```



```

    ld_shlibs_CXX=no
    ;;
    *)
    # FIXME: insert proper C++ library support
    ld_shlibs_CXX=no
    ;;
esac
;;
netbsd*)
    if echo __ELF__ | $CC -E - | grep __ELF__ >/dev/null; then
        archive_cmds_CXX='$LD -Bshareable -o $lib $predep_objects $libobjs
$deplibs $postdep_objects $linker_flags'
        wlarc=
        hardcode_libdir_flag_spec_CXX='-R$libdir'
        hardcode_direct_CXX=yes
        hardcode_shlibpath_var_CXX=no
    fi
    # Workaround some broken pre-1.5 toolchains
    output_verbose_link_cmd='$CC -shared $CFLAGS -v conftest.$objext 2>&1
| grep conftest.$objext | $SED -e "s:-lgcc -lc -lgcc::"'
    ;;
openbsd2*)
    # C++ shared libraries are fairly broken
    ld_shlibs_CXX=no
    ;;
openbsd*)
    hardcode_direct_CXX=yes
    hardcode_shlibpath_var_CXX=no
    archive_cmds_CXX='$CC -shared $pic_flag $predep_objects $libobjs
$deplibs $postdep_objects $compiler_flags -o $lib'
    hardcode_libdir_flag_spec_CXX='${wl}-rpath,$libdir'
    if test -z "`echo __ELF__ | $CC -E - | grep __ELF__`" || test
"$host_os-$host_cpu" = "openbsd2.8-powerpc"; then
        archive_expsym_cmds_CXX='$CC -shared $pic_flag $predep_objects
$libobjs $deplibs $postdep_objects $compiler_flags ${wl}-retain-symbols-
file,$export_symbols -o $lib'
        export_dynamic_flag_spec_CXX='${wl}-E'
        whole_archive_flag_spec_CXX="$wlarc"--whole-archive$convenience
'"$wlarc"--no-whole-archive'
    fi
    output_verbose_link_cmd='echo'
    ;;
osf3*)
    case $cc_basename in
        KCC*)
            # Kuck and Associates, Inc. (KAI) C++ Compiler

            # KCC will only create a shared library if the output file
            # ends with ".so" (or ".sl" for HP-UX), so rename the library
            # to its proper name (with version) after linking.
            archive_cmds_CXX='tempext=`echo $shared_ext | $SED -e
'\`'s/\([^\()0-9A-Za-z{}]\)/\|\\\|1/g'\`'; templib=`echo $lib | $SED -e
"s/\${tempext}\.*/.so/"`; $CC $predep_objects $libobjs $deplibs

```

```

$postdep_objects $compiler_flags --soname $soname -o \${w}templib; mv
\${w}templib $lib'

hardcode_libdir_flag_spec_CXX='${w}-rpath,$libdir'
hardcode_libdir_separator_CXX=:

# Archives containing C++ object files must be created using
# "CC -Bstatic", where "CC" is the KAI C++ compiler.
old_archive_cmds_CXX='$CC -Bstatic -o $oldlib $oldobjs'

;;
RCC*)
# Rational C++ 2.4.1
# FIXME: insert proper C++ library support
ld_shlibs_CXX=no
;;
cxx*)
allow_undefined_flag_CXX=' ${w}-expect_unresolved ${w}\*'
archive_cmds_CXX='$CC -shared${allow_undefined_flag}
$predep_objects $libobjs $deplibs $postdep_objects $compiler_flags ${w}-
soname $soname `test -n "$verstring" && echo ${w}-set_version
$verstring` -update_registry ${output_objdir}/so_locations -o $lib'

hardcode_libdir_flag_spec_CXX='${w}-rpath ${w}$libdir'
hardcode_libdir_separator_CXX=:

# Commands to make compiler produce verbose output that lists
# what "hidden" libraries, object files and flags are used when
# linking a shared library.
#
# There doesn't appear to be a way to prevent this compiler from
# explicitly linking system object files so we need to strip them
# from the output so that they don't get included in the library
# dependencies.
output_verbose_link_cmd='templist=`$CC -shared $CFLAGS -v
conftest.$objext 2>&1 | grep "ld" | grep -v "ld:"`; templist=`echo
$templist | $SED "s/\(^.*ld.*\)\( .*ld.*$\)/\1/"`; list=""; for z in
$templist; do case $z in conftest.$objext) list="$list $z";; *.$objext);;
*) list="$list $z";; esac; done; echo $list'
;;
*)
if test "$GXX" = yes && test "$with_gnu_ld" = no; then
allow_undefined_flag_CXX=' ${w}-expect_unresolved ${w}\*'
archive_cmds_CXX='$CC -shared -nostdlib ${allow_undefined_flag}
$predep_objects $libobjs $deplibs $postdep_objects $compiler_flags ${w}-
soname ${w}$soname `test -n "$verstring" && echo ${w}-set_version
${w}$verstring` ${w}-update_registry ${w}$libdir ${output_objdir}/so_locations
-o $lib'

hardcode_libdir_flag_spec_CXX='${w}-rpath ${w}$libdir'
hardcode_libdir_separator_CXX=:

# Commands to make compiler produce verbose output that lists
# what "hidden" libraries, object files and flags are used when

```

```

        # linking a shared library.
        output_verbose_link_cmd='$CC -shared $CFLAGS -v conftest.$object
2>&l | grep "\-L"'

    else
        # FIXME: insert proper C++ library support
        ld_shlibs_CXX=no
    fi
    ;;
esac
;;
osf4* | osf5*)
    case $cc_basename in
        KCC*)
            # Kuck and Associates, Inc. (KAI) C++ Compiler

            # KCC will only create a shared library if the output file
            # ends with ".so" (or ".sl" for HP-UX), so rename the library
            # to its proper name (with version) after linking.
            archive_cmds_CXX='tempext=`echo $shared_ext | $SED -e
'\''s/\([^\()0-9A-Za-z{)}\]\)/\|\|\|\|1/g'\''`; templib=`echo $lib | $SED -e
"s/\${tempext}\..*/.so/"`; $CC $predep_objects $libobjs $deplibs
$postdep_objects $compiler_flags --soname $soname -o \${templib}; mv
\${templib} $lib'

            hardcode_libdir_flag_spec_CXX='${wl}-rpath,$libdir'
            hardcode_libdir_separator_CXX=:

            # Archives containing C++ object files must be created using
            # the KAI C++ compiler.
            old_archive_cmds_CXX='$CC -o $oldlib $oldobjs'
            ;;
        RCC*)
            # Rational C++ 2.4.1
            # FIXME: insert proper C++ library support
            ld_shlibs_CXX=no
            ;;
        cxx*)
            allow_undefined_flag_CXX=' -expect_unresolved \*'
            archive_cmds_CXX='$CC -shared${allow_undefined_flag}
$predep_objects $libobjs $deplibs $postdep_objects $compiler_flags -msym
-soname $soname `test -n "$verstring" && echo -set_version $verstring` -
update_registry ${output_objdir}/so_locations -o $lib'
            archive_expsym_cmds_CXX='for i in `cat $export_symbols`; do printf
"%s %s\n" -exported_symbol "\$i" >> $lib.exp; done~
            echo "-hidden">> $lib.exp~
            $CC -shared${allow_undefined_flag} $predep_objects $libobjs
$deplibs $postdep_objects $compiler_flags -msym -soname $soname -Wl,-
input -Wl,$lib.exp `test -n "$verstring" && echo -set_version
$verstring` -update_registry ${output_objdir}/so_locations -o $lib~
            $rm $lib.exp'

            hardcode_libdir_flag_spec_CXX='-rpath $libdir'
            hardcode_libdir_separator_CXX=:
        ;;
    esac

```

```

# Commands to make compiler produce verbose output that lists
# what "hidden" libraries, object files and flags are used when
# linking a shared library.
#
# There doesn't appear to be a way to prevent this compiler from
# explicitly linking system object files so we need to strip them
# from the output so that they don't get included in the library
# dependencies.
output_verbose_link_cmd='templist=`$CC -shared $CFLAGS -v
conftest.$objext 2>&l | grep "ld" | grep -v "ld:"`; templist=`echo
$templist | $SED "s/\(^.*ld.*\)\( .*ld.*$\)/\1/"`; list=""; for z in
$templist; do case $z in conftest.$objext) list="$list $z";; *.$objext);;
*) list="$list $z";;esac; done; echo $list'
;;
*)
if test "$GXX" = yes && test "$with_gnu_ld" = no; then
    allow_undefined_flag_CXX=' ${wl}-expect_unresolved ${wl}\*'
    archive_cmds_CXX='$CC -shared -nostdlib ${allow_undefined_flag}
$predep_objects $libobjs $deplibs $postdep_objects $compiler_flags ${wl}-
msym ${wl}-soname ${wl}$soname `test -n "$verstring" && echo ${wl}-
set_version ${wl}$verstring` ${wl}-update_registry
${wl}${output_objdir}/so_locations -o $lib'

    hardcode_libdir_flag_spec_CXX='${wl}-rpath ${wl}$libdir'
    hardcode_libdir_separator_CXX=:

    # Commands to make compiler produce verbose output that lists
    # what "hidden" libraries, object files and flags are used when
    # linking a shared library.
    output_verbose_link_cmd='$CC -shared $CFLAGS -v conftest.$objext
2>&l | grep "\-L"'

else
    # FIXME: insert proper C++ library support
    ld_shlibs_CXX=no
fi
;;
esac
;;
psos*)
# FIXME: insert proper C++ library support
ld_shlibs_CXX=no
;;
sunos4*)
case $cc_basename in
    CC*)
        # Sun C++ 4.x
        # FIXME: insert proper C++ library support
        ld_shlibs_CXX=no
        ;;
    lcc*)
        # Lucid
        # FIXME: insert proper C++ library support

```

```

ld_shlibs_CXX=no
;;
*)
# FIXME: insert proper C++ library support
ld_shlibs_CXX=no
;;
esac
;;
solaris*)
case $cc_basename in
CC*)
# Sun C++ 4.2, 5.x and Centerline C++
archive_cmds_need_lc_CXX=yes
no_undefined_flag_CXX=' -zdefs'
archive_cmds_CXX='$CC -G${allow_undefined_flag} -h$soname -o $lib
$predep_objects $libobjs $deplibs $postdep_objects $compiler_flags'
archive_expsym_cmds_CXX='$echo "{ global:" > $lib.exp~cat
$export_symbols | $SED -e "s/\(.*\)/\1;/" >> $lib.exp~$echo "local: *;
};" >> $lib.exp~
$CC -G${allow_undefined_flag} ${wl}-M ${wl}$lib.exp -h$soname -o
$lib $predep_objects $libobjs $deplibs $postdep_objects
$compiler_flags~$rm $lib.exp'

hardcode_libdir_flag_spec_CXX='-R$libdir'
hardcode_shlibpath_var_CXX=no
case $host_os in
solaris2.[0-5] | solaris2.[0-5].*) ;;
*)
# The C++ compiler is used as linker so we must use $wl
# flag to pass the commands to the underlying system
# linker. We must also pass each convenience library through
# to the system linker between alleextract/defaultextract.
# The C++ compiler will combine linker options so we
# cannot just pass the convenience library names through
# without $wl.
# Supported since Solaris 2.6 (maybe 2.5.1?)
whole_archive_flag_spec_CXX='${wl}-z ${wl}alleextract`for conv
in $convenience\`"; do test -n \"$conv\" &&
new_convenience=\"$new_convenience,$conv\`; done; $echo
\"$new_convenience\` ` ${wl}-z ${wl}defaultextract'
;;
esac
link_all_deplibs_CXX=yes

output_verbose_link_cmd='echo'

# Archives containing C++ object files must be created using
# "CC -xar", where "CC" is the Sun C++ compiler. This is
# necessary to make sure instantiated templates are included
# in the archive.
old_archive_cmds_CXX='$CC -xar -o $oldlib $oldobjs'
;;
gcx*)
# Green Hills C++ Compiler

```

```

archive_cmds_CXX='$CC -shared $predep_objects $libobjs $deplibs
$postdep_objects $compiler_flags ${wl}-h $wl$soname -o $lib'

# The C++ compiler must be used to create the archive.
old_archive_cmds_CXX='$CC $LDFLAGS -archive -o $oldlib $oldobjs'
;;
*)
# GNU C++ compiler with Solaris linker
if test "$GXX" = yes && test "$with_gnu_ld" = no; then
  no_undefined_flag_CXX=' ${wl}-z ${wl}defs'
  if $CC --version | grep -v '^2\.7' > /dev/null; then
    archive_cmds_CXX='$CC -shared -nostdlib $LDFLAGS
$predep_objects $libobjs $deplibs $postdep_objects $compiler_flags ${wl}-
h $wl$soname -o $lib'
    archive_expsym_cmds_CXX='$echo "{ global:" > $lib.exp~cat
$export_symbols | $SED -e "s/\(.*\)/\1;/ " >> $lib.exp~$echo "local: *;
};" >> $lib.exp~
$CC -shared -nostdlib ${wl}-M $wl$lib.exp -o $lib
$predep_objects $libobjs $deplibs $postdep_objects $compiler_flags~$rm
$lib.exp'

# Commands to make compiler produce verbose output that lists
# what "hidden" libraries, object files and flags are used when
# linking a shared library.
output_verbose_link_cmd="$CC -shared $CFLAGS -v
conftest.$objext 2>&1 | grep \"\`-L\`\""
else
# g++ 2.7 appears to require `-G' NOT `-shared' on this
# platform.
archive_cmds_CXX='$CC -G -nostdlib $LDFLAGS $predep_objects
$libobjs $deplibs $postdep_objects $compiler_flags ${wl}-h $wl$soname -o
$lib'
archive_expsym_cmds_CXX='$echo "{ global:" > $lib.exp~cat
$export_symbols | $SED -e "s/\(.*\)/\1;/ " >> $lib.exp~$echo "local: *;
};" >> $lib.exp~
$CC -G -nostdlib ${wl}-M $wl$lib.exp -o $lib $predep_objects
$libobjs $deplibs $postdep_objects $compiler_flags~$rm $lib.exp'

# Commands to make compiler produce verbose output that lists
# what "hidden" libraries, object files and flags are used when
# linking a shared library.
output_verbose_link_cmd="$CC -G $CFLAGS -v conftest.$objext
2>&1 | grep \"\`-L\`\""
fi

hardcode_libdir_flag_spec_CXX='${wl}-R $wl$libdir'
fi
;;
esac
;;
sysv4*uw2* | sysv5OpenUNIX* | sysv5UnixWare7.[01].[10]* | unixware7* |
sco3.2v5.0.[024]*)
no_undefined_flag_CXX='${wl}-z,text'
archive_cmds_need_lc_CXX=no

```

```

hardcode_shlibpath_var_CXX=no
runpath_var='LD_RUN_PATH'

case $cc_basename in
  CC*)
    archive_cmds_CXX='$CC -G ${wl}-h,$soname -o $lib $libobjs $deplibs
$compiler_flags'
    archive_expsym_cmds_CXX='$CC -G ${wl}-Bexport:$export_symbols
${wl}-h,$soname -o $lib $libobjs $deplibs $compiler_flags'
    ;;
  *)
    archive_cmds_CXX='$CC -shared ${wl}-h,$soname -o $lib $libobjs
$deplibs $compiler_flags'
    archive_expsym_cmds_CXX='$CC -shared ${wl}-Bexport:$export_symbols
${wl}-h,$soname -o $lib $libobjs $deplibs $compiler_flags'
    ;;
esac
;;
sysv5* | sco3.2v5* | sco5v6*)
# Note: We can NOT use -z defs as we might desire, because we do not
# link with -lc, and that would cause any symbols used from libc to
# always be unresolved, which means just about no library would
# ever link correctly.  If we're not using GNU ld we use -z text
# though, which does catch some bad symbols but isn't as heavy-handed
# as -z defs.
# For security reasons, it is highly recommended that you always
# use absolute paths for naming shared libraries, and exclude the
# DT_RUNPATH tag from executables and libraries.  But doing so
# requires that you compile everything twice, which is a pain.
# So that behaviour is only enabled if SCOABSPATH is set to a
# non-empty value in the environment.  Most likely only useful for
# creating official distributions of packages.
# This is a hack until libtool officially supports absolute path
# names for shared libraries.
no_undefined_flag_CXX='${wl}-z,text'
allow_undefined_flag_CXX='${wl}-z,undefs'
archive_cmds_need_lc_CXX=no
hardcode_shlibpath_var_CXX=no
hardcode_libdir_flag_spec_CXX='`test -z "$SCOABSPATH" && echo ${wl}-
R,$libdir`'
hardcode_libdir_separator_CXX=':'
link_all_deplibs_CXX=yes
export_dynamic_flag_spec_CXX='${wl}-Bexport'
runpath_var='LD_RUN_PATH'

case $cc_basename in
  CC*)
    archive_cmds_CXX='$CC -G ${wl}-
h,\${SCOABSPATH:+${install_libdir}/}$soname -o $lib $libobjs $deplibs
$compiler_flags'
    archive_expsym_cmds_CXX='$CC -G ${wl}-Bexport:$export_symbols
${wl}-h,\${SCOABSPATH:+${install_libdir}/}$soname -o $lib $libobjs
$deplibs $compiler_flags'
    ;;

```

```

        *)
        archive_cmds_CXX='$CC -shared ${wl}-
h,\${SCOABSPATH:+\${install_libdir}/}$soname -o $lib $libobjs $deplibs
$compiler_flags'
        archive_expsym_cmds_CXX='$CC -shared ${wl}-Bexport:$export_symbols
${wl}-h,\${SCOABSPATH:+\${install_libdir}/}$soname -o $lib $libobjs
$deplibs $compiler_flags'
        ;;
    esac
    ;;
tandem*)
    case $cc_basename in
        NCC*)
            # NonStop-UX NCC 3.20
            # FIXME: insert proper C++ library support
            ld_shlibs_CXX=no
            ;;
        *)
            # FIXME: insert proper C++ library support
            ld_shlibs_CXX=no
            ;;
    esac
    ;;
vxworks*)
    # FIXME: insert proper C++ library support
    ld_shlibs_CXX=no
    ;;
*)
    # FIXME: insert proper C++ library support
    ld_shlibs_CXX=no
    ;;
esac
echo "$as_me:$LINENO: result: $ld_shlibs_CXX" >&5
echo "${ECHO_T}$ld_shlibs_CXX" >&6
test "$ld_shlibs_CXX" = no && can_build_shared=no

GCC_CXX="$GXX"
LD_CXX="$LD"

cat > conftest.$ac_ext <<EOF
class Foo
{
public:
    Foo (void) { a = 0; }
private:
    int a;
};
EOF

if { (eval echo "$as_me:$LINENO: \"\$ac_compile\"") >&5
    (eval $ac_compile) 2>&5
    ac_status=$?
    echo "$as_me:$LINENO: \$? = $ac_status" >&5

```



```

(exit $ac_status); }; then
# Parse the compiler output and extract the necessary
# objects, libraries and library flags.

# Sentinel used to keep track of whether or not we are before
# the conftest object file.
pre_test_object_deps_done=no

# The '*' in the case matches for architectures that use `case' in
# $output_verbose_cmd can trigger glob expansion during the loop
# eval without this substitution.
output_verbose_link_cmd=`$echo "X$output_verbose_link_cmd" | $Xsed -e
"$no_glob_subst"`

for p in `eval $output_verbose_link_cmd`; do
  case $p in

    -L* | -R* | -l*)
      # Some compilers place space between "-{L,R}" and the path.
      # Remove the space.
      if test $p = "-L" \
        || test $p = "-R"; then
        prev=$p
        continue
      else
        prev=
      fi

      if test "$pre_test_object_deps_done" = no; then
        case $p in
          -L* | -R*)
            # Internal compiler library paths should come after those
            # provided the user. The postdeps already come after the
            # user supplied libs so there is no need to process them.
            if test -z "$compiler_lib_search_path_CXX"; then
              compiler_lib_search_path_CXX="${prev}${p}"
            else
              compiler_lib_search_path_CXX="${compiler_lib_search_path_CXX}
${prev}${p}"
            fi
          ;;
          # The "-l" case would never come before the object being
          # linked, so don't bother handling this case.
          esac
        else
          if test -z "$postdeps_CXX"; then
            postdeps_CXX="${prev}${p}"
          else
            postdeps_CXX="${postdeps_CXX} ${prev}${p}"
          fi
        fi
      fi
    *.${objext})

```

```

# This assumes that the test object file only shows up
# once in the compiler output.
if test "$p" = "conftest.$objext"; then
pre_test_object_deps_done=yes
continue
fi

if test "$pre_test_object_deps_done" = no; then
if test -z "$predep_objects_CXX"; then
predep_objects_CXX="$p"
else
predep_objects_CXX="$predep_objects_CXX $p"
fi
else
if test -z "$postdep_objects_CXX"; then
postdep_objects_CXX="$p"
else
postdep_objects_CXX="$postdep_objects_CXX $p"
fi
fi
fi
;;

*) ;; # Ignore the rest.

esac
done

# Clean up.
rm -f a.out a.exe
else
echo "libtool.m4: error: problem compiling CXX test program"
fi

$rm -f confest.$objext

# PORTME: override above test on systems where it is broken
case $host_os in
interix3*)
# Interix 3.5 installs completely hosed .la files for C++, so rather
than
# hack all around it, let's just trust "g++" to DTRT.
predep_objects_CXX=
postdep_objects_CXX=
postdeps_CXX=
;;

solaris*)
case $cc_basename in
CC*)
# Adding this requires a known-good setup of shared libraries for
# Sun compiler versions before 5.6, else PIC objects from an old
# archive will be linked into the output, leading to subtle bugs.
postdeps_CXX='-lCstd -lCrun'
;;

```

```

    esac
    ;;
esac

case " $postdeps_CXX " in
*" -lc "*) archive_cmds_need_lc_CXX=no ;;
esac

lt_prog_compiler_wl_CXX=
lt_prog_compiler_pic_CXX=
lt_prog_compiler_static_CXX=

echo "$as_me:$LINENO: checking for $compiler option to produce PIC" >&5
echo $ECHO_N "checking for $compiler option to produce PIC... $ECHO_C"
>&6

# C++ specific cases for pic, static, wl, etc.
if test "$GXX" = yes; then
    lt_prog_compiler_wl_CXX='-Wl,'
    lt_prog_compiler_static_CXX='-static'

    case $host_os in
    aix*)
        # All AIX code is PIC.
        if test "$host_cpu" = ia64; then
            # AIX 5 now supports IA64 processor
            lt_prog_compiler_static_CXX='-Bstatic'
        fi
        ;;
    amigaos*)
        # FIXME: we need at least 68020 code to build shared libraries, but
        # adding the '-m68020' flag to GCC prevents building anything
        better,
        # like '-m68040'.
        lt_prog_compiler_pic_CXX='-m68020 -resident32 -malways-restore-a4'
        ;;
    beos* | cygwin* | irix5* | irix6* | nonstopux* | osf3* | osf4* |
    osf5*)
        # PIC is the default for these OSes.
        ;;
    mingw* | os2* | pw32*)
        # This hack is so that the source file can tell whether it is being
        # built for inclusion in a dll (and should export symbols for
        example).
        lt_prog_compiler_pic_CXX='-DDLL_EXPORT'
        ;;
    darwin* | rhapsody*)
        # PIC is the default on this platform
        # Common symbols not allowed in MH_DYLIB files
        lt_prog_compiler_pic_CXX='-fno-common'
        ;;
    *djgpp*)
        # DJGPP does not support shared libraries at all

```

```

    lt_prog_compiler_pic_CXX=
    ;;
interix3*)
    # Interix 3.x gcc -fpic/-fPIC options generate broken code.
    # Instead, we relocate shared libraries at runtime.
    ;;
sysv4*MP*)
    if test -d /usr/nec; then
        lt_prog_compiler_pic_CXX=-Kconform_pic
    fi
    ;;
hpux*)
    # PIC is the default for IA64 HP-UX and 64-bit HP-UX, but
    # not for PA HP-UX.
    case $host_cpu in
        hppa*64*|ia64*)
            ;;
        *)
            lt_prog_compiler_pic_CXX='-fPIC'
            ;;
    esac
    ;;
*)
    lt_prog_compiler_pic_CXX='-fPIC'
    ;;
esac
else
    case $host_os in
        aix4* | aix5*)
            # All AIX code is PIC.
            if test "$host_cpu" = ia64; then
                # AIX 5 now supports IA64 processor
                lt_prog_compiler_static_CXX='-Bstatic'
            else
                lt_prog_compiler_static_CXX='-bnso -bI:/lib/syscalls.exp'
            fi
            ;;
        chorus*)
            case $cc_basename in
                cxch68*)
                    # Green Hills C++ Compiler
                    # _LT_AC_TAGVAR(lt_prog_compiler_static, CXX)="--
no_auto_instantiation -u __main -u __premain -u __abort -r
$COOL_DIR/lib/libOrb.a $MVME_DIR/lib/CC/libC.a
$MVME_DIR/lib/classix/libcx.s.a"
                    ;;
            esac
            ;;
        darwin*)
            # PIC is the default on this platform
            # Common symbols not allowed in MH_DYLIB files
            case $cc_basename in
                xlc*)
                    lt_prog_compiler_pic_CXX='-qnocommon'
                ;;
            esac
        ;;
    esac

```

```

        lt_prog_compiler_wl_CXX='-Wl,'
        ;;
    esac
    ;;
dgux*)
case $cc_basename in
ec+*)
    lt_prog_compiler_pic_CXX='-KPIC'
    ;;
ghcx*)
    # Green Hills C++ Compiler
    lt_prog_compiler_pic_CXX='-pic'
    ;;
*)
    ;;
esac
;;
freebsd* | kfreebsd*-gnu | dragonfly*)
# FreeBSD uses GNU C++
;;
hpux9* | hpux10* | hpux11*)
case $cc_basename in
CC*)
    lt_prog_compiler_wl_CXX='-Wl,'
    lt_prog_compiler_static_CXX='${wl}-a ${wl}archive'
    if test "$host_cpu" != ia64; then
        lt_prog_compiler_pic_CXX='+Z'
    fi
    ;;
aCC*)
    lt_prog_compiler_wl_CXX='-Wl,'
    lt_prog_compiler_static_CXX='${wl}-a ${wl}archive'
    case $host_cpu in
        hppa*64*|ia64*)
            # +Z the default
            ;;
        *)
            lt_prog_compiler_pic_CXX='+Z'
            ;;
    esac
    ;;
*)
    ;;
esac
;;
interix*)
# This is c89, which is MS Visual C++ (no shared libs)
# Anyone wants to do a port?
;;
irix5* | irix6* | nonstopux*)
case $cc_basename in
CC*)
    lt_prog_compiler_wl_CXX='-Wl,'
    lt_prog_compiler_static_CXX='-non_shared'

```

```

        # CC pic flag -KPIC is the default.
        ;;
    *)
        ;;
esac
;;
linux*)
case $cc_basename in
    KCC*)
        # KAI C++ Compiler
        lt_prog_compiler_wl_CXX='--backend -Wl,'
        lt_prog_compiler_pic_CXX='-fPIC'
        ;;
    icpc* | ecpc*)
        # Intel C++
        lt_prog_compiler_wl_CXX='-Wl,'
        lt_prog_compiler_pic_CXX='-KPIC'
        lt_prog_compiler_static_CXX='-static'
        ;;
    pgCC*)
        # Portland Group C++ compiler.
        lt_prog_compiler_wl_CXX='-Wl,'
        lt_prog_compiler_pic_CXX='-fpic'
        lt_prog_compiler_static_CXX='-Bstatic'
        ;;
    cxx*)
        # Compaq C++
        # Make sure the PIC flag is empty. It appears that all Alpha
        # Linux and Compaq Tru64 Unix objects are PIC.
        lt_prog_compiler_pic_CXX=
        lt_prog_compiler_static_CXX='-non_shared'
        ;;
    *)
        ;;
esac
;;
lynxos*)
;;
m88k*)
;;
mvs*)
case $cc_basename in
    cxx*)
        lt_prog_compiler_pic_CXX='-W c,exportall'
        ;;
    *)
        ;;
esac
;;
netbsd*)
;;
osf3* | osf4* | osf5*)
case $cc_basename in
    KCC*)

```

```

    lt_prog_compiler_wl_CXX='--backend -Wl,'
    ;;
RCC*)
    # Rational C++ 2.4.1
    lt_prog_compiler_pic_CXX='-pic'
    ;;
cxx*)
    # Digital/Compaq C++
    lt_prog_compiler_wl_CXX='-Wl,'
    # Make sure the PIC flag is empty. It appears that all Alpha
    # Linux and Compaq Tru64 Unix objects are PIC.
    lt_prog_compiler_pic_CXX=
    lt_prog_compiler_static_CXX='-non_shared'
    ;;
*)
    ;;
esac
;;
psos*)
;;
solaris*)
case $cc_basename in
    CC*)
        # Sun C++ 4.2, 5.x and Centerline C++
        lt_prog_compiler_pic_CXX='-KPIC'
        lt_prog_compiler_static_CXX='-Bstatic'
        lt_prog_compiler_wl_CXX='-Qoption ld '
        ;;
    gcx*)
        # Green Hills C++ Compiler
        lt_prog_compiler_pic_CXX='-PIC'
        ;;
    *)
        ;;
esac
;;
sunos4*)
case $cc_basename in
    CC*)
        # Sun C++ 4.x
        lt_prog_compiler_pic_CXX='-pic'
        lt_prog_compiler_static_CXX='-Bstatic'
        ;;
    lcc*)
        # Lucid
        lt_prog_compiler_pic_CXX='-pic'
        ;;
    *)
        ;;
esac
;;
tandem*)
case $cc_basename in
    NCC*)

```

```

        # NonStop-UX NCC 3.20
        lt_prog_compiler_pic_CXX='-KPIC'
        ;;
    *)
        ;;
esac
;;
sysv5* | unixware* | sco3.2v5* | sco5v6* | OpenUNIX*)
case $cc_basename in
    CC*)
        lt_prog_compiler_wl_CXX='-Wl,'
        lt_prog_compiler_pic_CXX='-KPIC'
        lt_prog_compiler_static_CXX='-Bstatic'
        ;;
    esac
    ;;
    vxworks*)
        ;;
    *)
        lt_prog_compiler_can_build_shared_CXX=no
        ;;
esac
fi

echo "$as_me:$LINENO: result: $lt_prog_compiler_pic_CXX" >&5
echo "${ECHO_T}$lt_prog_compiler_pic_CXX" >&6

#
# Check to make sure the PIC flag actually works.
#
if test -n "$lt_prog_compiler_pic_CXX"; then

echo "$as_me:$LINENO: checking if $compiler PIC flag
$lt_prog_compiler_pic_CXX works" >&5
echo $ECHO_N "checking if $compiler PIC flag $lt_prog_compiler_pic_CXX
works... $ECHO_C" >&6
if test "${lt_prog_compiler_pic_works_CXX+set}" = set; then
    echo $ECHO_N "(cached) $ECHO_C" >&6
else
    lt_prog_compiler_pic_works_CXX=no
    ac_outfile=conftest.$ac_objext
    printf "$lt_simple_compile_test_code" > conftest.$ac_ext
    lt_compiler_flag="$lt_prog_compiler_pic_CXX -DPIC"
    # Insert the option either (1) after the last *FLAGS variable, or
    # (2) before a word containing "conftest.", or (3) at the end.
    # Note that $ac_compile itself does not contain backslashes and begins
    # with a dollar sign (not a hyphen), so the echo should work
correctly.
    # The option is referenced via a variable to avoid confusing sed.
    lt_compile=`echo "$ac_compile" | $SED \
-e 's:.*FLAGS}\{0,1\}:&$lt_compiler_flag ;; t' \
-e 's: [^ ]*conftest\.: $lt_compiler_flag&;; t' \
-e 's:$: $lt_compiler_flag:'`
    (eval echo "`"$as_me:11696: $lt_compile`" >&5)

```



```

(eval "$lt_compile" 2>confptest.err)
ac_status=$?
cat confptest.err >&5
echo "$as_me:11700: \ $? = $ac_status" >&5
if (exit $ac_status) && test -s "$ac_outfile"; then
  # The compiler can only warn and ignore the option if not recognized
  # So say no if there are warnings other than the usual output.
  $echo "X$lt_compiler_boilerplate" | $Xsed -e '/^$/d' >confptest.exp
  $SED '/^$/d; /^ *+/d' confptest.err >confptest.er2
  if test ! -s confptest.er2 || diff confptest.exp confptest.er2
>/dev/null; then
    lt_prog_compiler_pic_works_CXX=yes
  fi
fi
$rm confptest*

fi
echo "$as_me:$LINENO: result: $lt_prog_compiler_pic_works_CXX" >&5
echo "${ECHO_T}$lt_prog_compiler_pic_works_CXX" >&6

if test x"$lt_prog_compiler_pic_works_CXX" = xyes; then
  case $lt_prog_compiler_pic_CXX in
    "" | " *") ;;
    *) lt_prog_compiler_pic_CXX="$lt_prog_compiler_pic_CXX" ;;
  esac
else
  lt_prog_compiler_pic_CXX=
  lt_prog_compiler_can_build_shared_CXX=no
fi

fi
case $host_os in
  # For platforms which do not support PIC, -DPIC is meaningless:
  *djgpp*)
    lt_prog_compiler_pic_CXX=
    ;;
  *)
    lt_prog_compiler_pic_CXX="$lt_prog_compiler_pic_CXX -DPIC"
    ;;
esac

#
# Check to make sure the static flag actually works.
#
wl=$lt_prog_compiler_wl_CXX eval
lt_tmp_static_flag="\ $lt_prog_compiler_static_CXX\"
echo "$as_me:$LINENO: checking if $compiler static flag
$lt_tmp_static_flag works" >&5
echo $ECHO_N "checking if $compiler static flag $lt_tmp_static_flag
works... $ECHO_C" >&6
if test "${lt_prog_compiler_static_works_CXX+set}" = set; then
  echo $ECHO_N "(cached) $ECHO_C" >&6
else
  lt_prog_compiler_static_works_CXX=no

```

```

save_LDFLAGS="$LDFLAGS"
LDFLAGS="$LDFLAGS $lt_tmp_static_flag"
printf "$lt_simple_link_test_code" > conftest.$ac_ext
if (eval $ac_link 2>conftest.err) && test -s conftest.$ac_exeext; then
  # The linker can only warn and ignore the option if not recognized
  # So say no if there are warnings
  if test -s conftest.err; then
    # Append any errors to the config.log.
    cat conftest.err 1>&5
    $echo "X$lt_linker_boilerplate" | $Xsed -e '/^$/d' > conftest.exp
    $SED '/^$/d; /^ *+/d' conftest.err >conftest.er2
    if diff conftest.exp conftest.er2 >/dev/null; then
      lt_prog_compiler_static_works_CXX=yes
    fi
  else
    lt_prog_compiler_static_works_CXX=yes
  fi
fi
$rm conftest*
LDFLAGS="$save_LDFLAGS"

fi
echo "$as_me:$LINENO: result: $lt_prog_compiler_static_works_CXX" >&5
echo "${ECHO_T}$lt_prog_compiler_static_works_CXX" >&6

if test x"$lt_prog_compiler_static_works_CXX" = xyes; then
  :
else
  lt_prog_compiler_static_CXX=
fi

echo "$as_me:$LINENO: checking if $compiler supports -c -o
file.$ac_objext" >&5
echo $ECHO_N "checking if $compiler supports -c -o file.$ac_objext...
$ECHO_C" >&6
if test "${lt_cv_prog_compiler_c_o_CXX+set}" = set; then
  echo $ECHO_N "(cached) $ECHO_C" >&6
else
  lt_cv_prog_compiler_c_o_CXX=no
  $rm -r conftest 2>/dev/null
  mkdir conftest
  cd conftest
  mkdir out
  printf "$lt_simple_compile_test_code" > conftest.$ac_ext

  lt_compiler_flag="-o out/conftest2.$ac_objext"
  # Insert the option either (1) after the last *FLAGS variable, or
  # (2) before a word containing "conftest.", or (3) at the end.
  # Note that $ac_compile itself does not contain backslashes and begins
  # with a dollar sign (not a hyphen), so the echo should work
  correctly.
  lt_compile=`echo "$ac_compile" | $SED \
    -e 's:.*FLAGS}\{0,1}\} :&$lt_compiler_flag ;; t' \

```

```

-e 's: [^ ]*confptest\.: $lt_compiler_flag&; t' \
-e 's:$: $lt_compiler_flag:'`
(eval echo "\"\$as_me:11800: $lt_compile\"" >&5)
(eval "$lt_compile" 2>out/confptest.err)
ac_status=$?
cat out/confptest.err >&5
echo "$as_me:11804: \ $? = $ac_status" >&5
if (exit $ac_status) && test -s out/confptest2.$ac_objext
then
  # The compiler can only warn and ignore the option if not recognized
  # So say no if there are warnings
  $echo "X$lt_compiler_boilerplate" | $Xsed -e '/^$/d' >
out/confptest.exp
  $SED '/^$/d; /^ *+/d' out/confptest.err >out/confptest.er2
  if test ! -s out/confptest.er2 || diff out/confptest.exp
out/confptest.er2 >/dev/null; then
    lt_cv_prog_compiler_c_o_CXX=yes
  fi
fi
chmod u+w . 2>&5
$rm confptest*
# SGI C++ compiler will create directory out/ii_files/ for
# template instantiation
test -d out/ii_files && $rm out/ii_files/* && rmdir out/ii_files
$rm out/* && rmdir out
cd ..
rmdir confptest
$rm confptest*

fi
echo "$as_me:$LINENO: result: $lt_cv_prog_compiler_c_o_CXX" >&5
echo "${ECHO_T}$lt_cv_prog_compiler_c_o_CXX" >&6

hard_links="nottested"
if test "$lt_cv_prog_compiler_c_o_CXX" = no && test "$need_locks" != no;
then
  # do not overwrite the value of need_locks provided by the user
  echo "$as_me:$LINENO: checking if we can lock with hard links" >&5
echo $ECHO_N "checking if we can lock with hard links... $ECHO_C" >&6
  hard_links=yes
  $rm confptest*
  ln confptest.a confptest.b 2>/dev/null && hard_links=no
  touch confptest.a
  ln confptest.a confptest.b 2>&5 || hard_links=no
  ln confptest.a confptest.b 2>/dev/null && hard_links=no
  echo "$as_me:$LINENO: result: $hard_links" >&5
echo "${ECHO_T}$hard_links" >&6
  if test "$hard_links" = no; then
    { echo "$as_me:$LINENO: WARNING: \ `GCC' does not support \ `-c -o', so
\ `make -j' may be unsafe" >&5
echo "$as_me: WARNING: \ `GCC' does not support \ `-c -o', so \ `make -j'
may be unsafe" >&2;}
    need_locks=warn

```

```

    fi
else
    need_locks=no
fi

echo "$as_me:$LINENO: checking whether the $compiler linker ($LD)
supports shared libraries" >&5
echo $ECHO_N "checking whether the $compiler linker ($LD) supports shared
libraries... $ECHO_C" >&6

    export_symbols_cmds_CXX='$NM $libobjs $convenience |
$global_symbol_pipe | $SED '\''s/.*/\|'\'' | sort | uniq >
$export_symbols'
    case $host_os in
    aix4* | aix5*)
        # If we're using GNU nm, then we don't want the "-C" option.
        # -C means demangle to AIX nm, but means don't demangle with GNU nm
        if $NM -V 2>&1 | grep 'GNU' > /dev/null; then
            export_symbols_cmds_CXX='$NM -Bpg $libobjs $convenience | awk '\''{
if (((\2 == "T") || (\2 == "D") || (\2 == "B")) && (substr(\3,1,1) !=
".")) { print \3 } }'\'' | sort -u > $export_symbols'
        else
            export_symbols_cmds_CXX='$NM -BCpg $libobjs $convenience | awk
'\''{ if (((\2 == "T") || (\2 == "D") || (\2 == "B")) &&
(substr(\3,1,1) != ".")) { print \3 } }'\'' | sort -u >
$export_symbols'
        fi
        ;;
    pw32*)
        export_symbols_cmds_CXX="$ltdll_cmds"
        ;;
    cygwin* | mingw*)
        export_symbols_cmds_CXX='$NM $libobjs $convenience |
$global_symbol_pipe | $SED -e '\''/^[[BCDGRS]]/s/.*/\([^\ ]*\)\|1
DATA;/^.* __nm_/s/^.* __nm_\([^\ ]*\)\ [^ ]*/\1 DATA;/^I /d;/^[[AITW]]
/s/.*/\|'\'' | sort | uniq > $export_symbols'
        ;;
    *)
        export_symbols_cmds_CXX='$NM $libobjs $convenience |
$global_symbol_pipe | $SED '\''s/.*/\|'\'' | sort | uniq >
$export_symbols'
        ;;
    esac

echo "$as_me:$LINENO: result: $ld_shlibs_CXX" >&5
echo "${ECHO_T}$ld_shlibs_CXX" >&6
test "$ld_shlibs_CXX" = no && can_build_shared=no

#
# Do we need to explicitly link libc?
#
case "x$archive_cmds_need_lc_CXX" in
x|yes)
    # Assume -lc should be added

```

```

archive_cmds_need_lc_CXX=yes

if test "$enable_shared" = yes && test "$GCC" = yes; then
  case $archive_cmds_CXX in
    *~'*)
      # FIXME: we may have to deal with multi-command sequences.
      ;;
    '$CC '*)
      # Test whether the compiler implicitly links with -lc since on some
      # systems, -lgcc has to come before -lc. If gcc already passes -lc
      # to ld, don't add -lc before -lgcc.
      echo "$as_me:$LINENO: checking whether -lc should be explicitly
linked in" >&5
      echo $ECHO_N "checking whether -lc should be explicitly linked in...
$ECHO_C" >&6
      $rm conftest*
      printf "$lt_simple_compile_test_code" > conftest.$ac_ext

      if { (eval echo "$as_me:$LINENO: \"$ac_compile\"" >&5
(eval $ac_compile) 2>&5
ac_status=$?
echo "$as_me:$LINENO: \ $? = $ac_status" >&5
(exit $ac_status); } 2>conftest.err; then
        soname=conftest
        lib=conftest
        libobjs=conftest.$ac_objext
        deplibs=
        wl=$lt_prog_compiler_wl_CXX
        pic_flag=$lt_prog_compiler_pic_CXX
        compiler_flags=-v
        linker_flags=-v
        verstring=
        output_objdir=.
        libname=conftest
        lt_save_allow_undefined_flag=$allow_undefined_flag_CXX
        allow_undefined_flag_CXX=
        if { (eval echo "$as_me:$LINENO: \"$archive_cmds_CXX 2\>\&1 \ |
grep \" -lc \" \>/dev/null 2\>\&1\"" >&5
(eval $archive_cmds_CXX 2\>\&1 \ | grep \" -lc \" \>/dev/null 2\>\&1)
2>&5
ac_status=$?
echo "$as_me:$LINENO: \ $? = $ac_status" >&5
(exit $ac_status); }
        then
          archive_cmds_need_lc_CXX=no
        else
          archive_cmds_need_lc_CXX=yes
        fi
        allow_undefined_flag_CXX=$lt_save_allow_undefined_flag
      else
        cat conftest.err 1>&5
      fi
      $rm conftest*
      echo "$as_me:$LINENO: result: $archive_cmds_need_lc_CXX" >&5

```

```

echo "${ECHO_T}$archive_cmds_need_lc_CXX" >&6
    ;;
    esac
fi
;;
esac

echo "$as_me:$LINENO: checking dynamic linker characteristics" >&5
echo $ECHO_N "checking dynamic linker characteristics... $ECHO_C" >&6
library_names_spec=
libname_spec='lib$name'
soname_spec=
shrext_cmds=".so"
postinstall_cmds=
postuninstall_cmds=
finish_cmds=
finish_eval=
shlibpath_var=
shlibpath_overrides_runpath=unknown
version_type=none
dynamic_linker="$host_os ld.so"
sys_lib_dlsearch_path_spec="/lib /usr/lib"
if test "$GCC" = yes; then
    sys_lib_search_path_spec=`$CC -print-search-dirs | grep "^libraries:" |
$SED -e "s/^libraries://" -e "s,=,/,g"`
    if echo "$sys_lib_search_path_spec" | grep ';' >/dev/null ; then
        # if the path contains ";" then we assume it to be the separator
        # otherwise default to the standard path separator (i.e. ":") - it is
        # assumed that no part of a normal pathname contains ";" but that
        should
        # okay in the real world where ";" in dirpaths is itself problematic.
        sys_lib_search_path_spec=`echo "$sys_lib_search_path_spec" | $SED -e
's;/ /g'`
    else
        sys_lib_search_path_spec=`echo "$sys_lib_search_path_spec" | $SED -e
"s/$PATH_SEPARATOR/ /g"`
    fi
else
    sys_lib_search_path_spec="/lib /usr/lib /usr/local/lib"
fi
need_lib_prefix=unknown
hardcode_into_libs=no

# when you set need_version to no, make sure it does not cause -
set_version
# flags to be left without arguments
need_version=unknown

case $host_os in
aix3*)
    version_type=linux
    library_names_spec='${libname}${release}${shared_ext}$versuffix
$libname.a'
    shlibpath_var=LIBPATH

```

```

# AIX 3 has no versioning support, so we append a major version to the
name.
soname_spec='${libname}${release}${shared_ext}$major'
;;

aix4* | aix5*)
version_type=linux
need_lib_prefix=no
need_version=no
hardcode_into_libs=yes
if test "$host_cpu" = ia64; then
# AIX 5 supports IA64
library_names_spec='${libname}${release}${shared_ext}$major
${libname}${release}${shared_ext}$versuffix $libname${shared_ext}'
shlibpath_var=LD_LIBRARY_PATH
else
# With GCC up to 2.95.x, collect2 would create an import file
# for dependence libraries. The import file would start with
# the line `#! .' . This would cause the generated library to
# depend on `.', always an invalid library. This was fixed in
# development snapshots of GCC prior to 3.0.
case $host_os in
aix4 | aix4.[01] | aix4.[01].*)
if { echo '#if __GNUC__ > 2 || (__GNUC__ == 2 && __GNUC_MINOR__ >=
97)';
echo ' yes '
echo '#endif'; } | ${CC} -E - | grep yes > /dev/null; then
:
else
can_build_shared=no
fi
fi
;;
esac
# AIX (on Power*) has no versioning support, so currently we can not
hardcode correct
# soname into executable. Probably we can add versioning support to
# collect2, so additional links can be useful in future.
if test "$aix_use_runtimelinking" = yes; then
# If using run time linking (on AIX 4.2 or later) use lib<name>.so
# instead of lib<name>.a to let people know that these are not
# typical AIX shared libraries.
library_names_spec='${libname}${release}${shared_ext}$versuffix
${libname}${release}${shared_ext}$major $libname${shared_ext}'
else
# We preserve .a as extension for shared libraries through AIX4.2
# and later when we are not doing run time linking.
library_names_spec='${libname}${release}.a $libname.a'
soname_spec='${libname}${release}${shared_ext}$major'
fi
shlibpath_var=LIBPATH
fi
;;

```

```

amigaos*)
    library_names_spec='$libname.ixlibrary $libname.a'
    # Create ${libname}_ixlibrary.a entries in /sys/libs.
    finish_eval='for lib in `ls $libdir/*.ixlibrary 2>/dev/null`; do
libname=`$echo "X$lib" | $Xsed -e
'\''s%^.*/\([^/]*\)\\.ixlibrary$%\1%\''`; test $rm
/sys/libs/${libname}_ixlibrary.a; $show "cd /sys/libs && $LN_S $lib
${libname}_ixlibrary.a"; cd /sys/libs && $LN_S $lib
${libname}_ixlibrary.a || exit 1; done'
    ;;

beos*)
    library_names_spec='${libname}${shared_ext}'
    dynamic_linker="$host_os ld.so"
    shlibpath_var=LIBRARY_PATH
    ;;

bsdi[45]*)
    version_type=linux
    need_version=no
    library_names_spec='${libname}${release}${shared_ext}$versuffix
${libname}${release}${shared_ext}$major $libname${shared_ext}'
    soname_spec='${libname}${release}${shared_ext}$major'
    finish_cmds='PATH="$PATH:/sbin" ldconfig $libdir'
    shlibpath_var=LD_LIBRARY_PATH
    sys_lib_search_path_spec="/shlib /usr/lib /usr/X11/lib /usr/contrib/lib
/lib /usr/local/lib"
    sys_lib_dlsearch_path_spec="/shlib /usr/lib /usr/local/lib"
    # the default ld.so.conf also contains /usr/contrib/lib and
    # /usr/X11R6/lib (/usr/X11 is a link to /usr/X11R6), but let us allow
    # libtool to hard-code these into programs
    ;;

cygwin* | mingw* | pw32*)
    version_type=windows
    shrext_cmds=".dll"
    need_version=no
    need_lib_prefix=no

    case $GCC,$host_os in
    yes,cygwin* | yes,mingw* | yes,pw32*)
        library_names_spec='$libname.dll.a'
        # DLL is installed to $(libdir)/../bin by postinstall_cmds
        postinstall_cmds='base_file=`basename \${file}`~
        dlpath=`$SHELL 2>&1 -c '\''. $dir/\'''\${base_file}'\''\`i;echo
\${dlname}'\''`~
        dldir=$destdir/`dirname \${dlpath}`~
        test -d \${dldir} || mkdir -p \${dldir}~
        $install_prog $dir/\${dlname} \${dldir}/\${dlname}~
        chmod a+x \${dldir}/\${dlname}'
        postuninstall_cmds='dldll=`$SHELL 2>&1 -c '\''. $file; echo
\${dlname}'\''`~
        dlpath=$dir/\${dldll}~
        $rm \${dlpath}'
    esac

```



```

shlibpath_overrides_runpath=yes

case $host_os in
  cygwin*)
    # Cygwin DLLs use 'cyg' prefix rather than 'lib'
    soname_spec=`echo ${libname} | sed -e 's/^lib/cyg/'`echo
    ${release} | $SED -e 's/[.]/-/g'`${versuffix}${shared_ext}'
    sys_lib_search_path_spec="/usr/lib /lib/w32api /lib /usr/local/lib"
    ;;
  mingw*)
    # MinGW DLLs use traditional 'lib' prefix
    soname_spec='${libname}`echo ${release} | $SED -e 's/[.]/-/g'`${versuffix}${shared_ext}'
    sys_lib_search_path_spec=`$CC -print-search-dirs | grep
    "^libraries:" | $SED -e "s/^libraries://" -e "s,=,/,g"`
    if echo "$sys_lib_search_path_spec" | grep '[c-zA-Z]:/'
    >/dev/null; then
      # It is most probably a Windows format PATH printed by
      # mingw gcc, but we are running on Cygwin. Gcc prints its search
      # path with ; separators, and with drive letters. We can handle
      the
      # drive letters (cygwin fileutils understands them), so leave
      them,
      # especially as we might pass files found there to a mingw
      objdump,
      # which wouldn't understand a cygwinified path. Ahh.
      sys_lib_search_path_spec=`echo "$sys_lib_search_path_spec" | $SED
      -e 's;/ /g'`
    else
      sys_lib_search_path_spec=`echo "$sys_lib_search_path_spec" | $SED
      -e "s/$PATH_SEPARATOR/ /g"`
    fi
    ;;
  pw32*)
    # pw32 DLLs use 'pw' prefix rather than 'lib'
    library_names_spec=`echo ${libname} | sed -e 's/^lib/pw/'`echo
    ${release} | $SED -e 's/[.]/-/g'`${versuffix}${shared_ext}'
    ;;
  esac
  ;;
*)
    library_names_spec='${libname}`echo ${release} | $SED -e 's/[.]/-/g'`${versuffix}${shared_ext} $libname.lib'
    ;;
  esac
  dynamic_linker='Win32 ld.exe'
  # FIXME: first we should search . and the directory the executable is
  in
  shlibpath_var=PATH
  ;;
darwin* | rhapsody*)
  dynamic_linker="$host_os dyld"

```

```

version_type=darwin
need_lib_prefix=no
need_version=no
library_names_spec='${libname}${release}${versuffix}$shared_ext
${libname}${release}${major}$shared_ext ${libname}$shared_ext'
soname_spec='${libname}${release}${major}$shared_ext'
shlibpath_overrides_runpath=yes
shlibpath_var=DYLD_LIBRARY_PATH
shrext_cmds='`test $.module = .yes && echo .so || echo .dylib`'
# Apple's gcc prints 'gcc -print-search-dirs' doesn't operate the same.
if test "$GCC" = yes; then
    sys_lib_search_path_spec=`$CC -print-search-dirs | tr "\n"
"$PATH_SEPARATOR" | sed -e 's/libraries:@libraries:/' | tr "@" "\n" |
grep "^libraries:" | sed -e "s/^libraries:/" -e "s,=,/,g" -e
"s,$PATH_SEPARATOR, ,g" -e "s,.*, & /lib /usr/lib /usr/local/lib,g"`
else
    sys_lib_search_path_spec='/lib /usr/lib /usr/local/lib'
fi
sys_lib_dlsearch_path_spec='/usr/local/lib /lib /usr/lib'
;;

```

dgux\*)

```

version_type=linux
need_lib_prefix=no
need_version=no
library_names_spec='${libname}${release}${shared_ext}$versuffix
${libname}${release}${shared_ext}$major ${libname}$shared_ext'
soname_spec='${libname}${release}${shared_ext}$major'
shlibpath_var=LD_LIBRARY_PATH
;;

```

freebsd1\*)

```

dynamic_linker=no
;;

```

kfreebsd\*-gnu)

```

version_type=linux
need_lib_prefix=no
need_version=no
library_names_spec='${libname}${release}${shared_ext}$versuffix
${libname}${release}${shared_ext}$major ${libname}${shared_ext}'
soname_spec='${libname}${release}${shared_ext}$major'
shlibpath_var=LD_LIBRARY_PATH
shlibpath_overrides_runpath=no
hardcode_into_libs=yes
dynamic_linker='GNU ld.so'
;;

```

freebsd\* | dragonfly\*)

```

# DragonFly does not have aout.  When/if they implement a new
# versioning mechanism, adjust this.
if test -x /usr/bin/objformat; then
    objformat=`/usr/bin/objformat`
else

```

```

        case $host_os in
        freebsd[123]*) objformat=aout ;;
        *) objformat=elf ;;
        esac
    fi
    version_type=freebsd- $\text{\$objformat}$ 
    case  $\text{\$version\_type}$  in
        freebsd-elf*)
            library_names_spec=' $\text{\${libname}}\text{\${release}}\text{\${shared\_ext}}\text{\$versuffix}$ 
 $\text{\${libname}}\text{\${release}}\text{\${shared\_ext}} \text{\$libname}\text{\${shared\_ext}}'$ '
            need_version=no
            need_lib_prefix=no
            ;;
        freebsd-*)
            library_names_spec=' $\text{\${libname}}\text{\${release}}\text{\${shared\_ext}}\text{\$versuffix}$ 
 $\text{\$libname}\text{\${shared\_ext}}\text{\$versuffix}'$ '
            need_version=yes
            ;;
    esac
    shlibpath_var=LD_LIBRARY_PATH
    case  $\text{\$host\_os}$  in
        freebsd2*)
            shlibpath_overrides_runpath=yes
            ;;
        freebsd3.[01]* | freebsdelf3.[01]*)
            shlibpath_overrides_runpath=yes
            hardcode_into_libs=yes
            ;;
        freebsd3.[2-9]* | freebsdelf3.[2-9]* | \
        freebsd4.[0-5] | freebsdelf4.[0-5] | freebsd4.1.1 | freebsdelf4.1.1)
            shlibpath_overrides_runpath=no
            hardcode_into_libs=yes
            ;;
        freebsd*) # from 4.6 on
            shlibpath_overrides_runpath=yes
            hardcode_into_libs=yes
            ;;
    esac
    ;;

gnu*)
    version_type=linux
    need_lib_prefix=no
    need_version=no
    library_names_spec=' $\text{\${libname}}\text{\${release}}\text{\${shared\_ext}}\text{\$versuffix}$ 
 $\text{\${libname}}\text{\${release}}\text{\${shared\_ext}}\text{\${major}} \text{\${libname}}\text{\${shared\_ext}}'$ '
    soname_spec=' $\text{\${libname}}\text{\${release}}\text{\${shared\_ext}}\text{\$major}'$ '
    shlibpath_var=LD_LIBRARY_PATH
    hardcode_into_libs=yes
    ;;

hpux9* | hpux10* | hpux11*)
    # Give a soname corresponding to the major version so that dld.sl
    refuses to

```

```

# link against other versions.
version_type=sunos
need_lib_prefix=no
need_version=no
case $host_cpu in
ia64*)
    shrext_cmds='.so'
    hardcode_into_libs=yes
    dynamic_linker="$host_os dld.so"
    shlibpath_var=LD_LIBRARY_PATH
    shlibpath_overrides_runpath=yes # Unless +noenvvar is specified.
    library_names_spec='${libname}${release}${shared_ext}$versuffix
${libname}${release}${shared_ext}$major $libname${shared_ext}'
    soname_spec='${libname}${release}${shared_ext}$major'
    if test "X$HPUX_IA64_MODE" = X32; then
        sys_lib_search_path_spec="/usr/lib/hpux32 /usr/local/lib/hpux32
/usr/local/lib"
    else
        sys_lib_search_path_spec="/usr/lib/hpux64 /usr/local/lib/hpux64"
    fi
    sys_lib_dlsearch_path_spec=$sys_lib_search_path_spec
    ;;
hppa*64*)
    shrext_cmds='.sl'
    hardcode_into_libs=yes
    dynamic_linker="$host_os dld.sl"
    shlibpath_var=LD_LIBRARY_PATH # How should we handle SHLIB_PATH
shlibpath_overrides_runpath=yes # Unless +noenvvar is specified.
    library_names_spec='${libname}${release}${shared_ext}$versuffix
${libname}${release}${shared_ext}$major $libname${shared_ext}'
    soname_spec='${libname}${release}${shared_ext}$major'
    sys_lib_search_path_spec="/usr/lib/pa20_64 /usr/ccs/lib/pa20_64"
    sys_lib_dlsearch_path_spec=$sys_lib_search_path_spec
    ;;
*)
    shrext_cmds='.sl'
    dynamic_linker="$host_os dld.sl"
    shlibpath_var=SHLIB_PATH
    shlibpath_overrides_runpath=no # +s is required to enable SHLIB_PATH
    library_names_spec='${libname}${release}${shared_ext}$versuffix
${libname}${release}${shared_ext}$major $libname${shared_ext}'
    soname_spec='${libname}${release}${shared_ext}$major'
    ;;
esac
# HP-UX runs *really* slowly unless shared libraries are mode 555.
postinstall_cmds='chmod 555 $lib'
;;

interix3*)
    version_type=linux
    need_lib_prefix=no
    need_version=no
    library_names_spec='${libname}${release}${shared_ext}$versuffix
${libname}${release}${shared_ext}$major ${libname}${shared_ext}'

```

```

soname_spec='${libname}${release}${shared_ext}$major'
dynamic_linker='Interix 3.x ld.so.1 (PE, like ELF)'
shlibpath_var=LD_LIBRARY_PATH
shlibpath_overrides_runpath=no
hardcode_into_libs=yes
;;

irix5* | irix6* | nonstopux*)
case $host_os in
  nonstopux*) version_type=nonstopux ;;
  *)
    if test "$lt_cv_prog_gnu_ld" = yes; then
      version_type=linux
    else
      version_type=irix
    fi ;;
esac
need_lib_prefix=no
need_version=no
soname_spec='${libname}${release}${shared_ext}$major'
library_names_spec='${libname}${release}${shared_ext}$versuffix
${libname}${release}${shared_ext}$major ${libname}${release}${shared_ext}
${libname}${shared_ext}'
case $host_os in
  irix5* | nonstopux*)
    libsuff= shlibsuff=
    ;;
  *)
    case $LD in # libtool.m4 will add one of these switches to LD
      *-32|*" -32 " | *-melf32bsmip|*" -melf32bsmip ")
        libsuff= shlibsuff= libmagic=32-bit;;
      *-n32|*" -n32 " | *-melf32bmipn32|*" -melf32bmipn32 ")
        libsuff=32 shlibsuff=N32 libmagic=N32;;
      *-64|*" -64 " | *-melf64bmip|*" -melf64bmip ")
        libsuff=64 shlibsuff=64 libmagic=64-bit;;
      *) libsuff= shlibsuff= libmagic=never-match;;
    esac
    ;;
esac
shlibpath_var=LD_LIBRARY${shlibsuff}_PATH
shlibpath_overrides_runpath=no
sys_lib_search_path_spec="/usr/lib${libsuff} /lib${libsuff}
/usr/local/lib${libsuff}"
sys_lib_dlsearch_path_spec="/usr/lib${libsuff} /lib${libsuff}"
hardcode_into_libs=yes
;;

# No shared lib support for Linux oldld, aout, or coff.
linux*oldld* | linux*aout* | linux*coff*)
dynamic_linker=no
;;

# This must be Linux ELF.
linux*)

```

```

version_type=linux
need_lib_prefix=no
need_version=no
library_names_spec='${libname}${release}${shared_ext}$versuffix
${libname}${release}${shared_ext}$major $libname${shared_ext}'
soname_spec='${libname}${release}${shared_ext}$major'
finish_cmds='PATH="\$PATH:/sbin" ldconfig -n $libdir'
shlibpath_var=LD_LIBRARY_PATH
shlibpath_overrides_runpath=no
# This implies no fast_install, which is unacceptable.
# Some rework will be needed to allow for fast_install
# before this can be enabled.
hardcode_into_libs=yes

# find out which ABI we are using
libsuff=
case "$host_cpu" in
x86_64*|s390x*|powerpc64*)
    echo '#line 12336 "configure"' > conftest.$ac_ext
    if { (eval echo "$as_me:$LINENO: \"\$ac_compile\"" >&5
(eval $ac_compile) 2>&5
ac_status=$?
echo "$as_me:$LINENO: \$? = $ac_status" >&5
(exit $ac_status); }; then
        case ` /usr/bin/file conftest.$ac_objext ` in
        *64-bit*)
            libsuff=64
            sys_lib_search_path_spec="/lib${libsuff} /usr/lib${libsuff}
/usr/local/lib${libsuff}"
            ;;
        esac
    fi
    rm -rf conftest*
    ;;
esac

# Append ld.so.conf contents to the search path
if test -f /etc/ld.so.conf; then
    lt_ld_extra=`awk '/^include / { system(sprintf("cd /etc; cat %s",
\$2)); skip = 1; } { if (!skip) print \$0; skip = 0; }' < /etc/ld.so.conf
| $SED -e 's/#.*//;s/[:, ]/ /g;s/=[^=]*$//;s/=[^= ]* / /g;/^$/d' | tr
'\n' ' ' `
    sys_lib_dlsearch_path_spec="/lib${libsuff} /usr/lib${libsuff}
$lt_ld_extra"
fi

# We used to test for /lib/ld.so.1 and disable shared libraries on
# powerpc, because MkLinux only supported shared libraries with the
# GNU dynamic linker. Since this was broken with cross compilers,
# most powerpc-linux boxes support dynamic linking these days and
# people can always --disable-shared, the test was removed, and we
# assume the GNU/Linux dynamic linker is in use.
dynamic_linker='GNU/Linux ld.so'
;;

```

```

knetbsd*-gnu)
    version_type=linux
    need_lib_prefix=no
    need_version=no
    library_names_spec='${libname}${release}${shared_ext}$versuffix
${libname}${release}${shared_ext}$major ${libname}${shared_ext}'
    soname_spec='${libname}${release}${shared_ext}$major'
    shlibpath_var=LD_LIBRARY_PATH
    shlibpath_overrides_runpath=no
    hardcode_into_libs=yes
    dynamic_linker='GNU ld.so'
    ;;

netbsd*)
    version_type=sunos
    need_lib_prefix=no
    need_version=no
    if echo __ELF__ | $CC -E - | grep __ELF__ >/dev/null; then
        library_names_spec='${libname}${release}${shared_ext}$versuffix
${libname}${shared_ext}$versuffix'
        finish_cmds='PATH="\$PATH:/sbin" ldconfig -m $libdir'
        dynamic_linker='NetBSD (a.out) ld.so'
    else
        library_names_spec='${libname}${release}${shared_ext}$versuffix
${libname}${release}${shared_ext}$major ${libname}${shared_ext}'
        soname_spec='${libname}${release}${shared_ext}$major'
        dynamic_linker='NetBSD ld.elf_so'
    fi
    shlibpath_var=LD_LIBRARY_PATH
    shlibpath_overrides_runpath=yes
    hardcode_into_libs=yes
    ;;

newsos6)
    version_type=linux
    library_names_spec='${libname}${release}${shared_ext}$versuffix
${libname}${release}${shared_ext}$major $libname${shared_ext}'
    shlibpath_var=LD_LIBRARY_PATH
    shlibpath_overrides_runpath=yes
    ;;

nto-qnx*)
    version_type=linux
    need_lib_prefix=no
    need_version=no
    library_names_spec='${libname}${release}${shared_ext}$versuffix
${libname}${release}${shared_ext}$major $libname${shared_ext}'
    soname_spec='${libname}${release}${shared_ext}$major'
    shlibpath_var=LD_LIBRARY_PATH
    shlibpath_overrides_runpath=yes
    ;;

openbsd*)

```

```

version_type=sunos
sys_lib_dlsearch_path_spec="/usr/lib"
need_lib_prefix=no
# Some older versions of OpenBSD (3.3 at least) *do* need versioned
libs.
case $host_os in
  openbsd3.3 | openbsd3.3.*) need_version=yes ;;
  *) need_version=no ;;
esac
library_names_spec='${libname}${release}${shared_ext}$versuffix
${libname}${shared_ext}$versuffix'
finish_cmds='PATH="\$PATH:/sbin" ldconfig -m $libdir'
shlibpath_var=LD_LIBRARY_PATH
if test -z "`echo __ELF__ | $CC -E - | grep __ELF__`" || test
"$host_os-$host_cpu" = "openbsd2.8-powerpc"; then
  case $host_os in
    openbsd2.[89] | openbsd2.[89].*)
      shlibpath_overrides_runpath=no
      ;;
    *)
      shlibpath_overrides_runpath=yes
      ;;
  esac
else
  shlibpath_overrides_runpath=yes
fi
;;

os2*)
  libname_spec='$name'
  shrext_cmds=".dll"
  need_lib_prefix=no
  library_names_spec='$libname${shared_ext} $libname.a'
  dynamic_linker='OS/2 ld.exe'
  shlibpath_var=LIBPATH
  ;;

osf3* | osf4* | osf5*)
  version_type=osf
  need_lib_prefix=no
  need_version=no
  soname_spec='${libname}${release}${shared_ext}$major'
  library_names_spec='${libname}${release}${shared_ext}$versuffix
${libname}${release}${shared_ext}$major $libname${shared_ext}'
  shlibpath_var=LD_LIBRARY_PATH
  sys_lib_search_path_spec="/usr/shlib /usr/ccs/lib /usr/lib/cmplrs/cc
/usr/lib /usr/local/lib /var/shlib"
  sys_lib_dlsearch_path_spec="$sys_lib_search_path_spec"
  ;;

solaris*)
  version_type=linux
  need_lib_prefix=no
  need_version=no

```



```

    library_names_spec='${libname}${release}${shared_ext}$versuffix
${libname}${release}${shared_ext}$major $libname${shared_ext}'
    soname_spec='${libname}${release}${shared_ext}$major'
    shlibpath_var=LD_LIBRARY_PATH
    shlibpath_overrides_runpath=yes
    hardcode_into_libs=yes
    # ldd complains unless libraries are executable
    postinstall_cmds='chmod +x $lib'
;;

```

```

sunos4*)
    version_type=sunos
    library_names_spec='${libname}${release}${shared_ext}$versuffix
${libname}${shared_ext}$versuffix'
    finish_cmds='PATH="\$PATH:/usr/etc" ldconfig $libdir'
    shlibpath_var=LD_LIBRARY_PATH
    shlibpath_overrides_runpath=yes
    if test "$with_gnu_ld" = yes; then
        need_lib_prefix=no
    fi
    need_version=yes
;;

```

```

sysv4 | sysv4.3*)
    version_type=linux
    library_names_spec='${libname}${release}${shared_ext}$versuffix
${libname}${release}${shared_ext}$major $libname${shared_ext}'
    soname_spec='${libname}${release}${shared_ext}$major'
    shlibpath_var=LD_LIBRARY_PATH
    case $host_vendor in
        sni)
            shlibpath_overrides_runpath=no
            need_lib_prefix=no
            export_dynamic_flag_spec='${wl}-Blargedynsym'
            runpath_var=LD_RUN_PATH
            ;;
        siemens)
            need_lib_prefix=no
            ;;
        motorola)
            need_lib_prefix=no
            need_version=no
            shlibpath_overrides_runpath=no
            sys_lib_search_path_spec='/lib /usr/lib /usr/ccs/lib'
            ;;
    esac
;;

```

```

sysv4*MP*)
    if test -d /usr/nec ;then
        version_type=linux
        library_names_spec='$libname${shared_ext}.$versuffix
$libname${shared_ext}.$major $libname${shared_ext}'
        soname_spec='$libname${shared_ext}.$major'
    fi

```

```

    shlibpath_var=LD_LIBRARY_PATH
fi
;;

sysv5* | sco3.2v5* | sco5v6* | unixware* | OpenUNIX* | sysv4*uw2*)
    version_type=freebsd-elf
    need_lib_prefix=no
    need_version=no
    library_names_spec='${libname}${release}${shared_ext}$versuffix
${libname}${release}${shared_ext} $libname${shared_ext}'
    soname_spec='${libname}${release}${shared_ext}$major'
    shlibpath_var=LD_LIBRARY_PATH
    hardcode_into_libs=yes
    if test "$with_gnu_ld" = yes; then
        sys_lib_search_path_spec='/usr/local/lib /usr/gnu/lib /usr/ccs/lib
/usr/lib /lib'
        shlibpath_overrides_runpath=no
    else
        sys_lib_search_path_spec='/usr/ccs/lib /usr/lib'
        shlibpath_overrides_runpath=yes
        case $host_os in
            sco3.2v5*)
                sys_lib_search_path_spec="$sys_lib_search_path_spec /lib"
            ;;
        esac
    fi
    sys_lib_dlsearch_path_spec='/usr/lib'
;;

uts4*)
    version_type=linux
    library_names_spec='${libname}${release}${shared_ext}$versuffix
${libname}${release}${shared_ext}$major $libname${shared_ext}'
    soname_spec='${libname}${release}${shared_ext}$major'
    shlibpath_var=LD_LIBRARY_PATH
;;

*)
    dynamic_linker=no
;;
esac
echo "$as_me:$LINENO: result: $dynamic_linker" >&5
echo "${ECHO_T}$dynamic_linker" >&6
test "$dynamic_linker" = no && can_build_shared=no

variables_saved_for_relink="PATH $shlibpath_var $runpath_var"
if test "$GCC" = yes; then
    variables_saved_for_relink="$variables_saved_for_relink GCC_EXEC_PREFIX
COMPILER_PATH LIBRARY_PATH"
fi

echo "$as_me:$LINENO: checking how to hardcode library paths into
programs" >&5

```

```

echo $ECHO_N "checking how to hardcode library paths into programs...
$ECHO_C" >&6
hardcode_action_CXX=
if test -n "$hardcode_libdir_flag_spec_CXX" || \
    test -n "$runpath_var_CXX" || \
    test "X$hardcode_automatic_CXX" = "Xyes" ; then

# We can hardcode non-existent directories.
if test "$hardcode_direct_CXX" != no &&
    # If the only mechanism to avoid hardcoding is shlibpath_var, we
    # have to relink, otherwise we might link with an installed library
    # when we should be linking with a yet-to-be-installed one
    ## test "$_LT_AC_TAGVAR(hardcode_shlibpath_var, CXX)" != no &&
    test "$hardcode_minus_L_CXX" != no; then
    # Linking always hardcodes the temporary library directory.
    hardcode_action_CXX=relink
else
    # We can link without hardcoding, and we can hardcode nonexisting
    # dirs.
    hardcode_action_CXX=immediate
fi
else
    # We cannot hardcode anything, or else we can only hardcode existing
    # directories.
    hardcode_action_CXX=unsupported
fi
echo "$as_me:$LINENO: result: $hardcode_action_CXX" >&5
echo "${ECHO_T}$hardcode_action_CXX" >&6

if test "$hardcode_action_CXX" = relink; then
    # Fast installation is not supported
    enable_fast_install=no
elif test "$shlibpath_overrides_runpath" = yes ||
    test "$enable_shared" = no; then
    # Fast installation is not necessary
    enable_fast_install=needless
fi

# The else clause should only fire when bootstrapping the
# libtool distribution, otherwise you forgot to ship ltmain.sh
# with your package, and you will get complaints that there are
# no rules to generate ltmain.sh.
if test -f "$ltmain"; then
    # See if we are running on zsh, and set the options which allow our
    # commands through
    # without removal of \ escapes.
    if test -n "${ZSH_VERSION+set}" ; then
        setopt NO_GLOB_SUBST
    fi
    # Now quote all the things that may contain metacharacters while being
    # careful not to overquote the AC_SUBSTed values. We take copies of
    # the
    # variables and quote the copies for generation of the libtool script.

```

```

for var in echo old_CC old_CFLAGS AR AR_FLAGS EGREP RANLIB LN_S LTCC
LTCFLAGS NM \
  SED SHELL STRIP \
  libname_spec library_names_spec soname_spec extract_expsyms_cmds \
  old_striplib striplib file_magic_cmd finish_cmds finish_eval \
  deplibs_check_method reload_flag reload_cmds need_locks \
  lt_cv_sys_global_symbol_pipe lt_cv_sys_global_symbol_to_cdecl \
  lt_cv_sys_global_symbol_to_c_name_address \
  sys_lib_search_path_spec sys_lib_dlsearch_path_spec \
  old_postinstall_cmds old_postuninstall_cmds \
  compiler_CXX \
  CC_CXX \
  LD_CXX \
  lt_prog_compiler_wl_CXX \
  lt_prog_compiler_pic_CXX \
  lt_prog_compiler_static_CXX \
  lt_prog_compiler_no_builtin_flag_CXX \
  export_dynamic_flag_spec_CXX \
  thread_safe_flag_spec_CXX \
  whole_archive_flag_spec_CXX \
  enable_shared_with_static_runtimes_CXX \
  old_archive_cmds_CXX \
  old_archive_from_new_cmds_CXX \
  predep_objects_CXX \
  postdep_objects_CXX \
  predeps_CXX \
  postdeps_CXX \
  compiler_lib_search_path_CXX \
  archive_cmds_CXX \
  archive_expsym_cmds_CXX \
  postinstall_cmds_CXX \
  postuninstall_cmds_CXX \
  old_archive_from_expsyms_cmds_CXX \
  allow_undefined_flag_CXX \
  no_undefined_flag_CXX \
  export_symbols_cmds_CXX \
  hardcode_libdir_flag_spec_CXX \
  hardcode_libdir_flag_spec_ld_CXX \
  hardcode_libdir_separator_CXX \
  hardcode_automatic_CXX \
  module_cmds_CXX \
  module_expsym_cmds_CXX \
  lt_cv_prog_compiler_c_o_CXX \
  exclude_expsyms_CXX \
  include_expsyms_CXX; do

case $var in
old_archive_cmds_CXX | \
old_archive_from_new_cmds_CXX | \
archive_cmds_CXX | \
archive_expsym_cmds_CXX | \
module_cmds_CXX | \
module_expsym_cmds_CXX | \
old_archive_from_expsyms_cmds_CXX | \

```

```

export_symbols_cmds_CXX | \
extract_expsyms_cmds | reload_cmds | finish_cmds | \
postinstall_cmds | postuninstall_cmds | \
old_postinstall_cmds | old_postuninstall_cmds | \
sys_lib_search_path_spec | sys_lib_dlsearch_path_spec)
# Double-quote double-eval'd strings.
eval "lt_$var=\\\\"`\\`$echo \"X\\$$var\" | \\Xsed -e
\\`\\$double_quote_subst\" -e \\`\\$sed_quote_subst\" -e
\\`\\$delay_variable_subst\"\\`\\`\\`\"
;;
*)
eval "lt_$var=\\\\"`\\`$echo \"X\\$$var\" | \\Xsed -e
\\`\\$sed_quote_subst\"\\`\\`\\`\"
;;
esac
done

case $lt_echo in
*'\$0 --fallback-echo"')
lt_echo=`$echo "X$lt_echo" | $Xsed -e 's/\\\\\\\\\\\\\\\\$0 --fallback-
echo\"$/\$0 --fallback-echo\"/'`
;;
esac

cfgfile="$ofile"

cat <<__EOF__ >> "$cfgfile"
# ### BEGIN LIBTOOL TAG CONFIG: $tagname

# Libtool was configured on host `(hostname || uname -n) 2>/dev/null |
sed 1q`:

# Shell to use when invoking shell scripts.
SHELL=$lt_SHELL

# Whether or not to build shared libraries.
build_libtool_libs=$enable_shared

# Whether or not to build static libraries.
build_old_libs=$enable_static

# Whether or not to add -lc for building shared libraries.
build_libtool_need_lc=$archive_cmds_need_lc_CXX

# Whether or not to disallow shared libs when runtime libs are static
allow_libtool_libs_with_static_runtimes=$enable_shared_with_static_runtim
es_CXX

# Whether or not to optimize for fast installation.
fast_install=$enable_fast_install

# The host system.
host_alias=$host_alias
host=$host

```

```

host_os=$host_os

# The build system.
build_alias=$build_alias
build=$build
build_os=$build_os

# An echo program that does not interpret backslashes.
echo=$lt_echo

# The archiver.
AR=$lt_AR
AR_FLAGS=$lt_AR_FLAGS

# A C compiler.
LTCC=$lt_LTCC

# LTCC compiler flags.
LTCFLAGS=$lt_LTCFLAGS

# A language-specific compiler.
CC=$lt_compiler_CXX

# Is the compiler the GNU C compiler?
with_gcc=$GCC_CXX

# An ERE matcher.
EGREP=$lt_EGREP

# The linker used to build libraries.
LD=$lt_LD_CXX

# Whether we need hard or soft links.
LN_S=$lt_LN_S

# A BSD-compatible nm program.
NM=$lt_NM

# A symbol stripping program
STRIP=$lt_STRIP

# Used to examine libraries when file_magic_cmd begins "file"
MAGIC_CMD=$MAGIC_CMD

# Used on cygwin: DLL creation program.
DLLTOOL="$DLLTOOL"

# Used on cygwin: object dumper.
OBJDUMP="$OBJDUMP"

# Used on cygwin: assembler.
AS="$AS"

# The name of the directory that contains temporary libtool files.

```

```

objdir=$objdir

# How to create reloadable object files.
reload_flag=$lt_reload_flag
reload_cmds=$lt_reload_cmds

# How to pass a linker flag through the compiler.
wl=$lt_lt_prog_compiler_wl_CXX

# Object file suffix (normally "o").
objext="$ac_objext"

# Old archive suffix (normally "a").
libext="$libext"

# Shared library suffix (normally ".so").
shrext_cmds='$shrext_cmds'

# Executable file suffix (normally "").
exeext="$exeext"

# Additional compiler flags for building library objects.
pic_flag=$lt_lt_prog_compiler_pic_CXX
pic_mode=$pic_mode

# What is the maximum length of a command?
max_cmd_len=$lt_cv_sys_max_cmd_len

# Does compiler simultaneously support -c and -o options?
compiler_c_o=$lt_lt_cv_prog_compiler_c_o_CXX

# Must we lock files when doing compilation?
need_locks=$lt_need_locks

# Do we need the lib prefix for modules?
need_lib_prefix=$need_lib_prefix

# Do we need a version for libraries?
need_version=$need_version

# Whether dlopen is supported.
dlopen_support=$enable_dlopen

# Whether dlopen of programs is supported.
dlopen_self=$enable_dlopen_self

# Whether dlopen of statically linked programs is supported.
dlopen_self_static=$enable_dlopen_self_static

# Compiler flag to prevent dynamic linking.
link_static_flag=$lt_lt_prog_compiler_static_CXX

# Compiler flag to turn off builtin functions.
no_builtin_flag=$lt_lt_prog_compiler_no_builtin_flag_CXX

```

```

# Compiler flag to allow reflexive dlopens.
export_dynamic_flag_spec=$lt_export_dynamic_flag_spec_CXX

# Compiler flag to generate shared objects directly from archives.
whole_archive_flag_spec=$lt_whole_archive_flag_spec_CXX

# Compiler flag to generate thread-safe objects.
thread_safe_flag_spec=$lt_thread_safe_flag_spec_CXX

# Library versioning type.
version_type=$version_type

# Format of library name prefix.
libname_spec=$lt_libname_spec

# List of archive names.  First name is the real one, the rest are links.
# The last name is the one that the linker finds with -lNAME.
library_names_spec=$lt_library_names_spec

# The coded name of the library, if different from the real name.
soname_spec=$lt_soname_spec

# Commands used to build and install an old-style archive.
RANLIB=$lt_RANLIB
old_archive_cmds=$lt_old_archive_cmds_CXX
old_postinstall_cmds=$lt_old_postinstall_cmds
old_postuninstall_cmds=$lt_old_postuninstall_cmds

# Create an old-style archive from a shared archive.
old_archive_from_new_cmds=$lt_old_archive_from_new_cmds_CXX

# Create a temporary old-style archive to link instead of a shared
archive.
old_archive_from_expsyms_cmds=$lt_old_archive_from_expsyms_cmds_CXX

# Commands used to build and install a shared archive.
archive_cmds=$lt_archive_cmds_CXX
archive_expsym_cmds=$lt_archive_expsym_cmds_CXX
postinstall_cmds=$lt_postinstall_cmds
postuninstall_cmds=$lt_postuninstall_cmds

# Commands used to build a loadable module (assumed same as above if
empty)
module_cmds=$lt_module_cmds_CXX
module_expsym_cmds=$lt_module_expsym_cmds_CXX

# Commands to strip libraries.
old_striplib=$lt_old_striplib
striplib=$lt_striplib

# Dependencies to place before the objects being linked to create a
# shared library.
predep_objects=$lt_predep_objects_CXX

```



```

# Dependencies to place after the objects being linked to create a
# shared library.
postdep_objects=$lt_postdep_objects_CXX

# Dependencies to place before the objects being linked to create a
# shared library.
predeps=$lt_predeps_CXX

# Dependencies to place after the objects being linked to create a
# shared library.
postdeps=$lt_postdeps_CXX

# The library search path used internally by the compiler when linking
# a shared library.
compiler_lib_search_path=$lt_compiler_lib_search_path_CXX

# Method to check whether dependent libraries are shared objects.
deplibs_check_method=$lt_deplibs_check_method

# Command to use when deplibs_check_method == file_magic.
file_magic_cmd=$lt_file_magic_cmd

# Flag that allows shared libraries with undefined symbols to be built.
allow_undefined_flag=$lt_allow_undefined_flag_CXX

# Flag that forces no undefined symbols.
no_undefined_flag=$lt_no_undefined_flag_CXX

# Commands used to finish a libtool library installation in a directory.
finish_cmds=$lt_finish_cmds

# Same as above, but a single script fragment to be eval'd but not shown.
finish_eval=$lt_finish_eval

# Take the output of nm and produce a listing of raw symbols and C names.
global_symbol_pipe=$lt_lt_cv_sys_global_symbol_pipe

# Transform the output of nm in a proper C declaration
global_symbol_to_cdecl=$lt_lt_cv_sys_global_symbol_to_cdecl

# Transform the output of nm in a C name address pair
global_symbol_to_c_name_address=$lt_lt_cv_sys_global_symbol_to_c_name_address

# This is the shared library runtime path variable.
runpath_var=$runpath_var

# This is the shared library path variable.
shlibpath_var=$shlibpath_var

# Is shlibpath searched before the hard-coded library search path?
shlibpath_overrides_runpath=$shlibpath_overrides_runpath

```

```

# How to hardcode a shared library path into an executable.
hardcode_action=$hardcode_action_CXX

# Whether we should hardcode library paths into libraries.
hardcode_into_libs=$hardcode_into_libs

# Flag to hardcode \${libdir} into a binary during linking.
# This must work even if \${libdir} does not exist.
hardcode_libdir_flag_spec=$lt_hardcode_libdir_flag_spec_CXX

# If ld is used when linking, flag to hardcode \${libdir} into
# a binary during linking. This must work even if \${libdir} does
# not exist.
hardcode_libdir_flag_spec_ld=$lt_hardcode_libdir_flag_spec_ld_CXX

# Whether we need a single -rpath flag with a separated argument.
hardcode_libdir_separator=$lt_hardcode_libdir_separator_CXX

# Set to yes if using DIR/libNAME${shared_ext} during linking hardcodes
# DIR into the
# resulting binary.
hardcode_direct=$hardcode_direct_CXX

# Set to yes if using the -LDIR flag during linking hardcodes DIR into
# the
# resulting binary.
hardcode_minus_L=$hardcode_minus_L_CXX

# Set to yes if using SHLIBPATH_VAR=DIR during linking hardcodes DIR into
# the resulting binary.
hardcode_shlibpath_var=$hardcode_shlibpath_var_CXX

# Set to yes if building a shared library automatically hardcodes DIR
# into the library
# and all subsequent libraries and executables linked against it.
hardcode_automatic=$hardcode_automatic_CXX

# Variables whose values should be saved in libtool wrapper scripts and
# restored at relink time.
variables_saved_for_relink="$variables_saved_for_relink"

# Whether libtool must link a program against all its dependency
# libraries.
link_all_deplibs=$link_all_deplibs_CXX

# Compile-time system search path for libraries
sys_lib_search_path_spec=$lt_sys_lib_search_path_spec

# Run-time system search path for libraries
sys_lib_dlsearch_path_spec=$lt_sys_lib_dlsearch_path_spec

# Fix the shell variable \${srcfile} for the compiler.
fix_srcfile_path="$fix_srcfile_path_CXX"

```

```

# Set to yes if exported symbols are required.
always_export_symbols=$always_export_symbols_CXX

# The commands to list exported symbols.
export_symbols_cmds=$lt_export_symbols_cmds_CXX

# The commands to extract the exported symbol list from a shared archive.
extract_expsyms_cmds=$lt_extract_expsyms_cmds

# Symbols that should not be listed in the preloaded symbols.
exclude_expsyms=$lt_exclude_expsyms_CXX

# Symbols that must always be exported.
include_expsyms=$lt_include_expsyms_CXX

# ### END LIBTOOL TAG CONFIG: $tagname

__EOF__

```

```

else
  # If there is no Makefile yet, we rely on a make rule to execute
  # `config.status --recheck' to rerun these tests and create the
  # libtool script then.
  ltmain_in=`echo $ltmain | sed -e 's/\.sh$/\.in/'`
  if test -f "$ltmain_in"; then
    test -f Makefile && make "$ltmain"
  fi
fi

```

```

ac_ext=c
ac_cpp='$CPP $CPPFLAGS'
ac_compile='$CC -c $CFLAGS $CPPFLAGS conftest.$ac_ext >&5'
ac_link='$CC -o conftest$ac_exeext $CFLAGS $CPPFLAGS $LDFLAGS
conftest.$ac_ext $LIBS >&5'
ac_compiler_gnu=$ac_cv_c_compiler_gnu

```

```

CC=$lt_save_CC
LDCXX=$LD
LD=$lt_save_LD
GCC=$lt_save_GCC
with_gnu_ldcxx=$with_gnu_ld
with_gnu_ld=$lt_save_with_gnu_ld
lt_cv_path_LDCXX=$lt_cv_path_LD
lt_cv_path_LD=$lt_save_path_LD
lt_cv_prog_gnu_ldcxx=$lt_cv_prog_gnu_ld
lt_cv_prog_gnu_ld=$lt_save_with_gnu_ld

```

```

else
  tagname=""
fi
;;

```

```

F77)
if test -n "$F77" && test "X$F77" != "Xno"; then

ac_ext=f
ac_compile='$F77 -c $FFLAGS conftest.$ac_ext >&5'
ac_link='$F77 -o conftest$ac_exeext $FFLAGS $LDFLAGS conftest.$ac_ext
$LIBS >&5'
ac_compiler_gnu=$ac_cv_f77_compiler_gnu

archive_cmds_need_lc_F77=no
allow_undefined_flag_F77=
always_export_symbols_F77=no
archive_expsym_cmds_F77=
export_dynamic_flag_spec_F77=
hardcode_direct_F77=no
hardcode_libdir_flag_spec_F77=
hardcode_libdir_flag_spec_ld_F77=
hardcode_libdir_separator_F77=
hardcode_minus_L_F77=no
hardcode_automatic_F77=no
module_cmds_F77=
module_expsym_cmds_F77=
link_all_deplibs_F77=unknown
old_archive_cmds_F77=$old_archive_cmds
no_undefined_flag_F77=
whole_archive_flag_spec_F77=
enable_shared_with_static_runtimes_F77=no

# Source file extension for f77 test sources.
ac_ext=f

# Object file extension for compiled f77 test sources.
objext=o
objext_F77=$objext

# Code to be used in simple compile tests
lt_simple_compile_test_code="      subroutine t\n          return\nend\n"

# Code to be used in simple link tests
lt_simple_link_test_code="      program t\n          end\n"

# ltmain only uses $CC for tagged configurations so make sure $CC is set.

# If no C compiler was specified, use CC.
LTCC=${LTCC-"$CC"}

# If no C compiler flags were specified, use CFLAGS.
LTCFLAGS=${LTCFLAGS-"$CFLAGS"}

# Allow CC to be a program name with arguments.
compiler=$CC

```

```

# save warnings/boilerplate of simple test code
ac_outfile=confptest.$ac_objext
printf "$lt_simple_compile_test_code" >confptest.$ac_ext
eval "$ac_compile" 2>&1 >/dev/null | $SED '/^$/d; /^ *+/d' >confptest.err
_lt_compiler_boilerplate=`cat confptest.err`
$rm confptest*

```

```

ac_outfile=confptest.$ac_objext
printf "$lt_simple_link_test_code" >confptest.$ac_ext
eval "$ac_link" 2>&1 >/dev/null | $SED '/^$/d; /^ *+/d' >confptest.err
_lt_linker_boilerplate=`cat confptest.err`
$rm confptest*

```

```

# Allow CC to be a program name with arguments.
lt_save_CC="$CC"
CC=${F77-"f77"}
compiler=$CC
compiler_F77=$CC
for cc_temp in $compiler""; do
  case $cc_temp in
    compile | *[\//]compile | ccache | *[\//]ccache ) ;;
    distcc | *[\//]distcc | purify | *[\//]purify ) ;;
    \-*) ;;
    *) break;;
  esac
done
cc_basename=`$echo "X$cc_temp" | $Xsed -e 's%.*/%%' -e "s%^$host_alias-%%"`

```

```

echo "$as_me:$LINENO: checking if libtool supports shared libraries" >&5
echo $ECHO_N "checking if libtool supports shared libraries... $ECHO_C"
>&6
echo "$as_me:$LINENO: result: $can_build_shared" >&5
echo "${ECHO_T}$can_build_shared" >&6

```

```

echo "$as_me:$LINENO: checking whether to build shared libraries" >&5
echo $ECHO_N "checking whether to build shared libraries... $ECHO_C" >&6
test "$can_build_shared" = "no" && enable_shared=no

```

```

# On AIX, shared libraries and static libraries use the same namespace,
and

```

```

# are all built from PIC.

```

```

case $host_os in
aix3*)
  test "$enable_shared" = yes && enable_static=no
  if test -n "$RANLIB"; then
    archive_cmds="$archive_cmds~\${RANLIB} \$lib"
    postinstall_cmds='${RANLIB} \$lib'
  fi
  ;;
aix4* | aix5*)

```

```

    if test "$host_cpu" != ia64 && test "$aix_use_runtimelinking" = no ;
then
    test "$enable_shared" = yes && enable_static=no
    fi
    ;;
esac
echo "$as_me:$LINENO: result: $enable_shared" >&5
echo "${ECHO_T}$enable_shared" >&6

echo "$as_me:$LINENO: checking whether to build static libraries" >&5
echo $ECHO_N "checking whether to build static libraries... $ECHO_C" >&6
# Make sure either enable_shared or enable_static is yes.
test "$enable_shared" = yes || enable_static=yes
echo "$as_me:$LINENO: result: $enable_static" >&5
echo "${ECHO_T}$enable_static" >&6

GCC_F77="$G77"
LD_F77="$LD"

lt_prog_compiler_wl_F77=
lt_prog_compiler_pic_F77=
lt_prog_compiler_static_F77=

echo "$as_me:$LINENO: checking for $compiler option to produce PIC" >&5
echo $ECHO_N "checking for $compiler option to produce PIC... $ECHO_C"
>&6

if test "$GCC" = yes; then
    lt_prog_compiler_wl_F77='-Wl,'
    lt_prog_compiler_static_F77='-static'

    case $host_os in
        aix*)
            # All AIX code is PIC.
            if test "$host_cpu" = ia64; then
                # AIX 5 now supports IA64 processor
                lt_prog_compiler_static_F77='-Bstatic'
            fi
            ;;

        amigaos*)
            # FIXME: we need at least 68020 code to build shared libraries, but
            # adding the '-m68020' flag to GCC prevents building anything
            better,
            # like '-m68040'.
            lt_prog_compiler_pic_F77='-m68020 -resident32 -malways-restore-a4'
            ;;

        beos* | cygwin* | irix5* | irix6* | nonstopux* | osf3* | osf4* |
osf5*)
            # PIC is the default for these OSes.
            ;;

        mingw* | pw32* | os2*)

```

```

# This hack is so that the source file can tell whether it is being
# built for inclusion in a dll (and should export symbols for
example).
lt_prog_compiler_pic_F77='-DDLL_EXPORT'
;;

darwin* | rhapsody*)
# PIC is the default on this platform
# Common symbols not allowed in MH_DYLIB files
lt_prog_compiler_pic_F77='-fno-common'
;;

interix3*)
# Interix 3.x gcc -fpic/-fPIC options generate broken code.
# Instead, we relocate shared libraries at runtime.
;;

msdosdjgpp*)
# Just because we use GCC doesn't mean we suddenly get shared
libraries
# on systems that don't support them.
lt_prog_compiler_can_build_shared_F77=no
enable_shared=no
;;

sysv4*MP*)
if test -d /usr/nec; then
lt_prog_compiler_pic_F77=-Kconform_pic
fi
;;

hpux*)
# PIC is the default for IA64 HP-UX and 64-bit HP-UX, but
# not for PA HP-UX.
case $host_cpu in
hppa*64*|ia64*)
# +Z the default
;;
*)
lt_prog_compiler_pic_F77='-fPIC'
;;
esac
;;

*)
lt_prog_compiler_pic_F77='-fPIC'
;;
esac
else
# PORTME Check for flag to pass linker flags through the system
compiler.
case $host_os in
aix*)
lt_prog_compiler_wl_F77='-Wl,'

```

```

if test "$host_cpu" = ia64; then
# AIX 5 now supports IA64 processor
lt_prog_compiler_static_F77='-Bstatic'
else
lt_prog_compiler_static_F77='-bnso -bI:/lib/syscalls.exp'
fi
;;
darwin*)
# PIC is the default on this platform
# Common symbols not allowed in MH_DYLIB files
case $cc_basename in
xlc*)
lt_prog_compiler_pic_F77='-qnocommon'
lt_prog_compiler_wl_F77='-Wl,'
;;
esac
;;

mingw* | pw32* | os2*)
# This hack is so that the source file can tell whether it is being
# built for inclusion in a dll (and should export symbols for
example).
lt_prog_compiler_pic_F77='-DDLL_EXPORT'
;;

hpux9* | hpux10* | hpux11*)
lt_prog_compiler_wl_F77='-Wl,'
# PIC is the default for IA64 HP-UX and 64-bit HP-UX, but
# not for PA HP-UX.
case $host_cpu in
hppa*64*|ia64*)
# +Z the default
;;
*)
lt_prog_compiler_pic_F77='+Z'
;;
esac
# Is there a better lt_prog_compiler_static that works with the
bundled CC?
lt_prog_compiler_static_F77='${wl}-a ${wl}archive'
;;

irix5* | irix6* | nonstopux*)
lt_prog_compiler_wl_F77='-Wl,'
# PIC (with -KPIC) is the default.
lt_prog_compiler_static_F77='-non_shared'
;;

newsos6)
lt_prog_compiler_pic_F77='-KPIC'
lt_prog_compiler_static_F77='-Bstatic'
;;

linux*)

```



```

case $cc_basename in
icc* | ecc*)
lt_prog_compiler_wl_F77='-Wl,'
lt_prog_compiler_pic_F77='-KPIC'
lt_prog_compiler_static_F77='-static'
;;
pgcc* | pgf77* | pgf90* | pgf95*)
# Portland Group compilers (*not* the Pentium gcc compiler,
# which looks to be a dead project)
lt_prog_compiler_wl_F77='-Wl,'
lt_prog_compiler_pic_F77='-fpic'
lt_prog_compiler_static_F77='-Bstatic'
;;
ccc*)
lt_prog_compiler_wl_F77='-Wl,'
# All Alpha code is PIC.
lt_prog_compiler_static_F77='-non_shared'
;;
esac
;;

osf3* | osf4* | osf5*)
lt_prog_compiler_wl_F77='-Wl,'
# All OSF/1 code is PIC.
lt_prog_compiler_static_F77='-non_shared'
;;

solaris*)
lt_prog_compiler_pic_F77='-KPIC'
lt_prog_compiler_static_F77='-Bstatic'
case $cc_basename in
f77* | f90* | f95*)
lt_prog_compiler_wl_F77='-Qoption ld ';;
*)
lt_prog_compiler_wl_F77='-Wl, ';;
esac
;;

sunos4*)
lt_prog_compiler_wl_F77='-Qoption ld '
lt_prog_compiler_pic_F77='-PIC'
lt_prog_compiler_static_F77='-Bstatic'
;;

sysv4 | sysv4.2uw2* | sysv4.3*)
lt_prog_compiler_wl_F77='-Wl,'
lt_prog_compiler_pic_F77='-KPIC'
lt_prog_compiler_static_F77='-Bstatic'
;;

sysv4*MP*)
if test -d /usr/nec ;then
lt_prog_compiler_pic_F77='-Kconform_pic'
lt_prog_compiler_static_F77='-Bstatic'

```

```

        fi
        ;;

sysv5* | unixware* | sco3.2v5* | sco5v6* | OpenUNIX*)
    lt_prog_compiler_wl_F77='-Wl,'
    lt_prog_compiler_pic_F77='-KPIC'
    lt_prog_compiler_static_F77='-Bstatic'
    ;;

unicos*)
    lt_prog_compiler_wl_F77='-Wl,'
    lt_prog_compiler_can_build_shared_F77=no
    ;;

uts4*)
    lt_prog_compiler_pic_F77='-pic'
    lt_prog_compiler_static_F77='-Bstatic'
    ;;

*)
    lt_prog_compiler_can_build_shared_F77=no
    ;;
esac
fi

echo "$as_me:$LINENO: result: $lt_prog_compiler_pic_F77" >&5
echo "${ECHO_T}$lt_prog_compiler_pic_F77" >&6

#
# Check to make sure the PIC flag actually works.
#
if test -n "$lt_prog_compiler_pic_F77"; then

echo "$as_me:$LINENO: checking if $compiler PIC flag
$lt_prog_compiler_pic_F77 works" >&5
echo $ECHO_N "checking if $compiler PIC flag $lt_prog_compiler_pic_F77
works... $ECHO_C" >&6
if test "${lt_prog_compiler_pic_works_F77+set}" = set; then
    echo $ECHO_N "(cached) $ECHO_C" >&6
else
    lt_prog_compiler_pic_works_F77=no
    ac_outfile=confptest.$ac_objext
    printf "$lt_simple_compile_test_code" > confptest.$ac_ext
    lt_compiler_flag="$lt_prog_compiler_pic_F77"
    # Insert the option either (1) after the last *FLAGS variable, or
    # (2) before a word containing "confptest.", or (3) at the end.
    # Note that $ac_compile itself does not contain backslashes and begins
    # with a dollar sign (not a hyphen), so the echo should work
correctly.
    # The option is referenced via a variable to avoid confusing sed.
    lt_compile=`echo "$ac_compile" | $SED \
-e 's:.*FLAGS}\{0,1}\}:&$lt_compiler_flag ;; t' \
-e 's: [^ ]*confptest\.: $lt_compiler_flag&;; t' \
-e 's:$: $lt_compiler_flag:'`

```

```

(eval echo "\"\$as_me:13391: $lt_compile\"" >&5)
(eval "$lt_compile" 2>confptest.err)
ac_status=$?
cat confptest.err >&5
echo "$as_me:13395: \ $? = $ac_status" >&5
if (exit $ac_status) && test -s "$ac_outfile"; then
  # The compiler can only warn and ignore the option if not recognized
  # So say no if there are warnings other than the usual output.
  $echo "X$lt_compiler_boilerplate" | $Xsed -e '/^$/d' >confptest.exp
  $SED '/^$/d; /^ *+/d' confptest.err >confptest.er2
  if test ! -s confptest.er2 || diff confptest.exp confptest.er2
>/dev/null; then
    lt_prog_compiler_pic_works_F77=yes
  fi
fi
$rm confptest*

fi
echo "$as_me:$LINENO: result: $lt_prog_compiler_pic_works_F77" >&5
echo "${ECHO_T}$lt_prog_compiler_pic_works_F77" >&6

if test x"$lt_prog_compiler_pic_works_F77" = xyes; then
  case $lt_prog_compiler_pic_F77 in
    "" | " ") ;;
    *) lt_prog_compiler_pic_F77="$lt_prog_compiler_pic_F77" ;;
  esac
else
  lt_prog_compiler_pic_F77=
  lt_prog_compiler_can_build_shared_F77=no
fi

fi
case $host_os in
  # For platforms which do not support PIC, -DPIC is meaningless:
  *djgpp*)
    lt_prog_compiler_pic_F77=
    ;;
  *)
    lt_prog_compiler_pic_F77="$lt_prog_compiler_pic_F77"
    ;;
esac

#
# Check to make sure the static flag actually works.
#
wl=$lt_prog_compiler_wl_F77 eval
lt_tmp_static_flag="\$lt_prog_compiler_static_F77\"
echo "$as_me:$LINENO: checking if $compiler static flag
$lt_tmp_static_flag works" >&5
echo $ECHO_N "checking if $compiler static flag $lt_tmp_static_flag
works... $ECHO_C" >&6
if test "${lt_prog_compiler_static_works_F77+set}" = set; then
  echo $ECHO_N "(cached) $ECHO_C" >&6
else

```

```

lt_prog_compiler_static_works_F77=no
save_LDFLAGS="$LDFLAGS"
LDFLAGS="$LDFLAGS $lt_tmp_static_flag"
printf "$lt_simple_link_test_code" > conftest.$ac_ext
if (eval $ac_link 2>conftest.err) && test -s conftest.$ac_exeext; then
  # The linker can only warn and ignore the option if not recognized
  # So say no if there are warnings
  if test -s conftest.err; then
    # Append any errors to the config.log.
    cat conftest.err 1>&5
    $echo "X$lt_linker_boilerplate" | $Xsed -e '/^$/d' > conftest.exp
    $SED '/^$/d; /^ *+/d' conftest.err >conftest.er2
    if diff conftest.exp conftest.er2 >/dev/null; then
      lt_prog_compiler_static_works_F77=yes
    fi
  else
    lt_prog_compiler_static_works_F77=yes
  fi
fi
$rm conftest*
LDFLAGS="$save_LDFLAGS"

fi
echo "$as_me:$LINENO: result: $lt_prog_compiler_static_works_F77" >&5
echo "${ECHO_T}$lt_prog_compiler_static_works_F77" >&6

if test x"$lt_prog_compiler_static_works_F77" = xyes; then
  :
else
  lt_prog_compiler_static_F77=
fi

echo "$as_me:$LINENO: checking if $compiler supports -c -o
file.$ac_objext" >&5
echo $ECHO_N "checking if $compiler supports -c -o file.$ac_objext...
$ECHO_C" >&6
if test "${lt_cv_prog_compiler_c_o_F77+set}" = set; then
  echo $ECHO_N "(cached) $ECHO_C" >&6
else
  lt_cv_prog_compiler_c_o_F77=no
  $rm -r conftest 2>/dev/null
  mkdir conftest
  cd conftest
  mkdir out
  printf "$lt_simple_compile_test_code" > conftest.$ac_ext

  lt_compiler_flag="-o out/conftest2.$ac_objext"
  # Insert the option either (1) after the last *FLAGS variable, or
  # (2) before a word containing "conftest.", or (3) at the end.
  # Note that $ac_compile itself does not contain backslashes and begins
  # with a dollar sign (not a hyphen), so the echo should work
  correctly.
  lt_compile=`echo "$ac_compile" | $SED \

```

```

-e 's:.*FLAGS}\{0,1}\} :&$lt_compiler_flag ;; t' \
-e 's: [^ ]*conftest\.: $lt_compiler_flag&::; t' \
-e 's:$: $lt_compiler_flag:'`
(eval echo "\`$as_me:13495: $lt_compile\"" >&5)
(eval "$lt_compile" 2>out/conftest.err)
ac_status=$?
cat out/conftest.err >&5
echo "$as_me:13499: ` $? = $ac_status " >&5
if (exit $ac_status) && test -s out/conftest2.$ac_objext
then
  # The compiler can only warn and ignore the option if not recognized
  # So say no if there are warnings
  $echo "X$lt_compiler_boilerplate" | $Xsed -e '/^$/d' >
out/conftest.exp
  $SED '/^$/d; /^ *+/d' out/conftest.err >out/conftest.er2
  if test ! -s out/conftest.er2 || diff out/conftest.exp
out/conftest.er2 >/dev/null; then
    lt_cv_prog_compiler_c_o_F77=yes
  fi
fi
chmod u+w . 2>&5
$rm conftest*
# SGI C++ compiler will create directory out/ii_files/ for
# template instantiation
test -d out/ii_files && $rm out/ii_files/* && rmdir out/ii_files
$rm out/* && rmdir out
cd ..
rmdir conftest
$rm conftest*

fi
echo "$as_me:$LINENO: result: $lt_cv_prog_compiler_c_o_F77" >&5
echo "${ECHO_T}$lt_cv_prog_compiler_c_o_F77" >&6

hard_links="nottested"
if test "$lt_cv_prog_compiler_c_o_F77" = no && test "$need_locks" != no;
then
  # do not overwrite the value of need_locks provided by the user
  echo "$as_me:$LINENO: checking if we can lock with hard links" >&5
  echo $ECHO_N "checking if we can lock with hard links... $ECHO_C" >&6
  hard_links=yes
  $rm conftest*
  ln conftest.a conftest.b 2>/dev/null && hard_links=no
  touch conftest.a
  ln conftest.a conftest.b 2>&5 || hard_links=no
  ln conftest.a conftest.b 2>/dev/null && hard_links=no
  echo "$as_me:$LINENO: result: $hard_links" >&5
  echo "${ECHO_T}$hard_links" >&6
  if test "$hard_links" = no; then
    { echo "$as_me:$LINENO: WARNING: \`$CC' does not support \`-c -o', so
\`make -j' may be unsafe" >&5
  echo "$as_me: WARNING: \`$CC' does not support \`-c -o', so \`make -j'
may be unsafe" >&2;}

```

```

    need_locks=warn
fi
else
    need_locks=no
fi

echo "$as_me:$LINENO: checking whether the $compiler linker ($LD)
supports shared libraries" >&5
echo $ECHO_N "checking whether the $compiler linker ($LD) supports shared
libraries... $ECHO_C" >&6

runpath_var=
allow_undefined_flag_F77=
enable_shared_with_static_runtimes_F77=no
archive_cmds_F77=
archive_expsym_cmds_F77=
old_archive_From_new_cmds_F77=
old_archive_from_expsyms_cmds_F77=
export_dynamic_flag_spec_F77=
whole_archive_flag_spec_F77=
thread_safe_flag_spec_F77=
hardcode_libdir_flag_spec_F77=
hardcode_libdir_flag_spec_ld_F77=
hardcode_libdir_separator_F77=
hardcode_direct_F77=no
hardcode_minus_L_F77=no
hardcode_shlibpath_var_F77=unsupported
link_all_deplibs_F77=unknown
hardcode_automatic_F77=no
module_cmds_F77=
module_expsym_cmds_F77=
always_export_symbols_F77=no
export_symbols_cmds_F77='$NM $libobjs $convenience |
$global_symbol_pipe | $SED '\''s/.* //'\' | sort | uniq >
$export_symbols'
# include_expsyms should be a list of space-separated symbols to be
*always*
# included in the symbol list
include_expsyms_F77=
# exclude_expsyms can be an extended regexp of symbols to exclude
# it will be wrapped by ` (' and `)$', so one must not match beginning
or
# end of line. Example: `a|bc|.*d.*' will exclude the symbols `a' and
`bc',
# as well as any symbol that contains `d'.
exclude_expsyms_F77="_GLOBAL_OFFSET_TABLE_"
# Although _GLOBAL_OFFSET_TABLE_ is a valid symbol C name, most a.out
# platforms (ab)use it in PIC code, but their linkers get confused if
# the symbol is explicitly referenced. Since portable code cannot
# rely on this symbol name, it's probably fine to never include it in
# preloaded symbol tables.
extract_expsyms_cmds=
# Just being paranoid about ensuring that cc_basename is set.
for cc_temp in $compiler"; do

```

```

case $cc_temp in
  compile | *[\]/compile | ccache | *[\]/ccache ) ;;
  distcc | *[\]/distcc | purify | *[\]/purify ) ;;
  \-*) ;;
  *) break;;
esac
done
cc_basename=`$echo "X$cc_temp" | $Xsed -e 's%.*/%%' -e "s%^\$host_alias-
%%" `

case $host_os in
  cygwin* | mingw* | pw32*)
    # FIXME: the MSVC++ port hasn't been tested in a loooong time
    # When not using gcc, we currently assume that we are using
    # Microsoft Visual C++.
    if test "$GCC" != yes; then
      with_gnu_ld=no
    fi
    ;;
  interix*)
    # we just hope/assume this is gcc and not c89 (= MSVC++)
    with_gnu_ld=yes
    ;;
  openbsd*)
    with_gnu_ld=no
    ;;
esac

ld_shlibs_F77=yes
if test "$with_gnu_ld" = yes; then
  # If archive_cmds runs LD, not CC, wlarc should be empty
  wlarc='${wl}'

  # Set some defaults for GNU ld with shared library support. These
  # are reset later if shared libraries are not supported. Putting them
  # here allows them to be overridden if necessary.
  runpath_var=LD_RUN_PATH
  hardcode_libdir_flag_spec_F77='${wl}--rpath ${wl}$libdir'
  export_dynamic_flag_spec_F77='${wl}--export-dynamic'
  # ancient GNU ld didn't support --whole-archive et. al.
  if $LD --help 2>&1 | grep 'no-whole-archive' > /dev/null; then
    whole_archive_flag_spec_F77="$wlarc"--whole-archive$convenience
    "$wlarc"--no-whole-archive'
  else
    whole_archive_flag_spec_F77=
  fi
  supports_anon_versioning=no
  case ` $LD -v 2>/dev/null ` in
    *\ [01].* | *\ 2.[0-9].* | *\ 2.10.*) ;; # catch versions < 2.11
    *\ 2.11.93.0.2\ *) supports_anon_versioning=yes ;; # RH7.3 ...
    *\ 2.11.92.0.12\ *) supports_anon_versioning=yes ;; # Mandrake 8.2
    ...
    *\ 2.11.*) ;; # other 2.11 versions
    *) supports_anon_versioning=yes ;;

```

```

esac

# See if GNU ld supports shared libraries.
case $host_os in
aix3* | aix4* | aix5*)
    # On AIX/PPC, the GNU linker is very broken
    if test "$host_cpu" != ia64; then
        ld_shlibs_F77=no
        cat <<EOF 1>&2

*** Warning: the GNU linker, at least up to release 2.9.1, is reported
*** to be unable to reliably create shared libraries on AIX.
*** Therefore, libtool is disabling shared libraries support.  If you
*** really care for shared libraries, you may want to modify your PATH
*** so that a non-GNU linker is found, and then restart.

EOF

        fi
        ;;

    amigaos*)
        archive_cmds_F77='$rm $output_objdir/a2ixlibrary.data~$echo
"#define NAME $libname" > $output_objdir/a2ixlibrary.data~$echo "#define
LIBRARY_ID 1" >> $output_objdir/a2ixlibrary.data~$echo "#define VERSION
$major" >> $output_objdir/a2ixlibrary.data~$echo "#define REVISION
$revision" >> $output_objdir/a2ixlibrary.data~$AR $AR_FLAGS $lib
$libobjs~$RANLIB $lib~(cd $output_objdir && a2ixlibrary -32)'
        hardcode_libdir_flag_spec_F77='-L$libdir'
        hardcode_minus_L_F77=yes

        # Samuel A. Falvo II <kc5tja@dolphin.openprojects.net> reports
        # that the semantics of dynamic libraries on AmigaOS, at least up
        # to version 4, is to share data among multiple programs linked
        # with the same dynamic library.  Since this doesn't match the
        # behavior of shared libraries on other platforms, we can't use
        # them.
        ld_shlibs_F77=no
        ;;

    beos*)
        if $LD --help 2>&1 | grep ': supported targets:.* elf' > /dev/null;
then
            allow_undefined_flag_F77=unsupported
            # Joseph Beckenbach <jrb3@best.com> says some releases of gcc
            # support --undefined.  This deserves some investigation.  FIXME
            archive_cmds_F77='$CC -nostart $libobjs $deplibs $compiler_flags
${wl}-soname $wl$soname -o $lib'
            else
                ld_shlibs_F77=no
            fi
            ;;

    cygwin* | mingw* | pw32*)

```



```

# _LT_AC_TAGVAR(hardcode_libdir_flag_spec, F77) is actually
meaningless,
# as there is no search path for DLLs.
hardcode_libdir_flag_spec_F77='-L$libdir'
allow_undefined_flag_F77=unsupported
always_export_symbols_F77=no
enable_shared_with_static_runtimes_F77=yes
export_symbols_cmds_F77='$NM $libobjs $convenience |
$global_symbol_pipe | $SED -e '\''/^[BCDGRS] /s/.*/ \([^\ ]*\)/\1 DATA/'\''
| $SED -e '\''/^[AITW] /s/.*/ //'\'' | sort | uniq > $export_symbols'

if $LD --help 2>&1 | grep 'auto-import' > /dev/null; then
  archive_cmds_F77='$CC -shared $libobjs $deplibs $compiler_flags -
o $output_objdir/$soname ${wl}--enable-auto-image-base -Xlinker --out-
implib -Xlinker $lib'
  # If the export-symbols file already is a .def file (1st line
  # is EXPORTS), use it as is; otherwise, prepend...
  archive_expsym_cmds_F77='if test "x`$SED 1q $export_symbols`" =
xEXPORTS; then
  cp $export_symbols $output_objdir/$soname.def;
else
  echo EXPORTS > $output_objdir/$soname.def;
  cat $export_symbols >> $output_objdir/$soname.def;
fi~
$CC -shared $output_objdir/$soname.def $libobjs $deplibs
$compiler_flags -o $output_objdir/$soname ${wl}--enable-auto-image-base -
Xlinker --out-implib -Xlinker $lib'
else
  ld_shlibs_F77=no
fi
;;

interix3*)
  hardcode_direct_F77=no
  hardcode_shlibpath_var_F77=no
  hardcode_libdir_flag_spec_F77='${wl}-rpath,$libdir'
  export_dynamic_flag_spec_F77='${wl}-E'
  # Hack: On Interix 3.x, we cannot compile PIC because of a broken
gcc.
  # Instead, shared libraries are loaded at an image base (0x10000000
by
  # default) and relocated if they conflict, which is a slow very
memory
  # consuming and fragmenting process. To avoid this, we pick a
random,
  # 256 KiB-aligned image base between 0x50000000 and 0x6FFC0000 at
link
  # time. Moving up from 0x10000000 also allows more sbrk(2) space.
  archive_cmds_F77='$CC -shared $pic_flag $libobjs $deplibs
$compiler_flags ${wl}-h,$soname ${wl}--image-base,`expr ${RANDOM-$$} %
4096 / 2 \* 262144 + 1342177280` -o $lib'
  archive_expsym_cmds_F77='sed "s,^,_, " $export_symbols
>$output_objdir/$soname.expsym~$CC -shared $pic_flag $libobjs $deplibs
$compiler_flags ${wl}-h,$soname ${wl}--retain-symbols-

```

```

file,$output_objdir/$soname.expsym ${wl}--image-base,`expr ${RANDOM-$$} %
4096 / 2 \* 262144 + 1342177280` -o $lib'
;;

linux*)
  if $LD --help 2>&1 | grep ': supported targets:.* elf' > /dev/null;
then
  tmp_addflag=
  case $cc_basename,$host_cpu in
  pgcc*) # Portland Group C compiler
    whole_archive_flag_spec_F77='${wl}--whole-archive`for conv in
$convenience\`\""; do test -n \"$conv\" &&
new_convenience=\"$new_convenience,$conv\"; done; $echo
\"$new_convenience\`\"` ${wl}--no-whole-archive'
    tmp_addflag=' $pic_flag'
    ;;
  pgf77* | pgf90* | pgf95*) # Portland Group f77 and f90 compilers
    whole_archive_flag_spec_F77='${wl}--whole-archive`for conv in
$convenience\`\""; do test -n \"$conv\" &&
new_convenience=\"$new_convenience,$conv\"; done; $echo
\"$new_convenience\`\"` ${wl}--no-whole-archive'
    tmp_addflag=' $pic_flag -Mnomain' ;;
  ecc*,ia64* | icc*,ia64*) # Intel C compiler on ia64
    tmp_addflag=' -i_dynamic' ;;
  efc*,ia64* | ifort*,ia64*) # Intel Fortran compiler on ia64
    tmp_addflag=' -i_dynamic -nofor_main' ;;
  ifc* | ifort*) # Intel Fortran compiler
    tmp_addflag=' -nofor_main' ;;
  esac
  archive_cmds_F77='$CC -shared'"$tmp_addflag"' $libobjs $deplibs
$compiler_flags ${wl}-soname $wl$soname -o $lib'

  if test $supports_anon_versioning = yes; then
    archive_expsym_cmds_F77='$echo "{ global:" >
$output_objdir/$libname.ver~
cat $export_symbols | sed -e "s/(.*)/\1;/\" >>
$output_objdir/$libname.ver~
$echo "local: *; };" >> $output_objdir/$libname.ver~
$CC -shared'"$tmp_addflag"' $libobjs $deplibs $compiler_flags
${wl}-soname $wl$soname ${wl}-version-script
${wl}$output_objdir/$libname.ver -o $lib'
  fi
  else
  ld_shlibs_F77=no
  fi
  ;;

netbsd*)
  if echo __ELF__ | $CC -E - | grep __ELF__ >/dev/null; then
    archive_cmds_F77='$LD -Bshareable $libobjs $deplibs $linker_flags -
o $lib'
  else
  wlarc=
  else

```

```

        archive_cmds_F77='$CC -shared $libobjs $deplibs $compiler_flags
${wl}-soname $wl$soname -o $lib'
        archive_expsym_cmds_F77='$CC -shared $libobjs $deplibs
$compiler_flags ${wl}-soname $wl$soname ${wl}-retain-symbols-file
$wl$export_symbols -o $lib'
        fi
        ;;

```

```

solaris*)

```

```

    if $LD -v 2>&1 | grep 'BFD 2\.8' > /dev/null; then
        ld_shlibs_F77=no
        cat <<EOF 1>&2

```

```

*** Warning: The releases 2.8.* of the GNU linker cannot reliably
*** create shared libraries on Solaris systems. Therefore, libtool
*** is disabling shared libraries support. We urge you to upgrade GNU
*** binutils to release 2.9.1 or newer. Another option is to modify
*** your PATH or compiler configuration so that the native linker is
*** used, and then restart.

```

```

EOF

```

```

        elif $LD --help 2>&1 | grep ': supported targets:.* elf' >
/dev/null; then
            archive_cmds_F77='$CC -shared $libobjs $deplibs $compiler_flags
${wl}-soname $wl$soname -o $lib'
            archive_expsym_cmds_F77='$CC -shared $libobjs $deplibs
$compiler_flags ${wl}-soname $wl$soname ${wl}-retain-symbols-file
$wl$export_symbols -o $lib'
        else
            ld_shlibs_F77=no
        fi
        ;;

```

```

sysv5* | sco3.2v5* | sco5v6* | unixware* | OpenUNIX*)
    case ` $LD -v 2>&1 ` in
        *\ [01].* | *\ 2.[0-9].* | *\ 2.1[0-5].*)
            ld_shlibs_F77=no
            cat <<_LT_EOF 1>&2

```

```

*** Warning: Releases of the GNU linker prior to 2.16.91.0.3 can not
*** reliably create shared libraries on SCO systems. Therefore, libtool
*** is disabling shared libraries support. We urge you to upgrade GNU
*** binutils to release 2.16.91.0.3 or newer. Another option is to
modify
*** your PATH or compiler configuration so that the native linker is
*** used, and then restart.

```

```

_LT_EOF

```

```

        ;;
        *)
            if $LD --help 2>&1 | grep ': supported targets:.* elf' >
/dev/null; then
                hardcode_libdir_flag_spec_F77=`test -z "$SCOABSPATH" && echo
${wl}-rpath,$libdir`

```

```

        archive_cmds_F77='$CC -shared $libobjs $deplibs $compiler_flags
${wl}-soname,\${SCOABSPATH:+\${install_libdir}/}$soname -o $lib'
        archive_expsym_cmds_F77='$CC -shared $libobjs $deplibs
$compiler_flags ${wl}-soname,\${SCOABSPATH:+\${install_libdir}/}$soname,-
retain-symbols-file,$export_symbols -o $lib'
        else
            ld_shlibs_F77=no
        fi
    ;;
esac
;;

sunos4*)
    archive_cmds_F77='$LD -assert pure-text -Bshareable -o $lib
$libobjs $deplibs $linker_flags'
    wlarc=
    hardcode_direct_F77=yes
    hardcode_shlibpath_var_F77=no
    ;;

*)
    if $LD --help 2>&1 | grep ': supported targets:.* elf' > /dev/null;
then
        archive_cmds_F77='$CC -shared $libobjs $deplibs $compiler_flags
${wl}-soname $wl$soname -o $lib'
        archive_expsym_cmds_F77='$CC -shared $libobjs $deplibs
$compiler_flags ${wl}-soname $wl$soname ${wl}-retain-symbols-file
$wl$export_symbols -o $lib'
        else
            ld_shlibs_F77=no
        fi
    ;;
esac

if test "$ld_shlibs_F77" = no; then
    runpath_var=
    hardcode_libdir_flag_spec_F77=
    export_dynamic_flag_spec_F77=
    whole_archive_flag_spec_F77=
fi
else
    # PORTME fill in a description of your system's linker (not GNU ld)
    case $host_os in
    aix3*)
        allow_undefined_flag_F77=unsupported
        always_export_symbols_F77=yes
        archive_expsym_cmds_F77='$LD -o $output_objdir/$soname $libobjs
$deplibs $linker_flags -bE:$export_symbols -T512 -H512 -bM:SRE~$AR
$AR_FLAGS $lib $output_objdir/$soname'
        # Note: this linker hardcodes the directories in LIBPATH if there
        # are no directories specified by -L.
        hardcode_minus_L_F77=yes
        if test "$GCC" = yes && test -z "$lt_prog_compiler_static"; then
            # Neither direct hardcoding nor static linking is supported with a

```

```

# broken collect2.
hardcode_direct_F77=unsupported
fi
;;

aix4* | aix5*)
  if test "$host_cpu" = ia64; then
    # On IA64, the linker does run time linking by default, so we don't
    # have to do anything special.
    aix_use_runtimelinking=no
    exp_sym_flag='-Bexport'
    no_entry_flag=""
  else
    # If we're using GNU nm, then we don't want the "-C" option.
    # -C means demangle to AIX nm, but means don't demangle with GNU nm
    if $NM -V 2>&1 | grep 'GNU' > /dev/null; then
      export_symbols_cmds_F77='$NM -Bpg $libobjs $convenience | awk
'\''{ if (((\2 == "T") || (\2 == "D") || (\2 == "B")) &&
(substr(\3,1,1) != ".")) { print \3 } }'\'' | sort -u >
$export_symbols'
    else
      export_symbols_cmds_F77='$NM -BCpg $libobjs $convenience | awk
'\''{ if (((\2 == "T") || (\2 == "D") || (\2 == "B")) &&
(substr(\3,1,1) != ".")) { print \3 } }'\'' | sort -u >
$export_symbols'
    fi
    aix_use_runtimelinking=no

    # Test if we are trying to use run time linking or normal
    # AIX style linking. If -brtl is somewhere in LDFLAGS, we
    # need to do runtime linking.
    case $host_os in aix4.[23]|aix4.[23].*|aix5*)
      for ld_flag in $LDFLAGS; do
        if (test $ld_flag = "-brtl" || test $ld_flag = "-Wl,-brtl"); then
          aix_use_runtimelinking=yes
          break
        fi
      done
    ;;
  esac

  exp_sym_flag='-bexport'
  no_entry_flag='-bnoentry'
  fi

  # When large executables or shared objects are built, AIX ld can
  # have problems creating the table of contents.  If linking a
library
  # or program results in "error TOC overflow" add -mminimal-toc to
  # CXXFLAGS/CFLAGS for g++/gcc.  In the cases where that is not
  # enough to fix the problem, add -Wl,-bbigtoc to LDFLAGS.

  archive_cmds_F77=''
  hardcode_direct_F77=yes

```

```

hardcode_libdir_separator_F77=':'
link_all_deplibs_F77=yes

if test "$GCC" = yes; then
case $host_os in aix4.[012]|aix4.[012].*)
# We only want to do this on AIX 4.2 and lower, the check
# below for broken collect2 doesn't work under 4.3+
collect2name=`${CC} -print-prog-name=collect2`
if test -f "$collect2name" && \
strings "$collect2name" | grep resolve_lib_name >/dev/null
then
# We have reworked collect2
hardcode_direct_F77=yes
else
# We have old collect2
hardcode_direct_F77=unsupported
# It fails to find uninstalled libraries when the uninstalled
# path is not listed in the libpath. Setting hardcode_minus_L
# to unsupported forces relinking
hardcode_minus_L_F77=yes
hardcode_libdir_flag_spec_F77='-L$libdir'
hardcode_libdir_separator_F77=
fi
;;
esac
shared_flag='-shared'
if test "$aix_use_runtimelinking" = yes; then
shared_flag="$shared_flag "'${wl}-G'
fi
else
# not using gcc
if test "$host_cpu" = ia64; then
# VisualAge C++, Version 5.5 for AIX 5L for IA-64, Beta 3 Release
# chokes on -Wl,-G. The following line is correct:
shared_flag='-G'
else
if test "$aix_use_runtimelinking" = yes; then
shared_flag='${wl}-G'
else
shared_flag='${wl}-bM:SRE'
fi
fi
fi

# It seems that -bexpall does not export symbols beginning with
# underscore (_), so it is better to generate a list of symbols to
export.
always_export_symbols_F77=yes
if test "$aix_use_runtimelinking" = yes; then
# Warning - without using the other runtime loading flags (-brtl),
# -berok will link without error, but may produce a broken library.
allow_undefined_flag_F77='-berok'
# Determine the default libpath from the value encoded in an empty
executable.

```

```

        cat >confptest.$ac_ext <<_ACEOF
program main

        end
_ACEOF
rm -f confptest.$ac_objext confptest$ac_exeext
if { (eval echo "$as_me:$LINENO: \"$ac_link\"" ) >&5
      (eval $ac_link) 2>confptest.erl
      ac_status=$?
      grep -v '^ *+' confptest.erl >confptest.err
      rm -f confptest.erl
      cat confptest.err >&5
      echo "$as_me:$LINENO: \ $? = $ac_status" >&5
      (exit $ac_status); } &&
    { ac_try='test -z "$ac_f77_werror_flag"
              || test ! -s confptest.err'
      { (eval echo "$as_me:$LINENO: \"$ac_try\"" ) >&5
        (eval $ac_try) 2>&5
        ac_status=$?
        echo "$as_me:$LINENO: \ $? = $ac_status" >&5
        (exit $ac_status); }; } &&
    { ac_try='test -s confptest$ac_exeext'
      { (eval echo "$as_me:$LINENO: \"$ac_try\"" ) >&5
        (eval $ac_try) 2>&5
        ac_status=$?
        echo "$as_me:$LINENO: \ $? = $ac_status" >&5
        (exit $ac_status); }; }; then

aix_libpath=`dump -H confptest$ac_exeext 2>/dev/null | $SED -n -e '/Import
File Strings/,/^$/ { /^0/ { s/^0  *\(.*\)$/\1/; p; }
}'`
# Check for a 64-bit object if we didn't find anything.
if test -z "$aix_libpath"; then aix_libpath=`dump -HX64
confptest$ac_exeext 2>/dev/null | $SED -n -e '/Import File Strings/,/^$/ {
/^0/ { s/^0  *\(.*\)$/\1/; p; }
}'`; fi
else
  echo "$as_me: failed program was:" >&5
  sed 's/^| /' confptest.$ac_ext >&5

fi
rm -f confptest.err confptest.$ac_objext \
      confptest$ac_exeext confptest.$ac_ext
if test -z "$aix_libpath"; then aix_libpath="/usr/lib:/lib"; fi

        hardcode_libdir_flag_spec_F77='${wl}-
blibpath:$libdir:"$aix_libpath"
        archive_expsym_cmds_F77="\$CC" -o $output_objdir/$soname $libobjs
$deplibs "'\${wl}$no_entry_flag"' $compiler_flags `if test
"x${allow_undefined_flag}" != "x"; then echo
"${wl}${allow_undefined_flag}"; else ;; fi`
        "\${wl}$exp_sym_flag:\$export_symbols $shared_flag"
        else
        if test "$host_cpu" = ia64; then

```

```

        hardcode_libdir_flag_spec_F77='${wl}-R $libdir:/usr/lib:/lib'
        allow_undefined_flag_F77="-z nodefs"
        archive_expsym_cmds_F77="\$CC $shared_flag" -o
$output_objdir/$soname $libobjs $deplibs '"\${wl}$no_entry_flag"'
$compiler_flags ${wl}${allow_undefined_flag}
'"\${wl}$exp_sym_flag:\$export_symbols"
    else
        # Determine the default libpath from the value encoded in an empty
executable.
        cat >conftest.$ac_ext <<_ACEOF
        program main

        end
    _ACEOF
rm -f conftest.$ac_objext conftest$ac_exeext
if { (eval echo "$as_me:$LINENO: \"\$ac_link\"" ) >&5
    (eval $ac_link) 2>conftest.er1
    ac_status=$?
    grep -v '^ *+' conftest.er1 >conftest.err
    rm -f conftest.er1
    cat conftest.err >&5
    echo "$as_me:$LINENO: \$? = $ac_status" >&5
    (exit $ac_status); } &&
    { ac_try='test -z "$ac_f77_werror_flag"
        || test ! -s conftest.err'
    { (eval echo "$as_me:$LINENO: \"\$ac_try\"" ) >&5
    (eval $ac_try) 2>&5
    ac_status=$?
    echo "$as_me:$LINENO: \$? = $ac_status" >&5
    (exit $ac_status); }; } &&
    { ac_try='test -s conftest$ac_exeext'
    { (eval echo "$as_me:$LINENO: \"\$ac_try\"" ) >&5
    (eval $ac_try) 2>&5
    ac_status=$?
    echo "$as_me:$LINENO: \$? = $ac_status" >&5
    (exit $ac_status); }; }; then

aix_libpath=`dump -H conftest$ac_exeext 2>/dev/null | $SED -n -e '/Import
File Strings/,/^$/ { /^0/ { s/^0 *\(.*\)$/\1/; p; }
}'`
# Check for a 64-bit object if we didn't find anything.
if test -z "$aix_libpath"; then aix_libpath=`dump -HX64
conftest$ac_exeext 2>/dev/null | $SED -n -e '/Import File Strings/,/^$/ {
/^0/ { s/^0 *\(.*\)$/\1/; p; }
}'`; fi
else
    echo "$as_me: failed program was:" >&5
    sed 's/^/| /' conftest.$ac_ext >&5

fi
rm -f conftest.err conftest.$ac_objext \
    conftest$ac_exeext conftest.$ac_ext
if test -z "$aix_libpath"; then aix_libpath="/usr/lib:/lib"; fi

```



```

        hardcode_libdir_flag_spec_F77='${wl}-
bldirpath:$libdir:"$aix_libpath"
        # Warning - without using the other run time loading flags,
        # -berok will link without error, but may produce a broken
library.
        no_undefined_flag_F77=' ${wl}-bernotok'
        allow_undefined_flag_F77=' ${wl}-berok'
        # Exported symbols can be pulled into shared objects from
archives
        whole_archive_flag_spec_F77='$convenience'
        archive_cmds_need_lc_F77=yes
        # This is similar to how AIX traditionally builds its shared
libraries.
        archive_expsym_cmds_F77="\$CC $shared_flag" -o
$output_objdir/$soname $libobjs $deplibs ${wl}-bnoentry $compiler_flags
${wl}-bE:$export_symbols${allow_undefined_flag}~$AR $AR_FLAGS
$output_objdir/$libname$release.a $output_objdir/$soname'
        fi
        fi
        ;;

        amigaos*)
        archive_cmds_F77='$rm $output_objdir/a2ixlibrary.data~$echo
"#define NAME $libname" > $output_objdir/a2ixlibrary.data~$echo "#define
LIBRARY_ID 1" >> $output_objdir/a2ixlibrary.data~$echo "#define VERSION
$major" >> $output_objdir/a2ixlibrary.data~$echo "#define REVISION
$revision" >> $output_objdir/a2ixlibrary.data~$AR $AR_FLAGS $lib
$libobjs~$RANLIB $lib~(cd $output_objdir && a2ixlibrary -32)'
        hardcode_libdir_flag_spec_F77='-L$libdir'
        hardcode_minus_L_F77=yes
        # see comment about different semantics on the GNU ld section
ld_shlibs_F77=no
        ;;

        bsdi[45]*)
        export_dynamic_flag_spec_F77=-rdynamic
        ;;

        cygwin* | mingw* | pw32*)
        # When not using gcc, we currently assume that we are using
        # Microsoft Visual C++.
        # hardcode_libdir_flag_spec is actually meaningless, as there is
        # no search path for DLLs.
        hardcode_libdir_flag_spec_F77=' '
        allow_undefined_flag_F77=unsupported
        # Tell ltmain to make .lib files, not .a files.
        libext=lib
        # Tell ltmain to make .dll files, not .so files.
        shrext_cmds=".dll"
        # FIXME: Setting linknames here is a bad hack.
        archive_cmds_F77='$CC -o $lib $libobjs $compiler_flags `echo
"$deplibs" | $SED -e '\''s/ -lc$//'\`` -link -dll~linknames='
        # The linker will automatically build a .lib file if we build a
        DLL.

```

```

old_archive_From_new_cmds_F77='true'
# FIXME: Should let the user specify the lib program.
old_archive_cmds_F77='lib /OUT:$oldlib$oldobjs$old_deplibs'
fix_srcfile_path_F77='`cygpath -w "$srcfile"`'
enable_shared_with_static_runtimes_F77=yes
;;

darwin* | rhapsody*)
case $host_os in
  rhapsody* | darwin1.[012])
    allow_undefined_flag_F77='${wl}-undefined ${wl}suppress'
    ;;
  *) # Darwin 1.3 on
    if test -z ${MACOSX_DEPLOYMENT_TARGET} ; then
      allow_undefined_flag_F77='${wl}-flat_namespace ${wl}-undefined
${wl}suppress'
    else
      case ${MACOSX_DEPLOYMENT_TARGET} in
        10.[012])
          allow_undefined_flag_F77='${wl}-flat_namespace ${wl}-
undefined ${wl}suppress'
          ;;
        10.*)
          allow_undefined_flag_F77='${wl}-undefined
${wl}dynamic_lookup'
          ;;
      esac
    fi
  ;;
esac
archive_cmds_need_lc_F77=no
hardcode_direct_F77=no
hardcode_automatic_F77=yes
hardcode_shlibpath_var_F77=unsupported
whole_archive_flag_spec_F77=''
link_all_deplibs_F77=yes
if test "$GCC" = yes ; then
  output_verbose_link_cmd='echo'
  archive_cmds_F77='$CC -dynamiclib $allow_undefined_flag -o $lib
$libobjs $deplibs $compiler_flags -install_name $rpath/$soname
$verstring'
  module_cmds_F77='$CC $allow_undefined_flag -o $lib -bundle $libobjs
$deplibs$compiler_flags'
  # Don't fix this by using the ld -exported_symbols_list flag, it
  # doesn't exist in older darwin lds
  archive_expsym_cmds_F77='sed -e "s,*,*,," -e "s,^[ ]*,*,," -e
"s,^\(..*\),_&," < $export_symbols > $output_objdir/${libname}-
symbols.expsym~$CC -dynamiclib $allow_undefined_flag -o $lib $libobjs
$deplibs $compiler_flags -install_name $rpath/$soname $verstring~nmedit -
s $output_objdir/${libname}-symbols.expsym ${lib}'
  module_expsym_cmds_F77='sed -e "s,*,*,," -e "s,^[ ]*,*,," -e
"s,^\(..*\),_&," < $export_symbols > $output_objdir/${libname}-
symbols.expsym~$CC $allow_undefined_flag -o $lib -bundle $libobjs

```

```

$deplibs$compiler_flags~nmedit -s $output_objdir/${libname}-
symbols.expsym ${lib}'
    else
        case $cc_basename in
            xlc*)
                output_verbose_link_cmd='echo'
                archive_cmds_F77='$CC -qmkshrobj $allow_undefined_flag -o $lib
$libobjs $deplibs $compiler_flags ${wl}-install_name ${wl}`echo
$spath/$soname` $verstring'
                module_cmds_F77='$CC $allow_undefined_flag -o $lib -bundle
$libobjs $deplibs$compiler_flags'
                # Don't fix this by using the ld -exported_symbols_list flag,
it doesn't exist in older darwin lds
                archive_expsym_cmds_F77='sed -e "s,#.*,, " -e "s,^[ ]*,," -e
"s,^\(..*\),_&," < $export_symbols > $output_objdir/${libname}-
symbols.expsym~$CC -qmkshrobj $allow_undefined_flag -o $lib $libobjs
$deplibs $compiler_flags ${wl}-install_name ${wl}$spath/$soname
$verstring~nmedit -s $output_objdir/${libname}-symbols.expsym ${lib}'
                module_expsym_cmds_F77='sed -e "s,#.*,, " -e "s,^[ ]*,," -e
"s,^\(..*\),_&," < $export_symbols > $output_objdir/${libname}-
symbols.expsym~$CC $allow_undefined_flag -o $lib -bundle $libobjs
$deplibs$compiler_flags~nmedit -s $output_objdir/${libname}-
symbols.expsym ${lib}'
                ;;
            *)
                ld_shlibs_F77=no
                ;;
        esac
    fi
    ;;

dgux*)
    archive_cmds_F77='$LD -G -h $soname -o $lib $libobjs $deplibs
$linker_flags'
    hardcode_libdir_flag_spec_F77='-L$libdir'
    hardcode_shlibpath_var_F77=no
    ;;

freebsd1*)
    ld_shlibs_F77=no
    ;;

# FreeBSD 2.2.[012] allows us to include c++rt0.o to get C++
constructor
# support. Future versions do this automatically, but an explicit
c++rt0.o
# does not break anything, and helps significantly (at the cost of a
little
# extra space).
freebsd2.2*)
    archive_cmds_F77='$LD -Bshareable -o $lib $libobjs $deplibs
$linker_flags /usr/lib/c++rt0.o'
    hardcode_libdir_flag_spec_F77='-R$libdir'
    hardcode_direct_F77=yes

```

```

hardcode_shlibpath_var_F77=no
;;

# Unfortunately, older versions of FreeBSD 2 do not have this
feature.
freebsd2*)
    archive_cmds_F77='$LD -Bshareable -o $lib $libobjs $deplibs
$linker_flags'
    hardcode_direct_F77=yes
    hardcode_minus_L_F77=yes
    hardcode_shlibpath_var_F77=no
    ;;

# FreeBSD 3 and greater uses gcc -shared to do shared libraries.
freebsd* | kfreebsd*-gnu | dragonfly*)
    archive_cmds_F77='$CC -shared -o $lib $libobjs $deplibs
$compiler_flags'
    hardcode_libdir_flag_spec_F77='-R$libdir'
    hardcode_direct_F77=yes
    hardcode_shlibpath_var_F77=no
    ;;

hpux9*)
    if test "$GCC" = yes; then
        archive_cmds_F77='$rm $output_objdir/$soname~$CC -shared -fPIC
${wl}+b ${wl}$install_libdir -o $output_objdir/$soname $libobjs $deplibs
$compiler_flags~test $output_objdir/$soname = $lib || mv
$output_objdir/$soname $lib'
    else
        archive_cmds_F77='$rm $output_objdir/$soname~$LD -b +b
$install_libdir -o $output_objdir/$soname $libobjs $deplibs
$linker_flags~test $output_objdir/$soname = $lib || mv
$output_objdir/$soname $lib'
    fi
    hardcode_libdir_flag_spec_F77='${wl}+b ${wl}$libdir'
    hardcode_libdir_separator_F77=:
    hardcode_direct_F77=yes

    # hardcode_minus_L: Not really in the search PATH,
    # but as the default location of the library.
    hardcode_minus_L_F77=yes
    export_dynamic_flag_spec_F77='${wl}-E'
    ;;

hpux10*)
    if test "$GCC" = yes -a "$with_gnu_ld" = no; then
        archive_cmds_F77='$CC -shared -fPIC ${wl}+h ${wl}$soname ${wl}+b
${wl}$install_libdir -o $lib $libobjs $deplibs $compiler_flags'
    else
        archive_cmds_F77='$LD -b +h $soname +b $install_libdir -o $lib
$libobjs $deplibs $linker_flags'
    fi
    if test "$with_gnu_ld" = no; then
        hardcode_libdir_flag_spec_F77='${wl}+b ${wl}$libdir'
    fi

```

```

hardcode_libdir_separator_F77=:

hardcode_direct_F77=yes
export_dynamic_flag_spec_F77='${wl}-E'

# hardcode_minus_L: Not really in the search PATH,
# but as the default location of the library.
hardcode_minus_L_F77=yes
fi
;;

hpux11*)
  if test "$GCC" = yes -a "$with_gnu_ld" = no; then
    case $host_cpu in
      hppa*64*)
        archive_cmds_F77='$CC -shared ${wl}+h ${wl}$soname -o $lib
$libobjs $deplibs $compiler_flags'
        ;;
      ia64*)
        archive_cmds_F77='$CC -shared ${wl}+h ${wl}$soname
${wl}+nodefaulttrpath -o $lib $libobjs $deplibs $compiler_flags'
        ;;
      *)
        archive_cmds_F77='$CC -shared -fPIC ${wl}+h ${wl}$soname ${wl}+b
${wl}$install_libdir -o $lib $libobjs $deplibs $compiler_flags'
        ;;
    esac
  else
    case $host_cpu in
      hppa*64*)
        archive_cmds_F77='$CC -b ${wl}+h ${wl}$soname -o $lib $libobjs
$deplibs $compiler_flags'
        ;;
      ia64*)
        archive_cmds_F77='$CC -b ${wl}+h ${wl}$soname
${wl}+nodefaulttrpath -o $lib $libobjs $deplibs $compiler_flags'
        ;;
      *)
        archive_cmds_F77='$CC -b ${wl}+h ${wl}$soname ${wl}+b
${wl}$install_libdir -o $lib $libobjs $deplibs $compiler_flags'
        ;;
    esac
  fi
  if test "$with_gnu_ld" = no; then
    hardcode_libdir_flag_spec_F77='${wl}+b ${wl}$libdir'
    hardcode_libdir_separator_F77=:

    case $host_cpu in
      hppa*64*|ia64*)
        hardcode_libdir_flag_spec_ld_F77='+b $libdir'
        hardcode_direct_F77=no
        hardcode_shlibpath_var_F77=no
        ;;
    *)

```

```

hardcode_direct_F77=yes
export_dynamic_flag_spec_F77='${wl}-E'

# hardcode_minus_L: Not really in the search PATH,
# but as the default location of the library.
hardcode_minus_L_F77=yes
;;
esac
fi
;;

irix5* | irix6* | nonstopux*)
  if test "$GCC" = yes; then
    archive_cmds_F77='$CC -shared $libobjs $deplibs $compiler_flags
${wl}-soname ${wl}$soname `test -n "$verstring" && echo ${wl}-set_version
${wl}$verstring` ${wl}-update_registry ${wl}${output_objdir}/so_locations
-o $lib'
  else
    archive_cmds_F77='$LD -shared $libobjs $deplibs $linker_flags -
soname $soname `test -n "$verstring" && echo -set_version $verstring` -
update_registry ${output_objdir}/so_locations -o $lib'
    hardcode_libdir_flag_spec_ld_F77='-rpath $libdir'
    fi
    hardcode_libdir_flag_spec_F77='${wl}-rpath ${wl}$libdir'
    hardcode_libdir_separator_F77=:
    link_all_deplibs_F77=yes
    ;;

netbsd*)
  if echo __ELF__ | $CC -E - | grep __ELF__ >/dev/null; then
    archive_cmds_F77='$LD -Bshareable -o $lib $libobjs $deplibs
$linker_flags' # a.out
  else
    archive_cmds_F77='$LD -shared -o $lib $libobjs $deplibs
$linker_flags' # ELF
  fi
  hardcode_libdir_flag_spec_F77='-R$libdir'
  hardcode_direct_F77=yes
  hardcode_shlibpath_var_F77=no
  ;;

newsos6)
  archive_cmds_F77='$LD -G -h $soname -o $lib $libobjs $deplibs
$linker_flags'
  hardcode_direct_F77=yes
  hardcode_libdir_flag_spec_F77='${wl}-rpath ${wl}$libdir'
  hardcode_libdir_separator_F77=:
  hardcode_shlibpath_var_F77=no
  ;;

openbsd*)
  hardcode_direct_F77=yes
  hardcode_shlibpath_var_F77=no

```

```

        if test -z "`echo __ELF__ | $CC -E - | grep __ELF__`" || test
"$host_os-$host_cpu" = "openbsd2.8-powerpc"; then
        archive_cmds_F77='$CC -shared $pic_flag -o $lib $libobjs $deplibs
$compiler_flags'
        archive_expsym_cmds_F77='$CC -shared $pic_flag -o $lib $libobjs
$deplibs $compiler_flags ${wl}-retain-symbols-file,$export_symbols'
        hardcode_libdir_flag_spec_F77='${wl}-rpath,$libdir'
        export_dynamic_flag_spec_F77='${wl}-E'
        else
        case $host_os in
        openbsd[01].* | openbsd2.[0-7] | openbsd2.[0-7].*)
        archive_cmds_F77='$LD -Bshareable -o $lib $libobjs $deplibs
$linker_flags'
        hardcode_libdir_flag_spec_F77='-R$libdir'
        ;;
        *)
        archive_cmds_F77='$CC -shared $pic_flag -o $lib $libobjs
$deplibs $compiler_flags'
        hardcode_libdir_flag_spec_F77='${wl}-rpath,$libdir'
        ;;
        esac
        fi
        ;;

os2*)
        hardcode_libdir_flag_spec_F77='-L$libdir'
        hardcode_minus_L_F77=yes
        allow_undefined_flag_F77=unsupported
        archive_cmds_F77='$echo "LIBRARY $libname INITINSTANCE" >
$output_objdir/$libname.def~$echo "DESCRIPTION \"$libname\"" >>
$output_objdir/$libname.def~$echo DATA >>
$output_objdir/$libname.def~$echo " SINGLE NONSHARED" >>
$output_objdir/$libname.def~$echo EXPORTS >>
$output_objdir/$libname.def~emxexp $libobjs >>
$output_objdir/$libname.def~$CC -Zdll -Zcrtdll -o $lib $libobjs $deplibs
$compiler_flags $output_objdir/$libname.def'
        old_archive_From_new_cmds_F77='emximp -o $output_objdir/$libname.a
$output_objdir/$libname.def'
        ;;

osf3*)
        if test "$GCC" = yes; then
        allow_undefined_flag_F77=' ${wl}-expect_unresolved ${wl}\*'
        archive_cmds_F77='$CC -shared${allow_undefined_flag} $libobjs
$deplibs $compiler_flags ${wl}-soname ${wl}$soname `test -n "$verstring"
&& echo ${wl}-set_version ${wl}$verstring` ${wl}-update_registry
${wl}${output_objdir}/so_locations -o $lib'
        else
        allow_undefined_flag_F77=' -expect_unresolved \*'
        archive_cmds_F77='$LD -shared${allow_undefined_flag} $libobjs
$deplibs $linker_flags -soname $soname `test -n "$verstring" && echo -
set_version $verstring` -update_registry ${output_objdir}/so_locations -o
$lib'
        fi

```

```

hardcode_libdir_flag_spec_F77='${wl}-rpath ${wl}$libdir'
hardcode_libdir_separator_F77=:
;;

osf4* | osf5*)      # as osf3* with the addition of -msym flag
if test "$GCC" = yes; then
    allow_undefined_flag_F77=' ${wl}-expect_unresolved ${wl}\*'
    archive_cmds_F77='$CC -shared${allow_undefined_flag} $libobjs
$deplibs $compiler_flags ${wl}-msym ${wl}-soname ${wl}$soname `test -n
"$sverstring" && echo ${wl}-set_version ${wl}$sverstring` ${wl}-
update_registry ${wl}${output_objdir}/so_locations -o $lib'
    hardcode_libdir_flag_spec_F77='${wl}-rpath ${wl}$libdir'
else
    allow_undefined_flag_F77=' -expect_unresolved \*'
    archive_cmds_F77='$LD -shared${allow_undefined_flag} $libobjs
$deplibs $linker_flags -msym -soname $soname `test -n "$sverstring" &&
echo -set_version $sverstring` -update_registry
${output_objdir}/so_locations -o $lib'
    archive_expsym_cmds_F77='for i in `cat $export_symbols`; do printf
"%s %s\n" -exported_symbol "\$i" >> $lib.exp; done; echo "-hidden">>
$lib.exp~
    $LD -shared${allow_undefined_flag} -input $lib.exp $linker_flags
$libobjs $deplibs -soname $soname `test -n "$sverstring" && echo -
set_version $sverstring` -update_registry ${output_objdir}/so_locations -o
$lib~$rm $lib.exp'

# Both c and cxx compiler support -rpath directly
hardcode_libdir_flag_spec_F77='-rpath $libdir'
fi
hardcode_libdir_separator_F77=:
;;

solaris*)
no_undefined_flag_F77=' -z text'
if test "$GCC" = yes; then
    wlarc='${wl}'
    archive_cmds_F77='$CC -shared ${wl}-h ${wl}$soname -o $lib $libobjs
$deplibs $compiler_flags'
    archive_expsym_cmds_F77='$echo "{ global:" > $lib.exp~cat
$export_symbols | $SED -e "s/\(.*\)/\1;/ " >> $lib.exp~$echo "local: *;
};" >> $lib.exp~
    $CC -shared ${wl}-M ${wl}$lib.exp ${wl}-h ${wl}$soname -o $lib
$libobjs $deplibs $compiler_flags~$rm $lib.exp'
else
    wlarc=''
    archive_cmds_F77='$LD -G${allow_undefined_flag} -h $soname -o $lib
$libobjs $deplibs $linker_flags'
    archive_expsym_cmds_F77='$echo "{ global:" > $lib.exp~cat
$export_symbols | $SED -e "s/\(.*\)/\1;/ " >> $lib.exp~$echo "local: *;
};" >> $lib.exp~
    $LD -G${allow_undefined_flag} -M $lib.exp -h $soname -o $lib
$libobjs $deplibs $linker_flags~$rm $lib.exp'
fi
hardcode_libdir_flag_spec_F77='-R$libdir'

```



```

hardcode_shlibpath_var_F77=no
case $host_os in
solaris2.[0-5] | solaris2.[0-5].*) ;;
*)
# The compiler driver will combine linker options so we
# cannot just pass the convenience library names through
# without $wl, iff we do not link with $LD.
# Luckily, gcc supports the same syntax we need for Sun Studio.
# Supported since Solaris 2.6 (maybe 2.5.1?)
case $wlarc in
'')
whole_archive_flag_spec_F77='-z alleextract$convenience -z
defaultextract' ;;
*)
whole_archive_flag_spec_F77='${wl}-z ${wl}alleextract`for conv in
$convenience\`; do test -n \"$conv\" &&
new_convenience=\"$new_convenience,$conv\"; done; $echo
\"$new_convenience\` ${wl}-z ${wl}defaultextract' ;;
esac ;;
esac
link_all_deplibs_F77=yes
;;

sunos4*)
if test "x$host_vendor" = xsequent; then
# Use $CC to link under sequent, because it throws in some extra .o
# files that make .init and .fini sections work.
archive_cmds_F77='$CC -G ${wl}-h $soname -o $lib $libobjs $deplibs
$compiler_flags'
else
archive_cmds_F77='$LD -assert pure-text -Bstatic -o $lib $libobjs
$deplibs $linker_flags'
fi
hardcode_libdir_flag_spec_F77='-L$libdir'
hardcode_direct_F77=yes
hardcode_minus_L_F77=yes
hardcode_shlibpath_var_F77=no
;;

sysv4)
case $host_vendor in
sni)
archive_cmds_F77='$LD -G -h $soname -o $lib $libobjs $deplibs
$linker_flags'
hardcode_direct_F77=yes # is this really true???
;;
siemens)
## LD is ld it makes a PLAMLIB
## CC just makes a GrossModule.
archive_cmds_F77='$LD -G -o $lib $libobjs $deplibs $linker_flags'
reload_cmds_F77='$CC -r -o $output$reload_objs'
hardcode_direct_F77=no
;;
motorola)

```

```

        archive_cmds_F77='$LD -G -h $soname -o $lib $libobjs $deplibs
$linker_flags'
        hardcode_direct_F77=no #Motorola manual says yes, but my tests
say they lie
        ;;
    esac
    runpath_var='LD_RUN_PATH'
    hardcode_shlibpath_var_F77=no
    ;;

sysv4.3*)
    archive_cmds_F77='$LD -G -h $soname -o $lib $libobjs $deplibs
$linker_flags'
    hardcode_shlibpath_var_F77=no
    export_dynamic_flag_spec_F77='-Bexport'
    ;;

sysv4*MP*)
    if test -d /usr/nec; then
        archive_cmds_F77='$LD -G -h $soname -o $lib $libobjs $deplibs
$linker_flags'
        hardcode_shlibpath_var_F77=no
        runpath_var=LD_RUN_PATH
        hardcode_runpath_var=yes
        ld_shlibs_F77=yes
    fi
    ;;

sysv4*uw2* | sysv5OpenUNIX* | sysv5UnixWare7.[01].[10]* | unixware7*)
    no_undefined_flag_F77='${wl}-z,text'
    archive_cmds_need_lc_F77=no
    hardcode_shlibpath_var_F77=no
    runpath_var='LD_RUN_PATH'

    if test "$GCC" = yes; then
        archive_cmds_F77='$CC -shared ${wl}-h,$soname -o $lib $libobjs
$deplibs $compiler_flags'
        archive_expsym_cmds_F77='$CC -shared ${wl}-Bexport:$export_symbols
${wl}-h,$soname -o $lib $libobjs $deplibs $compiler_flags'
    else
        archive_cmds_F77='$CC -G ${wl}-h,$soname -o $lib $libobjs $deplibs
$compiler_flags'
        archive_expsym_cmds_F77='$CC -G ${wl}-Bexport:$export_symbols
${wl}-h,$soname -o $lib $libobjs $deplibs $compiler_flags'
    fi
    ;;

sysv5* | sco3.2v5* | sco5v6*)
    # Note: We can NOT use -z defs as we might desire, because we do
not
    # link with -lc, and that would cause any symbols used from libc to
    # always be unresolved, which means just about no library would
    # ever link correctly.  If we're not using GNU ld we use -z text

```

```

# though, which does catch some bad symbols but isn't as heavy-
handed
# as -z defs.
no_undefined_flag_F77='${wl}-z,text'
allow_undefined_flag_F77='${wl}-z,nodefs'
archive_cmds_need_lc_F77=no
hardcode_shlibpath_var_F77=no
hardcode_libdir_flag_spec_F77=`test -z "$SCOABSPATH" && echo
${wl}-R,$libdir`
hardcode_libdir_separator_F77=':'
link_all_deplibs_F77=yes
export_dynamic_flag_spec_F77='${wl}-Bexport'
runpath_var='LD_RUN_PATH'

if test "$GCC" = yes; then
archive_cmds_F77='$CC -shared ${wl}-
h,\${SCOABSPATH:+${install_libdir}/}$soname -o $lib $libobjs $deplibs
$compiler_flags'
archive_expsym_cmds_F77='$CC -shared ${wl}-Bexport:$export_symbols
${wl}-h,\${SCOABSPATH:+${install_libdir}/}$soname -o $lib $libobjs
$deplibs $compiler_flags'
else
archive_cmds_F77='$CC -G ${wl}-
h,\${SCOABSPATH:+${install_libdir}/}$soname -o $lib $libobjs $deplibs
$compiler_flags'
archive_expsym_cmds_F77='$CC -G ${wl}-Bexport:$export_symbols
${wl}-h,\${SCOABSPATH:+${install_libdir}/}$soname -o $lib $libobjs
$deplibs $compiler_flags'
fi
;;

uts4*)
archive_cmds_F77='$LD -G -h $soname -o $lib $libobjs $deplibs
$linker_flags'
hardcode_libdir_flag_spec_F77='-L$libdir'
hardcode_shlibpath_var_F77=no
;;

*)
ld_shlibs_F77=no
;;
esac
fi

echo "$as_me:$LINENO: result: $ld_shlibs_F77" >&5
echo "${ECHO_T}$ld_shlibs_F77" >&6
test "$ld_shlibs_F77" = no && can_build_shared=no

#
# Do we need to explicitly link libc?
#
case "x$archive_cmds_need_lc_F77" in
x|yes)
# Assume -lc should be added

```

```

archive_cmds_need_lc_F77=yes

if test "$enable_shared" = yes && test "$GCC" = yes; then
  case $archive_cmds_F77 in
    *~'~')
      # FIXME: we may have to deal with multi-command sequences.
      ;;
    '$CC '*')
      # Test whether the compiler implicitly links with -lc since on some
      # systems, -lgcc has to come before -lc. If gcc already passes -lc
      # to ld, don't add -lc before -lgcc.
      echo "$as_me:$LINENO: checking whether -lc should be explicitly
linked in" >&5
      echo $ECHO_N "checking whether -lc should be explicitly linked in...
$ECHO_C" >&6
      $rm conftest*
      printf "$lt_simple_compile_test_code" > conftest.$ac_ext

      if { (eval echo "$as_me:$LINENO: \"$ac_compile\"" >&5
(eval $ac_compile) 2>&5
ac_status=$?
echo "$as_me:$LINENO: \ $? = $ac_status" >&5
(exit $ac_status); } 2>conftest.err; then
        soname=conftest
        lib=conftest
        libobjs=conftest.$ac_objext
        deplibs=
        wl=$lt_prog_compiler_wl_F77
        pic_flag=$lt_prog_compiler_pic_F77
        compiler_flags=-v
        linker_flags=-v
        verstring=
        output_objdir=.
        libname=conftest
        lt_save_allow_undefined_flag=$allow_undefined_flag_F77
        allow_undefined_flag_F77=
        if { (eval echo "$as_me:$LINENO: \"$archive_cmds_F77 2\>\&1 \ |
grep \" -lc \" \>/dev/null 2\>\&1\"" >&5
(eval $archive_cmds_F77 2\>\&1 \ | grep \" -lc \" \>/dev/null 2\>\&1)
2>&5
ac_status=$?
echo "$as_me:$LINENO: \ $? = $ac_status" >&5
(exit $ac_status); }
        then
          archive_cmds_need_lc_F77=no
        else
          archive_cmds_need_lc_F77=yes
        fi
        allow_undefined_flag_F77=$lt_save_allow_undefined_flag
      else
        cat conftest.err 1>&5
      fi
      $rm conftest*
      echo "$as_me:$LINENO: result: $archive_cmds_need_lc_F77" >&5

```

```

echo "${ECHO_T}$archive_cmds_need_lc_F77" >&6
    ;;
    esac
fi
;;
esac

echo "$as_me:$LINENO: checking dynamic linker characteristics" >&5
echo $ECHO_N "checking dynamic linker characteristics... $ECHO_C" >&6
library_names_spec=
libname_spec='lib$name'
soname_spec=
shrext_cmds=".so"
postinstall_cmds=
postuninstall_cmds=
finish_cmds=
finish_eval=
shlibpath_var=
shlibpath_overrides_runpath=unknown
version_type=none
dynamic_linker="$host_os ld.so"
sys_lib_dlsearch_path_spec="/lib /usr/lib"
if test "$GCC" = yes; then
    sys_lib_search_path_spec=`$CC -print-search-dirs | grep "^libraries:" |
$SED -e "s/^libraries://" -e "s,=,/,g"`
    if echo "$sys_lib_search_path_spec" | grep ';' >/dev/null ; then
        # if the path contains ";" then we assume it to be the separator
        # otherwise default to the standard path separator (i.e. ":") - it is
        # assumed that no part of a normal pathname contains ";" but that
should
        # okay in the real world where ";" in dirpaths is itself problematic.
        sys_lib_search_path_spec=`echo "$sys_lib_search_path_spec" | $SED -e
's;/ /g'`
    else
        sys_lib_search_path_spec=`echo "$sys_lib_search_path_spec" | $SED -e
"s/$PATH_SEPARATOR/ /g"`
    fi
else
    sys_lib_search_path_spec="/lib /usr/lib /usr/local/lib"
fi
need_lib_prefix=unknown
hardcode_into_libs=no

# when you set need_version to no, make sure it does not cause -
set_version
# flags to be left without arguments
need_version=unknown

case $host_os in
aix3*)
    version_type=linux
    library_names_spec='${libname}${release}${shared_ext}$versuffix
$libname.a'
    shlibpath_var=LIBPATH

```

```

# AIX 3 has no versioning support, so we append a major version to the
name.
soname_spec='${libname}${release}${shared_ext}$major'
;;

aix4* | aix5*)
version_type=linux
need_lib_prefix=no
need_version=no
hardcode_into_libs=yes
if test "$host_cpu" = ia64; then
# AIX 5 supports IA64
library_names_spec='${libname}${release}${shared_ext}$major
${libname}${release}${shared_ext}$versuffix $libname${shared_ext}'
shlibpath_var=LD_LIBRARY_PATH
else
# With GCC up to 2.95.x, collect2 would create an import file
# for dependence libraries. The import file would start with
# the line `#! .' . This would cause the generated library to
# depend on `.', always an invalid library. This was fixed in
# development snapshots of GCC prior to 3.0.
case $host_os in
aix4 | aix4.[01] | aix4.[01].*)
if { echo '#if __GNUC__ > 2 || (__GNUC__ == 2 && __GNUC_MINOR__ >=
97)';
echo ' yes '
echo '#endif'; } | ${CC} -E - | grep yes > /dev/null; then
:
else
can_build_shared=no
fi
;;
esac
# AIX (on Power*) has no versioning support, so currently we can not
hardcode correct
# soname into executable. Probably we can add versioning support to
# collect2, so additional links can be useful in future.
if test "$aix_use_runtimelinking" = yes; then
# If using run time linking (on AIX 4.2 or later) use lib<name>.so
# instead of lib<name>.a to let people know that these are not
# typical AIX shared libraries.
library_names_spec='${libname}${release}${shared_ext}$versuffix
${libname}${release}${shared_ext}$major $libname${shared_ext}'
else
# We preserve .a as extension for shared libraries through AIX4.2
# and later when we are not doing run time linking.
library_names_spec='${libname}${release}.a $libname.a'
soname_spec='${libname}${release}${shared_ext}$major'
fi
shlibpath_var=LIBPATH
fi
;;

```

```

amigaos*)
    library_names_spec='$libname.ixlibrary $libname.a'
    # Create ${libname}_ixlibrary.a entries in /sys/libs.
    finish_eval='for lib in `ls $libdir/*.ixlibrary 2>/dev/null`; do
libname=`$echo "X$lib" | $Xsed -e
'\''s%^.*/\([^/]*\)\\.ixlibrary$%\1%\''`; test $rm
/sys/libs/${libname}_ixlibrary.a; $show "cd /sys/libs && $LN_S $lib
${libname}_ixlibrary.a"; cd /sys/libs && $LN_S $lib
${libname}_ixlibrary.a || exit 1; done'
    ;;

beos*)
    library_names_spec='${libname}${shared_ext}'
    dynamic_linker="$host_os ld.so"
    shlibpath_var=LIBRARY_PATH
    ;;

bsdi[45]*)
    version_type=linux
    need_version=no
    library_names_spec='${libname}${release}${shared_ext}$versuffix
${libname}${release}${shared_ext}$major $libname${shared_ext}'
    soname_spec='${libname}${release}${shared_ext}$major'
    finish_cmds='PATH="$PATH:/sbin" ldconfig $libdir'
    shlibpath_var=LD_LIBRARY_PATH
    sys_lib_search_path_spec="/shlib /usr/lib /usr/X11/lib /usr/contrib/lib
/lib /usr/local/lib"
    sys_lib_dlsearch_path_spec="/shlib /usr/lib /usr/local/lib"
    # the default ld.so.conf also contains /usr/contrib/lib and
    # /usr/X11R6/lib (/usr/X11 is a link to /usr/X11R6), but let us allow
    # libtool to hard-code these into programs
    ;;

cygwin* | mingw* | pw32*)
    version_type=windows
    shrext_cmds=".dll"
    need_version=no
    need_lib_prefix=no

    case $GCC,$host_os in
    yes,cygwin* | yes,mingw* | yes,pw32*)
        library_names_spec='$libname.dll.a'
        # DLL is installed to $(libdir)/../bin by postinstall_cmds
        postinstall_cmds='base_file=`basename \${file}`~
        dlpath=`$SHELL 2>&1 -c '\''. $dir/\${base_file}'\''i;echo
\${dlname}'\''~
        dldir=$destdir/`dirname \${dlpath}`~
        test -d \${dldir} || mkdir -p \${dldir}~
        $install_prog $dir/\${dlname} \${dldir}/\${dlname}~
        chmod a+x \${dldir}/\${dlname}'
        postuninstall_cmds='dldll=`$SHELL 2>&1 -c '\''. $file; echo
\${dlname}'\''~
        dlpath=$dir/\${dldll}~
        $rm \${dlpath}'
    esac

```

```

shlibpath_overrides_runpath=yes

case $host_os in
  cygwin*)
    # Cygwin DLLs use 'cyg' prefix rather than 'lib'
    soname_spec=`echo ${libname} | sed -e 's/^lib/cyg/'`echo
    ${release} | $SED -e 's/[.]/-/g'`${versuffix}${shared_ext}'
    sys_lib_search_path_spec="/usr/lib /lib/w32api /lib /usr/local/lib"
    ;;
  mingw*)
    # MinGW DLLs use traditional 'lib' prefix
    soname_spec='${libname}`echo ${release} | $SED -e 's/[.]/-/g'`${versuffix}${shared_ext}'
    sys_lib_search_path_spec=`$CC -print-search-dirs | grep
    "^libraries:" | $SED -e "s/^libraries://" -e "s,=,/,g"`
    if echo "$sys_lib_search_path_spec" | grep '[c-zA-Z]:/'
    >/dev/null; then
      # It is most probably a Windows format PATH printed by
      # mingw gcc, but we are running on Cygwin. Gcc prints its search
      # path with ; separators, and with drive letters. We can handle
      the
      # drive letters (cygwin fileutils understands them), so leave
      them,
      # especially as we might pass files found there to a mingw
      objdump,
      # which wouldn't understand a cygwinified path. Ahh.
      sys_lib_search_path_spec=`echo "$sys_lib_search_path_spec" | $SED
      -e 's;/ /g'`
    else
      sys_lib_search_path_spec=`echo "$sys_lib_search_path_spec" | $SED
      -e "s/$PATH_SEPARATOR/ /g"`
    fi
    ;;
  pw32*)
    # pw32 DLLs use 'pw' prefix rather than 'lib'
    library_names_spec=`echo ${libname} | sed -e 's/^lib/pw/'`echo
    ${release} | $SED -e 's/[.]/-/g'`${versuffix}${shared_ext}'
    ;;
  esac
  ;;
*)
    library_names_spec='${libname}`echo ${release} | $SED -e 's/[.]/-/g'`${versuffix}${shared_ext} $libname.lib'
    ;;
  esac
  dynamic_linker='Win32 ld.exe'
  # FIXME: first we should search . and the directory the executable is
  in
  shlibpath_var=PATH
  ;;
darwin* | rhapsody*)
  dynamic_linker="$host_os dyld"

```



```

version_type=darwin
need_lib_prefix=no
need_version=no
library_names_spec='${libname}${release}${versuffix}$shared_ext
${libname}${release}${major}$shared_ext ${libname}$shared_ext'
soname_spec='${libname}${release}${major}$shared_ext'
shlibpath_overrides_runpath=yes
shlibpath_var=DYLD_LIBRARY_PATH
shrext_cmds='`test $.module = .yes && echo .so || echo .dylib`'
# Apple's gcc prints 'gcc -print-search-dirs' doesn't operate the same.
if test "$GCC" = yes; then
    sys_lib_search_path_spec=`$CC -print-search-dirs | tr "\n"
"$PATH_SEPARATOR" | sed -e 's/libraries:@libraries:/' | tr "@" "\n" |
grep "^libraries:" | sed -e "s/^libraries:/" -e "s,=,/,g" -e
"s,$PATH_SEPARATOR, ,g" -e "s,.*, & /lib /usr/lib /usr/local/lib,g"`
else
    sys_lib_search_path_spec='/lib /usr/lib /usr/local/lib'
fi
sys_lib_dlsearch_path_spec='/usr/local/lib /lib /usr/lib'
;;

```

dgux\*)

```

version_type=linux
need_lib_prefix=no
need_version=no
library_names_spec='${libname}${release}${shared_ext}$versuffix
${libname}${release}${shared_ext}$major ${libname}$shared_ext'
soname_spec='${libname}${release}${shared_ext}$major'
shlibpath_var=LD_LIBRARY_PATH
;;

```

freebsd1\*)

```

dynamic_linker=no
;;

```

kfreebsd\*-gnu)

```

version_type=linux
need_lib_prefix=no
need_version=no
library_names_spec='${libname}${release}${shared_ext}$versuffix
${libname}${release}${shared_ext}$major ${libname}${shared_ext}'
soname_spec='${libname}${release}${shared_ext}$major'
shlibpath_var=LD_LIBRARY_PATH
shlibpath_overrides_runpath=no
hardcode_into_libs=yes
dynamic_linker='GNU ld.so'
;;

```

freebsd\* | dragonfly\*)

```

# DragonFly does not have aout.  When/if they implement a new
# versioning mechanism, adjust this.
if test -x /usr/bin/objformat; then
    objformat=`/usr/bin/objformat`
else

```

```

        case $host_os in
        freebsd[123]*) objformat=aout ;;
        *) objformat=elf ;;
        esac
    fi
    version_type=freebsd- $\$objformat$ 
    case $version_type in
        freebsd-elf*)
            library_names_spec='${libname}${release}${shared_ext}$versuffix
${libname}${release}${shared_ext} $libname${shared_ext}'
            need_version=no
            need_lib_prefix=no
            ;;
        freebsd-*)
            library_names_spec='${libname}${release}${shared_ext}$versuffix
$libname${shared_ext}$versuffix'
            need_version=yes
            ;;
        esac
    shlibpath_var=LD_LIBRARY_PATH
    case $host_os in
        freebsd2*)
            shlibpath_overrides_runpath=yes
            ;;
        freebsd3.[01]* | freebsdelf3.[01]*)
            shlibpath_overrides_runpath=yes
            hardcode_into_libs=yes
            ;;
        freebsd3.[2-9]* | freebsdelf3.[2-9]* | \
        freebsd4.[0-5] | freebsdelf4.[0-5] | freebsd4.1.1 | freebsdelf4.1.1)
            shlibpath_overrides_runpath=no
            hardcode_into_libs=yes
            ;;
        freebsd*) # from 4.6 on
            shlibpath_overrides_runpath=yes
            hardcode_into_libs=yes
            ;;
        esac
    ;;

gnu*)
    version_type=linux
    need_lib_prefix=no
    need_version=no
    library_names_spec='${libname}${release}${shared_ext}$versuffix
${libname}${release}${shared_ext}${major} ${libname}${shared_ext}'
    soname_spec='${libname}${release}${shared_ext}$major'
    shlibpath_var=LD_LIBRARY_PATH
    hardcode_into_libs=yes
    ;;

hpux9* | hpux10* | hpux11*)
    # Give a soname corresponding to the major version so that dld.sl
    refuses to

```

```

# link against other versions.
version_type=sunos
need_lib_prefix=no
need_version=no
case $host_cpu in
ia64*)
    shrext_cmds='.so'
    hardcode_into_libs=yes
    dynamic_linker="$host_os dld.so"
    shlibpath_var=LD_LIBRARY_PATH
    shlibpath_overrides_runpath=yes # Unless +noenvvar is specified.
    library_names_spec='${libname}${release}${shared_ext}$versuffix
${libname}${release}${shared_ext}$major $libname${shared_ext}'
    soname_spec='${libname}${release}${shared_ext}$major'
    if test "X$HPUX_IA64_MODE" = X32; then
        sys_lib_search_path_spec="/usr/lib/hpux32 /usr/local/lib/hpux32
/usr/local/lib"
    else
        sys_lib_search_path_spec="/usr/lib/hpux64 /usr/local/lib/hpux64"
    fi
    sys_lib_dlsearch_path_spec=$sys_lib_search_path_spec
    ;;
hppa*64*)
    shrext_cmds='.sl'
    hardcode_into_libs=yes
    dynamic_linker="$host_os dld.sl"
    shlibpath_var=LD_LIBRARY_PATH # How should we handle SHLIB_PATH
    shlibpath_overrides_runpath=yes # Unless +noenvvar is specified.
    library_names_spec='${libname}${release}${shared_ext}$versuffix
${libname}${release}${shared_ext}$major $libname${shared_ext}'
    soname_spec='${libname}${release}${shared_ext}$major'
    sys_lib_search_path_spec="/usr/lib/pa20_64 /usr/ccs/lib/pa20_64"
    sys_lib_dlsearch_path_spec=$sys_lib_search_path_spec
    ;;
*)
    shrext_cmds='.sl'
    dynamic_linker="$host_os dld.sl"
    shlibpath_var=SHLIB_PATH
    shlibpath_overrides_runpath=no # +s is required to enable SHLIB_PATH
    library_names_spec='${libname}${release}${shared_ext}$versuffix
${libname}${release}${shared_ext}$major $libname${shared_ext}'
    soname_spec='${libname}${release}${shared_ext}$major'
    ;;
esac
# HP-UX runs *really* slowly unless shared libraries are mode 555.
postinstall_cmds='chmod 555 $lib'
;;

interix3*)
    version_type=linux
    need_lib_prefix=no
    need_version=no
    library_names_spec='${libname}${release}${shared_ext}$versuffix
${libname}${release}${shared_ext}$major ${libname}${shared_ext}'

```

```

soname_spec='${libname}${release}${shared_ext}$major'
dynamic_linker='Interix 3.x ld.so.1 (PE, like ELF)'
shlibpath_var=LD_LIBRARY_PATH
shlibpath_overrides_runpath=no
hardcode_into_libs=yes
;;

irix5* | irix6* | nonstopux*)
case $host_os in
  nonstopux*) version_type=nonstopux ;;
  *)
    if test "$lt_cv_prog_gnu_ld" = yes; then
      version_type=linux
    else
      version_type=irix
    fi ;;
esac
need_lib_prefix=no
need_version=no
soname_spec='${libname}${release}${shared_ext}$major'
library_names_spec='${libname}${release}${shared_ext}$versuffix
${libname}${release}${shared_ext}$major ${libname}${release}${shared_ext}
${libname}${shared_ext}'
case $host_os in
  irix5* | nonstopux*)
    libsuff= shlibsuff=
    ;;
  *)
    case $LD in # libtool.m4 will add one of these switches to LD
      *-32|*" -32 " | *-melf32bsmip|*" -melf32bsmip ")
        libsuff= shlibsuff= libmagic=32-bit;;
      *-n32|*" -n32 " | *-melf32bmipn32|*" -melf32bmipn32 ")
        libsuff=32 shlibsuff=N32 libmagic=N32;;
      *-64|*" -64 " | *-melf64bmip|*" -melf64bmip ")
        libsuff=64 shlibsuff=64 libmagic=64-bit;;
      *) libsuff= shlibsuff= libmagic=never-match;;
    esac
    ;;
esac
shlibpath_var=LD_LIBRARY${shlibsuff}_PATH
shlibpath_overrides_runpath=no
sys_lib_search_path_spec="/usr/lib${libsuff} /lib${libsuff}
/usr/local/lib${libsuff}"
sys_lib_dlsearch_path_spec="/usr/lib${libsuff} /lib${libsuff}"
hardcode_into_libs=yes
;;

# No shared lib support for Linux oldld, aout, or coff.
linux*oldld* | linux*aout* | linux*coff*)
dynamic_linker=no
;;

# This must be Linux ELF.
linux*)

```

```

version_type=linux
need_lib_prefix=no
need_version=no
library_names_spec='${libname}${release}${shared_ext}$versuffix
${libname}${release}${shared_ext}$major $libname${shared_ext}'
soname_spec='${libname}${release}${shared_ext}$major'
finish_cmds='PATH="$PATH:/sbin" ldconfig -n $libdir'
shlibpath_var=LD_LIBRARY_PATH
shlibpath_overrides_runpath=no
# This implies no fast_install, which is unacceptable.
# Some rework will be needed to allow for fast_install
# before this can be enabled.
hardcode_into_libs=yes

# find out which ABI we are using
libsuff=
case "$host_cpu" in
x86_64*|s390x*|powerpc64*)
    echo '#line 14944 "configure"' > conftest.$ac_ext
    if { (eval echo "$as_me:$LINENO: \"\$ac_compile\"" ) >&5
(eval $ac_compile) 2>&5
ac_status=$?
echo "$as_me:$LINENO: \$? = $ac_status" >&5
(exit $ac_status); }; then
        case ` /usr/bin/file conftest.$ac_objext ` in
        *64-bit*)
            libsuff=64
            sys_lib_search_path_spec="/lib${libsuff} /usr/lib${libsuff}
/usr/local/lib${libsuff}"
                ;;
        esac
    fi
    rm -rf conftest*
    ;;
esac

# Append ld.so.conf contents to the search path
if test -f /etc/ld.so.conf; then
    lt_ld_extra=`awk '/^include / { system(sprintf("cd /etc; cat %s",
\2)); skip = 1; } { if (!skip) print \$0; skip = 0; }' < /etc/ld.so.conf
| $SED -e 's/#.*//;s/[:,\t]/ /g;s/=[^=]*$//;s/=[^= ]* / /g;/^$/d' | tr
'\n' ' ' `
    sys_lib_dlsearch_path_spec="/lib${libsuff} /usr/lib${libsuff}
$lt_ld_extra"
fi

# We used to test for /lib/ld.so.1 and disable shared libraries on
# powerpc, because MkLinux only supported shared libraries with the
# GNU dynamic linker. Since this was broken with cross compilers,
# most powerpc-linux boxes support dynamic linking these days and
# people can always --disable-shared, the test was removed, and we
# assume the GNU/Linux dynamic linker is in use.
dynamic_linker='GNU/Linux ld.so'
;;

```

```

knetbsd*-gnu)
    version_type=linux
    need_lib_prefix=no
    need_version=no
    library_names_spec='${libname}${release}${shared_ext}$versuffix
${libname}${release}${shared_ext}$major ${libname}${shared_ext}'
    soname_spec='${libname}${release}${shared_ext}$major'
    shlibpath_var=LD_LIBRARY_PATH
    shlibpath_overrides_runpath=no
    hardcode_into_libs=yes
    dynamic_linker='GNU ld.so'
    ;;

netbsd*)
    version_type=sunos
    need_lib_prefix=no
    need_version=no
    if echo __ELF__ | $CC -E - | grep __ELF__ >/dev/null; then
        library_names_spec='${libname}${release}${shared_ext}$versuffix
${libname}${shared_ext}$versuffix'
        finish_cmds='PATH="\$PATH:/sbin" ldconfig -m $libdir'
        dynamic_linker='NetBSD (a.out) ld.so'
    else
        library_names_spec='${libname}${release}${shared_ext}$versuffix
${libname}${release}${shared_ext}$major ${libname}${shared_ext}'
        soname_spec='${libname}${release}${shared_ext}$major'
        dynamic_linker='NetBSD ld.elf_so'
    fi
    shlibpath_var=LD_LIBRARY_PATH
    shlibpath_overrides_runpath=yes
    hardcode_into_libs=yes
    ;;

newsos6)
    version_type=linux
    library_names_spec='${libname}${release}${shared_ext}$versuffix
${libname}${release}${shared_ext}$major $libname${shared_ext}'
    shlibpath_var=LD_LIBRARY_PATH
    shlibpath_overrides_runpath=yes
    ;;

nto-qnx*)
    version_type=linux
    need_lib_prefix=no
    need_version=no
    library_names_spec='${libname}${release}${shared_ext}$versuffix
${libname}${release}${shared_ext}$major $libname${shared_ext}'
    soname_spec='${libname}${release}${shared_ext}$major'
    shlibpath_var=LD_LIBRARY_PATH
    shlibpath_overrides_runpath=yes
    ;;

openbsd*)

```

```

version_type=sunos
sys_lib_dlsearch_path_spec="/usr/lib"
need_lib_prefix=no
# Some older versions of OpenBSD (3.3 at least) *do* need versioned
libs.
case $host_os in
  openbsd3.3 | openbsd3.3.*) need_version=yes ;;
  *) need_version=no ;;
esac
library_names_spec='${libname}${release}${shared_ext}$versuffix
${libname}${shared_ext}$versuffix'
finish_cmds='PATH="\$PATH:/sbin" ldconfig -m $libdir'
shlibpath_var=LD_LIBRARY_PATH
if test -z "`echo __ELF__ | $CC -E - | grep __ELF__`" || test
"$host_os-$host_cpu" = "openbsd2.8-powerpc"; then
  case $host_os in
    openbsd2.[89] | openbsd2.[89].*)
      shlibpath_overrides_runpath=no
      ;;
    *)
      shlibpath_overrides_runpath=yes
      ;;
  esac
else
  shlibpath_overrides_runpath=yes
fi
;;

os2*)
  libname_spec='$name'
  shrext_cmds=".dll"
  need_lib_prefix=no
  library_names_spec='$libname${shared_ext} $libname.a'
  dynamic_linker='OS/2 ld.exe'
  shlibpath_var=LIBPATH
  ;;

osf3* | osf4* | osf5*)
  version_type=osf
  need_lib_prefix=no
  need_version=no
  soname_spec='${libname}${release}${shared_ext}$major'
  library_names_spec='${libname}${release}${shared_ext}$versuffix
${libname}${release}${shared_ext}$major $libname${shared_ext}'
  shlibpath_var=LD_LIBRARY_PATH
  sys_lib_search_path_spec="/usr/shlib /usr/ccs/lib /usr/lib/cmplrs/cc
/usr/lib /usr/local/lib /var/shlib"
  sys_lib_dlsearch_path_spec="$sys_lib_search_path_spec"
  ;;

solaris*)
  version_type=linux
  need_lib_prefix=no
  need_version=no

```

```

    library_names_spec='${libname}${release}${shared_ext}$versuffix
    ${libname}${release}${shared_ext}$major $libname${shared_ext}'
    soname_spec='${libname}${release}${shared_ext}$major'
    shlibpath_var=LD_LIBRARY_PATH
    shlibpath_overrides_runpath=yes
    hardcode_into_libs=yes
    # ldd complains unless libraries are executable
    postinstall_cmds='chmod +x $lib'
    ;;

```

```

sunos4*)
    version_type=sunos
    library_names_spec='${libname}${release}${shared_ext}$versuffix
    ${libname}${shared_ext}$versuffix'
    finish_cmds='PATH="\$PATH:/usr/etc" ldconfig $libdir'
    shlibpath_var=LD_LIBRARY_PATH
    shlibpath_overrides_runpath=yes
    if test "$with_gnu_ld" = yes; then
        need_lib_prefix=no
    fi
    need_version=yes
    ;;

```

```

sysv4 | sysv4.3*)
    version_type=linux
    library_names_spec='${libname}${release}${shared_ext}$versuffix
    ${libname}${release}${shared_ext}$major $libname${shared_ext}'
    soname_spec='${libname}${release}${shared_ext}$major'
    shlibpath_var=LD_LIBRARY_PATH
    case $host_vendor in
        sni)
            shlibpath_overrides_runpath=no
            need_lib_prefix=no
            export_dynamic_flag_spec='${wl}-Blargedynsym'
            runpath_var=LD_RUN_PATH
            ;;
        siemens)
            need_lib_prefix=no
            ;;
        motorola)
            need_lib_prefix=no
            need_version=no
            shlibpath_overrides_runpath=no
            sys_lib_search_path_spec='/lib /usr/lib /usr/ccs/lib'
            ;;
    esac
    ;;

```

```

sysv4*MP*)
    if test -d /usr/nec ;then
        version_type=linux
        library_names_spec='$libname${shared_ext}.$versuffix
    $libname${shared_ext}.$major $libname${shared_ext}'
        soname_spec='$libname${shared_ext}.$major'
    fi

```



```

    shlibpath_var=LD_LIBRARY_PATH
fi
;;

sysv5* | sco3.2v5* | sco5v6* | unixware* | OpenUNIX* | sysv4*uw2*)
    version_type=freebsd-elf
    need_lib_prefix=no
    need_version=no
    library_names_spec='${libname}${release}${shared_ext}$versuffix
${libname}${release}${shared_ext} $libname${shared_ext}'
    soname_spec='${libname}${release}${shared_ext}$major'
    shlibpath_var=LD_LIBRARY_PATH
    hardcode_into_libs=yes
    if test "$with_gnu_ld" = yes; then
        sys_lib_search_path_spec='/usr/local/lib /usr/gnu/lib /usr/ccs/lib
/usr/lib /lib'
        shlibpath_overrides_runpath=no
    else
        sys_lib_search_path_spec='/usr/ccs/lib /usr/lib'
        shlibpath_overrides_runpath=yes
        case $host_os in
            sco3.2v5*)
                sys_lib_search_path_spec="$sys_lib_search_path_spec /lib"
            ;;
        esac
    fi
    sys_lib_dlsearch_path_spec='/usr/lib'
;;

uts4*)
    version_type=linux
    library_names_spec='${libname}${release}${shared_ext}$versuffix
${libname}${release}${shared_ext}$major $libname${shared_ext}'
    soname_spec='${libname}${release}${shared_ext}$major'
    shlibpath_var=LD_LIBRARY_PATH
;;

*)
    dynamic_linker=no
;;
esac
echo "$as_me:$LINENO: result: $dynamic_linker" >&5
echo "${ECHO_T}$dynamic_linker" >&6
test "$dynamic_linker" = no && can_build_shared=no

variables_saved_for_relink="PATH $shlibpath_var $runpath_var"
if test "$GCC" = yes; then
    variables_saved_for_relink="$variables_saved_for_relink GCC_EXEC_PREFIX
COMPILER_PATH LIBRARY_PATH"
fi

echo "$as_me:$LINENO: checking how to hardcode library paths into
programs" >&5

```

```

echo $ECHO_N "checking how to hardcode library paths into programs...
$ECHO_C" >&6
hardcode_action_F77=
if test -n "$hardcode_libdir_flag_spec_F77" || \
    test -n "$runpath_var_F77" || \
    test "X$hardcode_automatic_F77" = "Xyes" ; then

    # We can hardcode non-existent directories.
    if test "$hardcode_direct_F77" != no &&
        # If the only mechanism to avoid hardcoding is shlibpath_var, we
        # have to relink, otherwise we might link with an installed library
        # when we should be linking with a yet-to-be-installed one
        ## test "$_LT_AC_TAGVAR(hardcode_shlibpath_var, F77)" != no &&
        test "$hardcode_minus_L_F77" != no; then
        # Linking always hardcodes the temporary library directory.
        hardcode_action_F77=relink
    else
        # We can link without hardcoding, and we can hardcode nonexisting
        # dirs.
        hardcode_action_F77=immediate
    fi
else
    # We cannot hardcode anything, or else we can only hardcode existing
    # directories.
    hardcode_action_F77=unsupported
fi
echo "$as_me:$LINENO: result: $hardcode_action_F77" >&5
echo "${ECHO_T}$hardcode_action_F77" >&6

if test "$hardcode_action_F77" = relink; then
    # Fast installation is not supported
    enable_fast_install=no
elif test "$shlibpath_overrides_runpath" = yes ||
    test "$enable_shared" = no; then
    # Fast installation is not necessary
    enable_fast_install=needless
fi

# The else clause should only fire when bootstrapping the
# libtool distribution, otherwise you forgot to ship ltmain.sh
# with your package, and you will get complaints that there are
# no rules to generate ltmain.sh.
if test -f "$ltmain"; then
    # See if we are running on zsh, and set the options which allow our
    # commands through
    # without removal of \ escapes.
    if test -n "${ZSH_VERSION+set}" ; then
        setopt NO_GLOB_SUBST
    fi
    # Now quote all the things that may contain metacharacters while being
    # careful not to overquote the AC_SUBSTed values. We take copies of
    # the
    # variables and quote the copies for generation of the libtool script.

```

```

for var in echo old_CC old_CFLAGS AR AR_FLAGS EGREP RANLIB LN_S LTCC
LTCFLAGS NM \
  SED SHELL STRIP \
  libname_spec library_names_spec soname_spec extract_expsyms_cmds \
  old_striplib striplib file_magic_cmd finish_cmds finish_eval \
  deplibs_check_method reload_flag reload_cmds need_locks \
  lt_cv_sys_global_symbol_pipe lt_cv_sys_global_symbol_to_cdecl \
  lt_cv_sys_global_symbol_to_c_name_address \
  sys_lib_search_path_spec sys_lib_dlsearch_path_spec \
  old_postinstall_cmds old_postuninstall_cmds \
  compiler_F77 \
  CC_F77 \
  LD_F77 \
  lt_prog_compiler_wl_F77 \
  lt_prog_compiler_pic_F77 \
  lt_prog_compiler_static_F77 \
  lt_prog_compiler_no_builtin_flag_F77 \
  export_dynamic_flag_spec_F77 \
  thread_safe_flag_spec_F77 \
  whole_archive_flag_spec_F77 \
  enable_shared_with_static_runtimes_F77 \
  old_archive_cmds_F77 \
  old_archive_from_new_cmds_F77 \
  predep_objects_F77 \
  postdep_objects_F77 \
  predeps_F77 \
  postdeps_F77 \
  compiler_lib_search_path_F77 \
  archive_cmds_F77 \
  archive_expsym_cmds_F77 \
  postinstall_cmds_F77 \
  postuninstall_cmds_F77 \
  old_archive_from_expsyms_cmds_F77 \
  allow_undefined_flag_F77 \
  no_undefined_flag_F77 \
  export_symbols_cmds_F77 \
  hardcode_libdir_flag_spec_F77 \
  hardcode_libdir_flag_spec_ld_F77 \
  hardcode_libdir_separator_F77 \
  hardcode_automatic_F77 \
  module_cmds_F77 \
  module_expsym_cmds_F77 \
  lt_cv_prog_compiler_c_o_F77 \
  exclude_expsyms_F77 \
  include_expsyms_F77; do

case $var in
old_archive_cmds_F77 | \
old_archive_from_new_cmds_F77 | \
archive_cmds_F77 | \
archive_expsym_cmds_F77 | \
module_cmds_F77 | \
module_expsym_cmds_F77 | \
old_archive_from_expsyms_cmds_F77 | \

```

```

export_symbols_cmds_F77 | \
extract_expsyms_cmds | reload_cmds | finish_cmds | \
postinstall_cmds | postuninstall_cmds | \
old_postinstall_cmds | old_postuninstall_cmds | \
sys_lib_search_path_spec | sys_lib_dlsearch_path_spec)
    # Double-quote double-eval'd strings.
    eval "lt_$$var=\\\\"`\\`$echo \"X\\$$var\" | \\$Xsed -e
\\\"\\$double_quote_subst\" -e \\\"\\$sed_quote_subst\" -e
\\\"\\$delay_variable_subst\\\"\\\"\\\"\\\""
    ;;
*)
    eval "lt_$$var=\\\\"`\\`$echo \"X\\$$var\" | \\$Xsed -e
\\\"\\$sed_quote_subst\\\"\\\"\\\"\\\""
    ;;
esac
done

case $lt_echo in
*'\$0 --fallback-echo"')
    lt_echo=`$echo "X$lt_echo" | $Xsed -e 's/\\\\\\\\\\\\\\\\$0 --fallback-
echo"$/\$0 --fallback-echo"/'`
    ;;
esac

cfgfile="$ofile"

cat <<__EOF__ >> "$cfgfile"
# ### BEGIN LIBTOOL TAG CONFIG: $tagname

# Libtool was configured on host `(hostname || uname -n) 2>/dev/null |
sed 1q`:

# Shell to use when invoking shell scripts.
SHELL=$lt_SHELL

# Whether or not to build shared libraries.
build_libtool_libs=$enable_shared

# Whether or not to build static libraries.
build_old_libs=$enable_static

# Whether or not to add -lc for building shared libraries.
build_libtool_need_lc=$archive_cmds_need_lc_F77

# Whether or not to disallow shared libs when runtime libs are static
allow_libtool_libs_with_static_runtimes=$enable_shared_with_static_runtim
es_F77

# Whether or not to optimize for fast installation.
fast_install=$enable_fast_install

# The host system.
host_alias=$host_alias
host=$host

```

```

host_os=$host_os

# The build system.
build_alias=$build_alias
build=$build
build_os=$build_os

# An echo program that does not interpret backslashes.
echo=$lt_echo

# The archiver.
AR=$lt_AR
AR_FLAGS=$lt_AR_FLAGS

# A C compiler.
LTCC=$lt_LTCC

# LTCC compiler flags.
LTCFLAGS=$lt_LTCFLAGS

# A language-specific compiler.
CC=$lt_compiler_F77

# Is the compiler the GNU C compiler?
with_gcc=$GCC_F77

# An ERE matcher.
EGREP=$lt_EGREP

# The linker used to build libraries.
LD=$lt_LD_F77

# Whether we need hard or soft links.
LN_S=$lt_LN_S

# A BSD-compatible nm program.
NM=$lt_NM

# A symbol stripping program
STRIP=$lt_STRIP

# Used to examine libraries when file_magic_cmd begins "file"
MAGIC_CMD=$MAGIC_CMD

# Used on cygwin: DLL creation program.
DLLTOOL="$DLLTOOL"

# Used on cygwin: object dumper.
OBJDUMP="$OBJDUMP"

# Used on cygwin: assembler.
AS="$AS"

# The name of the directory that contains temporary libtool files.

```

```

objdir=$objdir

# How to create reloadable object files.
reload_flag=$lt_reload_flag
reload_cmds=$lt_reload_cmds

# How to pass a linker flag through the compiler.
wl=$lt_lt_prog_compiler_wl_F77

# Object file suffix (normally "o").
objext="$ac_objext"

# Old archive suffix (normally "a").
libext="$libext"

# Shared library suffix (normally ".so").
shrext_cmds='$shrext_cmds'

# Executable file suffix (normally "").
exeext="$exeext"

# Additional compiler flags for building library objects.
pic_flag=$lt_lt_prog_compiler_pic_F77
pic_mode=$pic_mode

# What is the maximum length of a command?
max_cmd_len=$lt_cv_sys_max_cmd_len

# Does compiler simultaneously support -c and -o options?
compiler_c_o=$lt_lt_cv_prog_compiler_c_o_F77

# Must we lock files when doing compilation?
need_locks=$lt_need_locks

# Do we need the lib prefix for modules?
need_lib_prefix=$need_lib_prefix

# Do we need a version for libraries?
need_version=$need_version

# Whether dlopen is supported.
dlopen_support=$enable_dlopen

# Whether dlopen of programs is supported.
dlopen_self=$enable_dlopen_self

# Whether dlopen of statically linked programs is supported.
dlopen_self_static=$enable_dlopen_self_static

# Compiler flag to prevent dynamic linking.
link_static_flag=$lt_lt_prog_compiler_static_F77

# Compiler flag to turn off builtin functions.
no_builtin_flag=$lt_lt_prog_compiler_no_builtin_flag_F77

```

```

# Compiler flag to allow reflexive dlopens.
export_dynamic_flag_spec=$lt_export_dynamic_flag_spec_F77

# Compiler flag to generate shared objects directly from archives.
whole_archive_flag_spec=$lt_whole_archive_flag_spec_F77

# Compiler flag to generate thread-safe objects.
thread_safe_flag_spec=$lt_thread_safe_flag_spec_F77

# Library versioning type.
version_type=$version_type

# Format of library name prefix.
libname_spec=$lt_libname_spec

# List of archive names.  First name is the real one, the rest are links.
# The last name is the one that the linker finds with -lNAME.
library_names_spec=$lt_library_names_spec

# The coded name of the library, if different from the real name.
soname_spec=$lt_soname_spec

# Commands used to build and install an old-style archive.
RANLIB=$lt_RANLIB
old_archive_cmds=$lt_old_archive_cmds_F77
old_postinstall_cmds=$lt_old_postinstall_cmds
old_postuninstall_cmds=$lt_old_postuninstall_cmds

# Create an old-style archive from a shared archive.
old_archive_from_new_cmds=$lt_old_archive_from_new_cmds_F77

# Create a temporary old-style archive to link instead of a shared
archive.
old_archive_from_expsyms_cmds=$lt_old_archive_from_expsyms_cmds_F77

# Commands used to build and install a shared archive.
archive_cmds=$lt_archive_cmds_F77
archive_expsym_cmds=$lt_archive_expsym_cmds_F77
postinstall_cmds=$lt_postinstall_cmds
postuninstall_cmds=$lt_postuninstall_cmds

# Commands used to build a loadable module (assumed same as above if
empty)
module_cmds=$lt_module_cmds_F77
module_expsym_cmds=$lt_module_expsym_cmds_F77

# Commands to strip libraries.
old_strip_lib=$lt_old_strip_lib
strip_lib=$lt_strip_lib

# Dependencies to place before the objects being linked to create a
# shared library.
predep_objects=$lt_predep_objects_F77

```

```

# Dependencies to place after the objects being linked to create a
# shared library.
postdep_objects=$lt_postdep_objects_F77

# Dependencies to place before the objects being linked to create a
# shared library.
predeps=$lt_predeps_F77

# Dependencies to place after the objects being linked to create a
# shared library.
postdeps=$lt_postdeps_F77

# The library search path used internally by the compiler when linking
# a shared library.
compiler_lib_search_path=$lt_compiler_lib_search_path_F77

# Method to check whether dependent libraries are shared objects.
deplibs_check_method=$lt_deplibs_check_method

# Command to use when deplibs_check_method == file_magic.
file_magic_cmd=$lt_file_magic_cmd

# Flag that allows shared libraries with undefined symbols to be built.
allow_undefined_flag=$lt_allow_undefined_flag_F77

# Flag that forces no undefined symbols.
no_undefined_flag=$lt_no_undefined_flag_F77

# Commands used to finish a libtool library installation in a directory.
finish_cmds=$lt_finish_cmds

# Same as above, but a single script fragment to be eval'd but not shown.
finish_eval=$lt_finish_eval

# Take the output of nm and produce a listing of raw symbols and C names.
global_symbol_pipe=$lt_lt_cv_sys_global_symbol_pipe

# Transform the output of nm in a proper C declaration
global_symbol_to_cdecl=$lt_lt_cv_sys_global_symbol_to_cdecl

# Transform the output of nm in a C name address pair
global_symbol_to_c_name_address=$lt_lt_cv_sys_global_symbol_to_c_name_address

# This is the shared library runtime path variable.
runpath_var=$runpath_var

# This is the shared library path variable.
shlibpath_var=$shlibpath_var

# Is shlibpath searched before the hard-coded library search path?
shlibpath_overrides_runpath=$shlibpath_overrides_runpath

```



```

# How to hardcode a shared library path into an executable.
hardcode_action=$hardcode_action_F77

# Whether we should hardcode library paths into libraries.
hardcode_into_libs=$hardcode_into_libs

# Flag to hardcode \${libdir} into a binary during linking.
# This must work even if \${libdir} does not exist.
hardcode_libdir_flag_spec=$lt_hardcode_libdir_flag_spec_F77

# If ld is used when linking, flag to hardcode \${libdir} into
# a binary during linking. This must work even if \${libdir} does
# not exist.
hardcode_libdir_flag_spec_ld=$lt_hardcode_libdir_flag_spec_ld_F77

# Whether we need a single -rpath flag with a separated argument.
hardcode_libdir_separator=$lt_hardcode_libdir_separator_F77

# Set to yes if using DIR/libNAME${shared_ext} during linking hardcodes
# DIR into the
# resulting binary.
hardcode_direct=$hardcode_direct_F77

# Set to yes if using the -LDIR flag during linking hardcodes DIR into
# the
# resulting binary.
hardcode_minus_L=$hardcode_minus_L_F77

# Set to yes if using SHLIBPATH_VAR=DIR during linking hardcodes DIR into
# the resulting binary.
hardcode_shlibpath_var=$hardcode_shlibpath_var_F77

# Set to yes if building a shared library automatically hardcodes DIR
# into the library
# and all subsequent libraries and executables linked against it.
hardcode_automatic=$hardcode_automatic_F77

# Variables whose values should be saved in libtool wrapper scripts and
# restored at relink time.
variables_saved_for_relink="$variables_saved_for_relink"

# Whether libtool must link a program against all its dependency
# libraries.
link_all_deplibs=$link_all_deplibs_F77

# Compile-time system search path for libraries
sys_lib_search_path_spec=$lt_sys_lib_search_path_spec

# Run-time system search path for libraries
sys_lib_dlsearch_path_spec=$lt_sys_lib_dlsearch_path_spec

# Fix the shell variable \${srcfile} for the compiler.
fix_srcfile_path="$fix_srcfile_path_F77"

```

```

# Set to yes if exported symbols are required.
always_export_symbols=$always_export_symbols_F77

# The commands to list exported symbols.
export_symbols_cmds=$lt_export_symbols_cmds_F77

# The commands to extract the exported symbol list from a shared archive.
extract_expsyms_cmds=$lt_extract_expsyms_cmds

# Symbols that should not be listed in the preloaded symbols.
exclude_expsyms=$lt_exclude_expsyms_F77

# Symbols that must always be exported.
include_expsyms=$lt_include_expsyms_F77

# ### END LIBTOOL TAG CONFIG: $tagname

__EOF__

```

```

else
  # If there is no Makefile yet, we rely on a make rule to execute
  # `config.status --recheck' to rerun these tests and create the
  # libtool script then.
  ltmain_in=`echo $ltmain | sed -e 's/\.sh$/\.in/'`
  if test -f "$ltmain_in"; then
    test -f Makefile && make "$ltmain"
  fi
fi

```

```

ac_ext=c
ac_cpp='$CPP $CPPFLAGS'
ac_compile='$CC -c $CFLAGS $CPPFLAGS conftest.$ac_ext >&5'
ac_link='$CC -o conftest$ac_exeext $CFLAGS $CPPFLAGS $LDFLAGS
conftest.$ac_ext $LIBS >&5'
ac_compiler_gnu=$ac_cv_c_compiler_gnu

```

```
CC="$lt_save_CC"
```

```

else
  tagname=""
fi
;;

```

```

GCJ)
  if test -n "$GCJ" && test "X$GCJ" != "Xno"; then

```

```

# Source file extension for Java test sources.
ac_ext=java

```

```

# Object file extension for compiled Java test sources.

```

```

object=o
object_GCJ=$object

# Code to be used in simple compile tests
lt_simple_compile_test_code="class foo {} \n"

# Code to be used in simple link tests
lt_simple_link_test_code='public class conftest { public static void
main(String[] argv) {}; } \n'

# ltmain only uses $CC for tagged configurations so make sure $CC is set.

# If no C compiler was specified, use CC.
LTCC=${LTCC-"$CC"}

# If no C compiler flags were specified, use CFLAGS.
LTCFLAGS=${LTCFLAGS-"$CFLAGS"}

# Allow CC to be a program name with arguments.
compiler=$CC

# save warnings/boilerplate of simple test code
ac_outfile=conftest.$ac_objext
printf "$lt_simple_compile_test_code" >conftest.$ac_ext
eval "$ac_compile" 2>&1 >/dev/null | $SED '/^$/d; /^ *+/d' >conftest.err
_lt_compiler_boilerplate=`cat conftest.err`
$rm conftest*

ac_outfile=conftest.$ac_objext
printf "$lt_simple_link_test_code" >conftest.$ac_ext
eval "$ac_link" 2>&1 >/dev/null | $SED '/^$/d; /^ *+/d' >conftest.err
_lt_linker_boilerplate=`cat conftest.err`
$rm conftest*

# Allow CC to be a program name with arguments.
lt_save_CC="$CC"
CC=${GCJ-"gcj"}
compiler=$CC
compiler_GCJ=$CC
for cc_temp in $compiler""; do
  case $cc_temp in
    compile | *[\//]compile | ccache | *[\//]ccache ) ;;
    distcc | *[\//]distcc | purify | *[\//]purify ) ;;
    \-*) ;;
    *) break;;
  esac
done
cc_basename=`$echo "X$cc_temp" | $Xsed -e 's%.*/%%' -e "s%^$host_alias-
%%" `

# GCJ did not exist at the time GCC didn't implicitly link libc in.

```

```

archive_cmds_need_lc_GCJ=no

old_archive_cmds_GCJ=$old_archive_cmds

lt_prog_compiler_no_builtin_flag_GCJ=

if test "$GCC" = yes; then
  lt_prog_compiler_no_builtin_flag_GCJ=' -fno-builtin'

echo "$as_me:$LINENO: checking if $compiler supports -fno-rtti -fno-
exceptions" >&5
echo $ECHO_N "checking if $compiler supports -fno-rtti -fno-exceptions...
$ECHO_C" >&6
if test "${lt_cv_prog_compiler_rtti_exceptions+set}" = set; then
  echo $ECHO_N "(cached) $ECHO_C" >&6
else
  lt_cv_prog_compiler_rtti_exceptions=no
  ac_outfile=confptest.$ac_objext
  printf "$lt_simple_compile_test_code" > confptest.$ac_ext
  lt_compiler_flag="-fno-rtti -fno-exceptions"
  # Insert the option either (1) after the last *FLAGS variable, or
  # (2) before a word containing "confptest.", or (3) at the end.
  # Note that $ac_compile itself does not contain backslashes and begins
  # with a dollar sign (not a hyphen), so the echo should work
correctly.
  # The option is referenced via a variable to avoid confusing sed.
  lt_compile=`echo "$ac_compile" | $SED \
-e 's:.*FLAGS}\{0,1\}:&$lt_compiler_flag ;; t' \
-e 's: [^ ]*confptest\.: $lt_compiler_flag&; t' \
-e 's:$: $lt_compiler_flag:'`
  (eval echo "\"$as_me:15719: $lt_compile\"" >&5)
  (eval "$lt_compile" 2>confptest.err)
  ac_status=$?
  cat confptest.err >&5
  echo "$as_me:15723: \ $? = $ac_status" >&5
  if (exit $ac_status) && test -s "$ac_outfile"; then
    # The compiler can only warn and ignore the option if not recognized
    # So say no if there are warnings other than the usual output.
    $echo "X$lt_compiler_boilerplate" | $Xsed -e '/^$/d' >confptest.exp
    $SED '/^$/d; /^ *+/d' confptest.err >confptest.er2
    if test ! -s confptest.er2 || diff confptest.exp confptest.er2
>/dev/null; then
      lt_cv_prog_compiler_rtti_exceptions=yes
    fi
  fi
  $rm confptest*

fi
echo "$as_me:$LINENO: result: $lt_cv_prog_compiler_rtti_exceptions" >&5
echo "${ECHO_T}$lt_cv_prog_compiler_rtti_exceptions" >&6

if test x"$lt_cv_prog_compiler_rtti_exceptions" = xyes; then

```

```

lt_prog_compiler_no_builtin_flag_GCJ="$lt_prog_compiler_no_builtin_flag_G
CJ -fno-rtti -fno-exceptions"
else
    :
fi

fi

lt_prog_compiler_wl_GCJ=
lt_prog_compiler_pic_GCJ=
lt_prog_compiler_static_GCJ=

echo "$as_me:$LINENO: checking for $compiler option to produce PIC" >&5
echo $ECHO_N "checking for $compiler option to produce PIC... $ECHO_C"
>&6

if test "$GCC" = yes; then
    lt_prog_compiler_wl_GCJ='-Wl,'
    lt_prog_compiler_static_GCJ='-static'

    case $host_os in
        aix*)
            # All AIX code is PIC.
            if test "$host_cpu" = ia64; then
                # AIX 5 now supports IA64 processor
                lt_prog_compiler_static_GCJ='-Bstatic'
            fi
            ;;

        amigaos*)
            # FIXME: we need at least 68020 code to build shared libraries, but
            # adding the '-m68020' flag to GCC prevents building anything
            better,
            # like '-m68040'.
            lt_prog_compiler_pic_GCJ='-m68020 -resident32 -malways-restore-a4'
            ;;

        beos* | cygwin* | irix5* | irix6* | nonstopux* | osf3* | osf4* |
        osf5*)
            # PIC is the default for these OSes.
            ;;

        mingw* | pw32* | os2*)
            # This hack is so that the source file can tell whether it is being
            # built for inclusion in a dll (and should export symbols for
            example).
            lt_prog_compiler_pic_GCJ='-DDLL_EXPORT'
            ;;

        darwin* | rhapsody*)
            # PIC is the default on this platform
            # Common symbols not allowed in MH_DYLIB files
            lt_prog_compiler_pic_GCJ='-fno-common'

```

```

;;

interix3*)
# Interix 3.x gcc -fpic/-fPIC options generate broken code.
# Instead, we relocate shared libraries at runtime.
;;

msdosdjgpp*)
# Just because we use GCC doesn't mean we suddenly get shared
libraries
# on systems that don't support them.
lt_prog_compiler_can_build_shared_GCJ=no
enable_shared=no
;;

sysv4*MP*)
if test -d /usr/nec; then
lt_prog_compiler_pic_GCJ=-Kconform_pic
fi
;;

hpux*)
# PIC is the default for IA64 HP-UX and 64-bit HP-UX, but
# not for PA HP-UX.
case $host_cpu in
hppa*64*|ia64*)
# +Z the default
;;
*)
lt_prog_compiler_pic_GCJ='-fPIC'
;;
esac
;;

*)
lt_prog_compiler_pic_GCJ='-fPIC'
;;
esac
else
# PORTME Check for flag to pass linker flags through the system
compiler.
case $host_os in
aix*)
lt_prog_compiler_wl_GCJ='-Wl, '
if test "$host_cpu" = ia64; then
# AIX 5 now supports IA64 processor
lt_prog_compiler_static_GCJ='-Bstatic'
else
lt_prog_compiler_static_GCJ='-bnso -bI:/lib/syscalls.exp'
fi
;;
darwin*)
# PIC is the default on this platform
# Common symbols not allowed in MH_DYLIB files

```

```

    case $cc_basename in
        xlc*)
            lt_prog_compiler_pic_GCJ='-qnocommon'
            lt_prog_compiler_wl_GCJ='-Wl,'
            ;;
        esac
    ;;

mingw* | pw32* | os2*)
    # This hack is so that the source file can tell whether it is being
    # built for inclusion in a dll (and should export symbols for
example).
    lt_prog_compiler_pic_GCJ='-DDLL_EXPORT'
    ;;

hpux9* | hpux10* | hpux11*)
    lt_prog_compiler_wl_GCJ='-Wl,'
    # PIC is the default for IA64 HP-UX and 64-bit HP-UX, but
    # not for PA HP-UX.
    case $host_cpu in
        hppa*64*|ia64*)
            # +Z the default
            ;;
        *)
            lt_prog_compiler_pic_GCJ='+Z'
            ;;
    esac
    # Is there a better lt_prog_compiler_static that works with the
bundled CC?
    lt_prog_compiler_static_GCJ='${wl}-a ${wl}archive'
    ;;

irix5* | irix6* | nonstopux*)
    lt_prog_compiler_wl_GCJ='-Wl,'
    # PIC (with -KPIC) is the default.
    lt_prog_compiler_static_GCJ='-non_shared'
    ;;

newsos6)
    lt_prog_compiler_pic_GCJ='-KPIC'
    lt_prog_compiler_static_GCJ='-Bstatic'
    ;;

linux*)
    case $cc_basename in
        icc* | ecc*)
            lt_prog_compiler_wl_GCJ='-Wl,'
            lt_prog_compiler_pic_GCJ='-KPIC'
            lt_prog_compiler_static_GCJ='-static'
            ;;
        pgcc* | pgf77* | pgf90* | pgf95*)
            # Portland Group compilers (*not* the Pentium gcc compiler,
            # which looks to be a dead project)
            lt_prog_compiler_wl_GCJ='-Wl,'

```

```

lt_prog_compiler_pic_GCJ='-fpic'
lt_prog_compiler_static_GCJ='-Bstatic'
;;
ccc*)
  lt_prog_compiler_wl_GCJ='-Wl,'
  # All Alpha code is PIC.
  lt_prog_compiler_static_GCJ='-non_shared'
  ;;
esac
;;

osf3* | osf4* | osf5*)
  lt_prog_compiler_wl_GCJ='-Wl,'
  # All OSF/1 code is PIC.
  lt_prog_compiler_static_GCJ='-non_shared'
  ;;

solaris*)
  lt_prog_compiler_pic_GCJ='-KPIC'
  lt_prog_compiler_static_GCJ='-Bstatic'
  case $cc_basename in
  f77* | f90* | f95*)
    lt_prog_compiler_wl_GCJ='-Qoption ld ';;
  *)
    lt_prog_compiler_wl_GCJ='-Wl, ';;
  esac
  ;;

sunos4*)
  lt_prog_compiler_wl_GCJ='-Qoption ld '
  lt_prog_compiler_pic_GCJ='-PIC'
  lt_prog_compiler_static_GCJ='-Bstatic'
  ;;

sysv4 | sysv4.2uw2* | sysv4.3*)
  lt_prog_compiler_wl_GCJ='-Wl,'
  lt_prog_compiler_pic_GCJ='-KPIC'
  lt_prog_compiler_static_GCJ='-Bstatic'
  ;;

sysv4*MP*)
  if test -d /usr/nec ;then
  lt_prog_compiler_pic_GCJ='-Kconform_pic'
  lt_prog_compiler_static_GCJ='-Bstatic'
  fi
  ;;

sysv5* | unixware* | sco3.2v5* | sco5v6* | OpenUNIX*)
  lt_prog_compiler_wl_GCJ='-Wl,'
  lt_prog_compiler_pic_GCJ='-KPIC'
  lt_prog_compiler_static_GCJ='-Bstatic'
  ;;

unicos*)

```



```

    lt_prog_compiler_wl_GCJ='-Wl,'
    lt_prog_compiler_can_build_shared_GCJ=no
    ;;

    uts4*)
        lt_prog_compiler_pic_GCJ='-pic'
        lt_prog_compiler_static_GCJ='-Bstatic'
        ;;

    *)
        lt_prog_compiler_can_build_shared_GCJ=no
        ;;
    esac
fi

echo "$as_me:$LINENO: result: $lt_prog_compiler_pic_GCJ" >&5
echo "${ECHO_T}$lt_prog_compiler_pic_GCJ" >&6

#
# Check to make sure the PIC flag actually works.
#
if test -n "$lt_prog_compiler_pic_GCJ"; then

echo "$as_me:$LINENO: checking if $compiler PIC flag
$lt_prog_compiler_pic_GCJ works" >&5
echo $ECHO_N "checking if $compiler PIC flag $lt_prog_compiler_pic_GCJ
works... $ECHO_C" >&6
if test "${lt_prog_compiler_pic_works_GCJ+set}" = set; then
    echo $ECHO_N "(cached) $ECHO_C" >&6
else
    lt_prog_compiler_pic_works_GCJ=no
    ac_outfile=conftest.$ac_objext
    printf "$lt_simple_compile_test_code" > conftest.$ac_ext
    lt_compiler_flag="$lt_prog_compiler_pic_GCJ"
    # Insert the option either (1) after the last *FLAGS variable, or
    # (2) before a word containing "conftest.", or (3) at the end.
    # Note that $ac_compile itself does not contain backslashes and begins
    # with a dollar sign (not a hyphen), so the echo should work
correctly.
    # The option is referenced via a variable to avoid confusing sed.
    lt_compile=`echo "$ac_compile" | $SED \
-e 's:.*FLAGS}\{0,1}\} :&$lt_compiler_flag ;; t' \
-e 's: [^ ]*conftest\.: $lt_compiler_flag&;; t' \
-e 's:$: $lt_compiler_flag:'`
    (eval echo "\"\`$as_me:15987: $lt_compile\`\"" >&5)
    (eval "$lt_compile" 2>conftest.err)
    ac_status=$?
    cat conftest.err >&5
    echo "$as_me:15991: \`${ac_status} = $ac_status" >&5
    if (exit $ac_status) && test -s "$ac_outfile"; then
        # The compiler can only warn and ignore the option if not recognized
        # So say no if there are warnings other than the usual output.
        $echo "X$lt_compiler_boilerplate" | $Xsed -e '/^$/d' >conftest.exp
        $SED '/^$/d; /^ *+/d' conftest.err >conftest.er2
    fi
fi

```

```

        if test ! -s conftest.er2 || diff conftest.exp conftest.er2
>/dev/null; then
            lt_prog_compiler_pic_works_GCJ=yes
        fi
    fi
    $rm conftest*

fi
echo "$as_me:$LINENO: result: $lt_prog_compiler_pic_works_GCJ" >&5
echo "${ECHO_T}$lt_prog_compiler_pic_works_GCJ" >&6

if test x"$lt_prog_compiler_pic_works_GCJ" = xyes; then
    case $lt_prog_compiler_pic_GCJ in
        "" | " ") ;;
        *) lt_prog_compiler_pic_GCJ="$lt_prog_compiler_pic_GCJ" ;;
    esac
else
    lt_prog_compiler_pic_GCJ=
    lt_prog_compiler_can_build_shared_GCJ=no
fi

fi
case $host_os in
    # For platforms which do not support PIC, -DPIC is meaningless:
    *djgpp*)
        lt_prog_compiler_pic_GCJ=
        ;;
    *)
        lt_prog_compiler_pic_GCJ="$lt_prog_compiler_pic_GCJ"
        ;;
esac

#
# Check to make sure the static flag actually works.
#
wl=$lt_prog_compiler_wl_GCJ eval
lt_tmp_static_flag="\$lt_prog_compiler_static_GCJ\"
echo "$as_me:$LINENO: checking if $compiler static flag
$lt_tmp_static_flag works" >&5
echo $ECHO_N "checking if $compiler static flag $lt_tmp_static_flag
works... $ECHO_C" >&6
if test "${lt_prog_compiler_static_works_GCJ+set}" = set; then
    echo $ECHO_N "(cached) $ECHO_C" >&6
else
    lt_prog_compiler_static_works_GCJ=no
    save_LDFLAGS="$LDFLAGS"
    LDFLAGS="$LDFLAGS $lt_tmp_static_flag"
    printf "$lt_simple_link_test_code" > conftest.$ac_ext
    if (eval $ac_link 2>conftest.err) && test -s conftest.$ac_exeext; then
        # The linker can only warn and ignore the option if not recognized
        # So say no if there are warnings
        if test -s conftest.err; then
            # Append any errors to the config.log.
            cat conftest.err 1>&5

```

```

    $echo "X$lt_linker_boilerplate" | $Xsed -e '/^$/d' > conftest.exp
    $SED '/^$/d; /^ *+/d' conftest.err >conftest.er2
    if diff conftest.exp conftest.er2 >/dev/null; then
        lt_prog_compiler_static_works_GCJ=yes
    fi
else
    lt_prog_compiler_static_works_GCJ=yes
fi
fi
$rm conftest*
LDFLAGS="$save_LDFLAGS"

fi
echo "$as_me:$LINENO: result: $lt_prog_compiler_static_works_GCJ" >&5
echo "${ECHO_T}$lt_prog_compiler_static_works_GCJ" >&6

if test x"$lt_prog_compiler_static_works_GCJ" = xyes; then
:
else
    lt_prog_compiler_static_GCJ=
fi

echo "$as_me:$LINENO: checking if $compiler supports -c -o
file.$ac_objext" >&5
echo $ECHO_N "checking if $compiler supports -c -o file.$ac_objext...
$ECHO_C" >&6
if test "${lt_cv_prog_compiler_c_o_GCJ+set}" = set; then
    echo $ECHO_N "(cached) $ECHO_C" >&6
else
    lt_cv_prog_compiler_c_o_GCJ=no
    $rm -r conftest 2>/dev/null
    mkdir conftest
    cd conftest
    mkdir out
    printf "$lt_simple_compile_test_code" > conftest.$ac_ext

    lt_compiler_flag="-o out/conftest2.$ac_objext"
    # Insert the option either (1) after the last *FLAGS variable, or
    # (2) before a word containing "conftest.", or (3) at the end.
    # Note that $ac_compile itself does not contain backslashes and begins
    # with a dollar sign (not a hyphen), so the echo should work
correctly.
    lt_compile=`echo "$ac_compile" | $SED \
-e 's:.*FLAGS}\{0,1\} :&$lt_compiler_flag :; t' \
-e 's: [^ ]*conftest\.: $lt_compiler_flag&;; t' \
-e 's:$: $lt_compiler_flag:'`
    (eval echo "\"$as_me:16091: $lt_compile\"" >&5)
    (eval "$lt_compile" 2>out/conftest.err)
    ac_status=$?
    cat out/conftest.err >&5
    echo "$as_me:16095: \ $? = $ac_status" >&5
    if (exit $ac_status) && test -s out/conftest2.$ac_objext
    then

```

```

        # The compiler can only warn and ignore the option if not recognized
        # So say no if there are warnings
        $echo "X$lt_compiler_boilerplate" | $Xsed -e '/^$/d' >
out/confptest.exp
        $SED '/^$/d; /^ *+/d' out/confptest.err >out/confptest.er2
        if test ! -s out/confptest.er2 || diff out/confptest.exp
out/confptest.er2 >/dev/null; then
            lt_cv_prog_compiler_c_o_GCJ=yes
        fi
    fi
    chmod u+w . 2>&5
    $rm confptest*
    # SGI C++ compiler will create directory out/ii_files/ for
    # template instantiation
    test -d out/ii_files && $rm out/ii_files/* && rmdir out/ii_files
    $rm out/* && rmdir out
    cd ..
    rmdir confptest
    $rm confptest*

fi
echo "$as_me:$LINENO: result: $lt_cv_prog_compiler_c_o_GCJ" >&5
echo "${ECHO_T}$lt_cv_prog_compiler_c_o_GCJ" >&6

hard_links="nottested"
if test "$lt_cv_prog_compiler_c_o_GCJ" = no && test "$need_locks" != no;
then
    # do not overwrite the value of need_locks provided by the user
    echo "$as_me:$LINENO: checking if we can lock with hard links" >&5
    echo $ECHO_N "checking if we can lock with hard links... $ECHO_C" >&6
    hard_links=yes
    $rm confptest*
    ln confptest.a confptest.b 2>/dev/null && hard_links=no
    touch confptest.a
    ln confptest.a confptest.b 2>&5 || hard_links=no
    ln confptest.a confptest.b 2>/dev/null && hard_links=no
    echo "$as_me:$LINENO: result: $hard_links" >&5
    echo "${ECHO_T}$hard_links" >&6
    if test "$hard_links" = no; then
        { echo "$as_me:$LINENO: WARNING: \`${CC}' does not support \`${C} -o', so
\`make -j' may be unsafe" >&5
        echo "$as_me: WARNING: \`${CC}' does not support \`${C} -o', so \`${C} -j'
may be unsafe" >&2;}
        need_locks=warn
    fi
else
    need_locks=no
fi

echo "$as_me:$LINENO: checking whether the $compiler linker ($LD)
supports shared libraries" >&5
echo $ECHO_N "checking whether the $compiler linker ($LD) supports shared
libraries... $ECHO_C" >&6

```

```

runpath_var=
allow_undefined_flag_GCJ=
enable_shared_with_static_runtimes_GCJ=no
archive_cmds_GCJ=
archive_expsym_cmds_GCJ=
old_archive_From_new_cmds_GCJ=
old_archive_from_expsyms_cmds_GCJ=
export_dynamic_flag_spec_GCJ=
whole_archive_flag_spec_GCJ=
thread_safe_flag_spec_GCJ=
hardcode_libdir_flag_spec_GCJ=
hardcode_libdir_flag_spec_ld_GCJ=
hardcode_libdir_separator_GCJ=
hardcode_direct_GCJ=no
hardcode_minus_L_GCJ=no
hardcode_shlibpath_var_GCJ=unsupported
link_all_deplibs_GCJ=unknown
hardcode_automatic_GCJ=no
module_cmds_GCJ=
module_expsym_cmds_GCJ=
always_export_symbols_GCJ=no
export_symbols_cmds_GCJ='$NM $libobjs $convenience |
$global_symbol_pipe | $SED '\''s/.* //'\' | sort | uniq >
$export_symbols'
# include_expsyms should be a list of space-separated symbols to be
*always*
# included in the symbol list
include_expsyms_GCJ=
# exclude_expsyms can be an extended regexp of symbols to exclude
# it will be wrapped by ` (' and `)$', so one must not match beginning
or
# end of line. Example: `a|bc|.d.*' will exclude the symbols `a' and
`bc',
# as well as any symbol that contains `d'.
exclude_expsyms_GCJ="_GLOBAL_OFFSET_TABLE_"
# Although _GLOBAL_OFFSET_TABLE_ is a valid symbol C name, most a.out
# platforms (ab)use it in PIC code, but their linkers get confused if
# the symbol is explicitly referenced. Since portable code cannot
# rely on this symbol name, it's probably fine to never include it in
# preloaded symbol tables.
extract_expsyms_cmds=
# Just being paranoid about ensuring that cc_basename is set.
for cc_temp in $compiler""; do
case $cc_temp in
  compile | *[\//]compile | ccache | *[\//]ccache ) ;;
  distcc | *[\//]distcc | purify | *[\//]purify ) ;;
  \-*) ;;
  *) break;;
esac
done
cc_basename=`$echo "X$cc_temp" | $Xsed -e 's%.*/%%' -e "s%^\$host_alias-
%%" `

```

```

case $host_os in
cygwin* | mingw* | pw32*)
    # FIXME: the MSVC++ port hasn't been tested in a loooong time
    # When not using gcc, we currently assume that we are using
    # Microsoft Visual C++.
    if test "$GCC" != yes; then
        with_gnu_ld=no
    fi
    ;;
interix*)
    # we just hope/assume this is gcc and not c89 (= MSVC++)
    with_gnu_ld=yes
    ;;
openbsd*)
    with_gnu_ld=no
    ;;
esac

ld_shlibs_GCJ=yes
if test "$with_gnu_ld" = yes; then
    # If archive_cmds runs LD, not CC, wlarc should be empty
    wlarc='${wl}'

    # Set some defaults for GNU ld with shared library support. These
    # are reset later if shared libraries are not supported. Putting them
    # here allows them to be overridden if necessary.
    runpath_var=LD_RUN_PATH
    hardcode_libdir_flag_spec_GCJ='${wl}--rpath ${wl}$libdir'
    export_dynamic_flag_spec_GCJ='${wl}--export-dynamic'
    # ancient GNU ld didn't support --whole-archive et. al.
    if $LD --help 2>&1 | grep 'no-whole-archive' > /dev/null; then
        whole_archive_flag_spec_GCJ="$wlarc"--whole-archive$convenience
        "$wlarc"--no-whole-archive'
    else
        whole_archive_flag_spec_GCJ=
    fi
    supports_anon_versioning=no
    case ` $LD -v 2>/dev/null ` in
        *\ [01].* | *\ 2.[0-9].* | *\ 2.10.*) ;; # catch versions < 2.11
        *\ 2.11.93.0.2\ *) supports_anon_versioning=yes ;; # RH7.3 ...
        *\ 2.11.92.0.12\ *) supports_anon_versioning=yes ;; # Mandrake 8.2
        ...
        *\ 2.11.*) ;; # other 2.11 versions
        *) supports_anon_versioning=yes ;;
    esac

    # See if GNU ld supports shared libraries.
    case $host_os in
aix3* | aix4* | aix5*)
        # On AIX/PPC, the GNU linker is very broken
        if test "$host_cpu" != ia64; then
            ld_shlibs_GCJ=no
            cat <<EOF 1>&2

```

```

*** Warning: the GNU linker, at least up to release 2.9.1, is reported
*** to be unable to reliably create shared libraries on AIX.
*** Therefore, libtool is disabling shared libraries support.  If you
*** really care for shared libraries, you may want to modify your PATH
*** so that a non-GNU linker is found, and then restart.

```

```
EOF
```

```

    fi
    ;;

    amigaos*)
        archive_cmds_GCJ='$rm $output_objdir/a2ixlibrary.data~$echo
"#define NAME $libname" > $output_objdir/a2ixlibrary.data~$echo "#define
LIBRARY_ID 1" >> $output_objdir/a2ixlibrary.data~$echo "#define VERSION
$major" >> $output_objdir/a2ixlibrary.data~$echo "#define REVISION
$revision" >> $output_objdir/a2ixlibrary.data~$AR $AR_FLAGS $lib
$libobjs~$RANLIB $lib~(cd $output_objdir && a2ixlibrary -32)'
        hardcode_libdir_flag_spec_GCJ='-L$libdir'
        hardcode_minus_L_GCJ=yes

        # Samuel A. Falvo II <kc5tja@dolphin.openprojects.net> reports
        # that the semantics of dynamic libraries on AmigaOS, at least up
        # to version 4, is to share data among multiple programs linked
        # with the same dynamic library.  Since this doesn't match the
        # behavior of shared libraries on other platforms, we can't use
        # them.
        ld_shlibs_GCJ=no
        ;;

    beos*)
        if $LD --help 2>&1 | grep ': supported targets:.* elf' > /dev/null;
then
        allow_undefined_flag_GCJ=unsupported
        # Joseph Beckenbach <jrb3@best.com> says some releases of gcc
        # support --undefined.  This deserves some investigation.  FIXME
        archive_cmds_GCJ='$CC -nostart $libobjs $deplibs $compiler_flags
${wl}-soname $wl$soname -o $lib'
        else
        ld_shlibs_GCJ=no
        fi
        ;;

    cygwin* | mingw* | pw32*)
        # _LT_AC_TAGVAR(hardcode_libdir_flag_spec, GCJ) is actually
meaningless,
        # as there is no search path for DLLs.
        hardcode_libdir_flag_spec_GCJ='-L$libdir'
        allow_undefined_flag_GCJ=unsupported
        always_export_symbols_GCJ=no
        enable_shared_with_static_runtimes_GCJ=yes
        export_symbols_cmds_GCJ='$NM $libobjs $convenience |
$global_symbol_pipe | $SED -e '\''/^([BCDGRS]) /s/.* \([^\ ]*\)/\1 DATA/'\''
| $SED -e '\''/^[AITW] /s/.* //'\'\' | sort | uniq > $export_symbols'

```

```

        if $LD --help 2>&1 | grep 'auto-import' > /dev/null; then
            archive_cmds_GCJ='$CC -shared $libobjs $deplibs $compiler_flags -
o $output_objdir/$soname ${wl}--enable-auto-image-base -Xlinker --out-
implib -Xlinker $lib'
            # If the export-symbols file already is a .def file (1st line
            # is EXPORTS), use it as is; otherwise, prepend...
            archive_expsym_cmds_GCJ='if test "x`$SED 1q $export_symbols`" =
xEXPORTS; then
                cp $export_symbols $output_objdir/$soname.def;
            else
                echo EXPORTS > $output_objdir/$soname.def;
                cat $export_symbols >> $output_objdir/$soname.def;
            fi~
            $CC -shared $output_objdir/$soname.def $libobjs $deplibs
$compiler_flags -o $output_objdir/$soname ${wl}--enable-auto-image-base -
Xlinker --out-implib -Xlinker $lib'
            else
                ld_shlibs_GCJ=no
            fi
        ;;

interix3*)
        hardcode_direct_GCJ=no
        hardcode_shlibpath_var_GCJ=no
        hardcode_libdir_flag_spec_GCJ='${wl}-rpath,$libdir'
        export_dynamic_flag_spec_GCJ='${wl}-E'
        # Hack: On Interix 3.x, we cannot compile PIC because of a broken
gcc.
        # Instead, shared libraries are loaded at an image base (0x10000000
by
        # default) and relocated if they conflict, which is a slow very
memory
        # consuming and fragmenting process. To avoid this, we pick a
random,
        # 256 KiB-aligned image base between 0x50000000 and 0x6FFC0000 at
link
        # time. Moving up from 0x10000000 also allows more sbrk(2) space.
        archive_cmds_GCJ='$CC -shared $pic_flag $libobjs $deplibs
$compiler_flags ${wl}-h,$soname ${wl}--image-base,`expr ${RANDOM-$$} %
4096 / 2 \* 262144 + 1342177280` -o $lib'
        archive_expsym_cmds_GCJ='sed "s,^,_,," $export_symbols
>$output_objdir/$soname.expsym~$CC -shared $pic_flag $libobjs $deplibs
$compiler_flags ${wl}-h,$soname ${wl}--retain-symbols-
file,$output_objdir/$soname.expsym ${wl}--image-base,`expr ${RANDOM-$$} %
4096 / 2 \* 262144 + 1342177280` -o $lib'
        ;;

linux*)
        if $LD --help 2>&1 | grep ': supported targets:.* elf' > /dev/null;
then
            tmp_addflag=
            case $cc_basename,$host_cpu in
                pgcc*)
                    # Portland Group C compiler

```



```

        whole_archive_flag_spec_GCJ='${wl}--whole-archive`for conv in
$convenience\`; do test -n \"\$conv\" &&
new_convenience=\"\$new_convenience,$conv\"; done; $echo
\"$new_convenience\` ` ${wl}--no-whole-archive'
        tmp_addflag=' $pic_flag'
        ;;
pgf77* | pgf90* | pgf95*)      # Portland Group f77 and f90 compilers
        whole_archive_flag_spec_GCJ='${wl}--whole-archive`for conv in
$convenience\`; do test -n \"\$conv\" &&
new_convenience=\"\$new_convenience,$conv\"; done; $echo
\"$new_convenience\` ` ${wl}--no-whole-archive'
        tmp_addflag=' $pic_flag -Mnomain' ;;
ecc*,ia64* | icc*,ia64*)      # Intel C compiler on ia64
        tmp_addflag=' -i_dynamic' ;;
efc*,ia64* | ifort*,ia64*)    # Intel Fortran compiler on ia64
        tmp_addflag=' -i_dynamic -nofor_main' ;;
ifc* | ifort*)                # Intel Fortran compiler
        tmp_addflag=' -nofor_main' ;;
esac
        archive_cmds_GCJ='$CC -shared'"$tmp_addflag"' $libobjs $deplibs
$compiler_flags ${wl}-soname $wl$soname -o $lib'

        if test $supports_anon_versioning = yes; then
                archive_expsym_cmds_GCJ='$echo "{ global:" >
$output_objdir/$libname.ver~
        cat $export_symbols | sed -e "s/(.*)/\\1;/" >>
$output_objdir/$libname.ver~
        $echo "local: *; };" >> $output_objdir/$libname.ver~
                $CC -shared'"$tmp_addflag"' $libobjs $deplibs $compiler_flags
${wl}-soname $wl$soname ${wl}-version-script
${wl}$output_objdir/$libname.ver -o $lib'
        fi
        else
        ld_shlibs_GCJ=no
        fi
        ;;

netbsd*)
        if echo __ELF__ | $CC -E - | grep __ELF__ >/dev/null; then
                archive_cmds_GCJ='$LD -Bshareable $libobjs $deplibs $linker_flags -
o $lib'
                wlarc=
        else
                archive_cmds_GCJ='$CC -shared $libobjs $deplibs $compiler_flags
${wl}-soname $wl$soname -o $lib'
                archive_expsym_cmds_GCJ='$CC -shared $libobjs $deplibs
$compiler_flags ${wl}-soname $wl$soname ${wl}-retain-symbols-file
$wl$export_symbols -o $lib'
        fi
        ;;

solaris*)
        if $LD -v 2>&1 | grep 'BFD 2\\.8' > /dev/null; then
                ld_shlibs_GCJ=no

```

```

cat <<EOF 1>&2

*** Warning: The releases 2.8.* of the GNU linker cannot reliably
*** create shared libraries on Solaris systems.  Therefore, libtool
*** is disabling shared libraries support.  We urge you to upgrade GNU
*** binutils to release 2.9.1 or newer.  Another option is to modify
*** your PATH or compiler configuration so that the native linker is
*** used, and then restart.

EOF
    elif $LD --help 2>&1 | grep ': supported targets:.* elf' >
/dev/null; then
    archive_cmds_GCJ='$CC -shared $libobjs $deplibs $compiler_flags
${wl}-soname $wl$soname -o $lib'
    archive_expsym_cmds_GCJ='$CC -shared $libobjs $deplibs
$compiler_flags ${wl}-soname $wl$soname ${wl}-retain-symbols-file
$wl$export_symbols -o $lib'
    else
    ld_shlibs_GCJ=no
    fi
    ;;

sysv5* | sco3.2v5* | sco5v6* | unixware* | OpenUNIX*)
    case ` $LD -v 2>&1 ` in
    *\ [01].* | *\ 2.[0-9].* | *\ 2.1[0-5].*)
    ld_shlibs_GCJ=no
    cat <<_LT_EOF 1>&2

*** Warning: Releases of the GNU linker prior to 2.16.91.0.3 can not
*** reliably create shared libraries on SCO systems.  Therefore, libtool
*** is disabling shared libraries support.  We urge you to upgrade GNU
*** binutils to release 2.16.91.0.3 or newer.  Another option is to
modify
*** your PATH or compiler configuration so that the native linker is
*** used, and then restart.

_LT_EOF
    ;;
    *)
    if $LD --help 2>&1 | grep ': supported targets:.* elf' >
/dev/null; then
        hardcode_libdir_flag_spec_GCJ=`test -z "$SCOABSPATH" && echo
${wl}-rpath,$libdir`
        archive_cmds_GCJ='$CC -shared $libobjs $deplibs $compiler_flags
${wl}-soname,\${SCOABSPATH:+${install_libdir}/}$soname -o $lib'
        archive_expsym_cmds_GCJ='$CC -shared $libobjs $deplibs
$compiler_flags ${wl}-soname,\${SCOABSPATH:+${install_libdir}/}$soname,-
retain-symbols-file,$export_symbols -o $lib'
        else
        ld_shlibs_GCJ=no
        fi
    ;;
    esac
    ;;

```

```

sunos4*)
    archive_cmds_GCJ='$LD -assert pure-text -Bshareable -o $lib
$libobjs $deplibs $linker_flags'
    wlarc=
    hardcode_direct_GCJ=yes
    hardcode_shlibpath_var_GCJ=no
    ;;

*)
    if $LD --help 2>&1 | grep ': supported targets:.* elf' > /dev/null;
then
    archive_cmds_GCJ='$CC -shared $libobjs $deplibs $compiler_flags
${wl}-soname $wl$soname -o $lib'
    archive_expsym_cmds_GCJ='$CC -shared $libobjs $deplibs
$compiler_flags ${wl}-soname $wl$soname ${wl}-retain-symbols-file
$wl$export_symbols -o $lib'
    else
    ld_shlibs_GCJ=no
    fi
    ;;
esac

if test "$ld_shlibs_GCJ" = no; then
    runpath_var=
    hardcode_libdir_flag_spec_GCJ=
    export_dynamic_flag_spec_GCJ=
    whole_archive_flag_spec_GCJ=
fi
else
    # PORTME fill in a description of your system's linker (not GNU ld)
    case $host_os in
aix3*)
        allow_undefined_flag_GCJ=unsupported
        always_export_symbols_GCJ=yes
        archive_expsym_cmds_GCJ='$LD -o $output_objdir/$soname $libobjs
$deplibs $linker_flags -bE:$export_symbols -T512 -H512 -bM:SRE~$AR
$AR_FLAGS $lib $output_objdir/$soname'
        # Note: this linker hardcodes the directories in LIBPATH if there
        # are no directories specified by -L.
        hardcode_minus_L_GCJ=yes
        if test "$GCC" = yes && test -z "$lt_prog_compiler_static"; then
            # Neither direct hardcoding nor static linking is supported with a
            # broken collect2.
            hardcode_direct_GCJ=unsupported
        fi
        ;;
aix4* | aix5*)
        if test "$host_cpu" = ia64; then
            # On IA64, the linker does run time linking by default, so we don't
            # have to do anything special.
            aix_use_runtimelinking=no
            exp_sym_flag='-Bexport'
        fi
    esac

```

```

no_entry_flag=""
else
# If we're using GNU nm, then we don't want the "-C" option.
# -C means demangle to AIX nm, but means don't demangle with GNU nm
if $NM -V 2>&1 | grep 'GNU' > /dev/null; then
    export_symbols_cmds_GCJ='$NM -Bpg $libobjs $convenience | awk
'\''{ if (((\2 == "T") || (\2 == "D") || (\2 == "B")) &&
(substr(\3,1,1) != ".")) { print \3 } }'\'' | sort -u >
$export_symbols'
else
    export_symbols_cmds_GCJ='$NM -BCpg $libobjs $convenience | awk
'\''{ if (((\2 == "T") || (\2 == "D") || (\2 == "B")) &&
(substr(\3,1,1) != ".")) { print \3 } }'\'' | sort -u >
$export_symbols'
fi
aix_use_runtimelinking=no

# Test if we are trying to use run time linking or normal
# AIX style linking. If -brtl is somewhere in LDFLAGS, we
# need to do runtime linking.
case $host_os in aix4.[23]|aix4.[23].*|aix5*)
    for ld_flag in $LDFLAGS; do
        if (test $ld_flag = "-brtl" || test $ld_flag = "-Wl,-brtl"); then
            aix_use_runtimelinking=yes
            break
        fi
    done
    ;;
esac

exp_sym_flag='-bexport'
no_entry_flag='-bnoentry'
fi

# When large executables or shared objects are built, AIX ld can
# have problems creating the table of contents.  If linking a
library
# or program results in "error TOC overflow" add -mminimal-toc to
# CXXFLAGS/CFLAGS for g++/gcc.  In the cases where that is not
# enough to fix the problem, add -Wl,-bbigtoc to LDFLAGS.

archive_cmds_GCJ=''
hardcode_direct_GCJ=yes
hardcode_libdir_separator_GCJ=':'
link_all_deplibs_GCJ=yes

if test "$GCC" = yes; then
case $host_os in aix4.[012]|aix4.[012].*)
# We only want to do this on AIX 4.2 and lower, the check
# below for broken collect2 doesn't work under 4.3+
collect2name=`${CC} -print-prog-name=collect2`
if test -f "$collect2name" && \
strings "$collect2name" | grep resolve_lib_name >/dev/null
then

```

```

# We have reworked collect2
hardcode_direct_GCJ=yes
else
# We have old collect2
hardcode_direct_GCJ=unsupported
# It fails to find uninstalled libraries when the uninstalled
# path is not listed in the libpath. Setting hardcode_minus_L
# to unsupported forces relinking
hardcode_minus_L_GCJ=yes
hardcode_libdir_flag_spec_GCJ='-L$libdir'
hardcode_libdir_separator_GCJ=
fi
;;
esac
shared_flag='-shared'
if test "$aix_use_runtimelinking" = yes; then
  shared_flag="$shared_flag "'${wl}-G'
fi
else
# not using gcc
if test "$host_cpu" = ia64; then
# VisualAge C++, Version 5.5 for AIX 5L for IA-64, Beta 3 Release
# chokes on -Wl,-G. The following line is correct:
  shared_flag='-G'
else
  if test "$aix_use_runtimelinking" = yes; then
    shared_flag='${wl}-G'
  else
    shared_flag='${wl}-bM:SRE'
  fi
fi
fi

# It seems that -bexpall does not export symbols beginning with
# underscore (_), so it is better to generate a list of symbols to
export.
always_export_symbols_GCJ=yes
if test "$aix_use_runtimelinking" = yes; then
# Warning - without using the other runtime loading flags (-brtl),
# -berok will link without error, but may produce a broken library.
allow_undefined_flag_GCJ='-berok'
# Determine the default libpath from the value encoded in an empty
executable.
  cat >confptest.$ac_ext <<_ACEOF
/* confdefs.h. */
_ACEOF
cat confdefs.h >>confptest.$ac_ext
cat >>confptest.$ac_ext <<_ACEOF
/* end confdefs.h. */

int
main ()
{

```

```

;
return 0;
}
_ACEOF
rm -f confptest.$ac_objext confptest$ac_exeext
if { (eval echo "$as_me:$LINENO: \"$ac_link\"" ) >&5
      (eval $ac_link) 2>confptest.erl
      ac_status=$?
      grep -v '^ *+' confptest.erl >confptest.err
      rm -f confptest.erl
      cat confptest.err >&5
      echo "$as_me:$LINENO: \ $? = $ac_status" >&5
      (exit $ac_status); } &&
    { ac_try='test -z "$ac_c_werror_flag"
              || test ! -s confptest.err'
      { (eval echo "$as_me:$LINENO: \"$ac_try\"" ) >&5
        (eval $ac_try) 2>&5
        ac_status=$?
        echo "$as_me:$LINENO: \ $? = $ac_status" >&5
        (exit $ac_status); }; } &&
    { ac_try='test -s confptest$ac_exeext'
      { (eval echo "$as_me:$LINENO: \"$ac_try\"" ) >&5
        (eval $ac_try) 2>&5
        ac_status=$?
        echo "$as_me:$LINENO: \ $? = $ac_status" >&5
        (exit $ac_status); }; }; then

aix_libpath=`dump -H confptest$ac_exeext 2>/dev/null | $SED -n -e '/Import
File Strings/,/^$/ { /^0/ { s/^0  *\(.*\)$/\1/; p; }
}'`
# Check for a 64-bit object if we didn't find anything.
if test -z "$aix_libpath"; then aix_libpath=`dump -HX64
confptest$ac_exeext 2>/dev/null | $SED -n -e '/Import File Strings/,/^$/ {
/^0/ { s/^0  *\(.*\)$/\1/; p; }
}'`; fi
else
  echo "$as_me: failed program was:" >&5
  sed 's/^/| /' confptest.$ac_ext >&5

fi
rm -f confptest.err confptest.$ac_objext \
      confptest$ac_exeext confptest.$ac_ext
if test -z "$aix_libpath"; then aix_libpath="/usr/lib:/lib"; fi

  hardcode_libdir_flag_spec_GCJ='${wl}-
blibpath:$libdir:"$aix_libpath"
  archive_expsym_cmds_GCJ="\$CC" -o $output_objdir/$soname $libobjs
$deplibs "'\${wl}$no_entry_flag"' $compiler_flags `if test
"x${allow_undefined_flag}" != "x"; then echo
"${wl}${allow_undefined_flag}"; else ;; fi`
'\${wl}$exp_sym_flag:\$export_symbols $shared_flag"
  else
    if test "$host_cpu" = ia64; then
      hardcode_libdir_flag_spec_GCJ='${wl}-R $libdir:/usr/lib:/lib'

```

```

        allow_undefined_flag_GCJ="-z nodefs"
        archive_expsym_cmds_GCJ="\$CC \$shared_flag" -o
$output_objdir/$soname $libobjs $deplibs '"\${wl}$no_entry_flag"'
$compiler_flags ${wl}${allow_undefined_flag}
'"\${wl}$exp_sym_flag:\$export_symbols"
    else
        # Determine the default libpath from the value encoded in an empty
executable.
        cat >conftest.$ac_ext <<_ACEOF
/* confdefs.h. */
_ACEOF
cat confdefs.h >>conftest.$ac_ext
cat >>conftest.$ac_ext <<_ACEOF
/* end confdefs.h. */

int
main ()
{

    ;
    return 0;
}
_ACEOF
rm -f conftest.$ac_objext conftest$ac_exeext
if { (eval echo "$as_me:$LINENO: \"\$ac_link\"" ) >&5
      (eval $ac_link) 2>conftest.er1
      ac_status=$?
      grep -v '^ *+' conftest.er1 >conftest.err
      rm -f conftest.er1
      cat conftest.err >&5
      echo "$as_me:$LINENO: \$? = $ac_status" >&5
      (exit $ac_status); } &&
    { ac_try='test -z "$ac_c_werror_flag"
              || test ! -s conftest.err'
      { (eval echo "$as_me:$LINENO: \"\$ac_try\"" ) >&5
        (eval $ac_try) 2>&5
        ac_status=$?
        echo "$as_me:$LINENO: \$? = $ac_status" >&5
        (exit $ac_status); }; } &&
    { ac_try='test -s conftest$ac_exeext'
      { (eval echo "$as_me:$LINENO: \"\$ac_try\"" ) >&5
        (eval $ac_try) 2>&5
        ac_status=$?
        echo "$as_me:$LINENO: \$? = $ac_status" >&5
        (exit $ac_status); }; }; then
aix_libpath=`dump -H conftest$ac_exeext 2>/dev/null | $SED -n -e '/Import
File Strings/,/^$/ { /^0/ { s/^0 *\(.*\)$/\1/; p; }
}'`
# Check for a 64-bit object if we didn't find anything.
if test -z "$aix_libpath"; then aix_libpath=`dump -HX64
conftest$ac_exeext 2>/dev/null | $SED -n -e '/Import File Strings/,/^$/ {
/^0/ { s/^0 *\(.*\)$/\1/; p; }
}'`; fi

```

```

else
    echo "$as_me: failed program was:" >&5
    sed 's/^/| /' conftest.$ac_ext >&5

fi
rm -f conftest.err conftest.$ac_objext \
    conftest$ac_exeext conftest.$ac_ext
if test -z "$aix_libpath"; then aix_libpath="/usr/lib:/lib"; fi

    hardcode_libdir_flag_spec_GCJ='${wl}-
bldirpath:$libdir:"$aix_libpath"
    # Warning - without using the other run time loading flags,
    # -berok will link without error, but may produce a broken
library.
    no_undefined_flag_GCJ=' ${wl}-bernotok'
    allow_undefined_flag_GCJ=' ${wl}-berok'
    # Exported symbols can be pulled into shared objects from
archives
    whole_archive_flag_spec_GCJ='$convenience'
    archive_cmds_need_lc_GCJ=yes
    # This is similar to how AIX traditionally builds its shared
libraries.
    archive_expsym_cmds_GCJ="\$CC $shared_flag" -o
$output_objdir/$soname $libobjs $deplibs ${wl}-bnoentry $compiler_flags
${wl}-bE:$export_symbols${allow_undefined_flag}~$AR $AR_FLAGS
$output_objdir/$libname$release.a $output_objdir/$soname'
    fi
    fi
    ;;

    amigaos*)
        archive_cmds_GCJ='$rm $output_objdir/a2ixlibrary.data~$echo
"#define NAME $libname" > $output_objdir/a2ixlibrary.data~$echo "#define
LIBRARY_ID 1" >> $output_objdir/a2ixlibrary.data~$echo "#define VERSION
$major" >> $output_objdir/a2ixlibrary.data~$echo "#define REVISION
$revision" >> $output_objdir/a2ixlibrary.data~$AR $AR_FLAGS $lib
$libobjs~$RANLIB $lib~(cd $output_objdir && a2ixlibrary -32)'
        hardcode_libdir_flag_spec_GCJ='-L$libdir'
        hardcode_minus_L_GCJ=yes
        # see comment about different semantics on the GNU ld section
        ld_shlibs_GCJ=no
        ;;

    bsd[45]*)
        export_dynamic_flag_spec_GCJ=-rdynamic
        ;;

    cygwin* | mingw* | pw32*)
        # When not using gcc, we currently assume that we are using
        # Microsoft Visual C++.
        # hardcode_libdir_flag_spec is actually meaningless, as there is
        # no search path for DLLs.
        hardcode_libdir_flag_spec_GCJ=' '
        allow_undefined_flag_GCJ=unsupported

```



```

# Tell ltmain to make .lib files, not .a files.
libext=lib
# Tell ltmain to make .dll files, not .so files.
shrext_cmds=".dll"
# FIXME: Setting linknames here is a bad hack.
archive_cmds_GCJ='$CC -o $lib $libobjs $compiler_flags `echo
"$deplibs" | $SED -e '\`s/ -lc$//\`' -link -dll~linknames='
# The linker will automatically build a .lib file if we build a
DLL.
old_archive_From_new_cmds_GCJ='true'
# FIXME: Should let the user specify the lib program.
old_archive_cmds_GCJ='lib /OUT:$oldlib$oldobjs$old_deplibs'
fix_srcfile_path_GCJ='`cygpath -w "$srcfile"`'
enable_shared_with_static_runtimes_GCJ=yes
;;

darwin* | rhapsody*)
case $host_os in
  rhapsody* | darwin1.[012])
    allow_undefined_flag_GCJ='${wl}-undefined ${wl}suppress'
    ;;
  *) # Darwin 1.3 on
    if test -z ${MACOSX_DEPLOYMENT_TARGET} ; then
      allow_undefined_flag_GCJ='${wl}-flat_namespace ${wl}-undefined
${wl}suppress'
    else
      case ${MACOSX_DEPLOYMENT_TARGET} in
        10.[012])
          allow_undefined_flag_GCJ='${wl}-flat_namespace ${wl}-
undefined ${wl}suppress'
          ;;
        10.*)
          allow_undefined_flag_GCJ='${wl}-undefined
${wl}dynamic_lookup'
          ;;
      esac
    fi
    ;;
esac
archive_cmds_need_lc_GCJ=no
hardcode_direct_GCJ=no
hardcode_automatic_GCJ=yes
hardcode_shlibpath_var_GCJ=unsupported
whole_archive_flag_spec_GCJ=''
link_all_deplibs_GCJ=yes
if test "$GCC" = yes ; then
  output_verbose_link_cmd='echo'
  archive_cmds_GCJ='$CC -dynamiclib $allow_undefined_flag -o $lib
$libobjs $deplibs $compiler_flags -install_name $rpath/$soname
$verstring'
  module_cmds_GCJ='$CC $allow_undefined_flag -o $lib -bundle $libobjs
$deplibs$compiler_flags'
  # Don't fix this by using the ld -exported_symbols_list flag, it
  doesn't exist in older darwin lds

```

```

        archive_expsym_cmds_GCJ='sed -e "s,#.*,,," -e "s,^[      ]*,," -e
"s,^\(..*\),_&," < $export_symbols > $output_objdir/${libname}-
symbols.expsym~$CC -dynamiclib $allow_undefined_flag -o $lib $libobjs
$deplibs $compiler_flags -install_name $rpath/$soname $verstring~nmedit -
s $output_objdir/${libname}-symbols.expsym ${lib}'
        module_expsym_cmds_GCJ='sed -e "s,#.*,,," -e "s,^[      ]*,," -e
"s,^\(..*\),_&," < $export_symbols > $output_objdir/${libname}-
symbols.expsym~$CC $allow_undefined_flag -o $lib -bundle $libobjs
$deplibs$compiler_flags~nmedit -s $output_objdir/${libname}-
symbols.expsym ${lib}'
        else
                case $cc_basename in
                        xlc*)
                                output_verbose_link_cmd='echo'
                                archive_cmds_GCJ='$CC -qmkshrobj $allow_undefined_flag -o $lib
$libobjs $deplibs $compiler_flags ${wl}-install_name ${wl}`echo
$rpath/$soname` $verstring'
                                module_cmds_GCJ='$CC $allow_undefined_flag -o $lib -bundle
$libobjs $deplibs$compiler_flags'
                                # Don't fix this by using the ld -exported_symbols_list flag,
                                it doesn't exist in older darwin lds
                                archive_expsym_cmds_GCJ='sed -e "s,#.*,,," -e "s,^[      ]*,," -e
"s,^\(..*\),_&," < $export_symbols > $output_objdir/${libname}-
symbols.expsym~$CC -qmkshrobj $allow_undefined_flag -o $lib $libobjs
$deplibs $compiler_flags ${wl}-install_name ${wl}`echo
$rpath/$soname
$verstring~nmedit -s $output_objdir/${libname}-symbols.expsym ${lib}'
                                module_expsym_cmds_GCJ='sed -e "s,#.*,,," -e "s,^[      ]*,," -e
"s,^\(..*\),_&," < $export_symbols > $output_objdir/${libname}-
symbols.expsym~$CC $allow_undefined_flag -o $lib -bundle $libobjs
$deplibs$compiler_flags~nmedit -s $output_objdir/${libname}-
symbols.expsym ${lib}'
                                        ;;
                        *)
                                ld_shlibs_GCJ=no
                                        ;;
                esac
        fi
        ;;

        dgux*)
                archive_cmds_GCJ='$LD -G -h $soname -o $lib $libobjs $deplibs
$linker_flags'
                hardcode_libdir_flag_spec_GCJ='-L$libdir'
                hardcode_shlibpath_var_GCJ=no
                        ;;

        freebsd1*)
                ld_shlibs_GCJ=no
                        ;;

        # FreeBSD 2.2.[012] allows us to include c++rt0.o to get C++
        constructor
        # support.  Future versions do this automatically, but an explicit
        c++rt0.o

```

```

    # does not break anything, and helps significantly (at the cost of a
little
    # extra space).
    freebsd2.2*)
        archive_cmds_GCJ='$LD -Bshareable -o $lib $libobjs $deplibs
$linker_flags /usr/lib/c++rt0.o'
        hardcode_libdir_flag_spec_GCJ='-R$libdir'
        hardcode_direct_GCJ=yes
        hardcode_shlibpath_var_GCJ=no
        ;;

    # Unfortunately, older versions of FreeBSD 2 do not have this
feature.
    freebsd2*)
        archive_cmds_GCJ='$LD -Bshareable -o $lib $libobjs $deplibs
$linker_flags'
        hardcode_direct_GCJ=yes
        hardcode_minus_L_GCJ=yes
        hardcode_shlibpath_var_GCJ=no
        ;;

    # FreeBSD 3 and greater uses gcc -shared to do shared libraries.
    freebsd* | kfreebsd*-gnu | dragonfly*)
        archive_cmds_GCJ='$CC -shared -o $lib $libobjs $deplibs
$compiler_flags'
        hardcode_libdir_flag_spec_GCJ='-R$libdir'
        hardcode_direct_GCJ=yes
        hardcode_shlibpath_var_GCJ=no
        ;;

    hpux9*)
        if test "$GCC" = yes; then
            archive_cmds_GCJ='$rm $output_objdir/$soname~$CC -shared -fPIC
${wl}+b ${wl}$install_libdir -o $output_objdir/$soname $libobjs $deplibs
$compiler_flags~test $output_objdir/$soname = $lib || mv
$output_objdir/$soname $lib'
        else
            archive_cmds_GCJ='$rm $output_objdir/$soname~$LD -b +b
$install_libdir -o $output_objdir/$soname $libobjs $deplibs
$linker_flags~test $output_objdir/$soname = $lib || mv
$output_objdir/$soname $lib'
        fi
        hardcode_libdir_flag_spec_GCJ='${wl}+b ${wl}$libdir'
        hardcode_libdir_separator_GCJ=:
        hardcode_direct_GCJ=yes

        # hardcode_minus_L: Not really in the search PATH,
        # but as the default location of the library.
        hardcode_minus_L_GCJ=yes
        export_dynamic_flag_spec_GCJ='${wl}-E'
        ;;

    hpux10*)
        if test "$GCC" = yes -a "$with_gnu_ld" = no; then

```

```

        archive_cmds_GCJ='$CC -shared -fPIC ${wl}+h ${wl}$soname ${wl}+b
${wl}$install_libdir -o $lib $libobjs $deplibs $compiler_flags'
        else
        archive_cmds_GCJ='$LD -b +h $soname +b $install_libdir -o $lib
$libobjs $deplibs $linker_flags'
        fi
        if test "$with_gnu_ld" = no; then
        hardcode_libdir_flag_spec_GCJ='${wl}+b ${wl}$libdir'
        hardcode_libdir_separator_GCJ=:

        hardcode_direct_GCJ=yes
        export_dynamic_flag_spec_GCJ='${wl}-E'

        # hardcode_minus_L: Not really in the search PATH,
        # but as the default location of the library.
        hardcode_minus_L_GCJ=yes
        fi
        ;;

hpux11*)
        if test "$GCC" = yes -a "$with_gnu_ld" = no; then
        case $host_cpu in
        hppa*64*)
                archive_cmds_GCJ='$CC -shared ${wl}+h ${wl}$soname -o $lib
$libobjs $deplibs $compiler_flags'
                ;;
        ia64*)
                archive_cmds_GCJ='$CC -shared ${wl}+h ${wl}$soname
${wl}+nodefaulttrpath -o $lib $libobjs $deplibs $compiler_flags'
                ;;
        *)
                archive_cmds_GCJ='$CC -shared -fPIC ${wl}+h ${wl}$soname ${wl}+b
${wl}$install_libdir -o $lib $libobjs $deplibs $compiler_flags'
                ;;
        esac
        else
        case $host_cpu in
        hppa*64*)
                archive_cmds_GCJ='$CC -b ${wl}+h ${wl}$soname -o $lib $libobjs
$deplibs $compiler_flags'
                ;;
        ia64*)
                archive_cmds_GCJ='$CC -b ${wl}+h ${wl}$soname
${wl}+nodefaulttrpath -o $lib $libobjs $deplibs $compiler_flags'
                ;;
        *)
                archive_cmds_GCJ='$CC -b ${wl}+h ${wl}$soname ${wl}+b
${wl}$install_libdir -o $lib $libobjs $deplibs $compiler_flags'
                ;;
        esac
        fi
        if test "$with_gnu_ld" = no; then
        hardcode_libdir_flag_spec_GCJ='${wl}+b ${wl}$libdir'
        hardcode_libdir_separator_GCJ=:

```

```

case $host_cpu in
hppa*64*|ia64*)
    hardcode_libdir_flag_spec_ld_GCJ='+b $libdir'
    hardcode_direct_GCJ=no
    hardcode_shlibpath_var_GCJ=no
    ;;
*)
    hardcode_direct_GCJ=yes
    export_dynamic_flag_spec_GCJ='${wl}-E'

    # hardcode_minus_L: Not really in the search PATH,
    # but as the default location of the library.
    hardcode_minus_L_GCJ=yes
    ;;
esac
fi
;;

irix5* | irix6* | nonstopux*)
    if test "$GCC" = yes; then
        archive_cmds_GCJ='$CC -shared $libobjs $deplibs $compiler_flags
${wl}-soname ${wl}$soname `test -n "$verstring" && echo ${wl}-set_version
${wl}$verstring` ${wl}-update_registry ${wl}${output_objdir}/so_locations
-o $lib'
    else
        archive_cmds_GCJ='$LD -shared $libobjs $deplibs $linker_flags -
soname $soname `test -n "$verstring" && echo -set_version $verstring` -
update_registry ${output_objdir}/so_locations -o $lib'
        hardcode_libdir_flag_spec_ld_GCJ='-rpath $libdir'
        fi
        hardcode_libdir_flag_spec_GCJ='${wl}-rpath ${wl}$libdir'
        hardcode_libdir_separator_GCJ=:
        link_all_deplibs_GCJ=yes
        ;;

netbsd*)
    if echo __ELF__ | $CC -E - | grep __ELF__ >/dev/null; then
        archive_cmds_GCJ='$LD -Bshareable -o $lib $libobjs $deplibs
$linker_flags' # a.out
    else
        archive_cmds_GCJ='$LD -shared -o $lib $libobjs $deplibs
$linker_flags' # ELF
    fi
    hardcode_libdir_flag_spec_GCJ='-R$libdir'
    hardcode_direct_GCJ=yes
    hardcode_shlibpath_var_GCJ=no
    ;;

newsos6)
    archive_cmds_GCJ='$LD -G -h $soname -o $lib $libobjs $deplibs
$linker_flags'
    hardcode_direct_GCJ=yes
    hardcode_libdir_flag_spec_GCJ='${wl}-rpath ${wl}$libdir'

```

```

hardcode_libdir_separator_GCJ=:
hardcode_shlibpath_var_GCJ=no
;;

openbsd*)
hardcode_direct_GCJ=yes
hardcode_shlibpath_var_GCJ=no
if test -z "`echo __ELF__ | $CC -E - | grep __ELF__`" || test
"$host_os-$host_cpu" = "openbsd2.8-powerpc"; then
archive_cmds_GCJ='$CC -shared $pic_flag -o $lib $libobjs $deplibs
$compiler_flags'
archive_expsym_cmds_GCJ='$CC -shared $pic_flag -o $lib $libobjs
$deplibs $compiler_flags ${wl}-retain-symbols-file,$export_symbols'
hardcode_libdir_flag_spec_GCJ='${wl}-rpath,$libdir'
export_dynamic_flag_spec_GCJ='${wl}-E'
else
case $host_os in
openbsd[01].* | openbsd2.[0-7] | openbsd2.[0-7].*)
archive_cmds_GCJ='$LD -Bshareable -o $lib $libobjs $deplibs
$linker_flags'
hardcode_libdir_flag_spec_GCJ='-R$libdir'
;;
*)
archive_cmds_GCJ='$CC -shared $pic_flag -o $lib $libobjs
$deplibs $compiler_flags'
hardcode_libdir_flag_spec_GCJ='${wl}-rpath,$libdir'
;;
esac
fi
;;

os2*)
hardcode_libdir_flag_spec_GCJ='-L$libdir'
hardcode_minus_L_GCJ=yes
allow_undefined_flag_GCJ=unsupported
archive_cmds_GCJ='$echo "LIBRARY $libname INITINSTANCE" >
$output_objdir/$libname.def~$echo "DESCRIPTION \"$libname\"" >>
$output_objdir/$libname.def~$echo DATA >>
$output_objdir/$libname.def~$echo " SINGLE NONSHARED" >>
$output_objdir/$libname.def~$echo EXPORTS >>
$output_objdir/$libname.def~emxexp $libobjs >>
$output_objdir/$libname.def~$CC -Zdll -Zcrtdll -o $lib $libobjs $deplibs
$compiler_flags $output_objdir/$libname.def'
old_archive_From_new_cmds_GCJ='emximp -o $output_objdir/$libname.a
$output_objdir/$libname.def'
;;

osf3*)
if test "$GCC" = yes; then
allow_undefined_flag_GCJ=' ${wl}-expect_unresolved ${wl}\*'
archive_cmds_GCJ='$CC -shared${allow_undefined_flag} $libobjs
$deplibs $compiler_flags ${wl}-soname ${wl}$soname `test -n "$verstring"
&& echo ${wl}-set_version ${wl}$verstring` ${wl}-update_registry
${wl}${output_objdir}/so_locations -o $lib'

```

```

else
    allow_undefined_flag_GCJ=' -expect_unresolved \*'
    archive_cmds_GCJ='$LD -shared${allow_undefined_flag} $libobjs
$deplibs $linker_flags -soname $soname `test -n "$verstring" && echo -
set_version $verstring` -update_registry ${output_objdir}/so_locations -o
$lib'
fi
hardcode_libdir_flag_spec_GCJ='${wl}-rpath ${wl}$libdir'
hardcode_libdir_separator_GCJ=;
;;

osf4* | osf5*)      # as osf3* with the addition of -msym flag
if test "$GCC" = yes; then
    allow_undefined_flag_GCJ=' ${wl}-expect_unresolved ${wl}\*'
    archive_cmds_GCJ='$CC -shared${allow_undefined_flag} $libobjs
$deplibs $compiler_flags ${wl}-msym ${wl}-soname ${wl}$soname `test -n
"$verstring" && echo ${wl}-set_version ${wl}$verstring` ${wl}-
update_registry ${wl}${output_objdir}/so_locations -o $lib'
    hardcode_libdir_flag_spec_GCJ='${wl}-rpath ${wl}$libdir'
else
    allow_undefined_flag_GCJ=' -expect_unresolved \*'
    archive_cmds_GCJ='$LD -shared${allow_undefined_flag} $libobjs
$deplibs $linker_flags -msym -soname $soname `test -n "$verstring" &&
echo -set_version $verstring` -update_registry
${output_objdir}/so_locations -o $lib'
    archive_expsym_cmds_GCJ='for i in `cat $export_symbols`; do printf
"%s %s\n" -exported_symbol "\$i" >> $lib.exp; done; echo "-hidden">>
$lib.exp~
    $LD -shared${allow_undefined_flag} -input $lib.exp $linker_flags
$libobjs $deplibs -soname $soname `test -n "$verstring" && echo -
set_version $verstring` -update_registry ${output_objdir}/so_locations -o
$lib~$rm $lib.exp'

    # Both c and cxx compiler support -rpath directly
    hardcode_libdir_flag_spec_GCJ='-rpath $libdir'
fi
hardcode_libdir_separator_GCJ=;
;;

solaris*)
    no_undefined_flag_GCJ=' -z text'
    if test "$GCC" = yes; then
        wlarc='${wl}'
        archive_cmds_GCJ='$CC -shared ${wl}-h ${wl}$soname -o $lib $libobjs
$deplibs $compiler_flags'
        archive_expsym_cmds_GCJ='$echo "{ global:" > $lib.exp~cat
$export_symbols | $SED -e "s/\(.*\)/\1/;" >> $lib.exp~$echo "local: *;
};" >> $lib.exp~
        $CC -shared ${wl}-M ${wl}$lib.exp ${wl}-h ${wl}$soname -o $lib
$libobjs $deplibs $compiler_flags~$rm $lib.exp'
    else
        wlarc=''
        archive_cmds_GCJ='$LD -G${allow_undefined_flag} -h $soname -o $lib
$libobjs $deplibs $linker_flags'
    fi

```

```

        archive_expsym_cmds_GCJ='$echo "{ global:" > $lib.exp~cat
$export_symbols | $SED -e "s/\(.*\)/\1;/ " >> $lib.exp~$echo "local: *;
};" >> $lib.exp~
        $LD -G${allow_undefined_flag} -M $lib.exp -h $soname -o $lib
$libobjs $deplibs $linker_flags~$rm $lib.exp'
        fi
        hardcode_libdir_flag_spec_GCJ='-R$libdir'
        hardcode_shlibpath_var_GCJ=no
        case $host_os in
solaris2.[0-5] | solaris2.[0-5].*) ;;
*)
# The compiler driver will combine linker options so we
# cannot just pass the convenience library names through
# without $wl, iff we do not link with $LD.
# Luckily, gcc supports the same syntax we need for Sun Studio.
# Supported since Solaris 2.6 (maybe 2.5.1?)
case $wlarc in
'')
        whole_archive_flag_spec_GCJ='-z alleextract$convenience -z
defaultextract' ;;
*)
        whole_archive_flag_spec_GCJ='${wl}-z ${wl}alleextract`for conv in
$convenience\`"; do test -n \"$conv\" &&
new_convenience=\"$new_convenience,$conv\"; done; $echo
\"$new_convenience\` ` ${wl}-z ${wl}defaultextract' ;;
        esac ;;
        esac
        link_all_deplibs_GCJ=yes
        ;;

sunos4*)
        if test "x$host_vendor" = xsequent; then
        # Use $CC to link under sequent, because it throws in some extra .o
        # files that make .init and .fini sections work.
        archive_cmds_GCJ='$CC -G ${wl}-h $soname -o $lib $libobjs $deplibs
$compiler_flags'
        else
        archive_cmds_GCJ='$LD -assert pure-text -Bstatic -o $lib $libobjs
$deplibs $linker_flags'
        fi
        hardcode_libdir_flag_spec_GCJ='-L$libdir'
        hardcode_direct_GCJ=yes
        hardcode_minus_L_GCJ=yes
        hardcode_shlibpath_var_GCJ=no
        ;;

sysv4)
        case $host_vendor in
sni)
                archive_cmds_GCJ='$LD -G -h $soname -o $lib $libobjs $deplibs
$linker_flags'
                hardcode_direct_GCJ=yes # is this really true???
                ;;
siemens)

```



```

    ## LD is ld it makes a PLAMLIB
    ## CC just makes a GrossModule.
    archive_cmds_GCJ='$LD -G -o $lib $libobjs $deplibs $linker_flags'
    reload_cmds_GCJ='$CC -r -o $output$reload_objs'
    hardcode_direct_GCJ=no
    ;;
motorola)
    archive_cmds_GCJ='$LD -G -h $soname -o $lib $libobjs $deplibs
$linker_flags'
    hardcode_direct_GCJ=no #Motorola manual says yes, but my tests
say they lie
    ;;
esac
runpath_var='LD_RUN_PATH'
hardcode_shlibpath_var_GCJ=no
;;

sysv4.3*)
    archive_cmds_GCJ='$LD -G -h $soname -o $lib $libobjs $deplibs
$linker_flags'
    hardcode_shlibpath_var_GCJ=no
    export_dynamic_flag_spec_GCJ='-Bexport'
    ;;

sysv4*MP*)
    if test -d /usr/nec; then
        archive_cmds_GCJ='$LD -G -h $soname -o $lib $libobjs $deplibs
$linker_flags'
        hardcode_shlibpath_var_GCJ=no
        runpath_var=LD_RUN_PATH
        hardcode_runpath_var=yes
        ld_shlibs_GCJ=yes
    fi
    ;;

sysv4*uw2* | sysv5OpenUNIX* | sysv5UnixWare7.[01].[10]* | unixware7*)
    no_undefined_flag_GCJ='${wl}-z,text'
    archive_cmds_need_lc_GCJ=no
    hardcode_shlibpath_var_GCJ=no
    runpath_var='LD_RUN_PATH'

    if test "$GCC" = yes; then
        archive_cmds_GCJ='$CC -shared ${wl}-h,$soname -o $lib $libobjs
$deplibs $compiler_flags'
        archive_expsym_cmds_GCJ='$CC -shared ${wl}-Bexport:$export_symbols
${wl}-h,$soname -o $lib $libobjs $deplibs $compiler_flags'
    else
        archive_cmds_GCJ='$CC -G ${wl}-h,$soname -o $lib $libobjs $deplibs
$compiler_flags'
        archive_expsym_cmds_GCJ='$CC -G ${wl}-Bexport:$export_symbols
${wl}-h,$soname -o $lib $libobjs $deplibs $compiler_flags'
    fi
    ;;

```

```

sysv5* | sco3.2v5* | sco5v6*)
    # Note: We can NOT use -z defs as we might desire, because we do
not
    # link with -lc, and that would cause any symbols used from libc to
    # always be unresolved, which means just about no library would
    # ever link correctly.  If we're not using GNU ld we use -z text
    # though, which does catch some bad symbols but isn't as heavy-
handed
    # as -z defs.
    no_undefined_flag_GCJ='${wl}-z,text'
    allow_undefined_flag_GCJ='${wl}-z,nodefs'
    archive_cmds_need_lc_GCJ=no
    hardcode_shlibpath_var_GCJ=no
    hardcode_libdir_flag_spec_GCJ=`test -z "$SCOABSPATH" && echo
${wl}-R,$libdir`
    hardcode_libdir_separator_GCJ=':'
    link_all_deplibs_GCJ=yes
    export_dynamic_flag_spec_GCJ='${wl}-Bexport'
    runpath_var='LD_RUN_PATH'

    if test "$GCC" = yes; then
        archive_cmds_GCJ='$CC -shared ${wl}-
h,\${SCOABSPATH:+${install_libdir}/}$soname -o $lib $libobjs $deplibs
$compiler_flags'
        archive_expsym_cmds_GCJ='$CC -shared ${wl}-Bexport:$export_symbols
${wl}-h,\${SCOABSPATH:+${install_libdir}/}$soname -o $lib $libobjs
$deplibs $compiler_flags'
    else
        archive_cmds_GCJ='$CC -G ${wl}-
h,\${SCOABSPATH:+${install_libdir}/}$soname -o $lib $libobjs $deplibs
$compiler_flags'
        archive_expsym_cmds_GCJ='$CC -G ${wl}-Bexport:$export_symbols
${wl}-h,\${SCOABSPATH:+${install_libdir}/}$soname -o $lib $libobjs
$deplibs $compiler_flags'
    fi
    ;;

uts4*)
    archive_cmds_GCJ='$LD -G -h $soname -o $lib $libobjs $deplibs
$linker_flags'
    hardcode_libdir_flag_spec_GCJ='-L$libdir'
    hardcode_shlibpath_var_GCJ=no
    ;;

*)
    ld_shlibs_GCJ=no
    ;;
esac
fi

echo "$as_me:$LINENO: result: $ld_shlibs_GCJ" >&5
echo "${ECHO_T}$ld_shlibs_GCJ" >&6
test "$ld_shlibs_GCJ" = no && can_build_shared=no

```

```

#
# Do we need to explicitly link libc?
#
case "x$archive_cmds_need_lc_GCJ" in
x|xyes)
    # Assume -lc should be added
    archive_cmds_need_lc_GCJ=yes

    if test "$enable_shared" = yes && test "$GCC" = yes; then
        case $archive_cmds_GCJ in
        *'~'*)
            # FIXME: we may have to deal with multi-command sequences.
            ;;
        '$CC '*')
            # Test whether the compiler implicitly links with -lc since on some
            # systems, -lgcc has to come before -lc. If gcc already passes -lc
            # to ld, don't add -lc before -lgcc.
            echo "$as_me:$LINENO: checking whether -lc should be explicitly
linked in" >&5
            echo $ECHO_N "checking whether -lc should be explicitly linked in...
$ECHO_C" >&6
            $rm conftest*
            printf "$lt_simple_compile_test_code" > conftest.$ac_ext

            if { (eval echo "$as_me:$LINENO: \"$ac_compile\"" >&5
(eval $ac_compile) 2>&5
ac_status=$?
echo "$as_me:$LINENO: \$? = $ac_status" >&5
(exit $ac_status); } 2>conftest.err; then
                soname=conftest
                lib=conftest
                libobjs=conftest.$ac_objext
                deplibs=
                wl=$lt_prog_compiler_wl_GCJ
                pic_flag=$lt_prog_compiler_pic_GCJ
                compiler_flags=-v
                linker_flags=-v
                verstring=
                output_objdir=.
                libname=conftest
                lt_save_allow_undefined_flag=$allow_undefined_flag_GCJ
                allow_undefined_flag_GCJ=
                if { (eval echo "$as_me:$LINENO: \"$archive_cmds_GCJ 2\>\&1 \||
grep \" -lc \" \>/dev/null 2\>\&1\"") >&5
(eval $archive_cmds_GCJ 2\>\&1 \|| grep \" -lc \" \>/dev/null 2\>\&1)
2>&5
ac_status=$?
echo "$as_me:$LINENO: \$? = $ac_status" >&5
(exit $ac_status); }
                    then
                        archive_cmds_need_lc_GCJ=no
                    else
                        archive_cmds_need_lc_GCJ=yes
                    fi
            fi

```

```

        allow_undefined_flag_GCJ=$lt_save_allow_undefined_flag
    else
        cat conftest.err 1>&5
    fi
    $rm conftest*
    echo "$as_me:$LINENO: result: $archive_cmds_need_lc_GCJ" >&5
echo "${ECHO_T}$archive_cmds_need_lc_GCJ" >&6
    ;;
esac
fi
;;
esac

echo "$as_me:$LINENO: checking dynamic linker characteristics" >&5
echo $ECHO_N "checking dynamic linker characteristics... $ECHO_C" >&6
library_names_spec=
libname_spec='lib$name'
soname_spec=
shrext_cmds=".so"
postinstall_cmds=
postuninstall_cmds=
finish_cmds=
finish_eval=
shlibpath_var=
shlibpath_overrides_runpath=unknown
version_type=none
dynamic_linker="$host_os ld.so"
sys_lib_dlsearch_path_spec="/lib /usr/lib"
if test "$GCC" = yes; then
    sys_lib_search_path_spec=`$CC -print-search-dirs | grep "^libraries:" |
$SED -e "s/^libraries://" -e "s,=,/,g"`
    if echo "$sys_lib_search_path_spec" | grep ';' >/dev/null ; then
        # if the path contains ";" then we assume it to be the separator
        # otherwise default to the standard path separator (i.e. ":") - it is
        # assumed that no part of a normal pathname contains ";" but that
should
        # okay in the real world where ";" in dirpaths is itself problematic.
        sys_lib_search_path_spec=`echo "$sys_lib_search_path_spec" | $SED -e
's;/ /g'`
    else
        sys_lib_search_path_spec=`echo "$sys_lib_search_path_spec" | $SED -e
"s/$PATH_SEPARATOR/ /g"`
    fi
else
    sys_lib_search_path_spec="/lib /usr/lib /usr/local/lib"
fi
need_lib_prefix=unknown
hardcode_into_libs=no

# when you set need_version to no, make sure it does not cause -
set_version
# flags to be left without arguments
need_version=unknown

```

```

case $host_os in
aix3*)
    version_type=linux
    library_names_spec='${libname}${release}${shared_ext}$versuffix
$libname.a'
    shlibpath_var=LIBPATH

    # AIX 3 has no versioning support, so we append a major version to the
name.
    soname_spec='${libname}${release}${shared_ext}$major'
    ;;

aix4* | aix5*)
    version_type=linux
    need_lib_prefix=no
    need_version=no
    hardcode_into_libs=yes
    if test "$host_cpu" = ia64; then
        # AIX 5 supports IA64
        library_names_spec='${libname}${release}${shared_ext}$major
${libname}${release}${shared_ext}$versuffix $libname${shared_ext}'
        shlibpath_var=LD_LIBRARY_PATH
    else
        # With GCC up to 2.95.x, collect2 would create an import file
# for dependence libraries. The import file would start with
# the line `#! .' . This would cause the generated library to
# depend on `.', always an invalid library. This was fixed in
# development snapshots of GCC prior to 3.0.
        case $host_os in
aix4 | aix4.[01] | aix4.[01].*)
            if { echo '#if __GNUC__ > 2 || (__GNUC__ == 2 && __GNUC_MINOR__ >=
97)'
                echo ' yes '
                echo '#endif'; } | ${CC} -E - | grep yes > /dev/null; then
                :
            else
                can_build_shared=no
            fi
        ;;
        ;;
    esac
    # AIX (on Power*) has no versioning support, so currently we can not
hardcode correct
# soname into executable. Probably we can add versioning support to
# collect2, so additional links can be useful in future.
    if test "$aix_use_runtimelinking" = yes; then
        # If using run time linking (on AIX 4.2 or later) use lib<name>.so
# instead of lib<name>.a to let people know that these are not
# typical AIX shared libraries.
        library_names_spec='${libname}${release}${shared_ext}$versuffix
${libname}${release}${shared_ext}$major $libname${shared_ext}'
    else
        # We preserve .a as extension for shared libraries through AIX4.2
# and later when we are not doing run time linking.
        library_names_spec='${libname}${release}.a $libname.a'
    fi

```

```

        soname_spec='${libname}${release}${shared_ext}$major'
    fi
    shlibpath_var=LIBPATH
fi
;;

amigaos*)
    library_names_spec='${libname}.ixlibrary $libname.a'
    # Create ${libname}_ixlibrary.a entries in /sys/libs.
    finish_eval='for lib in `ls $libdir/*.ixlibrary 2>/dev/null`; do
libname=`$echo "X$lib" | $Xsed -e
'\''s%^\./\([^/]*\)\.ixlibrary$%\1%'\''`; test $rm
/sys/libs/${libname}_ixlibrary.a; $show "cd /sys/libs && $LN_S $lib
${libname}_ixlibrary.a"; cd /sys/libs && $LN_S $lib
${libname}_ixlibrary.a || exit 1; done'
    ;;

beos*)
    library_names_spec='${libname}${shared_ext}'
    dynamic_linker="$host_os ld.so"
    shlibpath_var=LIBRARY_PATH
    ;;

bsdi[45]*)
    version_type=linux
    need_version=no
    library_names_spec='${libname}${release}${shared_ext}$versuffix
${libname}${release}${shared_ext}$major $libname${shared_ext}'
    soname_spec='${libname}${release}${shared_ext}$major'
    finish_cmds='PATH="$PATH:/sbin" ldconfig $libdir'
    shlibpath_var=LD_LIBRARY_PATH
    sys_lib_search_path_spec="/shlib /usr/lib /usr/X11/lib /usr/contrib/lib
/lib /usr/local/lib"
    sys_lib_dlsearch_path_spec="/shlib /usr/lib /usr/local/lib"
    # the default ld.so.conf also contains /usr/contrib/lib and
    # /usr/X11R6/lib (/usr/X11 is a link to /usr/X11R6), but let us allow
    # libtool to hard-code these into programs
    ;;

cygwin* | mingw* | pw32*)
    version_type=windows
    shrext_cmds=".dll"
    need_version=no
    need_lib_prefix=no

    case $GCC,$host_os in
    yes,cygwin* | yes,mingw* | yes,pw32*)
        library_names_spec='${libname}.dll.a'
        # DLL is installed to $(libdir)/../bin by postinstall_cmds
        postinstall_cmds='base_file=`basename \${file}`~
dldir=`$SHELL 2>&1 -c '\''. $dir/\'''\${base_file}\'''\`i;echo
\${dlname}\'''\`~
dldir=$destdir/`dirname \${dldir}`~
test -d \${dldir} || mkdir -p \${dldir}~

```

```

    $install_prog $dir/$dlname \${dldir}/$dlname~
    chmod a+x \${dldir}/$dlname'
    postuninstall_cmds='dldll=\${SHELL} 2>&1 -c '\`. $file; echo
\${dlname}'\`\`~
    dlpath=$dir/\${dldll}~
    $rm \${dlpath}'
    shlibpath_overrides_runpath=yes

case $host_os in
cygwin*)
    # Cygwin DLLs use 'cyg' prefix rather than 'lib'
    soname_spec='\`echo ${libname} | sed -e 's/^lib/cyg/'\`echo
${release} | $SED -e 's/[.]/-/g'\`${versuffix}${shared_ext}'
    sys_lib_search_path_spec="/usr/lib /lib/w32api /lib /usr/local/lib"
    ;;
mingw*)
    # MinGW DLLs use traditional 'lib' prefix
    soname_spec='${libname}`echo ${release} | $SED -e 's/[.]/-
/g'\`${versuffix}${shared_ext}'
    sys_lib_search_path_spec=`$CC -print-search-dirs | grep
"^libraries:" | $SED -e "s/^libraries://" -e "s,=,/,g"`
    if echo "$sys_lib_search_path_spec" | grep '[c-zC-Z]:/'
>/dev/null; then
        # It is most probably a Windows format PATH printed by
        # mingw gcc, but we are running on Cygwin. Gcc prints its search
        # path with ; separators, and with drive letters. We can handle
the
        # drive letters (cygwin fileutils understands them), so leave
them,
        # especially as we might pass files found there to a mingw
objdump,
        # which wouldn't understand a cygwinified path. Ahh.
        sys_lib_search_path_spec=`echo "$sys_lib_search_path_spec" | $SED
-e 's;/;/g'\`
    else
        sys_lib_search_path_spec=`echo "$sys_lib_search_path_spec" | $SED
-e "s/$PATH_SEPARATOR/ /g"`
    fi
    ;;
pw32*)
    # pw32 DLLs use 'pw' prefix rather than 'lib'
    library_names_spec='\`echo ${libname} | sed -e 's/^lib/pw/'\`echo
${release} | $SED -e 's/[.]/-/g'\`${versuffix}${shared_ext}'
    ;;
esac
;;

*)
    library_names_spec='${libname}`echo ${release} | $SED -e 's/[.]/-
/g'\`${versuffix}${shared_ext} $libname.lib'
    ;;
esac
dynamic_linker='Win32 ld.exe'

```

```

# FIXME: first we should search . and the directory the executable is
in
shlibpath_var=PATH
;;

darwin* | rhapsody*)
dynamic_linker="$host_os dyld"
version_type=darwin
need_lib_prefix=no
need_version=no
library_names_spec='${libname}${release}${versuffix}$shared_ext
${libname}${release}${major}$shared_ext ${libname}$shared_ext'
soname_spec='${libname}${release}${major}$shared_ext'
shlibpath_overrides_runpath=yes
shlibpath_var=DYLD_LIBRARY_PATH
shrext_cmds='`test $.module = .yes && echo .so || echo .dylib`'
# Apple's gcc prints 'gcc -print-search-dirs' doesn't operate the same.
if test "$GCC" = yes; then
    sys_lib_search_path_spec=`$CC -print-search-dirs | tr "\n"
"$PATH_SEPARATOR" | sed -e 's/libraries:/@libraries:/' | tr "@" "\n" |
grep "^libraries:" | sed -e "s/^libraries://" -e "s,=,/,g" -e
"s,$PATH_SEPARATOR, ,g" -e "s,.*, & /lib /usr/lib /usr/local/lib,g"`
else
    sys_lib_search_path_spec='/lib /usr/lib /usr/local/lib'
fi
sys_lib_dlsearch_path_spec='/usr/local/lib /lib /usr/lib'
;;

dgux*)
version_type=linux
need_lib_prefix=no
need_version=no
library_names_spec='${libname}${release}${shared_ext}$versuffix
${libname}${release}${shared_ext}$major ${libname}$shared_ext'
soname_spec='${libname}${release}${shared_ext}$major'
shlibpath_var=LD_LIBRARY_PATH
;;

freebsd1*)
dynamic_linker=no
;;

kfreebsd*-gnu)
version_type=linux
need_lib_prefix=no
need_version=no
library_names_spec='${libname}${release}${shared_ext}$versuffix
${libname}${release}${shared_ext}$major ${libname}${shared_ext}'
soname_spec='${libname}${release}${shared_ext}$major'
shlibpath_var=LD_LIBRARY_PATH
shlibpath_overrides_runpath=no
hardcode_into_libs=yes
dynamic_linker='GNU ld.so'
;;

```



```

freebsd* | dragonfly*)
# DragonFly does not have aout.  When/if they implement a new
# versioning mechanism, adjust this.
if test -x /usr/bin/objformat; then
  objformat=`/usr/bin/objformat`
else
  case $host_os in
    freebsd[123]*) objformat=aout ;;
    *) objformat=elf ;;
  esac
fi
version_type=freebsd-$objformat
case $version_type in
  freebsd-elf*)
    library_names_spec='${libname}${release}${shared_ext}$versuffix
${libname}${release}${shared_ext} $libname${shared_ext}'
    need_version=no
    need_lib_prefix=no
    ;;
  freebsd-*)
    library_names_spec='${libname}${release}${shared_ext}$versuffix
$libname${shared_ext}$versuffix'
    need_version=yes
    ;;
esac
shlibpath_var=LD_LIBRARY_PATH
case $host_os in
  freebsd2*)
    shlibpath_overrides_runpath=yes
    ;;
  freebsd3.[01]* | freebsdelf3.[01]*)
    shlibpath_overrides_runpath=yes
    hardcode_into_libs=yes
    ;;
  freebsd3.[2-9]* | freebsdelf3.[2-9]* | \
  freebsd4.[0-5] | freebsdelf4.[0-5] | freebsd4.1.1 | freebsdelf4.1.1)
    shlibpath_overrides_runpath=no
    hardcode_into_libs=yes
    ;;
  freebsd*) # from 4.6 on
    shlibpath_overrides_runpath=yes
    hardcode_into_libs=yes
    ;;
esac
;;

gnu*)
  version_type=linux
  need_lib_prefix=no
  need_version=no
  library_names_spec='${libname}${release}${shared_ext}$versuffix
${libname}${release}${shared_ext}${major} ${libname}${shared_ext}'
  soname_spec='${libname}${release}${shared_ext}$major'

```

```

shlibpath_var=LD_LIBRARY_PATH
hardcode_into_libs=yes
;;

hpux9* | hpux10* | hpux11*)
# Give a soname corresponding to the major version so that dld.sl
refuses to
# link against other versions.
version_type=sunos
need_lib_prefix=no
need_version=no
case $host_cpu in
ia64*)
shrext_cmds='.so'
hardcode_into_libs=yes
dynamic_linker="$host_os dld.so"
shlibpath_var=LD_LIBRARY_PATH
shlibpath_overrides_runpath=yes # Unless +noenvvar is specified.
library_names_spec='${libname}${release}${shared_ext}$versuffix
${libname}${release}${shared_ext}$major $libname${shared_ext}'
soname_spec='${libname}${release}${shared_ext}$major'
if test "X$HPUX_IA64_MODE" = X32; then
sys_lib_search_path_spec="/usr/lib/hpux32 /usr/local/lib/hpux32
/usr/local/lib"
else
sys_lib_search_path_spec="/usr/lib/hpux64 /usr/local/lib/hpux64"
fi
sys_lib_dlsearch_path_spec=$sys_lib_search_path_spec
;;
hppa*64*)
shrext_cmds='.sl'
hardcode_into_libs=yes
dynamic_linker="$host_os dld.sl"
shlibpath_var=LD_LIBRARY_PATH # How should we handle SHLIB_PATH
shlibpath_overrides_runpath=yes # Unless +noenvvar is specified.
library_names_spec='${libname}${release}${shared_ext}$versuffix
${libname}${release}${shared_ext}$major $libname${shared_ext}'
soname_spec='${libname}${release}${shared_ext}$major'
sys_lib_search_path_spec="/usr/lib/pa20_64 /usr/ccs/lib/pa20_64"
sys_lib_dlsearch_path_spec=$sys_lib_search_path_spec
;;
*)
shrext_cmds='.sl'
dynamic_linker="$host_os dld.sl"
shlibpath_var=SHLIB_PATH
shlibpath_overrides_runpath=no # +s is required to enable SHLIB_PATH
library_names_spec='${libname}${release}${shared_ext}$versuffix
${libname}${release}${shared_ext}$major $libname${shared_ext}'
soname_spec='${libname}${release}${shared_ext}$major'
;;
esac
# HP-UX runs *really* slowly unless shared libraries are mode 555.
postinstall_cmds='chmod 555 $lib'
;;

```

```

interix3*)
    version_type=linux
    need_lib_prefix=no
    need_version=no
    library_names_spec='${libname}${release}${shared_ext}$versuffix
${libname}${release}${shared_ext}$major ${libname}${shared_ext}'
    soname_spec='${libname}${release}${shared_ext}$major'
    dynamic_linker='Interix 3.x ld.so.1 (PE, like ELF)'
    shlibpath_var=LD_LIBRARY_PATH
    shlibpath_overrides_runpath=no
    hardcode_into_libs=yes
    ;;

irix5* | irix6* | nonstopux*)
    case $host_os in
        nonstopux*) version_type=nonstopux ;;
        *)
            if test "$lt_cv_prog_gnu_ld" = yes; then
                version_type=linux
            else
                version_type=irix
            fi ;;
    esac
    need_lib_prefix=no
    need_version=no
    soname_spec='${libname}${release}${shared_ext}$major'
    library_names_spec='${libname}${release}${shared_ext}$versuffix
${libname}${release}${shared_ext}$major ${libname}${release}${shared_ext}
${libname}${shared_ext}'
    case $host_os in
        irix5* | nonstopux*)
            libsuff= shlibsuff=
            ;;
        *)
            case $LD in # libtool.m4 will add one of these switches to LD
*-32|*" -32 " | *-melf32bsmip|*" -melf32bsmip ")
                libsuff= shlibsuff= libmagic=32-bit;;
*-n32|*" -n32 " | *-melf32bmipn32|*" -melf32bmipn32 ")
                libsuff=32 shlibsuff=N32 libmagic=N32;;
*-64|*" -64 " | *-melf64bmip|*" -melf64bmip ")
                libsuff=64 shlibsuff=64 libmagic=64-bit;;
*) libsuff= shlibsuff= libmagic=never-match;;
            esac
            ;;
    esac
    shlibpath_var=LD_LIBRARY${shlibsuff}_PATH
    shlibpath_overrides_runpath=no
    sys_lib_search_path_spec="/usr/lib${libsuff} /lib${libsuff}
/usr/local/lib${libsuff}"
    sys_lib_dlsearch_path_spec="/usr/lib${libsuff} /lib${libsuff}"
    hardcode_into_libs=yes
    ;;

```

```

# No shared lib support for Linux oldld, aout, or coff.
linux*oldld* | linux*aout* | linux*coff*)
    dynamic_linker=no
    ;;

# This must be Linux ELF.
linux*)
    version_type=linux
    need_lib_prefix=no
    need_version=no
    library_names_spec='${libname}${release}${shared_ext}$versuffix
${libname}${release}${shared_ext}$major $libname${shared_ext}'
    soname_spec='${libname}${release}${shared_ext}$major'
    finish_cmds='PATH="\$PATH:/sbin" ldconfig -n $libdir'
    shlibpath_var=LD_LIBRARY_PATH
    shlibpath_overrides_runpath=no
    # This implies no fast_install, which is unacceptable.
    # Some rework will be needed to allow for fast_install
    # before this can be enabled.
    hardcode_into_libs=yes

# find out which ABI we are using
libsuff=
case "$host_cpu" in
x86_64*|s390x*|powerpc64*)
    echo '#line 17560 "configure"' > conftest.$ac_ext
    if { (eval echo "$as_me:$LINENO: \"\$ac_compile\"" >&5
(eval $ac_compile) 2>&5
ac_status=$?
echo "$as_me:$LINENO: \$? = $ac_status" >&5
(exit $ac_status); }; then
        case ` /usr/bin/file conftest.$ac_objext ` in
        *64-bit*)
            libsuff=64
            sys_lib_search_path_spec="/lib${libsuff} /usr/lib${libsuff}
/usr/local/lib${libsuff}"
            ;;
        esac
    fi
    rm -rf conftest*
    ;;
esac

# Append ld.so.conf contents to the search path
if test -f /etc/ld.so.conf; then
    lt_ld_extra=`awk '/^include / { system(sprintf("cd /etc; cat %s",
\$2)); skip = 1; } { if (!skip) print \$0; skip = 0; }' < /etc/ld.so.conf
| $SED -e 's/#.*//;s/[:,] / /g;s/=[^=]*$//;s/=[^= ]* / /g;/^$/d' | tr
'\n' ' ' `
    sys_lib_dlsearch_path_spec="/lib${libsuff} /usr/lib${libsuff}
$lt_ld_extra"
fi

# We used to test for /lib/ld.so.1 and disable shared libraries on

```

```

# powerpc, because MkLinux only supported shared libraries with the
# GNU dynamic linker. Since this was broken with cross compilers,
# most powerpc-linux boxes support dynamic linking these days and
# people can always --disable-shared, the test was removed, and we
# assume the GNU/Linux dynamic linker is in use.
dynamic_linker='GNU/Linux ld.so'
;;

knetbsd*-gnu)
    version_type=linux
    need_lib_prefix=no
    need_version=no
    library_names_spec='${libname}${release}${shared_ext}$versuffix
${libname}${release}${shared_ext}$major ${libname}${shared_ext}'
    soname_spec='${libname}${release}${shared_ext}$major'
    shlibpath_var=LD_LIBRARY_PATH
    shlibpath_overrides_runpath=no
    hardcode_into_libs=yes
    dynamic_linker='GNU ld.so'
    ;;

netbsd*)
    version_type=sunos
    need_lib_prefix=no
    need_version=no
    if echo __ELF__ | $CC -E - | grep __ELF__ >/dev/null; then
        library_names_spec='${libname}${release}${shared_ext}$versuffix
${libname}${shared_ext}$versuffix'
        finish_cmds='PATH="\$PATH:/sbin" ldconfig -m $libdir'
        dynamic_linker='NetBSD (a.out) ld.so'
    else
        library_names_spec='${libname}${release}${shared_ext}$versuffix
${libname}${release}${shared_ext}$major ${libname}${shared_ext}'
        soname_spec='${libname}${release}${shared_ext}$major'
        dynamic_linker='NetBSD ld.elf_so'
    fi
    shlibpath_var=LD_LIBRARY_PATH
    shlibpath_overrides_runpath=yes
    hardcode_into_libs=yes
    ;;

newsos6)
    version_type=linux
    library_names_spec='${libname}${release}${shared_ext}$versuffix
${libname}${release}${shared_ext}$major $libname${shared_ext}'
    shlibpath_var=LD_LIBRARY_PATH
    shlibpath_overrides_runpath=yes
    ;;

nto-qnx*)
    version_type=linux
    need_lib_prefix=no
    need_version=no

```

```

    library_names_spec='${libname}${release}${shared_ext}$versuffix
    ${libname}${release}${shared_ext}$major $libname${shared_ext}'
    soname_spec='${libname}${release}${shared_ext}$major'
    shlibpath_var=LD_LIBRARY_PATH
    shlibpath_overrides_runpath=yes
    ;;

openbsd*)
    version_type=sunos
    sys_lib_dlsearch_path_spec="/usr/lib"
    need_lib_prefix=no
    # Some older versions of OpenBSD (3.3 at least) *do* need versioned
    libs.
    case $host_os in
        openbsd3.3 | openbsd3.3.*) need_version=yes ;;
        *) need_version=no ;;
    esac
    library_names_spec='${libname}${release}${shared_ext}$versuffix
    ${libname}${shared_ext}$versuffix'
    finish_cmds='PATH="\$PATH:/sbin" ldconfig -m $libdir'
    shlibpath_var=LD_LIBRARY_PATH
    if test -z "`echo __ELF__ | $CC -E - | grep __ELF__`" || test
"$host_os-$host_cpu" = "openbsd2.8-powerpc"; then
        case $host_os in
            openbsd2.[89] | openbsd2.[89].*)
                shlibpath_overrides_runpath=no
                ;;
            *)
                shlibpath_overrides_runpath=yes
                ;;
        esac
    else
        shlibpath_overrides_runpath=yes
    fi
    ;;

os2*)
    libname_spec='$name'
    shrext_cmds=".dll"
    need_lib_prefix=no
    library_names_spec='$libname${shared_ext} $libname.a'
    dynamic_linker='OS/2 ld.exe'
    shlibpath_var=LIBPATH
    ;;

osf3* | osf4* | osf5*)
    version_type=osf
    need_lib_prefix=no
    need_version=no
    soname_spec='${libname}${release}${shared_ext}$major'
    library_names_spec='${libname}${release}${shared_ext}$versuffix
    ${libname}${release}${shared_ext}$major $libname${shared_ext}'
    shlibpath_var=LD_LIBRARY_PATH

```

```

    sys_lib_search_path_spec="/usr/shlib /usr/ccs/lib /usr/lib/cmplrs/cc
/usr/lib /usr/local/lib /var/shlib"
    sys_lib_dlsearch_path_spec="$sys_lib_search_path_spec"
;;

```

```

solaris*)
    version_type=linux
    need_lib_prefix=no
    need_version=no
    library_names_spec='${libname}${release}${shared_ext}$versuffix
${libname}${release}${shared_ext}$major $libname${shared_ext}'
    soname_spec='${libname}${release}${shared_ext}$major'
    shlibpath_var=LD_LIBRARY_PATH
    shlibpath_overrides_runpath=yes
    hardcode_into_libs=yes
    # ldd complains unless libraries are executable
    postinstall_cmds='chmod +x $lib'
;;

```

```

sunos4*)
    version_type=sunos
    library_names_spec='${libname}${release}${shared_ext}$versuffix
${libname}${shared_ext}$versuffix'
    finish_cmds='PATH="\$PATH:/usr/etc" ldconfig $libdir'
    shlibpath_var=LD_LIBRARY_PATH
    shlibpath_overrides_runpath=yes
    if test "$with_gnu_ld" = yes; then
        need_lib_prefix=no
    fi
    need_version=yes
;;

```

```

sysv4 | sysv4.3*)
    version_type=linux
    library_names_spec='${libname}${release}${shared_ext}$versuffix
${libname}${release}${shared_ext}$major $libname${shared_ext}'
    soname_spec='${libname}${release}${shared_ext}$major'
    shlibpath_var=LD_LIBRARY_PATH
    case $host_vendor in
        sni)
            shlibpath_overrides_runpath=no
            need_lib_prefix=no
            export_dynamic_flag_spec='${wl}-Blargedynsym'
            runpath_var=LD_RUN_PATH
            ;;
        siemens)
            need_lib_prefix=no
            ;;
        motorola)
            need_lib_prefix=no
            need_version=no
            shlibpath_overrides_runpath=no
            sys_lib_search_path_spec='/lib /usr/lib /usr/ccs/lib'
            ;;
    esac

```

```

esac
;;

sysv4*MP*)
    if test -d /usr/nec ;then
        version_type=linux
        library_names_spec='$libname${shared_ext}.$versuffix
$libname${shared_ext}.$major $libname${shared_ext}'
        soname_spec='$libname${shared_ext}.$major'
        shlibpath_var=LD_LIBRARY_PATH
    fi
    ;;

sysv5* | sco3.2v5* | sco5v6* | unixware* | OpenUNIX* | sysv4*uw2*)
    version_type=freebsd-elf
    need_lib_prefix=no
    need_version=no
    library_names_spec='${libname}${release}${shared_ext}$versuffix
${libname}${release}${shared_ext} $libname${shared_ext}'
    soname_spec='${libname}${release}${shared_ext}$major'
    shlibpath_var=LD_LIBRARY_PATH
    hardcode_into_libs=yes
    if test "$with_gnu_ld" = yes; then
        sys_lib_search_path_spec='/usr/local/lib /usr/gnu/lib /usr/ccs/lib
/usr/lib /lib'
        shlibpath_overrides_runpath=no
    else
        sys_lib_search_path_spec='/usr/ccs/lib /usr/lib'
        shlibpath_overrides_runpath=yes
        case $host_os in
            sco3.2v5*)
                sys_lib_search_path_spec="$sys_lib_search_path_spec /lib"
            ;;
        esac
    fi
    sys_lib_dlsearch_path_spec='/usr/lib'
    ;;

uts4*)
    version_type=linux
    library_names_spec='${libname}${release}${shared_ext}$versuffix
${libname}${release}${shared_ext}$major $libname${shared_ext}'
    soname_spec='${libname}${release}${shared_ext}$major'
    shlibpath_var=LD_LIBRARY_PATH
    ;;

*)
    dynamic_linker=no
    ;;
esac
echo "$as_me:$LINENO: result: $dynamic_linker" >&5
echo "${ECHO_T}$dynamic_linker" >&6
test "$dynamic_linker" = no && can_build_shared=no

```



```

variables_saved_for_relink="PATH $shlibpath_var $runpath_var"
if test "$GCC" = yes; then
    variables_saved_for_relink="$variables_saved_for_relink GCC_EXEC_PREFIX
COMPILER_PATH LIBRARY_PATH"
fi

echo "$as_me:$LINENO: checking how to hardcode library paths into
programs" >&5
echo $ECHO_N "checking how to hardcode library paths into programs...
$ECHO_C" >&6
hardcode_action_GCJ=
if test -n "$hardcode_libdir_flag_spec_GCJ" || \
    test -n "$runpath_var_GCJ" || \
    test "X$hardcode_automatic_GCJ" = "Xyes" ; then

    # We can hardcode non-existent directories.
    if test "$hardcode_direct_GCJ" != no &&
        # If the only mechanism to avoid hardcoding is shlibpath_var, we
        # have to relink, otherwise we might link with an installed library
        # when we should be linking with a yet-to-be-installed one
        ## test "$_LT_AC_TAGVAR(hardcode_shlibpath_var, GCJ)" != no &&
        test "$hardcode_minus_L_GCJ" != no; then
        # Linking always hardcodes the temporary library directory.
        hardcode_action_GCJ=relink
    else
        # We can link without hardcoding, and we can hardcode nonexisting
        # dirs.
        hardcode_action_GCJ=immediate
    fi
else
    # We cannot hardcode anything, or else we can only hardcode existing
    # directories.
    hardcode_action_GCJ=unsupported
fi
echo "$as_me:$LINENO: result: $hardcode_action_GCJ" >&5
echo "${ECHO_T}$hardcode_action_GCJ" >&6

if test "$hardcode_action_GCJ" = relink; then
    # Fast installation is not supported
    enable_fast_install=no
elif test "$shlibpath_overrides_runpath" = yes ||
    test "$enable_shared" = no; then
    # Fast installation is not necessary
    enable_fast_install=needless
fi

# The else clause should only fire when bootstrapping the
# libtool distribution, otherwise you forgot to ship ltmain.sh
# with your package, and you will get complaints that there are
# no rules to generate ltmain.sh.
if test -f "$ltmain"; then
    # See if we are running on zsh, and set the options which allow our
    # commands through

```

```

# without removal of \ escapes.
if test -n "${ZSH_VERSION+set}" ; then
  setopt NO_GLOB_SUBST
fi
# Now quote all the things that may contain metacharacters while being
# careful not to overquote the AC_SUBSTed values. We take copies of
the
# variables and quote the copies for generation of the libtool script.
for var in echo old_CC old_CFLAGS AR AR_FLAGS EGREP RANLIB LN_S LTCC
LTCFLAGS NM \
  SED SHELL STRIP \
  libname_spec library_names_spec soname_spec extract_expsyms_cmds \
  old_striplib striplib file_magic_cmd finish_cmds finish_eval \
  deplibs_check_method reload_flag reload_cmds need_locks \
  lt_cv_sys_global_symbol_pipe lt_cv_sys_global_symbol_to_cdecl \
  lt_cv_sys_global_symbol_to_c_name_address \
  sys_lib_search_path_spec sys_lib_dlsearch_path_spec \
  old_postinstall_cmds old_postuninstall_cmds \
  compiler_GCJ \
  CC_GCJ \
  LD_GCJ \
  lt_prog_compiler_wl_GCJ \
  lt_prog_compiler_pic_GCJ \
  lt_prog_compiler_static_GCJ \
  lt_prog_compiler_no_builtin_flag_GCJ \
  export_dynamic_flag_spec_GCJ \
  thread_safe_flag_spec_GCJ \
  whole_archive_flag_spec_GCJ \
  enable_shared_with_static_runtimes_GCJ \
  old_archive_cmds_GCJ \
  old_archive_from_new_cmds_GCJ \
  predep_objects_GCJ \
  postdep_objects_GCJ \
  predeps_GCJ \
  postdeps_GCJ \
  compiler_lib_search_path_GCJ \
  archive_cmds_GCJ \
  archive_expsym_cmds_GCJ \
  postinstall_cmds_GCJ \
  postuninstall_cmds_GCJ \
  old_archive_from_expsyms_cmds_GCJ \
  allow_undefined_flag_GCJ \
  no_undefined_flag_GCJ \
  export_symbols_cmds_GCJ \
  hardcode_libdir_flag_spec_GCJ \
  hardcode_libdir_flag_spec_ld_GCJ \
  hardcode_libdir_separator_GCJ \
  hardcode_automatic_GCJ \
  module_cmds_GCJ \
  module_expsym_cmds_GCJ \
  lt_cv_prog_compiler_c_o_GCJ \
  exclude_expsyms_GCJ \
  include_expsyms_GCJ; do

```

```

case $var in
old_archive_cmds_GCJ | \
old_archive_from_new_cmds_GCJ | \
archive_cmds_GCJ | \
archive_expsym_cmds_GCJ | \
module_cmds_GCJ | \
module_expsym_cmds_GCJ | \
old_archive_from_expsyms_cmds_GCJ | \
export_symbols_cmds_GCJ | \
extract_expsyms_cmds | reload_cmds | finish_cmds | \
postinstall_cmds | postuninstall_cmds | \
old_postinstall_cmds | old_postuninstall_cmds | \
sys_lib_search_path_spec | sys_lib_dlsearch_path_spec)
# Double-quote double-quoted strings.
eval "lt_$var=\\\\"`$echo `X`$var`" | $Xsed -e
\`$double_quote_subst` -e \`$sed_quote_subst` -e
\`$delay_variable_subst`\\`\\`"
;;
*)
eval "lt_$var=\\\\"`$echo `X`$var`" | $Xsed -e
\`$sed_quote_subst`\\`\\`"
;;
esac
done

case $lt_echo in
*`$0 --fallback-echo`)
lt_echo=`$echo `X`$lt_echo` | $Xsed -e 's/\\\\\\\\\\\\$0 --fallback-
echo`$/$0 --fallback-echo`/'`
;;
esac

cfgfile="$ofile"

cat <<_EOF_ >> "$cfgfile"
# ### BEGIN LIBTOOL TAG CONFIG: $tagname

# Libtool was configured on host `(hostname || uname -n) 2>/dev/null |
sed lq`:

# Shell to use when invoking shell scripts.
SHELL=$lt_SHELL

# Whether or not to build shared libraries.
build_libtool_libs=$enable_shared

# Whether or not to build static libraries.
build_old_libs=$enable_static

# Whether or not to add -lc for building shared libraries.
build_libtool_need_lc=$archive_cmds_need_lc_GCJ

# Whether or not to disallow shared libs when runtime libs are static

```

```

allow_libtool_libs_with_static_runtimes=$enable_shared_with_static_runtim
es_GCJ

# Whether or not to optimize for fast installation.
fast_install=$enable_fast_install

# The host system.
host_alias=$host_alias
host=$host
host_os=$host_os

# The build system.
build_alias=$build_alias
build=$build
build_os=$build_os

# An echo program that does not interpret backslashes.
echo=$lt_echo

# The archiver.
AR=$lt_AR
AR_FLAGS=$lt_AR_FLAGS

# A C compiler.
LTCC=$lt_LTCC

# LTCC compiler flags.
LTCFLAGS=$lt_LTCFLAGS

# A language-specific compiler.
CC=$lt_compiler_GCJ

# Is the compiler the GNU C compiler?
with_gcc=$GCC_GCJ

# An ERE matcher.
EGREP=$lt_EGREP

# The linker used to build libraries.
LD=$lt_LD_GCJ

# Whether we need hard or soft links.
LN_S=$lt_LN_S

# A BSD-compatible nm program.
NM=$lt_NM

# A symbol stripping program
STRIP=$lt_STRIP

# Used to examine libraries when file_magic_cmd begins "file"
MAGIC_CMD=$MAGIC_CMD

# Used on cygwin: DLL creation program.

```

```

DLLTOOL="$DLLTOOL"

# Used on cygwin: object dumper.
OBJDUMP="$OBJDUMP"

# Used on cygwin: assembler.
AS="$AS"

# The name of the directory that contains temporary libtool files.
objdir=$objdir

# How to create reloadable object files.
reload_flag=$lt_reload_flag
reload_cmds=$lt_reload_cmds

# How to pass a linker flag through the compiler.
wl=$lt_lt_prog_compiler_wl_GCJ

# Object file suffix (normally "o").
objext="$ac_objext"

# Old archive suffix (normally "a").
libext="$libext"

# Shared library suffix (normally ".so").
shrext_cmds=' $shrext_cmds '

# Executable file suffix (normally "").
exeext="$exeext"

# Additional compiler flags for building library objects.
pic_flag=$lt_lt_prog_compiler_pic_GCJ
pic_mode=$pic_mode

# What is the maximum length of a command?
max_cmd_len=$lt_cv_sys_max_cmd_len

# Does compiler simultaneously support -c and -o options?
compiler_c_o=$lt_lt_cv_prog_compiler_c_o_GCJ

# Must we lock files when doing compilation?
need_locks=$lt_need_locks

# Do we need the lib prefix for modules?
need_lib_prefix=$need_lib_prefix

# Do we need a version for libraries?
need_version=$need_version

# Whether dlopen is supported.
dlopen_support=$enable_dlopen

# Whether dlopen of programs is supported.
dlopen_self=$enable_dlopen_self

```

```

# Whether dlopen of statically linked programs is supported.
dlopen_self_static=$enable_dlopen_self_static

# Compiler flag to prevent dynamic linking.
link_static_flag=$lt_lt_prog_compiler_static_GCJ

# Compiler flag to turn off builtin functions.
no_builtin_flag=$lt_lt_prog_compiler_no_builtin_flag_GCJ

# Compiler flag to allow reflexive dlopens.
export_dynamic_flag_spec=$lt_export_dynamic_flag_spec_GCJ

# Compiler flag to generate shared objects directly from archives.
whole_archive_flag_spec=$lt_whole_archive_flag_spec_GCJ

# Compiler flag to generate thread-safe objects.
thread_safe_flag_spec=$lt_thread_safe_flag_spec_GCJ

# Library versioning type.
version_type=$version_type

# Format of library name prefix.
libname_spec=$lt_libname_spec

# List of archive names.  First name is the real one, the rest are links.
# The last name is the one that the linker finds with -lNAME.
library_names_spec=$lt_library_names_spec

# The coded name of the library, if different from the real name.
soname_spec=$lt_soname_spec

# Commands used to build and install an old-style archive.
RANLIB=$lt_RANLIB
old_archive_cmds=$lt_old_archive_cmds_GCJ
old_postinstall_cmds=$lt_old_postinstall_cmds
old_postuninstall_cmds=$lt_old_postuninstall_cmds

# Create an old-style archive from a shared archive.
old_archive_from_new_cmds=$lt_old_archive_from_new_cmds_GCJ

# Create a temporary old-style archive to link instead of a shared
archive.
old_archive_from_expsyms_cmds=$lt_old_archive_from_expsyms_cmds_GCJ

# Commands used to build and install a shared archive.
archive_cmds=$lt_archive_cmds_GCJ
archive_expsym_cmds=$lt_archive_expsym_cmds_GCJ
postinstall_cmds=$lt_postinstall_cmds
postuninstall_cmds=$lt_postuninstall_cmds

# Commands used to build a loadable module (assumed same as above if
empty)
module_cmds=$lt_module_cmds_GCJ

```

```

module_expsym_cmds=$lt_module_expsym_cmds_GCJ

# Commands to strip libraries.
old_striplib=$lt_old_striplib
striplib=$lt_striplib

# Dependencies to place before the objects being linked to create a
# shared library.
predep_objects=$lt_predep_objects_GCJ

# Dependencies to place after the objects being linked to create a
# shared library.
postdep_objects=$lt_postdep_objects_GCJ

# Dependencies to place before the objects being linked to create a
# shared library.
predeps=$lt_predeps_GCJ

# Dependencies to place after the objects being linked to create a
# shared library.
postdeps=$lt_postdeps_GCJ

# The library search path used internally by the compiler when linking
# a shared library.
compiler_lib_search_path=$lt_compiler_lib_search_path_GCJ

# Method to check whether dependent libraries are shared objects.
deplibs_check_method=$lt_deplibs_check_method

# Command to use when deplibs_check_method == file_magic.
file_magic_cmd=$lt_file_magic_cmd

# Flag that allows shared libraries with undefined symbols to be built.
allow_undefined_flag=$lt_allow_undefined_flag_GCJ

# Flag that forces no undefined symbols.
no_undefined_flag=$lt_no_undefined_flag_GCJ

# Commands used to finish a libtool library installation in a directory.
finish_cmds=$lt_finish_cmds

# Same as above, but a single script fragment to be eval'd but not shown.
finish_eval=$lt_finish_eval

# Take the output of nm and produce a listing of raw symbols and C names.
global_symbol_pipe=$lt_lt_cv_sys_global_symbol_pipe

# Transform the output of nm in a proper C declaration
global_symbol_to_cdecl=$lt_lt_cv_sys_global_symbol_to_cdecl

# Transform the output of nm in a C name address pair
global_symbol_to_c_name_address=$lt_lt_cv_sys_global_symbol_to_c_name_address

```

```

# This is the shared library runtime path variable.
runpath_var=$runpath_var

# This is the shared library path variable.
shlibpath_var=$shlibpath_var

# Is shlibpath searched before the hard-coded library search path?
shlibpath_overrides_runpath=$shlibpath_overrides_runpath

# How to hardcode a shared library path into an executable.
hardcode_action=$hardcode_action_GCJ

# Whether we should hardcode library paths into libraries.
hardcode_into_libs=$hardcode_into_libs

# Flag to hardcode \${libdir} into a binary during linking.
# This must work even if \${libdir} does not exist.
hardcode_libdir_flag_spec=$lt_hardcode_libdir_flag_spec_GCJ

# If ld is used when linking, flag to hardcode \${libdir} into
# a binary during linking. This must work even if \${libdir} does
# not exist.
hardcode_libdir_flag_spec_ld=$lt_hardcode_libdir_flag_spec_ld_GCJ

# Whether we need a single -rpath flag with a separated argument.
hardcode_libdir_separator=$lt_hardcode_libdir_separator_GCJ

# Set to yes if using DIR/libNAME${shared_ext} during linking hardcodes
# DIR into the
# resulting binary.
hardcode_direct=$hardcode_direct_GCJ

# Set to yes if using the -LDIR flag during linking hardcodes DIR into
# the
# resulting binary.
hardcode_minus_L=$hardcode_minus_L_GCJ

# Set to yes if using SHLIBPATH_VAR=DIR during linking hardcodes DIR into
# the resulting binary.
hardcode_shlibpath_var=$hardcode_shlibpath_var_GCJ

# Set to yes if building a shared library automatically hardcodes DIR
# into the library
# and all subsequent libraries and executables linked against it.
hardcode_automatic=$hardcode_automatic_GCJ

# Variables whose values should be saved in libtool wrapper scripts and
# restored at relink time.
variables_saved_for_relink="$variables_saved_for_relink"

# Whether libtool must link a program against all its dependency
# libraries.
link_all_deplibs=$link_all_deplibs_GCJ

```



```

# Compile-time system search path for libraries
sys_lib_search_path_spec=$lt_sys_lib_search_path_spec

# Run-time system search path for libraries
sys_lib_dlsearch_path_spec=$lt_sys_lib_dlsearch_path_spec

# Fix the shell variable \${srcfile} for the compiler.
fix_srcfile_path="$fix_srcfile_path_GCJ"

# Set to yes if exported symbols are required.
always_export_symbols=$always_export_symbols_GCJ

# The commands to list exported symbols.
export_symbols_cmds=$lt_export_symbols_cmds_GCJ

# The commands to extract the exported symbol list from a shared archive.
extract_expsyms_cmds=$lt_extract_expsyms_cmds

# Symbols that should not be listed in the preloaded symbols.
exclude_expsyms=$lt_exclude_expsyms_GCJ

# Symbols that must always be exported.
include_expsyms=$lt_include_expsyms_GCJ

# ### END LIBTOOL TAG CONFIG: $tagname

```

```
__EOF__
```

```

else
  # If there is no Makefile yet, we rely on a make rule to execute
  # `config.status --recheck' to rerun these tests and create the
  # libtool script then.
  ltmain_in=`echo $ltmain | sed -e 's/\.sh$/\.in/'`
  if test -f "$ltmain_in"; then
    test -f Makefile && make "$ltmain"
  fi
fi

```

```

ac_ext=c
ac_cpp='$CPP $CPPFLAGS'
ac_compile='$CC -c $CFLAGS $CPPFLAGS conftest.$ac_ext >&5'
ac_link='$CC -o conftest$ac_exeext $CFLAGS $CPPFLAGS $LDFLAGS
conftest.$ac_ext $LIBS >&5'
ac_compiler_gnu=$ac_cv_c_compiler_gnu

```

```
CC="$lt_save_CC"
```

```

else
  tagname=""
fi
;;

```

RC)

```
# Source file extension for RC test sources.
ac_ext=rc

# Object file extension for compiled RC test sources.
objext=o
objext_RC=$objext

# Code to be used in simple compile tests
lt_simple_compile_test_code='sample MENU { MENUITEM "&Soup", 100, CHECKED
}\n'

# Code to be used in simple link tests
lt_simple_link_test_code="$lt_simple_compile_test_code"

# ltmain only uses $CC for tagged configurations so make sure $CC is set.

# If no C compiler was specified, use CC.
LTCC=${LTCC-"$CC"}

# If no C compiler flags were specified, use CFLAGS.
LTCFLAGS=${LTCFLAGS-"$CFLAGS"}

# Allow CC to be a program name with arguments.
compiler=$CC

# save warnings/boilerplate of simple test code
ac_outfile=confptest.$ac_objext
printf "$lt_simple_compile_test_code" >confptest.$ac_ext
eval "$ac_compile" 2>&1 >/dev/null | $SED '/^$/d; /^ *+/d' >confptest.err
_lt_compiler_boilerplate=`cat confptest.err`
$rm confptest*

ac_outfile=confptest.$ac_objext
printf "$lt_simple_link_test_code" >confptest.$ac_ext
eval "$ac_link" 2>&1 >/dev/null | $SED '/^$/d; /^ *+/d' >confptest.err
_lt_linker_boilerplate=`cat confptest.err`
$rm confptest*

# Allow CC to be a program name with arguments.
lt_save_CC="$CC"
CC=${RC-"windres"}
compiler=$CC
compiler_RC=$CC
for cc_temp in $compiler""; do
  case $cc_temp in
    compile | *[\//]compile | ccache | *[\//]ccache ) ;;
    distcc | *[\//]distcc | purify | *[\//]purify ) ;;
    \-*) ;;
  esac
done
```

```

        *) break;;
    esac
done
cc_basename=`$echo "X$cc_temp" | $Xsed -e 's%.*/%%' -e "s%^$host_alias-
%%"`

lt_cv_prog_compiler_c_o_RC=yes

# The else clause should only fire when bootstrapping the
# libtool distribution, otherwise you forgot to ship ltmain.sh
# with your package, and you will get complaints that there are
# no rules to generate ltmain.sh.
if test -f "$ltmain"; then
    # See if we are running on zsh, and set the options which allow our
    commands through
    # without removal of \ escapes.
    if test -n "${ZSH_VERSION+set}" ; then
        setopt NO_GLOB_SUBST
    fi
    # Now quote all the things that may contain metacharacters while being
    # careful not to overquote the AC_SUBSTed values.  We take copies of
    the
    # variables and quote the copies for generation of the libtool script.
    for var in echo old_CC old_CFLAGS AR AR_FLAGS EGREP RANLIB LN_S LTCC
    LTCFLAGS NM \
        SED SHELL STRIP \
        libname_spec library_names_spec soname_spec extract_expsyms_cmds \
        old_striplib striplib file_magic_cmd finish_cmds finish_eval \
        deplibs_check_method reload_flag reload_cmds need_locks \
        lt_cv_sys_global_symbol_pipe lt_cv_sys_global_symbol_to_cdecl \
        lt_cv_sys_global_symbol_to_c_name_address \
        sys_lib_search_path_spec sys_lib_dlsearch_path_spec \
        old_postinstall_cmds old_postuninstall_cmds \
        compiler_RC \
        CC_RC \
        LD_RC \
        lt_prog_compiler_wl_RC \
        lt_prog_compiler_pic_RC \
        lt_prog_compiler_static_RC \
        lt_prog_compiler_no_builtin_flag_RC \
        export_dynamic_flag_spec_RC \
        thread_safe_flag_spec_RC \
        whole_archive_flag_spec_RC \
        enable_shared_with_static_runtimes_RC \
        old_archive_cmds_RC \
        old_archive_from_new_cmds_RC \
        predep_objects_RC \
        postdep_objects_RC \
        predeps_RC \
        postdeps_RC \
        compiler_lib_search_path_RC \
        archive_cmds_RC \
        archive_expsym_cmds_RC \
        postinstall_cmds_RC \

```

```

postuninstall_cmds_RC \
old_archive_from_expsyms_cmds_RC \
allow_undefined_flag_RC \
no_undefined_flag_RC \
export_symbols_cmds_RC \
hardcode_libdir_flag_spec_RC \
hardcode_libdir_flag_spec_ld_RC \
hardcode_libdir_separator_RC \
hardcode_automatic_RC \
module_cmds_RC \
module_expsym_cmds_RC \
lt_cv_prog_compiler_c_o_RC \
exclude_expsyms_RC \
include_expsyms_RC; do

case $var in
old_archive_cmds_RC | \
old_archive_from_new_cmds_RC | \
archive_cmds_RC | \
archive_expsym_cmds_RC | \
module_cmds_RC | \
module_expsym_cmds_RC | \
old_archive_from_expsyms_cmds_RC | \
export_symbols_cmds_RC | \
extract_expsyms_cmds | reload_cmds | finish_cmds | \
postinstall_cmds | postuninstall_cmds | \
old_postinstall_cmds | old_postuninstall_cmds | \
sys_lib_search_path_spec | sys_lib_dlsearch_path_spec)
# Double-quote double-quoted strings.
eval "lt_$var=\\\"\\\"$echo \"X\\$var\" | \\Xsed -e
\\\"\\$double_quote_subst\" -e \\\"\\$sed_quote_subst\" -e
\\\"\\$delay_variable_subst\"\\\"\\\"\"
;;
*)
eval "lt_$var=\\\"\\\"$echo \"X\\$var\" | \\Xsed -e
\\\"\\$sed_quote_subst\"\\\"\\\"\"
;;
esac
done

case $lt_echo in
*\\$0 --fallback-echo*)
lt_echo=`$echo "X$lt_echo" | $Xsed -e 's/\\\\\\\\\\\\\\\\$0 --fallback-
echo\"$/$0 --fallback-echo\"/'`
;;
esac

cfgfile="$ofile"

cat <<__EOF__ >> "$cfgfile"
# ### BEGIN LIBTOOL TAG CONFIG: $tagname

# Libtool was configured on host `(hostname || uname -n) 2>/dev/null |
sed lq`:

```

```

# Shell to use when invoking shell scripts.
SHELL=${lt_SHELL}

# Whether or not to build shared libraries.
build_libtool_libs=${enable_shared}

# Whether or not to build static libraries.
build_old_libs=${enable_static}

# Whether or not to add -lc for building shared libraries.
build_libtool_need_lc=${archive_cmds_need_lc_RC}

# Whether or not to disallow shared libs when runtime libs are static
allow_libtool_libs_with_static_runtimes=${enable_shared_with_static_runtimes_RC}

# Whether or not to optimize for fast installation.
fast_install=${enable_fast_install}

# The host system.
host_alias=${host_alias}
host=${host}
host_os=${host_os}

# The build system.
build_alias=${build_alias}
build=${build}
build_os=${build_os}

# An echo program that does not interpret backslashes.
echo=${lt_echo}

# The archiver.
AR=${lt_AR}
AR_FLAGS=${lt_AR_FLAGS}

# A C compiler.
LTCC=${lt_LTCC}

# LTCC compiler flags.
LTCFLAGS=${lt_LTCFLAGS}

# A language-specific compiler.
CC=${lt_compiler_RC}

# Is the compiler the GNU C compiler?
with_gcc=${GCC_RC}

# An ERE matcher.
EGREP=${lt_EGREP}

# The linker used to build libraries.
LD=${lt_LD_RC}

```

```

# Whether we need hard or soft links.
LN_S=$lt_LN_S

# A BSD-compatible nm program.
NM=$lt_NM

# A symbol stripping program
STRIP=$lt_STRIP

# Used to examine libraries when file_magic_cmd begins "file"
MAGIC_CMD=$MAGIC_CMD

# Used on cygwin: DLL creation program.
DLLTOOL="$DLLTOOL"

# Used on cygwin: object dumper.
OBJDUMP="$OBJDUMP"

# Used on cygwin: assembler.
AS="$AS"

# The name of the directory that contains temporary libtool files.
objdir=$objdir

# How to create reloadable object files.
reload_flag=$lt_reload_flag
reload_cmds=$lt_reload_cmds

# How to pass a linker flag through the compiler.
wl=$lt_lt_prog_compiler_wl_RC

# Object file suffix (normally "o").
objext="$ac_objext"

# Old archive suffix (normally "a").
libext="$libext"

# Shared library suffix (normally ".so").
shrext_cmds='$shrext_cmds'

# Executable file suffix (normally "").
exeext="$exeext"

# Additional compiler flags for building library objects.
pic_flag=$lt_lt_prog_compiler_pic_RC
pic_mode=$pic_mode

# What is the maximum length of a command?
max_cmd_len=$lt_cv_sys_max_cmd_len

# Does compiler simultaneously support -c and -o options?
compiler_c_o=$lt_lt_cv_prog_compiler_c_o_RC

```

```

# Must we lock files when doing compilation?
need_locks=$lt_need_locks

# Do we need the lib prefix for modules?
need_lib_prefix=$need_lib_prefix

# Do we need a version for libraries?
need_version=$need_version

# Whether dlopen is supported.
dlopen_support=$enable_dlopen

# Whether dlopen of programs is supported.
dlopen_self=$enable_dlopen_self

# Whether dlopen of statically linked programs is supported.
dlopen_self_static=$enable_dlopen_self_static

# Compiler flag to prevent dynamic linking.
link_static_flag=$lt_lt_prog_compiler_static_RC

# Compiler flag to turn off builtin functions.
no_builtin_flag=$lt_lt_prog_compiler_no_builtin_flag_RC

# Compiler flag to allow reflexive dlopens.
export_dynamic_flag_spec=$lt_export_dynamic_flag_spec_RC

# Compiler flag to generate shared objects directly from archives.
whole_archive_flag_spec=$lt_whole_archive_flag_spec_RC

# Compiler flag to generate thread-safe objects.
thread_safe_flag_spec=$lt_thread_safe_flag_spec_RC

# Library versioning type.
version_type=$version_type

# Format of library name prefix.
libname_spec=$lt_libname_spec

# List of archive names.  First name is the real one, the rest are links.
# The last name is the one that the linker finds with -lNAME.
library_names_spec=$lt_library_names_spec

# The coded name of the library, if different from the real name.
soname_spec=$lt_soname_spec

# Commands used to build and install an old-style archive.
RANLIB=$lt_RANLIB
old_archive_cmds=$lt_old_archive_cmds_RC
old_postinstall_cmds=$lt_old_postinstall_cmds
old_postuninstall_cmds=$lt_old_postuninstall_cmds

# Create an old-style archive from a shared archive.
old_archive_from_new_cmds=$lt_old_archive_from_new_cmds_RC

```

```

# Create a temporary old-style archive to link instead of a shared
archive.
old_archive_from_expsyms_cmds=$lt_old_archive_from_expsyms_cmds_RC

# Commands used to build and install a shared archive.
archive_cmds=$lt_archive_cmds_RC
archive_expsym_cmds=$lt_archive_expsym_cmds_RC
postinstall_cmds=$lt_postinstall_cmds
postuninstall_cmds=$lt_postuninstall_cmds

# Commands used to build a loadable module (assumed same as above if
empty)
module_cmds=$lt_module_cmds_RC
module_expsym_cmds=$lt_module_expsym_cmds_RC

# Commands to strip libraries.
old_striplib=$lt_old_striplib
striplib=$lt_striplib

# Dependencies to place before the objects being linked to create a
# shared library.
predep_objects=$lt_predep_objects_RC

# Dependencies to place after the objects being linked to create a
# shared library.
postdep_objects=$lt_postdep_objects_RC

# Dependencies to place before the objects being linked to create a
# shared library.
predeps=$lt_predeps_RC

# Dependencies to place after the objects being linked to create a
# shared library.
postdeps=$lt_postdeps_RC

# The library search path used internally by the compiler when linking
# a shared library.
compiler_lib_search_path=$lt_compiler_lib_search_path_RC

# Method to check whether dependent libraries are shared objects.
deplibs_check_method=$lt_deplibs_check_method

# Command to use when deplibs_check_method == file_magic.
file_magic_cmd=$lt_file_magic_cmd

# Flag that allows shared libraries with undefined symbols to be built.
allow_undefined_flag=$lt_allow_undefined_flag_RC

# Flag that forces no undefined symbols.
no_undefined_flag=$lt_no_undefined_flag_RC

# Commands used to finish a libtool library installation in a directory.
finish_cmds=$lt_finish_cmds

```



```

# Same as above, but a single script fragment to be eval'd but not shown.
finish_eval=$lt_finish_eval

# Take the output of nm and produce a listing of raw symbols and C names.
global_symbol_pipe=$lt_lt_cv_sys_global_symbol_pipe

# Transform the output of nm in a proper C declaration
global_symbol_to_cdecl=$lt_lt_cv_sys_global_symbol_to_cdecl

# Transform the output of nm in a C name address pair
global_symbol_to_c_name_address=$lt_lt_cv_sys_global_symbol_to_c_name_address

# This is the shared library runtime path variable.
runpath_var=$runpath_var

# This is the shared library path variable.
shlibpath_var=$shlibpath_var

# Is shlibpath searched before the hard-coded library search path?
shlibpath_overrides_runpath=$shlibpath_overrides_runpath

# How to hardcode a shared library path into an executable.
hardcode_action=$hardcode_action_RC

# Whether we should hardcode library paths into libraries.
hardcode_into_libs=$hardcode_into_libs

# Flag to hardcode \${libdir} into a binary during linking.
# This must work even if \${libdir} does not exist.
hardcode_libdir_flag_spec=$lt_hardcode_libdir_flag_spec_RC

# If ld is used when linking, flag to hardcode \${libdir} into
# a binary during linking. This must work even if \${libdir} does
# not exist.
hardcode_libdir_flag_spec_ld=$lt_hardcode_libdir_flag_spec_ld_RC

# Whether we need a single -rpath flag with a separated argument.
hardcode_libdir_separator=$lt_hardcode_libdir_separator_RC

# Set to yes if using DIR/libNAME${shared_ext} during linking hardcodes
# DIR into the
# resulting binary.
hardcode_direct=$hardcode_direct_RC

# Set to yes if using the -LDIR flag during linking hardcodes DIR into
# the
# resulting binary.
hardcode_minus_L=$hardcode_minus_L_RC

# Set to yes if using SHLIBPATH_VAR=DIR during linking hardcodes DIR into
# the resulting binary.
hardcode_shlibpath_var=$hardcode_shlibpath_var_RC

```

```

# Set to yes if building a shared library automatically hardcodes DIR
into the library
# and all subsequent libraries and executables linked against it.
hardcode_automatic=$hardcode_automatic_RC

# Variables whose values should be saved in libtool wrapper scripts and
# restored at relink time.
variables_saved_for_relink="$variables_saved_for_relink"

# Whether libtool must link a program against all its dependency
libraries.
link_all_deplibs=$link_all_deplibs_RC

# Compile-time system search path for libraries
sys_lib_search_path_spec=$lt_sys_lib_search_path_spec

# Run-time system search path for libraries
sys_lib_dlsearch_path_spec=$lt_sys_lib_dlsearch_path_spec

# Fix the shell variable \${srcfile} for the compiler.
fix_srcfile_path="$fix_srcfile_path_RC"

# Set to yes if exported symbols are required.
always_export_symbols=$always_export_symbols_RC

# The commands to list exported symbols.
export_symbols_cmds=$lt_export_symbols_cmds_RC

# The commands to extract the exported symbol list from a shared archive.
extract_expsyms_cmds=$lt_extract_expsyms_cmds

# Symbols that should not be listed in the preloaded symbols.
exclude_expsyms=$lt_exclude_expsyms_RC

# Symbols that must always be exported.
include_expsyms=$lt_include_expsyms_RC

# ### END LIBTOOL TAG CONFIG: $tagname

__EOF__

```

```

else
  # If there is no Makefile yet, we rely on a make rule to execute
  # `config.status --recheck' to rerun these tests and create the
  # libtool script then.
  ltmain_in=`echo $ltmain | sed -e 's/\.sh$/\.in/'`
  if test -f "$ltmain_in"; then
    test -f Makefile && make "$ltmain"
  fi
fi

```

```

ac_ext=c
ac_cpp='$CPP $CPPFLAGS'
ac_compile='$CC -c $CFLAGS $CPPFLAGS conftest.$ac_ext >&5'
ac_link='$CC -o conftest$ac_exeext $CFLAGS $CPPFLAGS $LDFLAGS
conftest.$ac_ext $LIBS >&5'
ac_compiler_gnu=$ac_cv_c_compiler_gnu

CC="$lt_save_CC"

;;

*)
{ { echo "$as_me:$LINENO: error: Unsupported tag name: $tagname"
>&5
echo "$as_me: error: Unsupported tag name: $tagname" >&2;}
{ (exit 1); exit 1; }; }
;;
esac

# Append the new tag name to the list of available tags.
if test -n "$tagname" ; then
  available_tags="$available_tags $tagname"
fi
fi
done
IFS="$lt_save_ifs"

# Now substitute the updated list of available tags.
if eval "sed -e
's/^available_tags=.*\$/available_tags=\"\$available_tags\$/\" \"$ofile\" >
\"${ofile}T\""; then
  mv "${ofile}T" "$ofile"
  chmod +x "$ofile"
else
  rm -f "${ofile}T"
  { { echo "$as_me:$LINENO: error: unable to update list of available
tagged configurations." >&5
echo "$as_me: error: unable to update list of available tagged
configurations." >&2;}
  { (exit 1); exit 1; }; }
fi
fi

# This can be used to rebuild libtool when needed
LIBTOOL_DEPS="$ac_aux_dir/ltmain.sh"

# Always use our own libtool.
LIBTOOL='$(SHELL) $(top_builddir)/libtool'

# Prevent multiple expansion

```

```

# Checks for programs.
ac_ext=c
ac_cpp='$CPP $CPPFLAGS'
ac_compile='$CC -c $CFLAGS $CPPFLAGS conftest.$ac_ext >&5'
ac_link='$CC -o conftest$ac_exeext $CFLAGS $CPPFLAGS $LDFLAGS
conftest.$ac_ext $LIBS >&5'
ac_compiler_gnu=$ac_cv_c_compiler_gnu
if test -n "$ac_tool_prefix"; then
  # Extract the first word of "${ac_tool_prefix}gcc", so it can be a
  program name with args.
  set dummy ${ac_tool_prefix}gcc; ac_word=$2
  echo "$as_me:$LINENO: checking for $ac_word" >&5
  echo $ECHO_N "checking for $ac_word... $ECHO_C" >&6
  if test "${ac_cv_prog_CC+set}" = set; then
    echo $ECHO_N "(cached) $ECHO_C" >&6
  else
    if test -n "$CC"; then
      ac_cv_prog_CC="$CC" # Let the user override the test.
    else
      as_save_IFS=$IFS; IFS=$PATH_SEPARATOR
      for as_dir in $PATH
      do
        IFS=$as_save_IFS
        test -z "$as_dir" && as_dir=.
        for ac_exec_ext in '' $ac_executable_extensions; do
          if $as_executable_p "$as_dir/$ac_word$ac_exec_ext"; then
            ac_cv_prog_CC="${ac_tool_prefix}gcc"
            echo "$as_me:$LINENO: found $as_dir/$ac_word$ac_exec_ext" >&5
            break 2
          fi
        done
      done
    fi
  fi
fi

```

```

CC=$ac_cv_prog_CC
if test -n "$CC"; then
  echo "$as_me:$LINENO: result: $CC" >&5
  echo "${ECHO_T}$CC" >&6
else
  echo "$as_me:$LINENO: result: no" >&5
  echo "${ECHO_T}no" >&6
fi

fi

if test -z "$ac_cv_prog_CC"; then
  ac_ct_CC=$CC
  # Extract the first word of "gcc", so it can be a program name with
  args.
  set dummy gcc; ac_word=$2
  echo "$as_me:$LINENO: checking for $ac_word" >&5
  echo $ECHO_N "checking for $ac_word... $ECHO_C" >&6
  if test "${ac_cv_prog_ac_ct_CC+set}" = set; then
    echo $ECHO_N "(cached) $ECHO_C" >&6
  else
    if test -n "$ac_ct_CC"; then
      ac_cv_prog_ac_ct_CC="$ac_ct_CC" # Let the user override the test.
    else
      as_save_IFS=$IFS; IFS=$PATH_SEPARATOR
      for as_dir in $PATH
      do
        IFS=$as_save_IFS
        test -z "$as_dir" && as_dir=.
        for ac_exec_ext in ' $ac_executable_extensions; do
          if $as_executable_p "$as_dir/$ac_word$ac_exec_ext"; then
            ac_cv_prog_ac_ct_CC="gcc"
            echo "$as_me:$LINENO: found $as_dir/$ac_word$ac_exec_ext" >&5
            break 2
          fi
        done
      done
    fi

    ac_ct_CC=$ac_cv_prog_ac_ct_CC
    if test -n "$ac_ct_CC"; then
      echo "$as_me:$LINENO: result: $ac_ct_CC" >&5
      echo "${ECHO_T}$ac_ct_CC" >&6
    else
      echo "$as_me:$LINENO: result: no" >&5
      echo "${ECHO_T}no" >&6
    fi

    CC=$ac_ct_CC
  else
    CC="$ac_cv_prog_CC"
  fi

  if test -z "$CC"; then

```

```

    if test -n "$ac_tool_prefix"; then
      # Extract the first word of "${ac_tool_prefix}cc", so it can be a
program name with args.
      set dummy ${ac_tool_prefix}cc; ac_word=$2
      echo "$as_me:$LINENO: checking for $ac_word" >&5
      echo $ECHO_N "checking for $ac_word... $ECHO_C" >&6
      if test "${ac_cv_prog_CC+set}" = set; then
        echo $ECHO_N "(cached) $ECHO_C" >&6
      else
        if test -n "$CC"; then
          ac_cv_prog_CC="$CC" # Let the user override the test.
        else
          as_save_IFS=$IFS; IFS=$PATH_SEPARATOR
          for as_dir in $PATH
          do
            IFS=$as_save_IFS
            test -z "$as_dir" && as_dir=.
            for ac_exec_ext in ' $ac_executable_extensions; do
              if $as_executable_p "$as_dir/$ac_word$ac_exec_ext"; then
                ac_cv_prog_CC="${ac_tool_prefix}cc"
                echo "$as_me:$LINENO: found $as_dir/$ac_word$ac_exec_ext" >&5
                break 2
              fi
            done
          done
          fi

          fi
          CC=$ac_cv_prog_CC
          if test -n "$CC"; then
            echo "$as_me:$LINENO: result: $CC" >&5
            echo "${ECHO_T}$CC" >&6
          else
            echo "$as_me:$LINENO: result: no" >&5
            echo "${ECHO_T}no" >&6
          fi
          fi

          fi
          if test -z "$ac_cv_prog_CC"; then
            ac_ct_CC=$CC
            # Extract the first word of "cc", so it can be a program name with
args.
            set dummy cc; ac_word=$2
            echo "$as_me:$LINENO: checking for $ac_word" >&5
            echo $ECHO_N "checking for $ac_word... $ECHO_C" >&6
            if test "${ac_cv_prog_ac_ct_CC+set}" = set; then
              echo $ECHO_N "(cached) $ECHO_C" >&6
            else
              if test -n "$ac_ct_CC"; then
                ac_cv_prog_ac_ct_CC="$ac_ct_CC" # Let the user override the test.
              else
                as_save_IFS=$IFS; IFS=$PATH_SEPARATOR
                for as_dir in $PATH
                do

```

```

IFS=$as_save_IFS
test -z "$as_dir" && as_dir=.
for ac_exec_ext in ' $ac_executable_extensions; do
if $as_executable_p "$as_dir/$ac_word$ac_exec_ext"; then
  ac_cv_prog_ac_ct_CC="cc"
  echo "$as_me:$LINENO: found $as_dir/$ac_word$ac_exec_ext" >&5
  break 2
fi
done
done

fi
fi
ac_ct_CC=$ac_cv_prog_ac_ct_CC
if test -n "$ac_ct_CC"; then
  echo "$as_me:$LINENO: result: $ac_ct_CC" >&5
echo "${ECHO_T}$ac_ct_CC" >&6
else
  echo "$as_me:$LINENO: result: no" >&5
echo "${ECHO_T}no" >&6
fi

  CC=$ac_ct_CC
else
  CC="$ac_cv_prog_CC"
fi

fi
if test -z "$CC"; then
  # Extract the first word of "cc", so it can be a program name with
  args.
  set dummy cc; ac_word=$2
  echo "$as_me:$LINENO: checking for $ac_word" >&5
  echo $ECHO_N "checking for $ac_word... $ECHO_C" >&6
  if test "${ac_cv_prog_CC+set}" = set; then
    echo $ECHO_N "(cached) $ECHO_C" >&6
  else
    if test -n "$CC"; then
      ac_cv_prog_CC="$CC" # Let the user override the test.
    else
      ac_prog_rejected=no
      as_save_IFS=$IFS; IFS=$PATH_SEPARATOR
      for as_dir in $PATH
      do
        IFS=$as_save_IFS
        test -z "$as_dir" && as_dir=.
        for ac_exec_ext in ' $ac_executable_extensions; do
          if $as_executable_p "$as_dir/$ac_word$ac_exec_ext"; then
            if test "$as_dir/$ac_word$ac_exec_ext" = "/usr/ucb/cc"; then
              ac_prog_rejected=yes
              continue
            fi
            ac_cv_prog_CC="cc"
            echo "$as_me:$LINENO: found $as_dir/$ac_word$ac_exec_ext" >&5

```

```

        break 2
    fi
done
done

if test $ac_prog_rejected = yes; then
    # We found a bogon in the path, so make sure we never use it.
    set dummy $ac_cv_prog_CC
    shift
    if test $# != 0; then
        # We chose a different compiler from the bogus one.
        # However, it has the same basename, so the bogon will be chosen
        # first if we set CC to just the basename; use the full file name.
        shift
        ac_cv_prog_CC="$as_dir/$ac_word${1+' '}$@"
    fi
fi
fi
fi
CC=$ac_cv_prog_CC
if test -n "$CC"; then
    echo "$as_me:$LINENO: result: $CC" >&5
    echo "${ECHO_T}$CC" >&6
else
    echo "$as_me:$LINENO: result: no" >&5
    echo "${ECHO_T}no" >&6
fi

fi
if test -z "$CC"; then
    if test -n "$ac_tool_prefix"; then
        for ac_prog in cl
        do
            # Extract the first word of "$ac_tool_prefix$ac_prog", so it can be a
            # program name with args.
            set dummy $ac_tool_prefix$ac_prog; ac_word=$2
            echo "$as_me:$LINENO: checking for $ac_word" >&5
            echo $ECHO_N "checking for $ac_word... $ECHO_C" >&6
            if test "${ac_cv_prog_CC+set}" = set; then
                echo $ECHO_N "(cached) $ECHO_C" >&6
            else
                if test -n "$CC"; then
                    ac_cv_prog_CC="$CC" # Let the user override the test.
                else
                    as_save_IFS=$IFS; IFS=$PATH_SEPARATOR
                    for as_dir in $PATH
                    do
                        IFS=$as_save_IFS
                        test -z "$as_dir" && as_dir=.
                        for ac_exec_ext in ' $ac_executable_extensions; do
                            if $as_executable_p "$as_dir/$ac_word$ac_exec_ext"; then
                                ac_cv_prog_CC="$ac_tool_prefix$ac_prog"
                                echo "$as_me:$LINENO: found $as_dir/$ac_word$ac_exec_ext" >&5
                                break 2
                            fi
                        done
                    done
                fi
            fi
        done
    fi
fi

```



```

    fi
done
done

fi
fi
CC=$ac_cv_prog_CC
if test -n "$CC"; then
    echo "$as_me:$LINENO: result: $CC" >&5
    echo "${ECHO_T}$CC" >&6
else
    echo "$as_me:$LINENO: result: no" >&5
    echo "${ECHO_T}no" >&6
fi

    test -n "$CC" && break
done
fi
if test -z "$CC"; then
    ac_ct_CC=$CC
    for ac_prog in cl
do
    # Extract the first word of "$ac_prog", so it can be a program name
    with args.
    set dummy $ac_prog; ac_word=$2
    echo "$as_me:$LINENO: checking for $ac_word" >&5
    echo $ECHO_N "checking for $ac_word... $ECHO_C" >&6
    if test "${ac_cv_prog_ac_ct_CC+set}" = set; then
        echo $ECHO_N "(cached) $ECHO_C" >&6
    else
        if test -n "$ac_ct_CC"; then
            ac_cv_prog_ac_ct_CC="$ac_ct_CC" # Let the user override the test.
        else
as_save_IFS=$IFS; IFS=$PATH_SEPARATOR
for as_dir in $PATH
do
    IFS=$as_save_IFS
    test -z "$as_dir" && as_dir=.
    for ac_exec_ext in ' $ac_executable_extensions; do
    if $as_executable_p "$as_dir/$ac_word$ac_exec_ext"; then
        ac_cv_prog_ac_ct_CC="$ac_prog"
        echo "$as_me:$LINENO: found $as_dir/$ac_word$ac_exec_ext" >&5
        break 2
    fi
done
done

fi
fi
ac_ct_CC=$ac_cv_prog_ac_ct_CC
if test -n "$ac_ct_CC"; then
    echo "$as_me:$LINENO: result: $ac_ct_CC" >&5
    echo "${ECHO_T}$ac_ct_CC" >&6
else

```

```

    echo "$as_me:$LINENO: result: no" >&5
echo "${ECHO_T}no" >&6
fi

    test -n "$ac_ct_CC" && break
done

    CC=$ac_ct_CC
fi

fi

test -z "$CC" && { { echo "$as_me:$LINENO: error: no acceptable C
compiler found in \${PATH}
See \`config.log' for more details." >&5
echo "$as_me: error: no acceptable C compiler found in \${PATH}
See \`config.log' for more details." >&2;}
    { (exit 1); exit 1; }; }

# Provide some information about the compiler.
echo "$as_me:$LINENO:" \
    "checking for C compiler version" >&5
ac_compiler=`set X $ac_compile; echo $2`
{ (eval echo "$as_me:$LINENO: \"$ac_compiler --version </dev/null >&5\"")
>&5
    (eval $ac_compiler --version </dev/null >&5) 2>&5
    ac_status=$?
    echo "$as_me:$LINENO: \${?} = $ac_status" >&5
    (exit $ac_status); }
{ (eval echo "$as_me:$LINENO: \"$ac_compiler -v </dev/null >&5\"") >&5
    (eval $ac_compiler -v </dev/null >&5) 2>&5
    ac_status=$?
    echo "$as_me:$LINENO: \${?} = $ac_status" >&5
    (exit $ac_status); }
{ (eval echo "$as_me:$LINENO: \"$ac_compiler -V </dev/null >&5\"") >&5
    (eval $ac_compiler -V </dev/null >&5) 2>&5
    ac_status=$?
    echo "$as_me:$LINENO: \${?} = $ac_status" >&5
    (exit $ac_status); }

echo "$as_me:$LINENO: checking whether we are using the GNU C compiler"
>&5
echo $ECHO_N "checking whether we are using the GNU C compiler...
$ECHO_C" >&6
if test "${ac_cv_c_compiler_gnu+set}" = set; then
    echo $ECHO_N "(cached) $ECHO_C" >&6
else
    cat >confdefs.$ac_ext <<_ACEOF
/* confdefs.h. */
_ACEOF
cat confdefs.h >>confdefs.$ac_ext
cat >>confdefs.$ac_ext <<_ACEOF
/* end confdefs.h. */

```

```

int
main ()
{
#ifdef __GNUC__
    choke me
#endif

    ;
    return 0;
}
_ACEOF
rm -f confptest.$ac_objext
if { (eval echo "$as_me:$LINENO: \"$ac_compile\"" >&5
      (eval $ac_compile) 2>confptest.erl
      ac_status=$?
      grep -v '^ *+' confptest.erl >confptest.err
      rm -f confptest.erl
      cat confptest.err >&5
      echo "$as_me:$LINENO: \ $? = $ac_status" >&5
      (exit $ac_status); } &&
    { ac_try='test -z "$ac_c_werror_flag"
              || test ! -s confptest.err'
      { (eval echo "$as_me:$LINENO: \"$ac_try\"" >&5
        (eval $ac_try) 2>&5
        ac_status=$?
        echo "$as_me:$LINENO: \ $? = $ac_status" >&5
        (exit $ac_status); }; } &&
      { ac_try='test -s confptest.$ac_objext'
        { (eval echo "$as_me:$LINENO: \"$ac_try\"" >&5
          (eval $ac_try) 2>&5
          ac_status=$?
          echo "$as_me:$LINENO: \ $? = $ac_status" >&5
          (exit $ac_status); }; }; then
        ac_compiler_gnu=yes
      else
        echo "$as_me: failed program was:" >&5
        sed 's/^/| /' confptest.$ac_ext >&5

        ac_compiler_gnu=no
      fi
      rm -f confptest.err confptest.$ac_objext confptest.$ac_ext
      ac_cv_c_compiler_gnu=$ac_compiler_gnu

      fi
      echo "$as_me:$LINENO: result: $ac_cv_c_compiler_gnu" >&5
      echo "${ECHO_T}$ac_cv_c_compiler_gnu" >&6
      GCC=`test $ac_compiler_gnu = yes && echo yes`
      ac_test_CFLAGS=${CFLAGS+set}
      ac_save_CFLAGS=$CFLAGS
      CFLAGS="-g"
      echo "$as_me:$LINENO: checking whether $CC accepts -g" >&5
      echo $ECHO_N "checking whether $CC accepts -g... $ECHO_C" >&6
      if test "${ac_cv_prog_cc_g+set}" = set; then

```

```

    echo $ECHO_N "(cached) $ECHO_C" >&6
else
    cat >confptest.$ac_ext <<_ACEOF
/* confdefs.h. */
_ACEOF
cat confdefs.h >>confptest.$ac_ext
cat >>confptest.$ac_ext <<_ACEOF
/* end confdefs.h. */

int
main ()
{

    ;
    return 0;
}
_ACEOF
rm -f confptest.$ac_objext
if { (eval echo "$as_me:$LINENO: \"$ac_compile\"" >&5
      (eval $ac_compile) 2>confptest.er1
      ac_status=$?
      grep -v '^ *+' confptest.er1 >confptest.err
      rm -f confptest.er1
      cat confptest.err >&5
      echo "$as_me:$LINENO: \ $? = $ac_status" >&5
      (exit $ac_status); } &&
      { ac_try='test -z "$ac_c_werror_flag"
              || test ! -s confptest.err'
      { (eval echo "$as_me:$LINENO: \"$ac_try\"" >&5
        (eval $ac_try) 2>&5
        ac_status=$?
        echo "$as_me:$LINENO: \ $? = $ac_status" >&5
        (exit $ac_status); }; } &&
      { ac_try='test -s confptest.$ac_objext'
      { (eval echo "$as_me:$LINENO: \"$ac_try\"" >&5
        (eval $ac_try) 2>&5
        ac_status=$?
        echo "$as_me:$LINENO: \ $? = $ac_status" >&5
        (exit $ac_status); }; }; } then
    ac_cv_prog_cc_g=yes
else
    echo "$as_me: failed program was:" >&5
    sed 's/^/| /' confptest.$ac_ext >&5

ac_cv_prog_cc_g=no
fi
rm -f confptest.err confptest.$ac_objext confptest.$ac_ext
fi
echo "$as_me:$LINENO: result: $ac_cv_prog_cc_g" >&5
echo "${ECHO_T}$ac_cv_prog_cc_g" >&6
if test "$ac_test_CFLAGS" = set; then
    CFLAGS=$ac_save_CFLAGS
elif test $ac_cv_prog_cc_g = yes; then
    if test "$GCC" = yes; then

```

```

        CFLAGS="-g -O2"
    else
        CFLAGS="-g"
    fi
else
    if test "$GCC" = yes; then
        CFLAGS="-O2"
    else
        CFLAGS=
    fi
fi
echo "$as_me:$LINENO: checking for $CC option to accept ANSI C" >&5
echo $ECHO_N "checking for $CC option to accept ANSI C... $ECHO_C" >&6
if test "${ac_cv_prog_cc_stdcc+set}" = set; then
    echo $ECHO_N "(cached) $ECHO_C" >&6
else
    ac_cv_prog_cc_stdcc=no
    ac_save_CC=$CC
    cat >conftest.$ac_ext <<_ACEOF
/* confdefs.h. */
_ACEOF
cat confdefs.h >>conftest.$ac_ext
cat >>conftest.$ac_ext <<_ACEOF
/* end confdefs.h. */
#include <stdarg.h>
#include <stdio.h>
#include <sys/types.h>
#include <sys/stat.h>
/* Most of the following tests are stolen from RCS 5.7's src/conf.sh. */
struct buf { int x; };
FILE * (*rcsopen) (struct buf *, struct stat *, int);
static char *e (p, i)
    char **p;
    int i;
{
    return p[i];
}
static char *f (char * (*g) (char **, int), char **p, ...)
{
    char *s;
    va_list v;
    va_start (v,p);
    s = g (p, va_arg (v,int));
    va_end (v);
    return s;
}

/* OSF 4.0 Compaq cc is some sort of almost-ANSI by default.  It has
function prototypes and stuff, but not '\xHH' hex character constants.
These don't provoke an error unfortunately, instead are silently
treated
as 'x'.  The following induces an error, until -std1 is added to get
proper ANSI mode.  Curiously '\x00'!='x' always comes out true, for an

```

```

    array size at least. It's necessary to write '\x00'==0 to get
something
    that's true only with -std1. */
int osf4_cc_array ['\x00' == 0 ? 1 : -1];

int test (int i, double x);
struct s1 {int (*f) (int a);};
struct s2 {int (*f) (double a);};
int pairnames (int, char **, FILE *(*)(struct buf *, struct stat *, int),
int, int);
int argc;
char **argv;
int
main ()
{
return f (e, argv, 0) != argv[0] || f (e, argv, 1) != argv[1];
;
return 0;
}
_ACEOF
# Don't try gcc -ansi; that turns off useful extensions and
# breaks some systems' header files.
# AIX          -qlanglvl=ansi
# Ultrix and OSF/1      -std1
# HP-UX 10.20 and later      -Ae
# HP-UX older versions -Aa -D_HPUX_SOURCE
# SVR4          -Xc -D__EXTENSIONS__
for ac_arg in "" -qlanglvl=ansi -std1 -Ae "-Aa -D_HPUX_SOURCE" "-Xc -
D__EXTENSIONS__"
do
    CC="$ac_save_CC $ac_arg"
    rm -f confptest.$ac_objext
if { (eval echo "$as_me:$LINENO: \"$ac_compile\"" ) >&5
    (eval $ac_compile) 2>confptest.er1
    ac_status=$?
    grep -v '^ *+' confptest.er1 >confptest.err
    rm -f confptest.er1
    cat confptest.err >&5
    echo "$as_me:$LINENO: \$? = $ac_status" >&5
    (exit $ac_status); } &&
    { ac_try='test -z "$ac_c_werror_flag"
    || test ! -s confptest.err'
    { (eval echo "$as_me:$LINENO: \"$ac_try\"" ) >&5
    (eval $ac_try) 2>&5
    ac_status=$?
    echo "$as_me:$LINENO: \$? = $ac_status" >&5
    (exit $ac_status); }; } &&
    { ac_try='test -s confptest.$ac_objext'
    { (eval echo "$as_me:$LINENO: \"$ac_try\"" ) >&5
    (eval $ac_try) 2>&5
    ac_status=$?
    echo "$as_me:$LINENO: \$? = $ac_status" >&5
    (exit $ac_status); }; }; } then
    ac_cv_prog_cc_stdcc=$ac_arg

```

```

break
else
    echo "$as_me: failed program was:" >&5
    sed 's/^/| /' conftest.$ac_ext >&5

fi
rm -f conftest.err conftest.$ac_objext
done
rm -f conftest.$ac_ext conftest.$ac_objext
CC=$ac_save_CC

fi

case "x$ac_cv_prog_cc_stdc" in
    x|jno)
        echo "$as_me:$LINENO: result: none needed" >&5
        echo "${ECHO_T}none needed" >&6 ;;
    *)
        echo "$as_me:$LINENO: result: $ac_cv_prog_cc_stdc" >&5
        echo "${ECHO_T}$ac_cv_prog_cc_stdc" >&6
        CC="$CC $ac_cv_prog_cc_stdc" ;;
esac

# Some people use a C++ compiler to compile C.  Since we use `exit',
# in C++ we need to declare it.  In case someone uses the same compiler
# for both compiling C and C++ we need to have the C++ compiler decide
# the declaration of exit, since it's the most demanding environment.
cat >conftest.$ac_ext <<_ACEOF
#ifdef __cplusplus
    choke me
#endif
_ACEOF
rm -f conftest.$ac_objext
if { (eval echo "$as_me:$LINENO: \"\$ac_compile\"") >&5
    (eval $ac_compile) 2>conftest.er1
    ac_status=$?
    grep -v '^ *+' conftest.er1 >conftest.err
    rm -f conftest.er1
    cat conftest.err >&5
    echo "$as_me:$LINENO: \$? = $ac_status" >&5
    (exit $ac_status); } &&
    { ac_try='test -z "$ac_c_werror_flag"
    || test ! -s conftest.err'
    { (eval echo "$as_me:$LINENO: \"\$ac_try\"") >&5
    (eval $ac_try) 2>&5
    ac_status=$?
    echo "$as_me:$LINENO: \$? = $ac_status" >&5
    (exit $ac_status); }; } &&
    { ac_try='test -s conftest.$ac_objext'
    { (eval echo "$as_me:$LINENO: \"\$ac_try\"") >&5
    (eval $ac_try) 2>&5
    ac_status=$?
    echo "$as_me:$LINENO: \$? = $ac_status" >&5
    (exit $ac_status); }; }; then

```

```

for ac_declaration in \
'' \
'extern "C" void std::exit (int) throw (); using std::exit;' \
'extern "C" void std::exit (int); using std::exit;' \
'extern "C" void exit (int) throw ();' \
'extern "C" void exit (int);' \
'void exit (int);'
do
cat >confptest.$ac_ext <<_ACEOF
/* confdefs.h. */
_ACEOF
cat confdefs.h >>confptest.$ac_ext
cat >>confptest.$ac_ext <<_ACEOF
/* end confdefs.h. */
$ac_declaration
#include <stdlib.h>
int
main ()
{
exit (42);
;
return 0;
}
_ACEOF
rm -f confptest.$ac_objext
if { (eval echo "$as_me:$LINENO: \"$ac_compile\"" ) >&5
(eval $ac_compile) 2>confptest.er1
ac_status=$?
grep -v '^ *+' confptest.er1 >confptest.err
rm -f confptest.er1
cat confptest.err >&5
echo "$as_me:$LINENO: \$? = $ac_status" >&5
(exit $ac_status); } &&
{ ac_try='test -z "$ac_c_werror_flag"
|| test ! -s confptest.err'
{ (eval echo "$as_me:$LINENO: \"$ac_try\"" ) >&5
(eval $ac_try) 2>&5
ac_status=$?
echo "$as_me:$LINENO: \$? = $ac_status" >&5
(exit $ac_status); }; } &&
{ ac_try='test -s confptest.$ac_objext'
{ (eval echo "$as_me:$LINENO: \"$ac_try\"" ) >&5
(eval $ac_try) 2>&5
ac_status=$?
echo "$as_me:$LINENO: \$? = $ac_status" >&5
(exit $ac_status); }; }; then
:
else
echo "$as_me: failed program was:" >&5
sed 's/^/| /' confptest.$ac_ext >&5

continue
fi
rm -f confptest.err confptest.$ac_objext confptest.$ac_ext

```



```

    cat >confptest.$ac_ext <<_ACEOF
/* confdefs.h. */
_ACEOF
cat confdefs.h >>confptest.$ac_ext
cat >>confptest.$ac_ext <<_ACEOF
/* end confdefs.h. */
$ac_declaration
int
main ()
{
exit (42);
;
return 0;
}
_ACEOF
rm -f confptest.$ac_objext
if { (eval echo "$as_me:$LINENO: \"$ac_compile\"" >&5
(eval $ac_compile) 2>confptest.erl
ac_status=$?
grep -v '^ *+' confptest.erl >confptest.err
rm -f confptest.erl
cat confptest.err >&5
echo "$as_me:$LINENO: \ $? = $ac_status" >&5
(exit $ac_status); } &&
{ ac_try='test -z "$ac_c_werror_flag"
|| test ! -s confptest.err'
{ (eval echo "$as_me:$LINENO: \"$ac_try\"" >&5
(eval $ac_try) 2>&5
ac_status=$?
echo "$as_me:$LINENO: \ $? = $ac_status" >&5
(exit $ac_status); }; } &&
{ ac_try='test -s confptest.$ac_objext'
{ (eval echo "$as_me:$LINENO: \"$ac_try\"" >&5
(eval $ac_try) 2>&5
ac_status=$?
echo "$as_me:$LINENO: \ $? = $ac_status" >&5
(exit $ac_status); }; }; } then
break
else
echo "$as_me: failed program was:" >&5
sed 's/^/| /' confptest.$ac_ext >&5

fi
rm -f confptest.err confptest.$ac_objext confptest.$ac_ext
done
rm -f confptest*
if test -n "$ac_declaration"; then
echo '#ifdef __cplusplus' >>confdefs.h
echo $ac_declaration >>confdefs.h
echo '#endif' >>confdefs.h
fi

else
echo "$as_me: failed program was:" >&5

```

```

sed 's/^/| /' conftest.$ac_ext >&5

fi
rm -f conftest.err conftest.$ac_objext conftest.$ac_ext
ac_ext=c
ac_cpp='$CPP $CPPFLAGS'
ac_compile='$CC -c $CFLAGS $CPPFLAGS conftest.$ac_ext >&5'
ac_link='$CC -o conftest$ac_exeext $CFLAGS $CPPFLAGS $LDFLAGS
conftest.$ac_ext $LIBS >&5'
ac_compiler_gnu=$ac_cv_c_compiler_gnu

depcc="$CC"   am_compiler_list=

echo "$as_me:$LINENO: checking dependency style of $depcc" >&5
echo $ECHO_N "checking dependency style of $depcc... $ECHO_C" >&6
if test "${am_cv_CC_dependencies_compiler_type+set}" = set; then
  echo $ECHO_N "(cached) $ECHO_C" >&6
else
  if test -z "$SAMDEP_TRUE" && test -f "$am_depcomp"; then
    # We make a subdir and do the tests there.  Otherwise we can end up
    # making bogus files that we don't know about and never remove.  For
    # instance it was reported that on HP-UX the gcc test will end up
    # making a dummy file named `D' -- because `-MD' means `put the output
    # in D'.
    mkdir conftest.dir
    # Copy depcomp to subdir because otherwise we won't find it if we're
    # using a relative directory.
    cp "$am_depcomp" conftest.dir
    cd conftest.dir
    # We will build objects and dependencies in a subdirectory because
    # it helps to detect inapplicable dependency modes.  For instance
    # both Tru64's cc and ICC support -MD to output dependencies as a
    # side effect of compilation, but ICC will put the dependencies in
    # the current directory while Tru64 will put them in the object
    # directory.
    mkdir sub

    am_cv_CC_dependencies_compiler_type=none
    if test "$am_compiler_list" = ""; then
      am_compiler_list=`sed -n 's/^#*\([a-zA-Z0-9]*\))$/\1/p' < ./depcomp`
    fi
    for depmode in $am_compiler_list; do
      # Setup a source with many dependencies, because some compilers
      # like to wrap large dependency lists on column 80 (with \), and
      # we should not choose a depcomp mode which is confused by this.
      #
      # We need to recreate these files for each test, as the compiler may
      # overwrite some of them when testing with obscure command lines.
      # This happens at least with the AIX C compiler.
      : > sub/conftest.c
      for i in 1 2 3 4 5 6; do
        echo '#include "conftst'$i'.h"' >> sub/conftest.c
        # Using `: > sub/conftst$i.h' creates only sub/conftst1.h with
        # Solaris 8's {/usr,}/bin/sh.

```

```

    touch sub/confstst$i.h
done
echo "${am__include} ${am__quote}sub/confstest.Po${am__quote}" >
confmf

case $depmode in
nosideeffect)
    # after this tag, mechanisms are not by side-effect, so they'll
    # only be used when explicitly requested
    if test "x$enable_dependency_tracking" = xyes; then
        continue
    else
        break
    fi
    ;;
none) break ;;
esac
# We check with '-c' and '-o' for the sake of the "dashmstdout"
# mode. It turns out that the SunPro C++ compiler does not properly
# handle '-M -o', and we need to detect this.
if depmode=$depmode \
    source=sub/confstest.c object=sub/confstest.${OBJEXT-o} \
    depfile=sub/confstest.Po tmpdepfile=sub/confstest.TPo \
    $SHELL ./depcomp $depcc -c -o sub/confstest.${OBJEXT-o}
sub/confstest.c \
    >/dev/null 2>confstest.err &&
    grep sub/confstst6.h sub/confstest.Po > /dev/null 2>&1 &&
    grep sub/confstest.${OBJEXT-o} sub/confstest.Po > /dev/null 2>&1 &&
    ${MAKE-make} -s -f confmf > /dev/null 2>&1; then
    # icc doesn't choke on unknown options, it will just issue warnings
    # or remarks (even with -Werror). So we grep stderr for any
message
    # that says an option was ignored or not supported.
    # When given -MP, icc 7.0 and 7.1 complain thusly:
    # icc: Command line warning: ignoring option '-M'; no argument
required
    # The diagnosis changed in icc 8.0:
    # icc: Command line remark: option '-MP' not supported
    if (grep 'ignoring option' confstest.err ||
        grep 'not supported' confstest.err) >/dev/null 2>&1; then ;;
else
    am_cv_CC_dependencies_compiler_type=$depmode
    break
fi
fi
done

cd ..
rm -rf confstest.dir
else
    am_cv_CC_dependencies_compiler_type=none
fi

fi

```

```

echo "$as_me:$LINENO: result: $am_cv_CC_dependencies_compiler_type" >&5
echo "${ECHO_T}$am_cv_CC_dependencies_compiler_type" >&6
CCDEPMODE=depmode=$am_cv_CC_dependencies_compiler_type

if
  test "x$enable_dependency_tracking" != xno \
  && test "$am_cv_CC_dependencies_compiler_type" = gcc3; then
  am__fastdepCC_TRUE=
  am__fastdepCC_FALSE='#'
else
  am__fastdepCC_TRUE='#'
  am__fastdepCC_FALSE=
fi

# Find a good install program.  We prefer a C program (faster),
# so one script is as good as another.  But avoid the broken or
# incompatible versions:
# SysV /etc/install, /usr/sbin/install
# SunOS /usr/etc/install
# IRIX /sbin/install
# AIX /bin/install
# AmigaOS /C/install, which installs bootblocks on floppy discs
# AIX 4 /usr/bin/installbsd, which doesn't work without a -g flag
# AFS /usr/afsws/bin/install, which mishandles nonexistent args
# SVR4 /usr/ucb/install, which tries to use the nonexistent group "staff"
# OS/2's system install, which has a completely different semantic
# ./install, which can be erroneously created by make from ./install.sh.
echo "$as_me:$LINENO: checking for a BSD-compatible install" >&5
echo $ECHO_N "checking for a BSD-compatible install... $ECHO_C" >&6
if test -z "$INSTALL"; then
if test "${ac_cv_path_install+set}" = set; then
  echo $ECHO_N "(cached) $ECHO_C" >&6
else
  as_save_IFS=$IFS; IFS=$PATH_SEPARATOR
  for as_dir in $PATH
  do
    IFS=$as_save_IFS
    test -z "$as_dir" && as_dir=.
    # Account for people who put trailing slashes in PATH elements.
    case $as_dir/ in
      ./ | ../ | /cC/* | \
      /etc/* | /usr/sbin/* | /usr/etc/* | /sbin/* | /usr/afsws/bin/* | \
      ?:\|/os2\|/install\|/* | ?:\|/OS2\|/INSTALL\|/* | \
      /usr/ucb/* ) ;;
      *)
        # OSF1 and SCO ODT 3.0 have their own names for install.
        # Don't use installbsd from OSF since it installs stuff as root
        # by default.
        for ac_prog in ginstall scoinst install; do
          for ac_exec_ext in ' $ac_executable_extensions; do
            if $as_executable_p "$as_dir/$ac_prog$ac_exec_ext"; then

```

```

    if test $ac_prog = install &&
      grep dspmsg "$as_dir/$ac_prog$ac_exec_ext" >/dev/null 2>&1;
then
    # AIX install. It has an incompatible calling convention.
    :
    elif test $ac_prog = install &&
      grep pwplus "$as_dir/$ac_prog$ac_exec_ext" >/dev/null 2>&1;
then
    # program-specific install script used by HP pwplus--don't use.
    :
    else
      ac_cv_path_install="$as_dir/$ac_prog$ac_exec_ext -c"
      break 3
    fi
  fi
done
done
;;
esac
done

```

```

fi
if test "${ac_cv_path_install+set}" = set; then
  INSTALL=$ac_cv_path_install
else
  # As a last resort, use the slow shell script. We don't cache a
  # path for INSTALL within a source directory, because that will
  # break other packages using the cache if that directory is
  # removed, or if the path is relative.
  INSTALL=$ac_install_sh
fi
fi
echo "$as_me:$LINENO: result: $INSTALL" >&5
echo "${ECHO_T}$INSTALL" >&6

# Use test -z because SunOS4 sh mishandles braces in ${var-val}.
# It thinks the first close brace ends the variable substitution.
test -z "$INSTALL_PROGRAM" && INSTALL_PROGRAM='${INSTALL}'

test -z "$INSTALL_SCRIPT" && INSTALL_SCRIPT='${INSTALL}'

test -z "$INSTALL_DATA" && INSTALL_DATA='${INSTALL} -m 644'

echo "$as_me:$LINENO: checking whether ln -s works" >&5
echo $ECHO_N "checking whether ln -s works... $ECHO_C" >&6
LN_S=$as_ln_s
if test "$LN_S" = "ln -s"; then
  echo "$as_me:$LINENO: result: yes" >&5
  echo "${ECHO_T}yes" >&6
else
  echo "$as_me:$LINENO: result: no, using $LN_S" >&5
  echo "${ECHO_T}no, using $LN_S" >&6
fi

```

```

echo "$as_me:$LINENO: checking whether ${MAKE-make} sets \$(MAKE)" >&5
echo $ECHO_N "checking whether ${MAKE-make} sets \$(MAKE)... $ECHO_C" >&6
set dummy ${MAKE-make}; ac_make=`echo "$2" | sed 'y,./+,-,___p,,'\`
if eval "test \"\${ac_cv_prog_make_${ac_make}_set+set}\" = set"; then
  echo $ECHO_N "(cached) $ECHO_C" >&6
else
  cat >conftest.make <<\_ACEOF
all:
  @echo 'ac_maketemp="\$(MAKE) "'
\_ACEOF
# GNU make sometimes prints "make[1]: Entering...", which would confuse
us.
eval ` ${MAKE-make} -f conftest.make 2>/dev/null | grep temp=`
if test -n "$ac_maketemp"; then
  eval ac_cv_prog_make_${ac_make}_set=yes
else
  eval ac_cv_prog_make_${ac_make}_set=no
fi
rm -f conftest.make
fi
if eval "test \"`echo '$ac_cv_prog_make_${ac_make}_set`\" = yes"; then
  echo "$as_me:$LINENO: result: yes" >&5
echo "${ECHO_T}yes" >&6
  SET_MAKE=
else
  echo "$as_me:$LINENO: result: no" >&5
echo "${ECHO_T}no" >&6
  SET_MAKE="MAKE=${MAKE-make}"
fi

if test -n "$ac_tool_prefix"; then
  # Extract the first word of "${ac_tool_prefix}ranlib", so it can be a
program name with args.
set dummy ${ac_tool_prefix}ranlib; ac_word=$2
echo "$as_me:$LINENO: checking for $ac_word" >&5
echo $ECHO_N "checking for $ac_word... $ECHO_C" >&6
if test "${ac_cv_prog_RANLIB+set}" = set; then
  echo $ECHO_N "(cached) $ECHO_C" >&6
else
  if test -n "$RANLIB"; then
    ac_cv_prog_RANLIB="$RANLIB" # Let the user override the test.
  else
as_save_IFS=$IFS; IFS=$PATH_SEPARATOR
for as_dir in $PATH
do
  IFS=$as_save_IFS
  test -z "$as_dir" && as_dir=.
  for ac_exec_ext in ' $ac_executable_extensions; do
  if $as_executable_p "$as_dir/$ac_word$ac_exec_ext"; then
    ac_cv_prog_RANLIB="${ac_tool_prefix}ranlib"
    echo "$as_me:$LINENO: found $as_dir/$ac_word$ac_exec_ext" >&5
    break 2
  fi
fi

```

```

done
done

fi
fi
RANLIB=$ac_cv_prog_RANLIB
if test -n "$RANLIB"; then
  echo "$as_me:$LINENO: result: $RANLIB" >&5
  echo "${ECHO_T}$RANLIB" >&6
else
  echo "$as_me:$LINENO: result: no" >&5
  echo "${ECHO_T}no" >&6
fi

fi
if test -z "$ac_cv_prog_RANLIB"; then
  ac_ct_RANLIB=$RANLIB
  # Extract the first word of "ranlib", so it can be a program name with
  args.
  set dummy ranlib; ac_word=$2
  echo "$as_me:$LINENO: checking for $ac_word" >&5
  echo $ECHO_N "checking for $ac_word... $ECHO_C" >&6
  if test "${ac_cv_prog_ac_ct_RANLIB+set}" = set; then
    echo $ECHO_N "(cached) $ECHO_C" >&6
  else
    if test -n "$ac_ct_RANLIB"; then
      ac_cv_prog_ac_ct_RANLIB="$ac_ct_RANLIB" # Let the user override the
      test.
    else
      as_save_IFS=$IFS; IFS=$PATH_SEPARATOR
      for as_dir in $PATH
      do
        IFS=$as_save_IFS
        test -z "$as_dir" && as_dir=.
        for ac_exec_ext in ' $ac_executable_extensions; do
          if $as_executable_p "$as_dir/$ac_word$ac_exec_ext"; then
            ac_cv_prog_ac_ct_RANLIB="ranlib"
            echo "$as_me:$LINENO: found $as_dir/$ac_word$ac_exec_ext" >&5
            break 2
          fi
        done
      done
      test -z "$ac_cv_prog_ac_ct_RANLIB" && ac_cv_prog_ac_ct_RANLIB=":"
    fi
  fi
  ac_ct_RANLIB=$ac_cv_prog_ac_ct_RANLIB
  if test -n "$ac_ct_RANLIB"; then
    echo "$as_me:$LINENO: result: $ac_ct_RANLIB" >&5
    echo "${ECHO_T}$ac_ct_RANLIB" >&6
  else
    echo "$as_me:$LINENO: result: no" >&5
    echo "${ECHO_T}no" >&6
  fi
fi

```

```

    RANLIB=$ac_ct_RANLIB
else
    RANLIB="$ac_cv_prog_RANLIB"
fi

for ac_prog in gawk mawk nawk awk
do
    # Extract the first word of "$ac_prog", so it can be a program name
    with args.
    set dummy $ac_prog; ac_word=$2
    echo "$as_me:$LINENO: checking for $ac_word" >&5
    echo $ECHO_N "checking for $ac_word...$ECHO_C" >&6
    if test "${ac_cv_prog_AWK+set}" = set; then
        echo $ECHO_N "(cached) $ECHO_C" >&6
    else
        if test -n "$AWK"; then
            ac_cv_prog_AWK="$AWK" # Let the user override the test.
        else
            as_save_IFS=$IFS; IFS=$PATH_SEPARATOR
            for as_dir in $PATH
            do
                IFS=$as_save_IFS
                test -z "$as_dir" && as_dir=.
                for ac_exec_ext in ' $ac_executable_extensions; do
                    if $as_executable_p "$as_dir/$ac_word$ac_exec_ext"; then
                        ac_cv_prog_AWK="$ac_prog"
                        echo "$as_me:$LINENO: found $as_dir/$ac_word$ac_exec_ext" >&5
                        break 2
                    fi
                done
            done
        fi
    fi
done
done

fi
fi
AWK=$ac_cv_prog_AWK
if test -n "$AWK"; then
    echo "$as_me:$LINENO: result: $AWK" >&5
    echo "${ECHO_T}$AWK" >&6
else
    echo "$as_me:$LINENO: result: no" >&5
    echo "${ECHO_T}no" >&6
fi

    test -n "$AWK" && break
done

# Checks for header files.

```



```

ac_header_dirent=no
for ac_hdr in dirent.h sys/ndir.h sys/dir.h ndir.h; do
  as_ac_Header=`echo "ac_cv_header_dirent_$ac_hdr" | $as_tr_sh`
  echo "$as_me:$LINENO: checking for $ac_hdr that defines DIR" >&5
  echo $ECHO_N "checking for $ac_hdr that defines DIR... $ECHO_C" >&6
  if eval "test \"\${$as_ac_Header+set}\" = set"; then
    echo $ECHO_N "(cached) $ECHO_C" >&6
  else
    cat >conftest.$ac_ext <<_ACEOF
/* confdefs.h. */
_ACEOF
cat confdefs.h >>conftest.$ac_ext
cat >>conftest.$ac_ext <<_ACEOF
/* end confdefs.h. */
#include <sys/types.h>
#include <$ac_hdr>

int
main ()
{
if ((DIR *) 0)
return 0;
;
return 0;
}
_ACEOF
rm -f conftest.$ac_objext
if { (eval echo "$as_me:$LINENO: \"$ac_compile\"") >&5
  (eval $ac_compile) 2>conftest.er1
  ac_status=$?
  grep -v '^ *+' conftest.er1 >conftest.err
  rm -f conftest.er1
  cat conftest.err >&5
  echo "$as_me:$LINENO: \$? = $ac_status" >&5
  (exit $ac_status); } &&
  { ac_try='test -z "$ac_c_werror_flag"
  || test ! -s conftest.err'
  { (eval echo "$as_me:$LINENO: \"$ac_try\"") >&5
  (eval $ac_try) 2>&5
  ac_status=$?
  echo "$as_me:$LINENO: \$? = $ac_status" >&5
  (exit $ac_status); }; } &&
  { ac_try='test -s conftest.$ac_objext'
  { (eval echo "$as_me:$LINENO: \"$ac_try\"") >&5
  (eval $ac_try) 2>&5
  ac_status=$?
  echo "$as_me:$LINENO: \$? = $ac_status" >&5
  (exit $ac_status); }; }; } then
  eval "$as_ac_Header=yes"
else
  echo "$as_me: failed program was:" >&5
  sed 's/^/| /' conftest.$ac_ext >&5

eval "$as_ac_Header=no"

```

```

fi
rm -f confptest.err confptest.$_sac_objext confptest.$_sac_ext
fi
echo "$_sac_me:$LINENO: result: `eval echo '${$_sac_ac_Header}'`" >&5
echo "${ECHO_T}`eval echo '${$_sac_ac_Header}'`" >&6
if test `eval echo '${$_sac_ac_Header}'` = yes; then
    cat >>confdefs.h <<_ACEOF
#define `echo "HAVE_$_sac_hdr" | $_sac_tr_cpp` 1
_ACEOF

ac_header_dirent=$_sac_hdr; break
fi

done
# Two versions of opendir et al. are in -ldir and -lx on SCO Xenix.
if test $_sac_header_dirent = dirent.h; then
    echo "$_sac_me:$LINENO: checking for library containing opendir" >&5
    echo $ECHO_N "checking for library containing opendir... $ECHO_C" >&6
    if test "${ac_cv_search_opendir+set}" = set; then
        echo $ECHO_N "(cached) $ECHO_C" >&6
    else
        ac_func_search_save_LIBS=$LIBS
        ac_cv_search_opendir=no
        cat >confptest.$_sac_ext <<_ACEOF
/* confdefs.h. */
_ACEOF
        cat confdefs.h >>confptest.$_sac_ext
        cat >>confptest.$_sac_ext <<_ACEOF
/* end confdefs.h. */

/* Override any gcc2 internal prototype to avoid an error. */
#ifdef __cplusplus
extern "C"
#endif
/* We use char because int might match the return type of a gcc2
    builtin and then its argument prototype would still apply. */
char opendir ();
int
main ()
{
    opendir ();
    ;
    return 0;
}
_ACEOF
rm -f confptest.$_sac_objext confptest$_sac_exeext
if { (eval echo "$_sac_me:$LINENO: \"$_sac_link\"") >&5
    (eval $_sac_link) 2>confptest.er1
    ac_status=$?
    grep -v '^ *+' confptest.er1 >confptest.err
    rm -f confptest.er1
    cat confptest.err >&5
    echo "$_sac_me:$LINENO: \$_? = $_sac_status" >&5
    (exit $_sac_status); } &&

```

```

        { ac_try='test -z "$ac_c_werror_flag"
          || test ! -s conftest.err'
    { (eval echo "$as_me:$LINENO: \"$ac_try\"") >&5
      (eval $ac_try) 2>&5
      ac_status=$?
      echo "$as_me:$LINENO: \ $? = $ac_status" >&5
      (exit $ac_status); }; } &&
        { ac_try='test -s conftest$ac_exeext'
    { (eval echo "$as_me:$LINENO: \"$ac_try\"") >&5
      (eval $ac_try) 2>&5
      ac_status=$?
      echo "$as_me:$LINENO: \ $? = $ac_status" >&5
      (exit $ac_status); }; }; then
      ac_cv_search_opendir="none required"
    else
      echo "$as_me: failed program was:" >&5
      sed 's/^/| /' conftest.$ac_ext >&5

fi
rm -f conftest.err conftest.$ac_objext \
    conftest$ac_exeext conftest.$ac_ext
if test "$ac_cv_search_opendir" = no; then
  for ac_lib in dir; do
    LIBS="-l$ac_lib $ac_func_search_save_LIBS"
    cat >conftest.$ac_ext <<_ACEOF
/* confdefs.h. */
_ACEOF
cat confdefs.h >>conftest.$ac_ext
cat >>conftest.$ac_ext <<_ACEOF
/* end confdefs.h. */

/* Override any gcc2 internal prototype to avoid an error. */
#ifdef __cplusplus
extern "C"
#endif
/* We use char because int might match the return type of a gcc2
   builtin and then its argument prototype would still apply. */
char opendir ();
int
main ()
{
  opendir ();
  ;
  return 0;
}
_ACEOF
rm -f conftest.$ac_objext conftest$ac_exeext
if { (eval echo "$as_me:$LINENO: \"$ac_link\"") >&5
      (eval $ac_link) 2>conftest.er1
      ac_status=$?
      grep -v '^ *+' conftest.er1 >conftest.err
      rm -f conftest.er1
      cat conftest.err >&5
      echo "$as_me:$LINENO: \ $? = $ac_status" >&5

```

```

(exit $ac_status); } &&
    { ac_try='test -z "$ac_c_werror_flag"
        || test ! -s conftest.err'
    { (eval echo "$as_me:$LINENO: \"$ac_try\"") >&5
      (eval $ac_try) 2>&5
      ac_status=$?
      echo "$as_me:$LINENO: \ $? = $ac_status" >&5
      (exit $ac_status); }; } &&
    { ac_try='test -s conftest$ac_exeext'
    { (eval echo "$as_me:$LINENO: \"$ac_try\"") >&5
      (eval $ac_try) 2>&5
      ac_status=$?
      echo "$as_me:$LINENO: \ $? = $ac_status" >&5
      (exit $ac_status); }; }; then
    ac_cv_search_opendir="-l$ac_lib"
break
else
    echo "$as_me: failed program was:" >&5
    sed 's/^/| /' conftest.$ac_ext >&5

fi
rm -f conftest.err conftest.$ac_objext \
    conftest$ac_exeext conftest.$ac_ext
done
fi
LIBS=$ac_func_search_save_LIBS
fi
echo "$as_me:$LINENO: result: $ac_cv_search_opendir" >&5
echo "${ECHO_T}$ac_cv_search_opendir" >&6
if test "$ac_cv_search_opendir" != no; then
    test "$ac_cv_search_opendir" = "none required" ||
LIBS="$ac_cv_search_opendir $LIBS"

fi

else
    echo "$as_me:$LINENO: checking for library containing opendir" >&5
    echo $ECHO_N "checking for library containing opendir... $ECHO_C" >&6
    if test "${ac_cv_search_opendir+set}" = set; then
        echo $ECHO_N "(cached) $ECHO_C" >&6
    else
        ac_func_search_save_LIBS=$LIBS
        ac_cv_search_opendir=no
        cat >conftest.$ac_ext <<_ACEOF
        /* confdefs.h. */
        _ACEOF
        cat confdefs.h >>conftest.$ac_ext
        cat >>conftest.$ac_ext <<_ACEOF
        /* end confdefs.h. */

        /* Override any gcc2 internal prototype to avoid an error. */
#ifdef __cplusplus
extern "C"
#endif

```

```

/* We use char because int might match the return type of a gcc2
   builtin and then its argument prototype would still apply. */
char opendir ();
int
main ()
{
  opendir ();
  ;
  return 0;
}
_ACEOF
rm -f confptest.$ac_objext confptest$ac_exeext
if { (eval echo "$as_me:$LINENO: \"$ac_link\"" ) >&5
      (eval $ac_link) 2>confptest.er1
      ac_status=$?
      grep -v '^ *+' confptest.er1 >confptest.err
      rm -f confptest.er1
      cat confptest.err >&5
      echo "$as_me:$LINENO: \ $? = $ac_status" >&5
      (exit $ac_status); } &&
    { ac_try='test -z "$ac_c_werror_flag"
              || test ! -s confptest.err'
      { (eval echo "$as_me:$LINENO: \"$ac_try\"" ) >&5
        (eval $ac_try) 2>&5
        ac_status=$?
        echo "$as_me:$LINENO: \ $? = $ac_status" >&5
        (exit $ac_status); }; } &&
    { ac_try='test -s confptest$ac_exeext'
      { (eval echo "$as_me:$LINENO: \"$ac_try\"" ) >&5
        (eval $ac_try) 2>&5
        ac_status=$?
        echo "$as_me:$LINENO: \ $? = $ac_status" >&5
        (exit $ac_status); }; }; then
      ac_cv_search_opendir="none required"
    else
      echo "$as_me: failed program was:" >&5
      sed 's/^/| /' confptest.$ac_ext >&5

fi
rm -f confptest.err confptest.$ac_objext \
    confptest$ac_exeext confptest.$ac_ext
if test "$ac_cv_search_opendir" = no; then
  for ac_lib in x; do
    LIBS="-l$ac_lib $ac_func_search_save_LIBS"
    cat >confptest.$ac_ext <<_ACEOF
/* confdefs.h. */
_ACEOF
cat confdefs.h >>confptest.$ac_ext
cat >>confptest.$ac_ext <<_ACEOF
/* end confdefs.h. */

/* Override any gcc2 internal prototype to avoid an error. */
#ifdef __cplusplus
extern "C"

```

```

#endif
/* We use char because int might match the return type of a gcc2
   builtin and then its argument prototype would still apply. */
char opendir ();
int
main ()
{
  opendir ();
  ;
  return 0;
}
_ACEOF
rm -f confptest.$ac_objext confptest$ac_exeext
if { (eval echo "$as_me:$LINENO: \"$ac_link\"" ) >&5
      (eval $ac_link) 2>confptest.er1
      ac_status=$?
      grep -v '^ *+' confptest.er1 >confptest.err
      rm -f confptest.er1
      cat confptest.err >&5
      echo "$as_me:$LINENO: \ $? = $ac_status" >&5
      (exit $ac_status); } &&
    { ac_try='test -z "$ac_c_werror_flag"
              || test ! -s confptest.err'
      { (eval echo "$as_me:$LINENO: \"$ac_try\"" ) >&5
        (eval $ac_try) 2>&5
        ac_status=$?
        echo "$as_me:$LINENO: \ $? = $ac_status" >&5
        (exit $ac_status); }; } &&
      { ac_try='test -s confptest$ac_exeext'
        { (eval echo "$as_me:$LINENO: \"$ac_try\"" ) >&5
          (eval $ac_try) 2>&5
          ac_status=$?
          echo "$as_me:$LINENO: \ $? = $ac_status" >&5
          (exit $ac_status); }; }; then
        ac_cv_search_opendir="-l$ac_lib"
      break
    else
      echo "$as_me: failed program was:" >&5
      sed 's/^/| /' confptest.$ac_ext >&5

    fi
  rm -f confptest.err confptest.$ac_objext \
        confptest$ac_exeext confptest.$ac_ext
  done
fi
LIBS=$ac_func_search_save_LIBS
fi
echo "$as_me:$LINENO: result: $ac_cv_search_opendir" >&5
echo "${ECHO_T}$ac_cv_search_opendir" >&6
if test "$ac_cv_search_opendir" != no; then
  test "$ac_cv_search_opendir" = "none required" ||
  LIBS="$ac_cv_search_opendir $LIBS"
fi

```

```

fi

echo "$as_me:$LINENO: checking for ANSI C header files" >&5
echo $ECHO_N "checking for ANSI C header files... $ECHO_C" >&6
if test "${ac_cv_header_stdclib+set}" = set; then
  echo $ECHO_N "(cached) $ECHO_C" >&6
else
  cat >confptest.$ac_ext <<_ACEOF
/* confdefs.h. */
_ACEOF
cat confdefs.h >>confptest.$ac_ext
cat >>confptest.$ac_ext <<_ACEOF
/* end confdefs.h. */
#include <stdlib.h>
#include <stdarg.h>
#include <string.h>
#include <float.h>

int
main ()
{

  ;
  return 0;
}
_ACEOF
rm -f confptest.$ac_objext
if { (eval echo "$as_me:$LINENO: \"$ac_compile\"") >&5
  (eval $ac_compile) 2>confptest.er1
  ac_status=$?
  grep -v '^ *+' confptest.er1 >confptest.err
  rm -f confptest.er1
  cat confptest.err >&5
  echo "$as_me:$LINENO: \ $? = $ac_status" >&5
  (exit $ac_status); } &&
  { ac_try='test -z "$ac_c_werror_flag"
  || test ! -s confptest.err'
  { (eval echo "$as_me:$LINENO: \"$ac_try\"") >&5
  (eval $ac_try) 2>&5
  ac_status=$?
  echo "$as_me:$LINENO: \ $? = $ac_status" >&5
  (exit $ac_status); }; } &&
  { ac_try='test -s confptest.$ac_objext'
  { (eval echo "$as_me:$LINENO: \"$ac_try\"") >&5
  (eval $ac_try) 2>&5
  ac_status=$?
  echo "$as_me:$LINENO: \ $? = $ac_status" >&5
  (exit $ac_status); }; }; } then
  ac_cv_header_stdclib=yes
else
  echo "$as_me: failed program was:" >&5
  sed 's/^/| /' confptest.$ac_ext >&5

```

```

ac_cv_header_stdcl=no
fi
rm -f conftest.err conftest.$ac_objext conftest.$ac_ext

if test $ac_cv_header_stdcl = yes; then
  # SunOS 4.x string.h does not declare mem*, contrary to ANSI.
  cat >conftest.$ac_ext <<_ACEOF
/* confdefs.h. */
_ACEOF
cat confdefs.h >>conftest.$ac_ext
cat >>conftest.$ac_ext <<_ACEOF
/* end confdefs.h. */
#include <string.h>

_ACEOF
if (eval "$ac_cpp conftest.$ac_ext") 2>&5 |
  $EGREP "memchr" >/dev/null 2>&1; then
  :
else
  ac_cv_header_stdcl=no
fi
rm -f conftest*

fi

if test $ac_cv_header_stdcl = yes; then
  # ISC 2.0.2 stdlib.h does not declare free, contrary to ANSI.
  cat >conftest.$ac_ext <<_ACEOF
/* confdefs.h. */
_ACEOF
cat confdefs.h >>conftest.$ac_ext
cat >>conftest.$ac_ext <<_ACEOF
/* end confdefs.h. */
#include <stdlib.h>

_ACEOF
if (eval "$ac_cpp conftest.$ac_ext") 2>&5 |
  $EGREP "free" >/dev/null 2>&1; then
  :
else
  ac_cv_header_stdcl=no
fi
rm -f conftest*

fi

if test $ac_cv_header_stdcl = yes; then
  # /bin/cc in Irix-4.0.5 gets non-ANSI ctype macros unless using -ansi.
  if test "$cross_compiling" = yes; then
  :
else
  cat >conftest.$ac_ext <<_ACEOF
/* confdefs.h. */
_ACEOF

```



```

cat confdefs.h >>conftest.$ac_ext
cat >>conftest.$ac_ext <<_ACEOF
/* end confdefs.h. */
#include <ctype.h>
#if ((' ' & 0x0FF) == 0x020)
# define ISLOWER(c) ('a' <= (c) && (c) <= 'z')
# define TOUPPER(c) (ISLOWER(c) ? 'A' + ((c) - 'a') : (c))
#else
# define ISLOWER(c) \
    (('a' <= (c) && (c) <= 'i') \
    || ('j' <= (c) && (c) <= 'r') \
    || ('s' <= (c) && (c) <= 'z'))
# define TOUPPER(c) (ISLOWER(c) ? ((c) | 0x40) : (c))
#endif

#define XOR(e, f) (((e) && !(f)) || (!(e) && (f)))
int
main ()
{
    int i;
    for (i = 0; i < 256; i++)
        if (XOR (islower (i), ISLOWER (i))
            || toupper (i) != TOUPPER (i))
            exit(2);
    exit (0);
}
_ACEOF
rm -f conftest$ac_exeext
if { (eval echo "$as_me:$LINENO: \"$ac_link\"" >&5
      (eval $ac_link) 2>&5
      ac_status=$?
      echo "$as_me:$LINENO: \$? = $ac_status" >&5
      (exit $ac_status); } && { ac_try='./conftest$ac_exeext'
      { (eval echo "$as_me:$LINENO: \"$ac_try\"" >&5
        (eval $ac_try) 2>&5
        ac_status=$?
        echo "$as_me:$LINENO: \$? = $ac_status" >&5
        (exit $ac_status); }; }; then
:
else
    echo "$as_me: program exited with status $ac_status" >&5
    echo "$as_me: failed program was:" >&5
    sed 's/^/| /' conftest.$ac_ext >&5

( exit $ac_status )
ac_cv_header_stdcl=no
fi
rm -f core *.core gmon.out bb.out conftest$ac_exeext conftest.$ac_objext
conftest.$ac_ext
fi
fi
fi
echo "$as_me:$LINENO: result: $ac_cv_header_stdcl" >&5
echo "${ECHO_T}$ac_cv_header_stdcl" >&6

```

```

if test $ac_cv_header_stdcl = yes; then

cat >>confdefs.h <<\_ACEOF
#define STDC_HEADERS 1
\_ACEOF

fi

for ac_header in fcntl.h malloc.h stdlib.h string.h unistd.h
do
as_ac_Header=`echo "ac_cv_header_$ac_header" | $as_tr_sh`
if eval "test \"\${$as_ac_Header+set}\" = set"; then
  echo "$as_me:$LINENO: checking for $ac_header" >&5
  echo $ECHO_N "checking for $ac_header... $ECHO_C" >&6
  if eval "test \"\${$as_ac_Header+set}\" = set"; then
    echo $ECHO_N "(cached) $ECHO_C" >&6
  fi
  echo "$as_me:$LINENO: result: `eval echo '${'$as_ac_Header'}'`" >&5
  echo "${ECHO_T}`eval echo '${'$as_ac_Header'}'`" >&6
else
  # Is the header compilable?
  echo "$as_me:$LINENO: checking $ac_header usability" >&5
  echo $ECHO_N "checking $ac_header usability... $ECHO_C" >&6
  cat >conftest.$ac_ext <<_ACEOF
/* confdefs.h. */
\_ACEOF
cat confdefs.h >>conftest.$ac_ext
cat >>conftest.$ac_ext <<_ACEOF
/* end confdefs.h. */
$ac_includes_default
#include <$ac_header>
\_ACEOF
rm -f conftest.$ac_objext
if { (eval echo "$as_me:$LINENO: \"$ac_compile\"") >&5
  (eval $ac_compile) 2>conftest.er1
  ac_status=$?
  grep -v '^ *+' conftest.er1 >conftest.err
  rm -f conftest.er1
  cat conftest.err >&5
  echo "$as_me:$LINENO: \ $? = $ac_status" >&5
  (exit $ac_status); } &&
  { ac_try='test -z "$ac_c_werror_flag"
  || test ! -s conftest.err'
  { (eval echo "$as_me:$LINENO: \"$ac_try\"") >&5
  (eval $ac_try) 2>&5
  ac_status=$?
  echo "$as_me:$LINENO: \ $? = $ac_status" >&5
  (exit $ac_status); }; } &&
  { ac_try='test -s conftest.$ac_objext'

```

```

    { (eval echo "$as_me:$LINENO: \"\$ac_try\"") >&5
      (eval $ac_try) 2>&5
      ac_status=$?
      echo "$as_me:$LINENO: \$? = $ac_status" >&5
      (exit $ac_status); }; }; then
      ac_header_compiler=yes
    else
      echo "$as_me: failed program was:" >&5
      sed 's/^/| /' conftest.$ac_ext >&5

ac_header_compiler=no
fi
rm -f conftest.err conftest.$ac_objext conftest.$ac_ext
echo "$as_me:$LINENO: result: $ac_header_compiler" >&5
echo "${ECHO_T}$ac_header_compiler" >&6

# Is the header present?
echo "$as_me:$LINENO: checking $ac_header presence" >&5
echo $ECHO_N "checking $ac_header presence... $ECHO_C" >&6
cat >conftest.$ac_ext <<_ACEOF
/* confdefs.h. */
_ACEOF
cat confdefs.h >>conftest.$ac_ext
cat >>conftest.$ac_ext <<_ACEOF
/* end confdefs.h. */
#include <$ac_header>
_ACEOF
if { (eval echo "$as_me:$LINENO: \"\$ac_cpp conftest.$ac_ext\"") >&5
      (eval $ac_cpp conftest.$ac_ext) 2>conftest.er1
      ac_status=$?
      grep -v '^ *+' conftest.er1 >conftest.err
      rm -f conftest.er1
      cat conftest.err >&5
      echo "$as_me:$LINENO: \$? = $ac_status" >&5
      (exit $ac_status); } >/dev/null; then
      if test -s conftest.err; then
        ac_cpp_err=$ac_c_preproc_warn_flag
        ac_cpp_err=$ac_cpp_err$ac_c_werror_flag
      else
        ac_cpp_err=
      fi
    else
      ac_cpp_err=yes
    fi
  if test -z "$ac_cpp_err"; then
    ac_header_preproc=yes
  else
    echo "$as_me: failed program was:" >&5
    sed 's/^/| /' conftest.$ac_ext >&5

    ac_header_preproc=no
  fi
  rm -f conftest.err conftest.$ac_ext
  echo "$as_me:$LINENO: result: $ac_header_preproc" >&5

```

```

echo "${ECHO_T}$ac_header_preproc" >&6

# So? What about this header?
case $ac_header_compiler:$ac_header_preproc:$ac_c_preproc_warn_flag in
  yes:no: )
    { echo "$as_me:$LINENO: WARNING: $ac_header: accepted by the
compiler, rejected by the preprocessor!" >&5
echo "$as_me: WARNING: $ac_header: accepted by the compiler, rejected by
the preprocessor!" >&2;}
    { echo "$as_me:$LINENO: WARNING: $ac_header: proceeding with the
compiler's result" >&5
echo "$as_me: WARNING: $ac_header: proceeding with the compiler's result"
>&2;}
    ac_header_preproc=yes
    ;;
  no:yes:* )
    { echo "$as_me:$LINENO: WARNING: $ac_header: present but cannot be
compiled" >&5
echo "$as_me: WARNING: $ac_header: present but cannot be compiled" >&2;}
    { echo "$as_me:$LINENO: WARNING: $ac_header:
check for missing
prerequisite headers?" >&5
echo "$as_me: WARNING: $ac_header:
check for missing prerequisite
headers?" >&2;}
    { echo "$as_me:$LINENO: WARNING: $ac_header: see the Autoconf
documentation" >&5
echo "$as_me: WARNING: $ac_header: see the Autoconf documentation" >&2;}
    { echo "$as_me:$LINENO: WARNING: $ac_header:
section \"Present
But Cannot Be Compiled\"" >&5
echo "$as_me: WARNING: $ac_header:
section \"Present But Cannot Be
Compiled\"" >&2;}
    { echo "$as_me:$LINENO: WARNING: $ac_header: proceeding with the
preprocessor's result" >&5
echo "$as_me: WARNING: $ac_header: proceeding with the preprocessor's
result" >&2;}
    { echo "$as_me:$LINENO: WARNING: $ac_header: in the future, the
compiler will take precedence" >&5
echo "$as_me: WARNING: $ac_header: in the future, the compiler will take
precedence" >&2;}
    (
      cat <<\_ASBOX
## ----- ##
## Report this to linux-diag-devel@lists.sourceforge.net ##
## ----- ##
\_ASBOX
    ) |
      sed "s/^\/$as_me: WARNING: /" >&2
    ;;
esac
echo "$as_me:$LINENO: checking for $ac_header" >&5
echo $ECHO_N "checking for $ac_header... $ECHO_C" >&6
if eval "test \"\${$as_ac_Header+set}\" = set"; then
  echo $ECHO_N "(cached) $ECHO_C" >&6
else
  eval "$as_ac_Header=\$ac_header_preproc"

```

```

fi
echo "$as_me:$LINENO: result: `eval echo '${$as_ac_Header}'`" >&5
echo "${ECHO_T}`eval echo '${$as_ac_Header}'`" >&6

fi
if test `eval echo '${$as_ac_Header}'` = yes; then
  cat >>confdefs.h <<_ACEOF
#define `echo "HAVE_${ac_header}" | $as_tr_cpp` 1
_ACEOF
fi

done

# Checks for typedefs, structures, and compiler characteristics.
echo "$as_me:$LINENO: checking for an ANSI C-conforming const" >&5
echo $ECHO_N "checking for an ANSI C-conforming const... $ECHO_C" >&6
if test "${ac_cv_c_const+set}" = set; then
  echo $ECHO_N "(cached) $ECHO_C" >&6
else
  cat >conftest.${ac_ext} <<_ACEOF
/* confdefs.h. */
_ACEOF
cat confdefs.h >>conftest.${ac_ext}
cat >>conftest.${ac_ext} <<_ACEOF
/* end confdefs.h. */

int
main ()
{
/* FIXME: Include the comments suggested by Paul. */
#ifdef __cplusplus
/* Ultrix mips cc rejects this. */
typedef int charset[2];
const charset x;
/* SunOS 4.1.1 cc rejects this. */
char const *const *ccp;
char **p;
/* NEC SVR4.0.2 mips cc rejects this. */
struct point {int x, y;};
static struct point const zero = {0,0};
/* AIX XL C 1.02.0.0 rejects this.
   It does not let you subtract one const X* pointer from another in
   an arm of an if-expression whose if-part is not a constant
   expression */
const char *g = "string";
ccp = &g + (g ? g-g : 0);
/* HPUX 7.0 cc rejects these. */
++ccp;
p = (char**) ccp;
ccp = (char const *const *) p;
{ /* SCO 3.2v4 cc rejects this. */
  char *t;

```

```

char const *s = 0 ? (char *) 0 : (char const *) 0;

*t++ = 0;
}
{ /* Someone thinks the Sun supposedly-ANSI compiler will reject this.
*/
int x[] = {25, 17};
const int *foo = &x[0];
++foo;
}
{ /* Sun SC1.0 ANSI compiler rejects this -- but not the above. */
typedef const int *iptr;
iptr p = 0;
++p;
}
{ /* AIX XL C 1.02.0.0 rejects this saying
"k.c", line 2.27: 1506-025 (S) Operand must be a modifiable
lvalue. */
struct s { int j; const int *ap[3]; };
struct s *b; b->j = 5;
}
{ /* ULTRIX-32 V3.1 (Rev 9) vcc rejects this */
const int foo = 10;
}
#endif

;
return 0;
}
_ACEOF
rm -f confptest.$ac_objext
if { (eval echo "$as_me:$LINENO: \"\$ac_compile\"" ) >&5
(eval $ac_compile) 2>confptest.er1
ac_status=$?
grep -v '^ *+' confptest.er1 >confptest.err
rm -f confptest.er1
cat confptest.err >&5
echo "$as_me:$LINENO: \ $? = $ac_status" >&5
(exit $ac_status); } &&
{ ac_try='test -z "$ac_c_werror_flag"
|| test ! -s confptest.err'
{ (eval echo "$as_me:$LINENO: \"\$ac_try\"" ) >&5
(eval $ac_try) 2>&5
ac_status=$?
echo "$as_me:$LINENO: \ $? = $ac_status" >&5
(exit $ac_status); }; } &&
{ ac_try='test -s confptest.$ac_objext'
{ (eval echo "$as_me:$LINENO: \"\$ac_try\"" ) >&5
(eval $ac_try) 2>&5
ac_status=$?
echo "$as_me:$LINENO: \ $? = $ac_status" >&5
(exit $ac_status); }; }; then
ac_cv_c_const=yes
else

```

```

    echo "$as_me: failed program was:" >&5
sed 's/^\| /' conftest.$ac_ext >&5

ac_cv_c_const=no
fi
rm -f conftest.err conftest.$ac_objext conftest.$ac_ext
fi
echo "$as_me:$LINENO: result: $ac_cv_c_const" >&5
echo "${ECHO_T}$ac_cv_c_const" >&6
if test $ac_cv_c_const = no; then

cat >>confdefs.h <<\_ACEOF
#define const
_ACEOF

fi

echo "$as_me:$LINENO: checking for inline" >&5
echo $ECHO_N "checking for inline... $ECHO_C" >&6
if test "${ac_cv_c_inline+set}" = set; then
    echo $ECHO_N "(cached) $ECHO_C" >&6
else
    ac_cv_c_inline=no
    for ac_kw in inline __inline__ inline; do
        cat >conftest.$ac_ext <<_ACEOF
/* confdefs.h. */
_ACEOF
cat confdefs.h >>conftest.$ac_ext
cat >>conftest.$ac_ext <<_ACEOF
/* end confdefs.h. */
#ifdef __cplusplus
typedef int foo_t;
static $ac_kw foo_t static_foo () {return 0; }
$ac_kw foo_t foo () {return 0; }
#endif

_ACEOF
rm -f conftest.$ac_objext
if { (eval echo "$as_me:$LINENO: \"$ac_compile\"") >&5
    (eval $ac_compile) 2>conftest.er1
    ac_status=$?
    grep -v '^ *+' conftest.er1 >conftest.err
    rm -f conftest.er1
    cat conftest.err >&5
    echo "$as_me:$LINENO: \$? = $ac_status" >&5
    (exit $ac_status); } &&
    { ac_try='test -z "$ac_c_werror_flag"
    || test ! -s conftest.err'
    { (eval echo "$as_me:$LINENO: \"$ac_try\"") >&5
    (eval $ac_try) 2>&5
    ac_status=$?
    echo "$as_me:$LINENO: \$? = $ac_status" >&5
    (exit $ac_status); }; } &&
    { ac_try='test -s conftest.$ac_objext'

```

```

    { (eval echo "$as_me:$LINENO: \"\$ac_try\"" ) >&5
      (eval $ac_try) 2>&5
      ac_status=$?
      echo "$as_me:$LINENO: \${?} = $ac_status" >&5
      (exit $ac_status); }; }; then
      ac_cv_c_inline=$ac_kw; break
    else
      echo "$as_me: failed program was:" >&5
      sed 's/^/| /' conftest.$ac_ext >&5

    fi
  rm -f conftest.err conftest.$ac_objext conftest.$ac_ext
done

fi
echo "$as_me:$LINENO: result: $ac_cv_c_inline" >&5
echo "${ECHO_T}$ac_cv_c_inline" >&6

case $ac_cv_c_inline in
  inline | yes) ;;
  *)
    case $ac_cv_c_inline in
      no) ac_val=;;
      *) ac_val=$ac_cv_c_inline;;
    esac
    cat >>confdefs.h <<_ACEOF
#ifdef __cplusplus
#define inline $ac_val
#endif
_ACEOF
    ;;
esac

echo "$as_me:$LINENO: checking for size_t" >&5
echo $ECHO_N "checking for size_t... $ECHO_C" >&6
if test "${ac_cv_type_size_t+set}" = set; then
  echo $ECHO_N "(cached) $ECHO_C" >&6
else
  cat >conftest.$ac_ext <<_ACEOF
/* confdefs.h. */
_ACEOF
cat confdefs.h >>conftest.$ac_ext
cat >>conftest.$ac_ext <<_ACEOF
/* end confdefs.h. */
$ac_includes_default
int
main ()
{
if ((size_t *) 0)
  return 0;
if (sizeof (size_t))
  return 0;
;

```



```

    return 0;
}
_ACEOF
rm -f confptest.$ac_objext
if { (eval echo "$as_me:$LINENO: \"$ac_compile\"" ) >&5
    (eval $ac_compile) 2>confptest.er1
    ac_status=$?
    grep -v '^ *+' confptest.er1 >confptest.err
    rm -f confptest.er1
    cat confptest.err >&5
    echo "$as_me:$LINENO: \ $? = $ac_status" >&5
    (exit $ac_status); } &&
    { ac_try='test -z "$ac_c_werror_flag"
              || test ! -s confptest.err'
    { (eval echo "$as_me:$LINENO: \"$ac_try\"" ) >&5
      (eval $ac_try) 2>&5
      ac_status=$?
      echo "$as_me:$LINENO: \ $? = $ac_status" >&5
      (exit $ac_status); }; } &&
    { ac_try='test -s confptest.$ac_objext'
    { (eval echo "$as_me:$LINENO: \"$ac_try\"" ) >&5
      (eval $ac_try) 2>&5
      ac_status=$?
      echo "$as_me:$LINENO: \ $? = $ac_status" >&5
      (exit $ac_status); }; }; } then
    ac_cv_type_size_t=yes
else
    echo "$as_me: failed program was:" >&5
    sed 's/^/| /' confptest.$ac_ext >&5

ac_cv_type_size_t=no
fi
rm -f confptest.err confptest.$ac_objext confptest.$ac_ext
fi
echo "$as_me:$LINENO: result: $ac_cv_type_size_t" >&5
echo "${ECHO_T}$ac_cv_type_size_t" >&6
if test $ac_cv_type_size_t = yes; then
:
else

cat >>confdefs.h <<_ACEOF
#define size_t unsigned
_ACEOF

fi

# Checks for library functions.
echo "$as_me:$LINENO: checking whether lstat dereferences a symlink
specified with a trailing slash" >&5
echo $ECHO_N "checking whether lstat dereferences a symlink specified
with a trailing slash... $ECHO_C" >&6
if test "${ac_cv_func_lstat_dereferences_slashed_symlink+set}" = set;
then

```

```

    echo $ECHO_N "(cached) $ECHO_C" >&6
else
    rm -f confptest.sym confptest.file
echo >confptest.file
if test "$as_ln_s" = "ln -s" && ln -s confptest.file confptest.sym; then
    if test "$cross_compiling" = yes; then
        ac_cv_func_lstat_dereferences_slashed_symlink=no
    else
        cat >confptest.$ac_ext <<_ACEOF
/* confdefs.h. */
_ACEOF
cat confdefs.h >>confptest.$ac_ext
cat >>confptest.$ac_ext <<_ACEOF
/* end confdefs.h. */
$ac_includes_default
int
main ()
{
struct stat sbuf;
    /* Linux will dereference the symlink and fail.
       That is better in the sense that it means we will not
       have to compile and use the lstat wrapper. */
    exit (lstat ("confptest.sym/", &sbuf) ? 0 : 1);
;
    return 0;
}
_ACEOF
rm -f confptest$ac_exeext
if { (eval echo "$as_me:$LINENO: \"$ac_link\"" >&5
      (eval $ac_link) 2>&5
      ac_status=$?
      echo "$as_me:$LINENO: \$? = $ac_status" >&5
      (exit $ac_status); } && { ac_try='./confptest$ac_exeext'
      { (eval echo "$as_me:$LINENO: \"$ac_try\"" >&5
        (eval $ac_try) 2>&5
        ac_status=$?
        echo "$as_me:$LINENO: \$? = $ac_status" >&5
        (exit $ac_status); }; }; then
    ac_cv_func_lstat_dereferences_slashed_symlink=yes
else
    echo "$as_me: program exited with status $ac_status" >&5
    echo "$as_me: failed program was:" >&5
    sed 's/^/| /' confptest.$ac_ext >&5

( exit $ac_status )
ac_cv_func_lstat_dereferences_slashed_symlink=no
fi
rm -f core *.core gmon.out bb.out confptest$ac_exeext confptest.$ac_objext
confptest.$ac_ext
fi
else
    # If the `ln -s' command failed, then we probably don't even
    # have an lstat function.
    ac_cv_func_lstat_dereferences_slashed_symlink=no

```

```

fi
rm -f confptest.sym confptest.file

fi
echo "$as_me:$LINENO: result:
$ac_cv_func_lstat_dereferences_slashed_symlink" >&5
echo "${ECHO_T}$ac_cv_func_lstat_dereferences_slashed_symlink" >&6

test $ac_cv_func_lstat_dereferences_slashed_symlink = yes &&

cat >>confdefs.h <<_ACEOF
#define LSTAT_FOLLOWS_SLASHED_SYMLINK 1
_ACEOF

if test $ac_cv_func_lstat_dereferences_slashed_symlink = no; then
  case $LIBOBJJS in
    "lstat.$ac_objext" | \
    *" lstat.$ac_objext" | \
    "lstat.$ac_objext" "*" | \
    *" lstat.$ac_objext" "*" ) ;;
    *) LIBOBJJS="$LIBOBJJS lstat.$ac_objext" ;;
  esac

fi

echo "$as_me:$LINENO: checking whether lstat accepts an empty string" >&5
echo $ECHO_N "checking whether lstat accepts an empty string... $ECHO_C"
>&6
if test "${ac_cv_func_lstat_empty_string_bug+set}" = set; then
  echo $ECHO_N "(cached) $ECHO_C" >&6
else
  if test "$cross_compiling" = yes; then
    ac_cv_func_lstat_empty_string_bug=yes
  else
    cat >confptest.$ac_ext <<_ACEOF
/* confdefs.h. */
_ACEOF
cat confdefs.h >>confptest.$ac_ext
cat >>confptest.$ac_ext <<_ACEOF
/* end confdefs.h. */
$ac_includes_default
int
main ()
{
struct stat sbuf;
  exit (lstat ("", &sbuf) ? 1 : 0);
  ;
  return 0;
}
_ACEOF
rm -f confptest.$ac_exeext
if { (eval echo "$as_me:$LINENO: \"$ac_link\"") >&5
  (eval $ac_link) 2>&5

```

```

ac_status=$?
echo "$as_me:$LINENO: \ $? = $ac_status" >&5
(exit $ac_status); } && { ac_try='./confptest$ac_exeext'
{ (eval echo "$as_me:$LINENO: \"$ac_try\"") >&5
(eval $ac_try) 2>&5
ac_status=$?
echo "$as_me:$LINENO: \ $? = $ac_status" >&5
(exit $ac_status); }; }; then
ac_cv_func_lstat_empty_string_bug=yes
else
echo "$as_me: program exited with status $ac_status" >&5
echo "$as_me: failed program was:" >&5
sed 's/^\| /' confptest.$ac_ext >&5

( exit $ac_status )
ac_cv_func_lstat_empty_string_bug=no
fi
rm -f core *.core gmon.out bb.out confptest$ac_exeext confptest.$ac_objext
confptest.$ac_ext
fi
fi
echo "$as_me:$LINENO: result: $ac_cv_func_lstat_empty_string_bug" >&5
echo "${ECHO_T}$ac_cv_func_lstat_empty_string_bug" >&6
if test $ac_cv_func_lstat_empty_string_bug = yes; then
case $LIBOBJJS in
"lstat.$ac_objext" | \
*" lstat.$ac_objext" | \
"lstat.$ac_objext" "*" | \
*" lstat.$ac_objext" "*" ) ;;
*) LIBOBJJS="$LIBOBJJS lstat.$ac_objext" ;;
esac

cat >>confdefs.h <<_ACEOF
#define HAVE_LSTAT_EMPTY_STRING_BUG 1
_ACEOF

fi

for ac_header in stdlib.h
do
as_ac_Header=`echo "ac_cv_header_$ac_header" | $as_tr_sh`
if eval "test \"\${$as_ac_Header+set}\" = set"; then
echo "$as_me:$LINENO: checking for $ac_header" >&5
echo $ECHO_N "checking for $ac_header... $ECHO_C" >&6
if eval "test \"\${$as_ac_Header+set}\" = set"; then
echo $ECHO_N "(cached) $ECHO_C" >&6
fi
echo "$as_me:$LINENO: result: `eval echo '${$as_ac_Header}'`" >&5
echo "${ECHO_T}`eval echo '${$as_ac_Header}'`" >&6
else
# Is the header compilable?
echo "$as_me:$LINENO: checking $ac_header usability" >&5

```

```

echo $ECHO_N "checking $ac_header usability... $ECHO_C" >&6
cat >confptest.$ac_ext <<_ACEOF
/* confdefs.h. */
_ACEOF
cat confdefs.h >>confptest.$ac_ext
cat >>confptest.$ac_ext <<_ACEOF
/* end confdefs.h. */
$ac_includes_default
#include <$ac_header>
_ACEOF
rm -f confptest.$ac_objext
if { (eval echo "$as_me:$LINENO: \"$ac_compile\"" ) >&5
      (eval $ac_compile) 2>confptest.erl
      ac_status=$?
      grep -v '^ *+' confptest.erl >confptest.err
      rm -f confptest.erl
      cat confptest.err >&5
      echo "$as_me:$LINENO: \ $? = $ac_status" >&5
      (exit $ac_status); } &&
      { ac_try='test -z "$ac_c_werror_flag"
              || test ! -s confptest.err'
      { (eval echo "$as_me:$LINENO: \"$ac_try\"" ) >&5
        (eval $ac_try) 2>&5
        ac_status=$?
        echo "$as_me:$LINENO: \ $? = $ac_status" >&5
        (exit $ac_status); }; } &&
      { ac_try='test -s confptest.$ac_objext'
      { (eval echo "$as_me:$LINENO: \"$ac_try\"" ) >&5
        (eval $ac_try) 2>&5
        ac_status=$?
        echo "$as_me:$LINENO: \ $? = $ac_status" >&5
        (exit $ac_status); }; }; } then
  ac_header_compiler=yes
else
  echo "$as_me: failed program was:" >&5
  sed 's/^/| /' confptest.$ac_ext >&5

  ac_header_compiler=no
fi
rm -f confptest.err confptest.$ac_objext confptest.$ac_ext
echo "$as_me:$LINENO: result: $ac_header_compiler" >&5
echo "${ECHO_T}$ac_header_compiler" >&6

# Is the header present?
echo "$as_me:$LINENO: checking $ac_header presence" >&5
echo $ECHO_N "checking $ac_header presence... $ECHO_C" >&6
cat >confptest.$ac_ext <<_ACEOF
/* confdefs.h. */
_ACEOF
cat confdefs.h >>confptest.$ac_ext
cat >>confptest.$ac_ext <<_ACEOF
/* end confdefs.h. */
#include <$ac_header>
_ACEOF

```

```

if { (eval echo "$as_me:$LINENO: \"\$ac_cpp conftest.$ac_ext\"") >&5
  (eval $ac_cpp conftest.$ac_ext) 2>conftest.erl
  ac_status=$?
  grep -v '^ *+' conftest.erl >conftest.err
  rm -f conftest.erl
  cat conftest.err >&5
  echo "$as_me:$LINENO: \$? = $ac_status" >&5
  (exit $ac_status); } >/dev/null; then
  if test -s conftest.err; then
    ac_cpp_err=$ac_c_preproc_warn_flag
    ac_cpp_err=$ac_cpp_err$ac_c_werror_flag
  else
    ac_cpp_err=
  fi
else
  ac_cpp_err=yes
fi
if test -z "$ac_cpp_err"; then
  ac_header_preproc=yes
else
  echo "$as_me: failed program was:" >&5
  sed 's/^/| /' conftest.$ac_ext >&5

  ac_header_preproc=no
fi
rm -f conftest.err conftest.$ac_ext
echo "$as_me:$LINENO: result: $ac_header_preproc" >&5
echo "${ECHO_T}$ac_header_preproc" >&6

# So? What about this header?
case $ac_header_compiler:$ac_header_preproc:$ac_c_preproc_warn_flag in
  yes:no: )
    { echo "$as_me:$LINENO: WARNING: $ac_header: accepted by the
  compiler, rejected by the preprocessor!" >&5
  echo "$as_me: WARNING: $ac_header: accepted by the compiler, rejected by
  the preprocessor!" >&2;}
    { echo "$as_me:$LINENO: WARNING: $ac_header: proceeding with the
  compiler's result" >&5
  echo "$as_me: WARNING: $ac_header: proceeding with the compiler's result"
  >&2;}
    ac_header_preproc=yes
  ;;
  no:yes:* )
    { echo "$as_me:$LINENO: WARNING: $ac_header: present but cannot be
  compiled" >&5
  echo "$as_me: WARNING: $ac_header: present but cannot be compiled" >&2;}
    { echo "$as_me:$LINENO: WARNING: $ac_header:
  check for missing
  prerequisite headers?" >&5
  echo "$as_me: WARNING: $ac_header:
  check for missing prerequisite
  headers?" >&2;}
    { echo "$as_me:$LINENO: WARNING: $ac_header: see the Autoconf
  documentation" >&5
  echo "$as_me: WARNING: $ac_header: see the Autoconf documentation" >&2;}

```

```

        { echo "$as_me:$LINENO: WARNING: $ac_header:      section \"Present
But Cannot Be Compiled\"" >&5
echo "$as_me: WARNING: $ac_header:      section \"Present But Cannot Be
Compiled\"" >&2;}
        { echo "$as_me:$LINENO: WARNING: $ac_header: proceeding with the
preprocessor's result" >&5
echo "$as_me: WARNING: $ac_header: proceeding with the preprocessor's
result" >&2;}
        { echo "$as_me:$LINENO: WARNING: $ac_header: in the future, the
compiler will take precedence" >&5
echo "$as_me: WARNING: $ac_header: in the future, the compiler will take
precedence" >&2;}
        (
            cat <<\_ASBOX
## ----- ##
## Report this to linux-diag-devel@lists.sourceforge.net ##
## ----- ##
\_ASBOX
        ) |
            sed "s/^/$as_me: WARNING:      /" >&2
        ;;
esac
echo "$as_me:$LINENO: checking for $ac_header" >&5
echo $ECHO_N "checking for $ac_header... $ECHO_C" >&6
if eval "test \"\${$as_ac_Header+set}\" = set"; then
    echo $ECHO_N "(cached) $ECHO_C" >&6
else
    eval "$as_ac_Header=\$ac_header_preproc"
fi
echo "$as_me:$LINENO: result: `eval echo '${'$as_ac_Header}'`" >&5
echo "${ECHO_T}`eval echo '${'$as_ac_Header}'`" >&6

fi
if test `eval echo '${'$as_ac_Header}'` = yes; then
    cat >>confdefs.h <<_ACEOF
#define `echo "HAVE_$ac_header" | $as_tr_cpp` 1
\_ACEOF

fi

done

echo "$as_me:$LINENO: checking for GNU libc compatible malloc" >&5
echo $ECHO_N "checking for GNU libc compatible malloc... $ECHO_C" >&6
if test "${ac_cv_func_malloc_0_nonnull+set}" = set; then
    echo $ECHO_N "(cached) $ECHO_C" >&6
else
    if test "$cross_compiling" = yes; then
        ac_cv_func_malloc_0_nonnull=no
    else
        cat >confptest.$ac_ext <<_ACEOF
/* confdefs.h. */
\_ACEOF
cat confdefs.h >>confptest.$ac_ext

```

```

cat >>confptest.$ac_ext <<_ACEOF
/* end confdefs.h.  */
#if STDC_HEADERS || HAVE_STDLIB_H
# include <stdlib.h>
#else
char *malloc ();
#endif

int
main ()
{
exit (malloc (0) ? 0 : 1);
;
return 0;
}
_ACEOF
rm -f confptest$ac_exeext
if { (eval echo "$as_me:$LINENO: \"$ac_link\"" ) >&5
(eval $ac_link) 2>&5
ac_status=$?
echo "$as_me:$LINENO: \ $? = $ac_status" >&5
(exit $ac_status); } && { ac_try='./confptest$ac_exeext'
{ (eval echo "$as_me:$LINENO: \"$ac_try\"" ) >&5
(eval $ac_try) 2>&5
ac_status=$?
echo "$as_me:$LINENO: \ $? = $ac_status" >&5
(exit $ac_status); }; }; then
ac_cv_func_malloc_0_nonnull=yes
else
echo "$as_me: program exited with status $ac_status" >&5
echo "$as_me: failed program was:" >&5
sed 's/^/| /' confptest.$ac_ext >&5

( exit $ac_status )
ac_cv_func_malloc_0_nonnull=no
fi
rm -f core *.core gmon.out bb.out confptest$ac_exeext confptest.$ac_objext
confptest.$ac_ext
fi
fi
echo "$as_me:$LINENO: result: $ac_cv_func_malloc_0_nonnull" >&5
echo "${ECHO_T}$ac_cv_func_malloc_0_nonnull" >&6
if test $ac_cv_func_malloc_0_nonnull = yes; then

cat >>confdefs.h <<\_ACEOF
#define HAVE_MALLOC 1
_ACEOF

else
cat >>confdefs.h <<\_ACEOF
#define HAVE_MALLOC 0
_ACEOF

case $LIBOBJS in

```



```

        "malloc.$ac_objext"    | \
*" malloc.$ac_objext"      | \
        "malloc.$ac_objext"  "*" | \
*" malloc.$ac_objext"    "*" ) ;;
*) LIBOBJJS="$LIBOBJJS malloc.$ac_objext" ;;
esac

```

```

cat >>confdefs.h <<\_ACEOF
#define malloc rpl_malloc
_ACEOF

fi

```

```

echo "$as_me:$LINENO: checking whether stat accepts an empty string" >&5
echo $ECHO_N "checking whether stat accepts an empty string... $ECHO_C"
>&6
if test "${ac_cv_func_stat_empty_string_bug+set}" = set; then
    echo $ECHO_N "(cached) $ECHO_C" >&6
else
    if test "$cross_compiling" = yes; then
        ac_cv_func_stat_empty_string_bug=yes
    else
        cat >conftest.$ac_ext <<_ACEOF
/* confdefs.h. */
_ACEOF
cat confdefs.h >>conftest.$ac_ext
cat >>conftest.$ac_ext <<_ACEOF
/* end confdefs.h. */
$ac_includes_default
int
main ()
{
struct stat sbuf;
    exit (stat ("", &sbuf) ? 1 : 0);
    ;
    return 0;
}
_ACEOF
rm -f conftest$ac_exeext
if { (eval echo "$as_me:$LINENO: \"$ac_link\"") >&5
    (eval $ac_link) 2>&5
    ac_status=$?
    echo "$as_me:$LINENO: \ $? = $ac_status" >&5
    (exit $ac_status); } && { ac_try='./conftest$ac_exeext'
    { (eval echo "$as_me:$LINENO: \"$ac_try\"") >&5
    (eval $ac_try) 2>&5
    ac_status=$?
    echo "$as_me:$LINENO: \ $? = $ac_status" >&5
    (exit $ac_status); }; }; then
    ac_cv_func_stat_empty_string_bug=yes
else

```

```

    echo "$as_me: program exited with status $ac_status" >&5
echo "$as_me: failed program was:" >&5
sed 's/^\| /' conftest.$ac_ext >&5

( exit $ac_status )
ac_cv_func_stat_empty_string_bug=no
fi
rm -f core *.core gmon.out bb.out conftest$ac_exeext conftest.$ac_objext
conftest.$ac_ext
fi
fi
echo "$as_me:$LINENO: result: $ac_cv_func_stat_empty_string_bug" >&5
echo "${ECHO_T}$ac_cv_func_stat_empty_string_bug" >&6
if test $ac_cv_func_stat_empty_string_bug = yes; then
  case $LIBOBJJS in
    "stat.$ac_objext" | \
    *" stat.$ac_objext" | \
    "stat.$ac_objext" "*" | \
    *" stat.$ac_objext" "*" ) ;;
    *) LIBOBJJS="$LIBOBJJS stat.$ac_objext" ;;
  esac
fi

cat >>confdefs.h <<_ACEOF
#define HAVE_STAT_EMPTY_STRING_BUG 1
_ACEOF

fi

for ac_func in bzero isascii memset strchr strerror strrchr strstr strtol
do
as_ac_var=`echo "ac_cv_func_$ac_func" | $as_tr_sh`
echo "$as_me:$LINENO: checking for $ac_func" >&5
echo $ECHO_N "checking for $ac_func... $ECHO_C" >&6
if eval "test \"\${$as_ac_var+set}\" = set"; then
  echo $ECHO_N "(cached) $ECHO_C" >&6
else
  cat >conftest.$ac_ext <<_ACEOF
/* confdefs.h. */
_ACEOF
cat confdefs.h >>conftest.$ac_ext
cat >>conftest.$ac_ext <<_ACEOF
/* end confdefs.h. */
/* Define $ac_func to an innocuous variant, in case <limits.h> declares
$ac_func.
   For example, HP-UX 11i <limits.h> declares gettimeofday. */

```

```

#define $ac_func innocuous_$ac_func

/* System header to define __stub macros and hopefully few prototypes,
   which can conflict with char $ac_func (); below.
   Prefer <limits.h> to <assert.h> if __STDC__ is defined, since
   <limits.h> exists even on freestanding compilers.  */

#ifdef __STDC__
# include <limits.h>
#else
# include <assert.h>
#endif

#undef $ac_func

/* Override any gcc2 internal prototype to avoid an error.  */
#ifdef __cplusplus
extern "C"
{
#endif
/* We use char because int might match the return type of a gcc2
   builtin and then its argument prototype would still apply.  */
char $ac_func ();
/* The GNU C library defines this for functions which it implements
   to always fail with ENOSYS.  Some functions are actually named
   something starting with __ and the normal name is an alias.  */
#ifdef defined (__stub_$ac_func) || defined (__stub__$ac_func)
choke me
#else
char (*f) () = $ac_func;
#endif
#ifdef __cplusplus
}
#endif

int
main ()
{
return f != $ac_func;
;
return 0;
}
_ACEOF
rm -f conftest.$ac_objext conftest$ac_exeext
if { (eval echo "$as_me:$LINENO: \"$ac_link\"" >&5
(eval $ac_link) 2>conftest.er1
ac_status=$?
grep -v '^ *+' conftest.er1 >conftest.err
rm -f conftest.er1
cat conftest.err >&5
echo "$as_me:$LINENO: $? = $ac_status" >&5
(exit $ac_status); } &&
{ ac_try='test -z "$ac_c_werror_flag"
|| test ! -s conftest.err'

```

```

{ (eval echo "$as_me:$LINENO: \"\$ac_try\"") >&5
(eval $ac_try) 2>&5
ac_status=$?
echo "$as_me:$LINENO: \ $? = $ac_status" >&5
(exit $ac_status); }; } &&
  { ac_try='test -s conftest$ac_exeext'
{ (eval echo "$as_me:$LINENO: \"\$ac_try\"") >&5
(eval $ac_try) 2>&5
ac_status=$?
echo "$as_me:$LINENO: \ $? = $ac_status" >&5
(exit $ac_status); }; }; then
eval "$as_ac_var=yes"
else
echo "$as_me: failed program was:" >&5
sed 's/^\| /' conftest.$ac_ext >&5

eval "$as_ac_var=no"
fi
rm -f conftest.err conftest.$ac_objext \
conftest$ac_exeext conftest.$ac_ext
fi
echo "$as_me:$LINENO: result: `eval echo '${$as_ac_var}'`" >&5
echo "${ECHO_T}`eval echo '${$as_ac_var}'`" >&6
if test `eval echo '${$as_ac_var}'` = yes; then
cat >>confdefs.h <<_ACEOF
#define `echo "HAVE_$ac_func" | $as_tr_cpp` 1
_ACEOF

fi
done

ac_config_files="$ac_config_files
Makefile lib/Makefile cmd/Makefile test/Makefile"

cat >confcache <<\_ACEOF
# This file is a shell script that caches the results of configure
# tests run on this system so they can be shared between configure
# scripts and configure runs, see configure's option --config-cache.
# It is not useful on other systems. If it contains results you don't
# want to keep, you may remove or edit it.
#
# config.status only pays attention to the cache file if you give it
# the --recheck option to rerun configure.
#
# `ac_cv_env_foo' variables (set or unset) will be overridden when
# loading this file, other *unset* `ac_cv_foo' will be assigned the
# following values.

_ACEOF

# The following way of writing the cache mishandles newlines in values,
# but we know of no workaround that is simple, portable, and efficient.
# So, don't put newlines in cache variables' values.

```

```

# Ultrix sh set writes to stderr and can't be redirected directly,
# and sets the high bit in the cache file unless we assign to the vars.
{
  (set) 2>&1 |
  case `(ac_space=' '; set | grep ac_space) 2>&1` in
  *ac_space=\ *)
    # `set' does not quote correctly, so add quotes (double-quote
    # substitution turns \\ into \, and sed turns \ into \).
    sed -n \
    "s/'/'\\\\"'/g;

s/^\([\[_$as_cr_alnum]*_cv_[_$_$as_cr_alnum]*\)=\(\.*\)/\1='\2'/p"
  ;;
  *)
    # `set' quotes correctly as required by POSIX, so do not add
    quotes.
    sed -n \
    "s/^\([\[_$as_cr_alnum]*_cv_[_$_$as_cr_alnum]*\)=\(\.*\)/\1=\2/p"
    ;;
  esac;
} |
sed '
t clear
: clear
s/^\([\^=]*\)=\(\.*[{}].*\)$ /test "${\1+set}" = set || &/
t end
/^ac_cv_env/!s/^\([\^=]*\)=\(\.*\)$ /\1=${\1=\2}/
: end' >>confcache
if diff $cache_file confcache >/dev/null 2>&1; then ;; else
  if test -w $cache_file; then
    test "x$cache_file" != "x/dev/null" && echo "updating cache
$cache_file"
    cat confcache >$cache_file
  else
    echo "not updating unwritable cache $cache_file"
  fi
fi
rm -f confcache

test "x$prefix" = xNONE && prefix=$ac_default_prefix
# Let make expand exec_prefix.
test "x$exec_prefix" = xNONE && exec_prefix='${prefix}'

# VPATH may cause trouble with some makes, so we remove $(srcdir),
# ${srcdir} and @srcdir@ from VPATH if srcdir is ".", strip leading and
# trailing colons and then remove the whole line if VPATH becomes empty
# (actually we leave an empty line to preserve line numbers).
if test "x$srcdir" = x.; then
  ac_vpsub='^[ \t]*VPATH[ \t]*=/{
s/*\$(srcdir):*/;/;
s/*\${srcdir}:*/;/;
s/*@srcdir@:*/;/;
s/^\([\^=]*=[ \t]*\)*\):*/\1/;
s/*$//;

```

```

s/^[^=]*=[ ]*$//;
}'
fi

DEFS--DHAVE_CONFIG_H

ac_libobjs=
ac_ltlibobjs=
for ac_i in : $LIBOBJS; do test "x$ac_i" = x: && continue
  # 1. Remove the extension, and $U if already installed.
  ac_i=`echo "$ac_i" |
    sed 's/\$U\././;s/\.o$//;s/\.obj$//'\`
  # 2. Add them.
  ac_libobjs="$ac_libobjs $ac_i\$U.$ac_objext"
  ac_ltlibobjs="$ac_ltlibobjs $ac_i"'\$U.lo'
done
LIBOBJS=$ac_libobjs

LTLIBOBJS=$ac_ltlibobjs

if test -z "${KLIBC_TRUE}" && test -z "${KLIBC_FALSE}"; then
  { { echo "$as_me:$LINENO: error: conditional \"KLIBC\" was never
defined.
Usually this means the macro was only invoked conditionally." >&5
echo "$as_me: error: conditional \"KLIBC\" was never defined.
Usually this means the macro was only invoked conditionally." >&2;}
  { (exit 1); exit 1; }; }
fi
if test -z "${AMDEP_TRUE}" && test -z "${AMDEP_FALSE}"; then
  { { echo "$as_me:$LINENO: error: conditional \"AMDEP\" was never
defined.
Usually this means the macro was only invoked conditionally." >&5
echo "$as_me: error: conditional \"AMDEP\" was never defined.
Usually this means the macro was only invoked conditionally." >&2;}
  { (exit 1); exit 1; }; }
fi
if test -z "${am__fastdepCC_TRUE}" && test -z "${am__fastdepCC_FALSE}";
then
  { { echo "$as_me:$LINENO: error: conditional \"am__fastdepCC\" was
never defined.
Usually this means the macro was only invoked conditionally." >&5
echo "$as_me: error: conditional \"am__fastdepCC\" was never defined.
Usually this means the macro was only invoked conditionally." >&2;}
  { (exit 1); exit 1; }; }
fi
if test -z "${am__fastdepCXX_TRUE}" && test -z "${am__fastdepCXX_FALSE}";
then
  { { echo "$as_me:$LINENO: error: conditional \"am__fastdepCXX\" was
never defined.
Usually this means the macro was only invoked conditionally." >&5
echo "$as_me: error: conditional \"am__fastdepCXX\" was never defined.
Usually this means the macro was only invoked conditionally." >&2;}
  { (exit 1); exit 1; }; }

```

```

fi
if test -z "${am__fastdepCC_TRUE}" && test -z "${am__fastdepCC_FALSE}";
then
  { { echo "$as_me:$LINENO: error: conditional \"am__fastdepCC\" was
never defined.
Usually this means the macro was only invoked conditionally." >&5
echo "$as_me: error: conditional \"am__fastdepCC\" was never defined.
Usually this means the macro was only invoked conditionally." >&2;}
  { (exit 1); exit 1; }; }
fi

: ${CONFIG_STATUS=./config.status}
ac_clean_files_save=$ac_clean_files
ac_clean_files="$ac_clean_files $CONFIG_STATUS"
{ echo "$as_me:$LINENO: creating $CONFIG_STATUS" >&5
echo "$as_me: creating $CONFIG_STATUS" >&6;}
cat >$CONFIG_STATUS <<_ACEOF
#! $SHELL
# Generated by $as_me.
# Run this file to recreate the current configuration.
# Compiler output produced by configure, useful for debugging
# configure, is in config.log if it exists.

debug=false
ac_cs_recheck=false
ac_cs_silent=false
SHELL=${CONFIG_SHELL-$SHELL}
_ACEOF

cat >>$CONFIG_STATUS <<\_ACEOF
## ----- ##
## M4sh Initialization. ##
## ----- ##

# Be Bourne compatible
if test -n "${ZSH_VERSION+set}" && (emulate sh) >/dev/null 2>&1; then
  emulate sh
  NULLCMD=:
  # Zsh 3.x and 4.x performs word splitting on ${1+"$@"}, which
  # is contrary to our usage.  Disable this feature.
  alias -g '${1+"$@"}'='"$@"'
elif test -n "${BASH_VERSION+set}" && (set -o posix) >/dev/null 2>&1;
then
  set -o posix
fi
DUALCASE=1; export DUALCASE # for MKS sh

# Support unset when possible.
if ( (MAIL=60; unset MAIL) || exit) >/dev/null 2>&1; then
  as_unset=unset
else
  as_unset=false
fi

```

```

# Work around bugs in pre-3.0 UWIN ksh.
$as_unset ENV MAIL MAILPATH
PS1='$ '
PS2='> '
PS4='+ '

# NLS nuisances.
for as_var in \
    LANG LANGUAGE LC_ADDRESS LC_ALL LC_COLLATE LC_CTYPE LC_IDENTIFICATION \
    LC_MEASUREMENT LC_MESSAGES LC_MONETARY LC_NAME LC_NUMERIC LC_PAPER \
    LC_TELEPHONE LC_TIME
do
    if (set +x; test -z "`(eval $as_var=C; export $as_var) 2>&1`"); then
        eval $as_var=C; export $as_var
    else
        $as_unset $as_var
    fi
done

# Required to use basename.
if expr a : '\(a\)' >/dev/null 2>&1; then
    as_expr=expr
else
    as_expr=false
fi

if (basename /) >/dev/null 2>&1 && test "X`basename / 2>&1`" = "X/"; then
    as_basename=basename
else
    as_basename=false
fi

# Name of the executable.
as_me=`$as_basename "$0" ||
$as_expr X/"$0" : '.*\/\([^\/]*\)\/*$' \|| \
    X"$0" : 'X\([^\/]*\)\/$' \|| \
    X"$0" : 'X\([^\/]*\)\/$' \|| \
    . : '\(.\)' 2>/dev/null ||
echo X/"$0" |
    sed '/^.*\/\([^\/]*\)\/*$/ { s//\1/; q; }
/^X\([^\/]*\)\/$/ { s//\1/; q; }
/^X\([^\/]*\)\/$/ { s//\1/; q; }
s/.*\/./; q'`

# PATH needs CR, and LINENO needs CR and PATH.
# Avoid depending upon Character Ranges.
as_cr_letters='abcdefghijklmnopqrstuvwxyz'
as_cr_LETTERS='ABCDEFGHIJKLMNOPQRSTUVWXYZ'
as_cr_Letters=$as_cr_letters$as_cr_LETTERS
as_cr_digits='0123456789'
as_cr_alnum=$as_cr_Letters$as_cr_digits

```



```

# The user is always right.
if test "${PATH_SEPARATOR+set}" != set; then
    echo "#! /bin/sh" >conf$$$.sh
    echo "exit 0" >>conf$$$.sh
    chmod +x conf$$$.sh
    if (PATH="/nonexistent;."; conf$$$.sh) >/dev/null 2>&1; then
        PATH_SEPARATOR=';'
    else
        PATH_SEPARATOR=:
    fi
    rm -f conf$$$.sh
fi

as_lineno_1=$LINENO
as_lineno_2=$LINENO
as_lineno_3=`(expr $as_lineno_1 + 1) 2>/dev/null`
test "x$as_lineno_1" != "x$as_lineno_2" &&
test "x$as_lineno_3" = "x$as_lineno_2" || {
# Find who we are. Look in the path if we contain no path at all
# relative or not.
case $0 in
    *[\//]*) as_myself=$0 ;;
    *) as_save_IFS=$IFS; IFS=$PATH_SEPARATOR
for as_dir in $PATH
do
    IFS=$as_save_IFS
    test -z "$as_dir" && as_dir=.
    test -r "$as_dir/$0" && as_myself=$as_dir/$0 && break
done

        ;;
esac
# We did not find ourselves, most probably we were run as `sh COMMAND'
# in which case we are not to be found in the path.
if test "x$as_myself" = x; then
    as_myself=$0
fi
if test ! -f "$as_myself"; then
    { { echo "$as_me:$LINENO: error: cannot find myself; rerun with an
absolute path" >&5
echo "$as_me: error: cannot find myself; rerun with an absolute path"
>&2;}
    { (exit 1); exit 1; }; }
fi
case $CONFIG_SHELL in
    '')
        as_save_IFS=$IFS; IFS=$PATH_SEPARATOR
for as_dir in /bin$PATH_SEPARATOR/usr/bin$PATH_SEPARATOR$PATH
do
    IFS=$as_save_IFS
    test -z "$as_dir" && as_dir=.
    for as_base in sh bash ksh sh5; do

```

```

        case $as_dir in
        /*)
            if ("$as_dir/$as_base" -c '
as_lineno_1=$LINENO
as_lineno_2=$LINENO
as_lineno_3=`(expr $as_lineno_1 + 1) 2>/dev/null`
test "x$as_lineno_1" != "x$as_lineno_2" &&
test "x$as_lineno_3" = "x$as_lineno_2" ') 2>/dev/null; then
    $as_unset BASH_ENV || test "${BASH_ENV+set}" != set || {
BASH_ENV=; export BASH_ENV; }
    $as_unset ENV || test "${ENV+set}" != set || { ENV=; export
ENV; }

    CONFIG_SHELL=$as_dir/$as_base
    export CONFIG_SHELL
    exec "$CONFIG_SHELL" "$0" "${1+"$@"}
        fi;;
        esac
    done
done
;;
esac

# Create $as_me.lineno as a copy of $as_myself, but with $LINENO
# uniformly replaced by the line number. The first 'sed' inserts a
# line-number line before each line; the second 'sed' does the real
# work. The second script uses 'N' to pair each line-number line
# with the numbered line, and appends trailing '-' during
# substitution so that $LINENO is not a special case at line end.
# (Raja R Harinath suggested sed '=', and Paul Eggert wrote the
# second 'sed' script. Blame Lee E. McMahon for sed's syntax. :-)
sed '=' <$as_myself |
    sed '
        N
        s,$,-,
        : loop

s,^\(['$as_cr_digits']*\) \(.*) [$]LINENO\(['^$as_cr_alnum'_]\),\1\2\1\3,
    t loop
    s,-$,,
    s,^\(['$as_cr_digits']*\)n,,
    ' >$as_me.lineno &&
    chmod +x $as_me.lineno ||
    { { echo "$as_me:$LINENO: error: cannot create $as_me.lineno; rerun
with a POSIX shell" >&5
echo "$as_me: error: cannot create $as_me.lineno; rerun with a POSIX
shell" >&2;}
    { (exit 1); exit 1; }; }

# Don't try to exec as it changes $[0], causing all sort of problems
# (the dirname of $[0] is not the place where we might find the
# original and so on. Autoconf is especially sensible to this).
. ./$as_me.lineno
# Exit status is that of the last command.
exit

```

```

}

case `echo "testing\c"; echo 1,2,3`, `echo -n testing; echo 1,2,3` in
*c*,-n*) ECHO_N= ECHO_C='
' ECHO_T=' ' ;;
*c*,* ) ECHO_N=-n ECHO_C= ECHO_T= ;;
*)      ECHO_N= ECHO_C='\c' ECHO_T= ;;
esac

if expr a : '\(a\)' >/dev/null 2>&1; then
  as_expr=expr
else
  as_expr=false
fi

rm -f conf$$ conf$$exe conf$$file
echo >conf$$file
if ln -s conf$$file conf$$ 2>/dev/null; then
  # We could just check for DJGPP; but this test a) works b) is more
  generic
  # and c) will remain valid once DJGPP supports symlinks (DJGPP 2.04).
  if test -f conf$$exe; then
    # Don't use ln at all; we don't have any links
    as_ln_s='cp -p'
  else
    as_ln_s='ln -s'
  fi
elif ln conf$$file conf$$ 2>/dev/null; then
  as_ln_s=ln
else
  as_ln_s='cp -p'
fi
rm -f conf$$ conf$$exe conf$$file

if mkdir -p . 2>/dev/null; then
  as_mkdir_p=:
else
  test -d ./-p && rmdir ./-p
  as_mkdir_p=false
fi

as_executable_p="test -f"

# Sed expression to map a string onto a valid CPP name.
as_tr_cpp="eval sed
'y%*$as_cr_letters%P$as_cr_LETTERS%;s%[^_$as_cr_alnum]%%_g'"

# Sed expression to map a string onto a valid variable name.
as_tr_sh="eval sed 'y%*+%pp%;s%[^_$as_cr_alnum]%%_g'"

# IFS
# We need space, tab and new line, in precisely that order.

```

```

as_nl='
IFS="      $as_nl"

# CDPATH.
$as_unset CDPATH

exec 6>&1

# Open the log real soon, to keep \${0} and so on meaningful, and to
# report actual input values of CONFIG_FILES etc. instead of their
# values after options handling. Logging --version etc. is OK.
exec 5>>config.log
{
  echo
  sed 'h;s/./-/g;s/^\.../## /;s/...\$/ ##/;p;x;p;x' <<_ASBOX
## Running $as_me. ##
_ASBOX
} >&5
cat >&5 <<_CSEOF

```

This file was extended by sysfsutils \$as\_me 2.1.0, which was generated by GNU Autoconf 2.59. Invocation command line was

```

CONFIG_FILES      = $CONFIG_FILES
CONFIG_HEADERS    = $CONFIG_HEADERS
CONFIG_LINKS      = $CONFIG_LINKS
CONFIG_COMMANDS   = $CONFIG_COMMANDS
$ $0 $@

_CSEOF
echo "on `(hostname || uname -n) 2>/dev/null | sed 1q`" >&5
echo >&5
_ACEOF

# Files that config.status was made for.
if test -n "$ac_config_files"; then
  echo "config_files=\"$ac_config_files\"" >>$CONFIG_STATUS
fi

if test -n "$ac_config_headers"; then
  echo "config_headers=\"$ac_config_headers\"" >>$CONFIG_STATUS
fi

if test -n "$ac_config_links"; then
  echo "config_links=\"$ac_config_links\"" >>$CONFIG_STATUS
fi

if test -n "$ac_config_commands"; then
  echo "config_commands=\"$ac_config_commands\"" >>$CONFIG_STATUS
fi

cat >>$CONFIG_STATUS <<\_ACEOF

```

```
ac_cs_usage="\
\`$as_me' instantiates files from templates according to the
current configuration.
```

```
Usage: $0 [OPTIONS] [FILE]...
```

```
-h, --help          print this help, then exit
-V, --version       print version number, then exit
-q, --quiet         do not print progress messages
-d, --debug         don't remove temporary files
  --recheck         update $as_me by reconfiguring in the same conditions
--file=FILE[:TEMPLATE]
                    instantiate the configuration file FILE
--header=FILE[:TEMPLATE]
                    instantiate the configuration header FILE
```

```
Configuration files:
$config_files
```

```
Configuration headers:
$config_headers
```

```
Configuration commands:
$config_commands
```

```
Report bugs to <bug-autoconf@gnu.org>."
_ACEOF
```

```
cat >>$CONFIG_STATUS <<_ACEOF
ac_cs_version="\`
sysfsutils config.status 2.1.0
configured by $0, generated by GNU Autoconf 2.59,
  with options `\"`echo "$ac_configure_args" | sed
's/[\\\"`\`$]/\\\\&/g'`\"`"
```

```
Copyright (C) 2003 Free Software Foundation, Inc.
This config.status script is free software; the Free Software Foundation
gives unlimited permission to copy, distribute and modify it."
```

```
srcdir=$srcdir
INSTALL="$INSTALL"
_ACEOF
```

```
cat >>$CONFIG_STATUS <<\_ACEOF
# If no file are specified by the user, then we need to provide default
# value.  By we need to know if files were specified by the user.
ac_need_defaults=:
while test $# != 0
do
  case $1 in
    --*=*)
      ac_option=`expr "x$1" : 'x\([^=]*\)='`
      ac_optarg=`expr "x$1" : 'x\([^=]*=\(.*)'`
      ac_shift=:
      ;;
```

```

-*)
  ac_option=$1
  ac_optarg=$2
  ac_shift=shift
  ;;
*) # This is not an option, so the user has probably given explicit
   # arguments.
   ac_option=$1
   ac_need_defaults=false;;
esac

case $ac_option in
  # Handling of the options.
  _ACEOF
cat >>$CONFIG_STATUS <<\_ACEOF
  -recheck | --recheck | --rehec | --reche | --rech | --rec | --re | --
r)
  ac_cs_recheck=: ;;
  --version | --vers* | -V )
  echo "$ac_cs_version"; exit 0 ;;
  --he | --h)
  # Conflict between --help and --header
  { { echo "$as_me:$LINENO: error: ambiguous option: $1
Try \`$0 --help' for more information." >&5
echo "$as_me: error: ambiguous option: $1
Try \`$0 --help' for more information." >&2;}
  { (exit 1); exit 1; }; }; };
  --help | --hel | -h )
  echo "$ac_cs_usage"; exit 0 ;;
  --debug | --d* | -d )
  debug=: ;;
  --file | --fil | --fi | --f )
  $ac_shift
  CONFIG_FILES="$CONFIG_FILES $ac_optarg"
  ac_need_defaults=false;;
  --header | --heade | --head | --hea )
  $ac_shift
  CONFIG_HEADERS="$CONFIG_HEADERS $ac_optarg"
  ac_need_defaults=false;;
  -q | -quiet | --quiet | --quie | --qui | --qu | --q \
| -silent | --silent | --silen | --sile | --sil | --si | --s)
  ac_cs_silent=: ;;

  # This is an error.
  -*) { { echo "$as_me:$LINENO: error: unrecognized option: $1
Try \`$0 --help' for more information." >&5
echo "$as_me: error: unrecognized option: $1
Try \`$0 --help' for more information." >&2;}
  { (exit 1); exit 1; }; }; };

  *) ac_config_targets="$ac_config_targets $1" ;;

esac
shift

```

```

done

ac_configure_extra_args=

if $ac_cs_silent; then
  exec 6>/dev/null
  ac_configure_extra_args="$ac_configure_extra_args --silent"
fi

_ACEOF
cat >>$CONFIG_STATUS <<_ACEOF
if \ $ac_cs_recheck; then
  echo "running $SHELL $0 " $ac_configure_args \ $ac_configure_extra_args
  " --no-create --no-recursion" >&6
  exec $SHELL $0 $ac_configure_args \ $ac_configure_extra_args --no-create
  --no-recursion
fi

_ACEOF

cat >>$CONFIG_STATUS <<_ACEOF
#
# INIT-COMMANDS section.
#

AMDEP_TRUE="$AMDEP_TRUE" ac_aux_dir="$ac_aux_dir"

_ACEOF

cat >>$CONFIG_STATUS <<\_ACEOF
for ac_config_target in $ac_config_targets
do
  case "$ac_config_target" in
    # Handling of arguments.
    "Makefile" ) CONFIG_FILES="$CONFIG_FILES Makefile" ;;
    "lib/Makefile" ) CONFIG_FILES="$CONFIG_FILES lib/Makefile" ;;
    "cmd/Makefile" ) CONFIG_FILES="$CONFIG_FILES cmd/Makefile" ;;
    "test/Makefile" ) CONFIG_FILES="$CONFIG_FILES test/Makefile" ;;
    "depfiles" ) CONFIG_COMMANDS="$CONFIG_COMMANDS depfiles" ;;
    "config.h" ) CONFIG_HEADERS="$CONFIG_HEADERS config.h" ;;
    *) { { echo "$as_me:$LINENO: error: invalid argument:
$ac_config_target" >&5
echo "$as_me: error: invalid argument: $ac_config_target" >&2;}
    { (exit 1); exit 1; }; }; };
  esac
done

# If the user did not use the arguments to specify the items to
# instantiate,
# then the envvar interface is used. Set only those that are not.
# We use the long form for the default assignment because of an extremely
# bizarre bug on SunOS 4.1.3.

```

```

if $ac_need_defaults; then
  test "${CONFIG_FILES+set}" = set || CONFIG_FILES=$config_files
  test "${CONFIG_HEADERS+set}" = set || CONFIG_HEADERS=$config_headers
  test "${CONFIG_COMMANDS+set}" = set || CONFIG_COMMANDS=$config_commands
fi

# Have a temporary directory for convenience.  Make it in the build tree
# simply because there is no reason to put it here, and in addition,
# creating and moving files from /tmp can sometimes cause problems.
# Create a temporary directory, and hook for its removal unless
# debugging.
$debug ||
{
  trap 'exit_status=$?; rm -rf $tmp && exit $exit_status' 0
  trap '{ (exit 1); exit 1; }' 1 2 13 15
}

# Create a (secure) tmp directory for tmp files.

{
  tmp=`(umask 077 && mktemp -d -q "./confstatXXXXXX") 2>/dev/null` &&
  test -n "$tmp" && test -d "$tmp"
} ||
{
  tmp=./confstat$$-$RANDOM
  (umask 077 && mkdir $tmp)
} ||
{
  echo "$me: cannot create a temporary directory in ." >&2
  { (exit 1); exit 1; }
}

_ACEOF

cat >>$CONFIG_STATUS <<_ACEOF

#
# CONFIG_FILES section.
#

# No need to generate the scripts if there are no CONFIG_FILES.
# This happens for instance when ./config.status config.h
if test -n "\$CONFIG_FILES"; then
  # Protect against being on the right side of a sed subst in
  # config.status.
  sed 's/,@/@@/; s/,@/@@/; s/,;t t\$/@;t t/; /@;t t\$/s/[\\&,&]/\\&/g;
  s/@@/,@/; s/@@/@,/; s/@;t t\$/,;t t/' >\$tmp/subs.sed <<\\CEOF
s,@SHELL@,$SHELL,;t t
s,@PATH_SEPARATOR@,$PATH_SEPARATOR,;t t
s,@PACKAGE_NAME@,$PACKAGE_NAME,;t t
s,@PACKAGE_TARNAME@,$PACKAGE_TARNAME,;t t
s,@PACKAGE_VERSION@,$PACKAGE_VERSION,;t t
s,@PACKAGE_STRING@,$PACKAGE_STRING,;t t
s,@PACKAGE_BUGREPORT@,$PACKAGE_BUGREPORT,;t t

```



```

s,@exec_prefix@,$exec_prefix,;t t
s,@prefix@,$prefix,;t t
s,@program_transform_name@,$program_transform_name,;t t
s,@bindir@,$bindir,;t t
s,@sbindir@,$sbindir,;t t
s,@libexecdir@,$libexecdir,;t t
s,@datadir@,$datadir,;t t
s,@sysconfdir@,$sysconfdir,;t t
s,@sharedstatedir@,$sharedstatedir,;t t
s,@localstatedir@,$localstatedir,;t t
s,@libdir@,$libdir,;t t
s,@includedir@,$includedir,;t t
s,@oldincludedir@,$oldincludedir,;t t
s,@infodir@,$infodir,;t t
s,@mandir@,$mandir,;t t
s,@build_alias@,$build_alias,;t t
s,@host_alias@,$host_alias,;t t
s,@target_alias@,$target_alias,;t t
s,@DEFS@,$DEFS,;t t
s,@ECHO_C@,$ECHO_C,;t t
s,@ECHO_N@,$ECHO_N,;t t
s,@ECHO_T@,$ECHO_T,;t t
s,@LIBS@,$LIBS,;t t
s,@INSTALL_PROGRAM@,$INSTALL_PROGRAM,;t t
s,@INSTALL_SCRIPT@,$INSTALL_SCRIPT,;t t
s,@INSTALL_DATA@,$INSTALL_DATA,;t t
s,@CYGPATH_W@,$CYGPATH_W,;t t
s,@PACKAGE@,$PACKAGE,;t t
s,@VERSION@,$VERSION,;t t
s,@ACLOCAL@,$ACLOCAL,;t t
s,@AUTOCONF@,$AUTOCONF,;t t
s,@AUTOMAKE@,$AUTOMAKE,;t t
s,@AUTOHEADER@,$AUTOHEADER,;t t
s,@MAKEINFO@,$MAKEINFO,;t t
s,@install_sh@,$install_sh,;t t
s,@STRIP@,$STRIP,;t t
s,@ac_ct_STRIP@,$ac_ct_STRIP,;t t
s,@INSTALL_STRIP_PROGRAM@,$INSTALL_STRIP_PROGRAM,;t t
s,@mkdir_p@,$mkdir_p,;t t
s,@AWK@,$AWK,;t t
s,@SET_MAKE@,$SET_MAKE,;t t
s,@am__leading_dot@,$am__leading_dot,;t t
s,@AMTAR@,$AMTAR,;t t
s,@am__tar@,$am__tar,;t t
s,@am__untar@,$am__untar,;t t
s,@build@,$build,;t t
s,@build_cpu@,$build_cpu,;t t
s,@build_vendor@,$build_vendor,;t t
s,@build_os@,$build_os,;t t
s,@host@,$host,;t t
s,@host_cpu@,$host_cpu,;t t
s,@host_vendor@,$host_vendor,;t t
s,@host_os@,$host_os,;t t
s,@KLCC@,$KLCC,;t t

```

```

s,@KLIBC@,$KLIBC,;t t
s,@KLIBC_TRUE@,$KLIBC_TRUE,;t t
s,@KLIBC_FALSE@,$KLIBC_FALSE,;t t
s,@EXTRA_CFLAGS@,$EXTRA_CFLAGS,;t t
s,@CC@,$CC,;t t
s,@CFLAGS@,$CFLAGS,;t t
s,@LDFLAGS@,$LDFLAGS,;t t
s,@CPPFLAGS@,$CPPFLAGS,;t t
s,@ac_ct_CC@,$ac_ct_CC,;t t
s,@EXEEXT@,$EXEEXT,;t t
s,@OBJEXT@,$OBJEXT,;t t
s,@DEPDIR@,$DEPDIR,;t t
s,@am__include@,$am__include,;t t
s,@am__quote@,$am__quote,;t t
s,@AMDEP_TRUE@,$AMDEP_TRUE,;t t
s,@AMDEP_FALSE@,$AMDEP_FALSE,;t t
s,@AMDEPBACKSLASH@,$AMDEPBACKSLASH,;t t
s,@CCDEPMODE@,$CCDEPMODE,;t t
s,@am__fastdepCC_TRUE@,$am__fastdepCC_TRUE,;t t
s,@am__fastdepCC_FALSE@,$am__fastdepCC_FALSE,;t t
s,@EGREP@,$EGREP,;t t
s,@LN_S@,$LN_S,;t t
s,@ECHO@,$ECHO,;t t
s,@AR@,$AR,;t t
s,@ac_ct_AR@,$ac_ct_AR,;t t
s,@RANLIB@,$RANLIB,;t t
s,@ac_ct_RANLIB@,$ac_ct_RANLIB,;t t
s,@CPP@,$CPP,;t t
s,@CXX@,$CXX,;t t
s,@CXXFLAGS@,$CXXFLAGS,;t t
s,@ac_ct_CXX@,$ac_ct_CXX,;t t
s,@CXXDEPMODE@,$CXXDEPMODE,;t t
s,@am__fastdepCXX_TRUE@,$am__fastdepCXX_TRUE,;t t
s,@am__fastdepCXX_FALSE@,$am__fastdepCXX_FALSE,;t t
s,@CXXCPP@,$CXXCPP,;t t
s,@F77@,$F77,;t t
s,@FFLAGS@,$FFLAGS,;t t
s,@ac_ct_F77@,$ac_ct_F77,;t t
s,@LIBTOOL@,$LIBTOOL,;t t
s,@LIBOBJ@,$LIBOBJ,;t t
s,@LTLIBOBJ@,$LTLIBOBJ,;t t
CEOF

```

\_ACEOF

```

cat >>$CONFIG_STATUS <<\_ACEOF
# Split the substitutions into bite-sized pieces for sed's with
# small command number limits, like on Digital OSF/1 and HP-UX.
ac_max_sed_lines=48
ac_sed_frag=1 # Number of current file.
ac_beg=1 # First line for current file.
ac_end=$ac_max_sed_lines # Line after last line for current file.
ac_more_lines=:
ac_sed_cmds=

```

```

while $ac_more_lines; do
  if test $ac_beg -gt 1; then
    sed "1,${ac_beg}d; ${ac_end}q" $tmp/subs.sed >$tmp/subs.frag
  else
    sed "${ac_end}q" $tmp/subs.sed >$tmp/subs.frag
  fi
  if test ! -s $tmp/subs.frag; then
    ac_more_lines=false
  else
    # The purpose of the label and of the branching condition is to
    # speed up the sed processing (if there are no `@' at all, there
    # is no need to browse any of the substitutions).
    # These are the two extra sed commands mentioned above.
    (echo ':t
/@[a-zA-Z_][a-zA-Z_0-9]*@/!b' && cat $tmp/subs.frag) >$tmp/subs-
$ac_sed_frag.sed
    if test -z "$ac_sed_cmds"; then
      ac_sed_cmds="sed -f $tmp/subs-$ac_sed_frag.sed"
    else
      ac_sed_cmds="$ac_sed_cmds | sed -f $tmp/subs-$ac_sed_frag.sed"
    fi
    ac_sed_frag=`expr $ac_sed_frag + 1`
    ac_beg=$ac_end
    ac_end=`expr $ac_end + $ac_max_sed_lines`
  fi
done
if test -z "$ac_sed_cmds"; then
  ac_sed_cmds=cat
fi
fi # test -n "$CONFIG_FILES"

_ACEOF
cat >>$CONFIG_STATUS <<\_ACEOF
for ac_file in : $CONFIG_FILES; do test "x$ac_file" = x: && continue
# Support "outfile[:infile[:infile...]]", defaulting
infile="outfile.in".
case $ac_file in
- | *:- | *:-:* ) # input from stdin
  cat >$tmp/stdin
  ac_file_in=`echo "$ac_file" | sed 's,[^:]*:,,'`
  ac_file=`echo "$ac_file" | sed 's,:.*,,'` ;;
*:*) ac_file_in=`echo "$ac_file" | sed 's,[^:]*:,,'`
  ac_file=`echo "$ac_file" | sed 's,:.*,,'` ;;
* ) ac_file_in=$ac_file.in ;;
esac

# Compute @srcdir@, @top_srcdir@, and @INSTALL@ for subdirectories.
ac_dir=`(dirname "$ac_file") 2>/dev/null ||
$as_expr X"$ac_file" : 'X\([^/]\)\/*[^/][^/]*/*$' \|| \
X"$ac_file" : 'X\(/\/\)[^/]' \|| \
X"$ac_file" : 'X\(/\/\)$' \|| \
X"$ac_file" : 'X\(/\/)' \|| \
. : '\(.\)' 2>/dev/null ||
echo X"$ac_file" |

```

```

sed '/^X\(.*[^\]\\\)\*\[^\][^\]*\*\$/{ s//\1/; q; }
/^X\(\\\)\[^\].*/{ s//\1/; q; }
/^X\(\\\)\$/{ s//\1/; q; }
/^X\(\\\).*/{ s//\1/; q; }
s/.*/./; q'`
{ if $as_mkdir_p; then
  mkdir -p "$ac_dir"
else
  as_dir="$ac_dir"
  as_dirs=
  while test ! -d "$as_dir"; do
    as_dirs="$as_dir $as_dirs"
    as_dir=`(dirname "$as_dir") 2>/dev/null ||
$as_expr X"$as_dir" : 'X\(.*[^\]\\\)\*\[^\][^\]*\*\$' \|\ \
X"$as_dir" : 'X\(//\)[^\]' \|\ \
X"$as_dir" : 'X\(//\)$' \|\ \
X"$as_dir" : 'X\(/\)' \|\ \
. : '\\(.\\)' 2>/dev/null ||
echo X"$as_dir" |
sed '/^X\(.*[^\]\\\)\*\[^\][^\]*\*\$/{ s//\1/; q; }
/^X\(\\\)\[^\].*/{ s//\1/; q; }
/^X\(\\\)\$/{ s//\1/; q; }
/^X\(\\\).*/{ s//\1/; q; }
s/.*/./; q'`
done
test ! -n "$as_dirs" || mkdir $as_dirs
fi || { { echo "$as_me:$LINENO: error: cannot create directory
\"$ac_dir\"" >&5
echo "$as_me: error: cannot create directory \"$ac_dir\"" >&2; }
{ (exit 1); exit 1; }; }; }

ac_builddir=.

if test "$ac_dir" != .; then
  ac_dir_suffix=`echo "$ac_dir" | sed 's,^\.[\\\/],,,'`
  # A "../" for each directory in $ac_dir_suffix.
  ac_top_builddir=`echo "$ac_dir_suffix" | sed 's,/[^\\\/]*,../,g'`
else
  ac_dir_suffix= ac_top_builddir=
fi

case $srcdir in
.) # No --srcdir option. We are building in place.
  ac_srcdir=.
  if test -z "$ac_top_builddir"; then
    ac_top_srcdir=.
  else
    ac_top_srcdir=`echo $ac_top_builddir | sed 's,/$/,,'`
  fi ;;
[\\\/]* | ?:[\\\/]* ) # Absolute path.
  ac_srcdir=$srcdir$ac_dir_suffix;
  ac_top_srcdir=$srcdir ;;
*) # Relative path.
  ac_srcdir=$ac_top_builddir$srcdir$ac_dir_suffix

```

```

    ac_top_srcdir=$ac_top_builddir$srcdir ;;
esac

# Do not use `cd foo && pwd` to compute absolute paths, because
# the directories may not exist.
case `pwd` in
.) ac_abs_builddir="$ac_dir";;
*)
    case "$ac_dir" in
    .) ac_abs_builddir=`pwd`;;
    [\\/] * | ?:[\\/] * ) ac_abs_builddir="$ac_dir";;
    *) ac_abs_builddir=`pwd`/"$ac_dir";;
    esac;;
esac
case $ac_abs_builddir in
.) ac_abs_top_builddir=${ac_top_builddir}.;;
*)
    case ${ac_top_builddir}. in
    .) ac_abs_top_builddir=$ac_abs_builddir;;
    [\\/] * | ?:[\\/] * ) ac_abs_top_builddir=${ac_top_builddir}.;;
    *) ac_abs_top_builddir=$ac_abs_builddir/${ac_top_builddir}.;;
    esac;;
esac
case $ac_abs_builddir in
.) ac_abs_srcdir=$ac_srcdir;;
*)
    case $ac_srcdir in
    .) ac_abs_srcdir=$ac_abs_builddir;;
    [\\/] * | ?:[\\/] * ) ac_abs_srcdir=$ac_srcdir;;
    *) ac_abs_srcdir=$ac_abs_builddir/$ac_srcdir;;
    esac;;
esac
case $ac_abs_builddir in
.) ac_abs_top_srcdir=$ac_top_srcdir;;
*)
    case $ac_top_srcdir in
    .) ac_abs_top_srcdir=$ac_abs_builddir;;
    [\\/] * | ?:[\\/] * ) ac_abs_top_srcdir=$ac_top_srcdir;;
    *) ac_abs_top_srcdir=$ac_abs_builddir/$ac_top_srcdir;;
    esac;;
esac

case $INSTALL in
[\\/$]* | ?:[\\/] * ) ac_INSTALL=$INSTALL ;;
*) ac_INSTALL=$ac_top_builddir$INSTALL ;;
esac

if test x"$ac_file" != x-; then
    { echo "$as_me:$LINENO: creating $ac_file" >&5
echo "$as_me: creating $ac_file" >&6;}
    rm -f "$ac_file"
fi
# Let's still pretend it is `configure' which instantiates (i.e., don't

```

```

# use $as_me), people would be surprised to read:
# /* config.h. Generated by config.status. */
if test x"$ac_file" = x-; then
  configure_input=
else
  configure_input="$ac_file. "
fi
configure_input=$configure_input"Generated from `echo $ac_file_in |
    sed 's,./,,'` by configure."

# First look for the input files in the build tree, otherwise in the
# src tree.
ac_file_inputs=`IFS=:
  for f in $ac_file_in; do
    case $f in
      -) echo $tmp/stdin ;;
      [\\/$]*)
        # Absolute (can't be DOS-style, as IFS=:)
        test -f "$f" || { { echo "$as_me:$LINENO: error: cannot find input
file: $f" >&5
echo "$as_me: error: cannot find input file: $f" >&2;}
        { (exit 1); exit 1; }; }
        echo "$f";;
      *) # Relative
        if test -f "$f"; then
          # Build tree
          echo "$f"
        elif test -f "$srcdir/$f"; then
          # Source tree
          echo "$srcdir/$f"
        else
          # /dev/null tree
          { { echo "$as_me:$LINENO: error: cannot find input file: $f" >&5
echo "$as_me: error: cannot find input file: $f" >&2;}
          { (exit 1); exit 1; }; }
        fi;;
    esac
  done ` || { (exit 1); exit 1; }
_ACEOF
cat >>$CONFIG_STATUS <<_ACEOF
  sed "$ac_vpsub
$extrasub
_ACEOF
cat >>$CONFIG_STATUS <<\_ACEOF
:t
/@[a-zA-Z_][a-zA-Z_0-9]*@/!b
s,@configure_input@,$configure_input,;t t
s,@srcdir@,$ac_srcdir,;t t
s,@abs_srcdir@,$ac_abs_srcdir,;t t
s,@top_srcdir@,$ac_top_srcdir,;t t
s,@abs_top_srcdir@,$ac_abs_top_srcdir,;t t
s,@builddir@,$ac_builddir,;t t
s,@abs_builddir@,$ac_abs_builddir,;t t
s,@top_builddir@,$ac_top_builddir,;t t

```

```

s,@abs_top_builddir@,$ac_abs_top_builddir,;t t
s,@INSTALL@,$ac_INSTALL,;t t
" $ac_file_inputs | (eval "$ac_sed_cmds") >$tmp/out
  rm -f $tmp/stdin
  if test x"$ac_file" != x-; then
    mv $tmp/out $ac_file
  else
    cat $tmp/out
    rm -f $tmp/out
  fi

done
_ACEOF
cat >>$CONFIG_STATUS <<\_ACEOF

#
# CONFIG_HEADER section.
#

# These sed commands are passed to sed as "A NAME B NAME C VALUE D",
where
# NAME is the cpp macro being defined and VALUE is the value it is being
given.
#
# ac_d sets the value in "#define NAME VALUE" lines.
ac_dA='s,^\([      ]*\)\#\([      ]*define[      ]*\)'
ac_dB='[      ].*$, \1#\2'
ac_dC=' '
ac_dD=',;t'
# ac_u turns "#undef NAME" without trailing blanks into "#define NAME
VALUE".
ac_uA='s,^\([      ]*\)\#\([      ]*\)undef\([      ]*\)'
ac_uB='$, \1#\2define\3'
ac_uC=' '
ac_uD=',;t'

for ac_file in : $CONFIG_HEADERS; do test "x$ac_file" = x: && continue
# Support "outfile[:infile[:infile...]]", defaulting
infile="outfile.in".
case $ac_file in
- | *:- | *:-:* ) # input from stdin
  cat >$tmp/stdin
  ac_file_in=`echo "$ac_file" | sed 's,[^:]*:,,'`
  ac_file=`echo "$ac_file" | sed 's,.*,,` ;;
*:*) ac_file_in=`echo "$ac_file" | sed 's,[^:]*:,,'`
  ac_file=`echo "$ac_file" | sed 's,.*,,` ;;
*) ac_file_in=$ac_file.in ;;
esac

test x"$ac_file" != x- && { echo "$as_me:$LINENO: creating $ac_file"
>&5
echo "$as_me: creating $ac_file" >&6;}

# First look for the input files in the build tree, otherwise in the

```

```

# src tree.
ac_file_inputs=`IFS=:
  for f in $ac_file_in; do
    case $f in
      -) echo $tmp/stdin ;;
      [\\/$]*)
        # Absolute (can't be DOS-style, as IFS=:)
        test -f "$f" || { { echo "$as_me:$LINENO: error: cannot find input
file: $f" >&5
echo "$as_me: error: cannot find input file: $f" >&2;}
{ (exit 1); exit 1; }; }
        # Do quote $f, to prevent DOS paths from being IFS'd.
        echo "$f";;
      *) # Relative
        if test -f "$f"; then
          # Build tree
          echo "$f"
        elif test -f "$srcdir/$f"; then
          # Source tree
          echo "$srcdir/$f"
        else
          # /dev/null tree
          { { echo "$as_me:$LINENO: error: cannot find input file: $f" >&5
echo "$as_me: error: cannot find input file: $f" >&2;}
{ (exit 1); exit 1; }; }
          fi;;
        esac
      done ` || { (exit 1); exit 1; }
# Remove the trailing spaces.
sed 's/[ ]*$//' $ac_file_inputs >$tmp/in

```

\_ACEOF

```

# Transform confdefs.h into two sed scripts, `conftest.defines' and
# `conftest.undefs', that substitutes the proper values into
# config.h.in to produce config.h. The first handles `#define'
# templates, and the second `#undef' templates.
# And first: Protect against being on the right side of a sed subst in
# config.status. Protect against being in an unquoted here document
# in config.status.
rm -f conftest.defines conftest.undefs
# Using a here document instead of a string reduces the quoting
nightmare.
# Putting comments in sed scripts is not portable.
#
# `end' is used to avoid that the second main sed command (meant for
# 0-ary CPP macros) applies to n-ary macro definitions.
# See the Autoconf documentation for `clear'.
cat >confdef2sed.sed <<\_ACEOF
s/[\\&,]/\\&/g
s,[\\$`],\\&,g
t clear
: clear

```



```

s,^[ ]*#[ ]*define[ ]*[ ]*\([^\(\)\(\([^\)]*\)\)\([
]*\(.*\)$,{ac_dA}\1${ac_dB}\1\2${ac_dC}\3${ac_dD},gp
t end
s,^[ ]*#[ ]*define[ ]*[ ]*\([^\(\)\(\([^\)]*\)\)\([
]*\(.*\)$,{ac_dA}\1${ac_dB}\1${ac_dC}\2${ac_dD},gp
: end
_ACEOF
# If some macros were called several times there might be several times
# the same #defines, which is useless. Nevertheless, we may not want to
# sort them, since we want the *last* AC-DEFINE to be honored.
uniq confdefs.h | sed -n -f confdef2sed.sed >confptest.defines
sed 's/ac_d/ac_u/g' confptest.defines >confptest.undefs
rm -f confdef2sed.sed

# This sed command replaces #undef with comments. This is necessary, for
# example, in the case of _POSIX_SOURCE, which is predefined and required
# on some systems where configure will not decide to define it.
cat >>confptest.undefs <<\_ACEOF
s,^[ ]*#[ ]*undef[ ]*[ ]*\([^\(\)\(\([^\)]*\)\)\([
]*\(.*\)$,{ac_dA}\1${ac_dB}\1${ac_dC}\2${ac_dD},gp
_ACEOF

# Break up confptest.defines because some shells have a limit on the size
# of here documents, and old sed's have small limits too (100 cmds).
echo ' # Handle all the #define templates only if necessary.'
>>$CONFIG_STATUS
echo ' if grep "^[ ]*#[ ]*define" $tmp/in >/dev/null; then'
>>$CONFIG_STATUS
echo ' # If there are no defines, we may have an empty if/fi'
>>$CONFIG_STATUS
echo ' :' >>$CONFIG_STATUS
rm -f confptest.tail
while grep . confptest.defines >/dev/null
do
    # Write a limited-size here document to $tmp/defines.sed.
    echo ' cat >$tmp/defines.sed <<CEOF' >>$CONFIG_STATUS
    # Speed up: don't consider the non `#define' lines.
    echo '/^[ ]*#[ ]*define/!b' >>$CONFIG_STATUS
    # Work around the forget-to-reset-the-flag bug.
    echo 't clr' >>$CONFIG_STATUS
    echo ': clr' >>$CONFIG_STATUS
    sed ${ac_max_here_lines}q confptest.defines >>$CONFIG_STATUS
    echo 'CEOF'
    sed -f $tmp/defines.sed $tmp/in >$tmp/out
    rm -f $tmp/in
    mv $tmp/out $tmp/in
' >>$CONFIG_STATUS
sed 1,${ac_max_here_lines}d confptest.defines >confptest.tail
rm -f confptest.defines
mv confptest.tail confptest.defines
done
rm -f confptest.defines
echo ' fi # grep' >>$CONFIG_STATUS
echo >>$CONFIG_STATUS

```

```

# Break up confptest.undefs because some shells have a limit on the size
# of here documents, and old sed's have small limits too (100 cmds).
echo ' # Handle all the #undef templates' >>$CONFIG_STATUS
rm -f confptest.tail
while grep . confptest.undefs >/dev/null
do
    # Write a limited-size here document to $tmp/undefs.sed.
    echo ' cat >$tmp/undefs.sed <<CEOF' >>$CONFIG_STATUS
    # Speed up: don't consider the non `#undef'
    echo '/^[ ]*#[ ]*undef/!b' >>$CONFIG_STATUS
    # Work around the forget-to-reset-the-flag bug.
    echo 't clr' >>$CONFIG_STATUS
    echo ': clr' >>$CONFIG_STATUS
    sed ${ac_max_here_lines}q confptest.undefs >>$CONFIG_STATUS
    echo 'CEOF'
    sed -f $tmp/undefs.sed $tmp/in >$tmp/out
    rm -f $tmp/in
    mv $tmp/out $tmp/in
' >>$CONFIG_STATUS
    sed 1,${ac_max_here_lines}d confptest.undefs >confptest.tail
    rm -f confptest.undefs
    mv confptest.tail confptest.undefs
done
rm -f confptest.undefs

cat >>$CONFIG_STATUS <<\_ACEOF
# Let's still pretend it is `configure' which instantiates (i.e., don't
# use $as_me), people would be surprised to read:
# /* config.h. Generated by config.status. */
if test x"$ac_file" = x-; then
    echo "/* Generated by configure. */" >$tmp/config.h
else
    echo "/* $ac_file. Generated by configure. */" >$tmp/config.h
fi
cat $tmp/in >>$tmp/config.h
rm -f $tmp/in
if test x"$ac_file" != x-; then
    if diff $ac_file $tmp/config.h >/dev/null 2>&1; then
        { echo "$as_me:$LINENO: $ac_file is unchanged" >&5
echo "$as_me: $ac_file is unchanged" >&6;}
    else
        ac_dir=`dirname "$ac_file" 2>/dev/null ||
$as_expr X"$ac_file" : 'X\([^/]\)\/*\([^/]\)\/*\*' \|| \
X"$ac_file" : 'X\(/\)\[^/]' \|| \
X"$ac_file" : 'X\(/\)\$' \|| \
X"$ac_file" : 'X\(/\)' \|| \
. : '\(.\)' 2>/dev/null ||
echo X"$ac_file" |
sed '/^X\([^/]\)\*\/*\([^/]\)\*\/*\*/{ s//\1/; q; }
/^X\(\//\)\[^/]\.*\/*\*/{ s//\1/; q; }
/^X\(\//\)\$*\/*\*/{ s//\1/; q; }
/^X\(\//\)\.*\/*\*/{ s//\1/; q; }
s/.*\./; q`
        { if $as_mkdir_p; then

```

```

mkdir -p "$ac_dir"
else
  as_dir="$ac_dir"
  as_dirs=
  while test ! -d "$as_dir"; do
    as_dirs="$as_dir $as_dirs"
    as_dir=`(dirname "$as_dir") 2>/dev/null ||
$as_expr X"$as_dir" : 'X\(.*[^/]\)\/*[^/][^/]*/*$' \|| \
  X"$as_dir" : 'X\(//\)[^/]' \|| \
  X"$as_dir" : 'X\(//\)$' \|| \
  X"$as_dir" : 'X\(/\)' \|| \
  . : '\(.\)' 2>/dev/null ||
echo X"$as_dir" |
  sed '/^X\(.*[^/]\)\|\|/*[^/][^/]*\/*$/{ s//\1/; q; }
/^X\(\\/\)\)[^/].*/{ s//\1/; q; }
/^X\(\\/\)\)$/{ s//\1/; q; }
/^X\(\\/\).*/{ s//\1/; q; }
s/.*/./; q'`
  done
  test ! -n "$as_dirs" || mkdir $as_dirs
  fi || { { echo "$as_me:$LINENO: error: cannot create directory
\"$ac_dir\"" >&5
echo "$as_me: error: cannot create directory \"$ac_dir\"" >&2;}
  { (exit 1); exit 1; }; }; }

  rm -f $ac_file
  mv $tmp/config.h $ac_file
  fi
else
  cat $tmp/config.h
  rm -f $tmp/config.h
  fi
# Compute $ac_file's index in $config_headers.
_am_stamp_count=1
for _am_header in $config_headers ;; do
  case $_am_header in
    $ac_file | $ac_file:* )
      break ;;
    * )
      _am_stamp_count=`expr $_am_stamp_count + 1` ;;
  esac
done
echo "timestamp for $ac_file" > `(dirname $ac_file) 2>/dev/null ||
$as_expr X$ac_file : 'X\(.*[^/]\)\/*[^/][^/]*/*$' \|| \
  X$ac_file : 'X\(//\)[^/]' \|| \
  X$ac_file : 'X\(//\)$' \|| \
  X$ac_file : 'X\(/\)' \|| \
  . : '\(.\)' 2>/dev/null ||
echo X$ac_file |
  sed '/^X\(.*[^/]\)\|\|/*[^/][^/]*\/*$/{ s//\1/; q; }
/^X\(\\/\)\)[^/].*/{ s//\1/; q; }
/^X\(\\/\)\)$/{ s//\1/; q; }
/^X\(\\/\).*/{ s//\1/; q; }
s/.*/./; q'`/stamp-h$_am_stamp_count

```

```

done
_ACEOF
cat >>$CONFIG_STATUS <<\_ACEOF

#
# CONFIG_COMMANDS section.
#
for ac_file in : $CONFIG_COMMANDS; do test "x$ac_file" = x: && continue
  ac_dest=`echo "$ac_file" | sed 's,::*,,'`
  ac_source=`echo "$ac_file" | sed 's,[^:]*:,,'`
  ac_dir=`(dirname "$ac_dest") 2>/dev/null ||
$as_expr X"$ac_dest" : 'X\(.*[^/]\)\/*[^/][^/]*/*$' \| \
  X"$ac_dest" : 'X\(//\) [^/]' \| \
  X"$ac_dest" : 'X\(//\) $' \| \
  X"$ac_dest" : 'X\(/\)' \| \
  . : '\\(\\.)' 2>/dev/null ||
echo X"$ac_dest" |
  sed '/^X\(.*[^/]\)\|\/\/*[^/][^/]*\/*$/{ s//\1/; q; }
/^X\(\|\/\)\|[^/].*/{ s//\1/; q; }
/^X\(\|\/\)\|$/ { s//\1/; q; }
/^X\(\|\/\).*/{ s//\1/; q; }
s/.*/./; q`
  { if $as_mkdir_p; then
    mkdir -p "$ac_dir"
  else
    as_dir="$ac_dir"
    as_dirs=
    while test ! -d "$as_dir"; do
      as_dirs="$as_dir $as_dirs"
      as_dir=`(dirname "$as_dir") 2>/dev/null ||
$as_expr X"$as_dir" : 'X\(.*[^/]\)\/*[^/][^/]*/*$' \| \
  X"$as_dir" : 'X\(//\) [^/]' \| \
  X"$as_dir" : 'X\(//\) $' \| \
  X"$as_dir" : 'X\(/\)' \| \
  . : '\\(\\.)' 2>/dev/null ||
echo X"$as_dir" |
  sed '/^X\(.*[^/]\)\|\/\/*[^/][^/]*\/*$/{ s//\1/; q; }
/^X\(\|\/\)\|[^/].*/{ s//\1/; q; }
/^X\(\|\/\)\|$/ { s//\1/; q; }
/^X\(\|\/\).*/{ s//\1/; q; }
s/.*/./; q`
    done
    test ! -n "$as_dirs" || mkdir $as_dirs
  fi || { { echo "$as_me:$LINENO: error: cannot create directory
\"$ac_dir\"" >&5
echo "$as_me: error: cannot create directory \"$ac_dir\"" >&2; }
  { (exit 1); exit 1; }; }; }

  ac_builddir=.

if test "$ac_dir" != .; then
  ac_dir_suffix=`echo "$ac_dir" | sed 's,^\.[\\\/],,'`
  # A "../" for each directory in $ac_dir_suffix.
  ac_top_builddir=`echo "$ac_dir_suffix" | sed 's,/[^\\\/]*,..,g`

```

```

else
  ac_dir_suffix= ac_top_buildddir=
fi

case $srcdir in
  .) # No --srcdir option. We are building in place.
    ac_srcdir=.
    if test -z "$ac_top_buildddir"; then
      ac_top_srcdir=.
    else
      ac_top_srcdir=`echo $ac_top_buildddir | sed 's,/,$,,'`
    fi ;;
  [\\/* | ?:[\\/*]* ) # Absolute path.
    ac_srcdir=$srcdir$ac_dir_suffix;
    ac_top_srcdir=$srcdir ;;
  *) # Relative path.
    ac_srcdir=$ac_top_buildddir$srcdir$ac_dir_suffix
    ac_top_srcdir=$ac_top_buildddir$srcdir ;;
esac

# Do not use `cd foo && pwd` to compute absolute paths, because
# the directories may not exist.
case `pwd` in
  .) ac_abs_buildddir="$ac_dir";;
  *)
    case "$ac_dir" in
      .) ac_abs_buildddir=`pwd`;;
      [\\/* | ?:[\\/*]* ) ac_abs_buildddir="$ac_dir";;
      *) ac_abs_buildddir=`pwd`/"$ac_dir";;
    esac;;
esac

case $ac_abs_buildddir in
  .) ac_abs_top_buildddir=${ac_top_buildddir}.;;
  *)
    case ${ac_top_buildddir}. in
      .) ac_abs_top_buildddir=$ac_abs_buildddir;;
      [\\/* | ?:[\\/*]* ) ac_abs_top_buildddir=${ac_top_buildddir}.;;
      *) ac_abs_top_buildddir=$ac_abs_buildddir/${ac_top_buildddir}.;;
    esac;;
esac

case $ac_abs_buildddir in
  .) ac_abs_srcdir=$ac_srcdir;;
  *)
    case $ac_srcdir in
      .) ac_abs_srcdir=$ac_abs_buildddir;;
      [\\/* | ?:[\\/*]* ) ac_abs_srcdir=$ac_srcdir;;
      *) ac_abs_srcdir=$ac_abs_buildddir/$ac_srcdir;;
    esac;;
esac

case $ac_abs_buildddir in
  .) ac_abs_top_srcdir=$ac_top_srcdir;;
  *)
    case $ac_top_srcdir in
      .) ac_abs_top_srcdir=$ac_abs_buildddir;;

```

```

[\\/] * | ?:[\\/] * ) ac_abs_top_srcdir=$ac_top_srcdir;;
*) ac_abs_top_srcdir=$ac_abs_builddir/$ac_top_srcdir;;
esac;;
esac

{ echo "$as_me:$LINENO: executing $ac_dest commands" >&5
echo "$as_me: executing $ac_dest commands" >&6;}
case $ac_dest in
  depfiles ) test x"$AMDEP_TRUE" != x"" || for mf in $CONFIG_FILES; do
# Strip MF so we end up with the name of the file.
mf=`echo "$mf" | sed -e 's/:.*$//'`
# Check whether this is an Automake generated Makefile or not.
# We used to match only the files named `Makefile.in', but
# some people rename them; so instead we look at the file content.
# Grep'ing the first line is not enough: some people post-process
# each Makefile.in and add a new line on top of each file to say so.
# So let's grep whole file.
if grep '^#.*generated by automake' $mf > /dev/null 2>&1; then
  dirpart=`(dirname "$mf") 2>/dev/null ||
$as_expr X"$mf" : 'X\(.*[^/]\)\/*\([^/][^/]*/*$' \| \
X"$mf" : 'X\(//\)[^/]' \| \
X"$mf" : 'X\(//\)$' \| \
X"$mf" : 'X\(/\)' \| \
. : '\(.\)' 2>/dev/null ||
echo X"$mf" |
  sed '/^X\(.*[^/]\)\|\/\|*[^/][^/]*\/\|*$/ { s//\1/; q; }
/^X\(\|\/\)\|[^/].*/ { s//\1/; q; }
/^X\(\|\/\)\|$/ { s//\1/; q; }
/^X\(\|\/\).*/ { s//\1/; q; }
s/.*/./; q'`
else
  continue
fi
# Extract the definition of DEPDIR, am__include, and am__quote
# from the Makefile without running `make'.
DEPDIR=`sed -n 's/^DEPDIR = //p' < "$mf"`
test -z "$DEPDIR" && continue
am__include=`sed -n 's/^am__include = //p' < "$mf"`
test -z "am__include" && continue
am__quote=`sed -n 's/^am__quote = //p' < "$mf"`
# When using ansi2knr, U may be empty or an underscore; expand it
U=`sed -n 's/^U = //p' < "$mf"`
# Find all dependency output files, they are included files with
# $(DEPDIR) in their names. We invoke sed twice because it is the
# simplest approach to changing $(DEPDIR) to its actual value in the
# expansion.
for file in `sed -n "
s/^$am__include $am__quote\(.*(DEPDIR).*\) $am__quote" '$/\1/p' <"$mf"
| \
  sed -e 's/\$(DEPDIR)/'"$DEPDIR"'/g' -e 's/\$U/'"$U"/g`; do
# Make sure the directory exists.
test -f "$dirpart/$file" && continue
fdirdir=`(dirname "$file") 2>/dev/null ||

```

```

$as_expr X"$file" : 'X\(.*[^/]\)\/*[^/][^/]*/*$' \|\ \
  X"$file" : 'X\(//\)[^/]' \|\ \
  X"$file" : 'X\(//\)$' \|\ \
  X"$file" : 'X\(/\)' \|\ \
  . : '\(.\)' 2>/dev/null ||
echo X"$file" |
  sed '/^X\(.*[^/]\)\/*[^/][^/]*/*$/{ s//\1/; q; }
  /^X\(\//\)[^/].*/{ s//\1/; q; }
  /^X\(\//\)$/{ s//\1/; q; }
  /^X\(\//\).*/{ s//\1/; q; }
  s/.*/./; q'`
  { if $as_mkdir_p; then
  mkdir -p $dirpart/$fdir
else
  as_dir=$dirpart/$fdir
  as_dirs=
  while test ! -d "$as_dir"; do
    as_dirs="$as_dir $as_dirs"
    as_dir=`(dirname "$as_dir") 2>/dev/null ||
$as_expr X"$as_dir" : 'X\(.*[^/]\)\/*[^/][^/]*/*$' \|\ \
  X"$as_dir" : 'X\(\//\)[^/]' \|\ \
  X"$as_dir" : 'X\(\//\)$' \|\ \
  X"$as_dir" : 'X\(\//\)' \|\ \
  . : '\(.\)' 2>/dev/null ||
echo X"$as_dir" |
  sed '/^X\(.*[^/]\)\/*[^/][^/]*/*$/{ s//\1/; q; }
  /^X\(\//\)[^/].*/{ s//\1/; q; }
  /^X\(\//\)$/{ s//\1/; q; }
  /^X\(\//\).*/{ s//\1/; q; }
  s/.*/./; q'`
  done
  test ! -n "$as_dirs" || mkdir $as_dirs
  fi || { { echo "$as_me:$LINENO: error: cannot create directory
$dirpart/$fdir" >&5
echo "$as_me: error: cannot create directory $dirpart/$fdir" >&2;}
  { (exit 1); exit 1; }; }; }

  # echo "creating $dirpart/$file"
  echo '# dummy' > "$dirpart/$file"
done
done
;;
esac
done
_ACEOF

cat >>$CONFIG_STATUS <<\_ACEOF

{ (exit 0); exit 0; }
_ACEOF
chmod +x $CONFIG_STATUS
ac_clean_files=$ac_clean_files_save

```

```

# configure is writing to config.log, and then calls config.status.
# config.status does its own redirection, appending to config.log.
# Unfortunately, on DOS this fails, as config.log is still kept open
# by configure, so config.status won't be able to write to it; its
# output is simply discarded. So we exec the FD to /dev/null,
# effectively closing config.log, so it can be properly (re)opened and
# appended to by config.status. When coming back to configure, we
# need to make the FD available again.
if test "$no_create" != yes; then
  ac_cs_success=:
  ac_config_status_args=
  test "$silent" = yes &&
    ac_config_status_args="$ac_config_status_args --quiet"
  exec 5>/dev/null
  $SHELL $CONFIG_STATUS $ac_config_status_args || ac_cs_success=false
  exec 5>>config.log
  # Use ||, not &&, to avoid exiting from the if with $? = 1, which
  # would make configure fail if this is the last instruction.
  $ac_cs_success || { (exit 1); exit 1; }
fi

```

## configure.ac

```

# Process this file with autoconf to produce a configure script.
AC_INIT(sysfsutils, 2.1.0, linux-diag-devel@lists.sourceforge.net)
AM_INIT_AUTOMAKE
AC_CONFIG_SRCDIR([config.h.in])
AC_CONFIG_HEADER([config.h])

# Checks for KLIBC support (should be before AC_PROG_LIBTOOL and
AC_PROG_CC)
AC_CHECK_KLIBC

if test "X$KLIBC" == Xyes; then
  # Should disable/enable building of shared libraries ... I am open
to better
  # suggestions though (AC_DISABLE_SHARED and co do not do the right
thing in
  # a situation like this that its runtime dependent) ...
  enable_shared="no"
  EXTRA_CFLAGS=
else
  # These ones make KLIBC compiles very loud
  EXTRA_CFLAGS="-Wshadow -Wmissing-prototypes -Wmissing-declarations
-Wredundant-decls -Wnested-externs"
fi
AM_CONDITIONAL([KLIBC],[test "X$KLIBC" == Xyes])
AC_SUBST([EXTRA_CFLAGS])

# Checks for LIBTOOL
AC_PROG_LIBTOOL

```



```

# Checks for programs.
AC_PROG_CC
AC_PROG_INSTALL
AC_PROG_LN_S
AC_PROG_MAKE_SET
AC_PROG_RANLIB
AC_PROG_AWK

# Checks for header files.
AC_HEADER_DIRENT
AC_HEADER_STDC
AC_CHECK_HEADERS([fcntl.h malloc.h stdlib.h string.h unistd.h])

# Checks for typedefs, structures, and compiler characteristics.
AC_C_CONST
AC_C_INLINE
AC_TYPE_SIZE_T

# Checks for library functions.
AC_FUNC_LSTAT
AC_FUNC_MALLOCA
AC_FUNC_STAT
AC_CHECK_FUNCS([bzero isascii memset strchr strerror strrchr strstr
strtoul])

AC_CONFIG_FILES([Makefile
                  lib/Makefile
                  cmd/Makefile
                  test/Makefile])

AC_OUTPUT

```

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sysfsutils/cmd/GPL

The sysfs library is licensed under the GNU Lesser Public License (LGPL) Version 2.1, February 1999. The full text of the LGPL is located at:

sysfsutils/lib/LGPL

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## depcomp

```
#!/bin/sh
```

```
# depcomp - compile a program generating dependencies as side-effects
# Copyright 1999, 2000 Free Software Foundation, Inc.
```

```
# This program is free software; you can redistribute it and/or modify
# it under the terms of the GNU General Public License as published by
# the Free Software Foundation; either version 2, or (at your option)
# any later version.
```

```

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# 02111-1307, USA.

# As a special exception to the GNU General Public License, if you
# distribute this file as part of a program that contains a
# configuration script generated by Autoconf, you may include it under
# the same distribution terms that you use for the rest of that program.

# Originally written by Alexandre Oliva <oliva@dcc.unicamp.br>.

if test -z "$depmode" || test -z "$source" || test -z "$object"; then
  echo "depcomp: Variables source, object and depmode must be set" 1>&2
  exit 1
fi
# `libtool' can also be set to `yes' or `no'.

if test -z "$depfile"; then
  base=`echo "$object" | sed -e 's,^.*//,, ' -e 's,\\.\\.([^\.]*)$, .P\1, '`
  dir=`echo "$object" | sed 's,/.*$,/, '`
  if test "$dir" = "$object"; then
    dir=
  fi
  # FIXME: should be _deps on DOS.
  depfile="$dir.deps/$base"
fi

tmpdepfile=${tmpdepfile-`echo "$depfile" | sed 's/\.\.([^\.]*)$/.T\1/'`}

rm -f "$tmpdepfile"

# Some modes work just like other modes, but use different flags. We
# parameterize here, but still list the modes in the big case below,
# to make depend.m4 easier to write. Note that we *cannot* use a case
# here, because this file can only contain one case statement.
if test "$depmode" = hp; then
  # HP compiler uses -M and no extra arg.
  gccflag=-M
  depmode=gcc
fi

if test "$depmode" = dashXmstdout; then
  # This is just like dashmstdout with a different argument.
  dashmflag=-xM
  depmode=dashmstdout
fi

```

```

case "$depmode" in
gcc3)
## gcc 3 implements dependency tracking that does exactly what
## we want. Yay! Note: for some reason libtool 1.4 doesn't like
## it if -MD -MP comes after the -MF stuff. Hmm.
"$@" -MT "$object" -MD -MP -MF "$tmpdepfile"
stat=$?
if test $stat -eq 0; then :
else
rm -f "$tmpdepfile"
exit $stat
fi
mv "$tmpdepfile" "$depfile"
;;

gcc)
## There are various ways to get dependency output from gcc. Here's
## why we pick this rather obscure method:
## - Don't want to use -MD because we'd like the dependencies to end
## up in a subdir. Having to rename by hand is ugly.
## (We might end up doing this anyway to support other compilers.)
## - The DEPENDENCIES_OUTPUT environment variable makes gcc act like
## -MM, not -M (despite what the docs say).
## - Using -M directly means running the compiler twice (even worse
## than renaming).
if test -z "$gccflag"; then
gccflag=-MD,
fi
"$@" -Wp,"$gccflag$tmpdepfile"
stat=$?
if test $stat -eq 0; then :
else
rm -f "$tmpdepfile"
exit $stat
fi
rm -f "$depfile"
echo "$object : \" > "$depfile"
alpha=ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz
## The second -e expression handles DOS-style file names with drive
letters.
sed -e 's/^[^:]*: / /' \
-e 's/^[ '$alpha']:\/[^:]*: / /' < "$tmpdepfile" >> "$depfile"
## This next piece of magic avoids the `deleted header file' problem.
## The problem is that when a header file which appears in a .P file
## is deleted, the dependency causes make to die (because there is
## typically no way to rebuild the header). We avoid this by adding
## dummy dependencies for each header file. Too bad gcc doesn't do
## this for us directly.
tr ' ' |
' < "$tmpdepfile" |
## Some versions of gcc put a space before the `:'. On the theory
## that the space means something, we add a space to the output as
## well.
## Some versions of the HPUX 10.20 sed can't process this invocation

```

```

## correctly. Breaking it into two sed invocations is a workaround.
    sed -e 's/^\$//' -e '/^\$/d' -e '/:$/d' | sed -e 's/\$/ :/' >>
"$depfile"
    rm -f "$tmpdepfile"
    ;;

hp)
    # This case exists only to let depend.m4 do its work. It works by
    # looking at the text of this script. This case will never be run,
    # since it is checked for above.
    exit 1
    ;;

sgi)
    if test "$libtool" = yes; then
        "$@" "-Wp,-MDupdate,$tmpdepfile"
    else
        "$@" -MDupdate "$tmpdepfile"
    fi
    stat=$?
    if test $stat -eq 0; then :
    else
        rm -f "$tmpdepfile"
        exit $stat
    fi
    rm -f "$depfile"

    if test -f "$tmpdepfile"; then # yes, the sourcefile depend on other
files
        echo "$object : \" > "$depfile"

        # Clip off the initial element (the dependent). Don't try to be
        # clever and replace this with sed code, as IRIX sed won't handle
        # lines with more than a fixed number of characters (4096 in
        # IRIX 6.2 sed, 8192 in IRIX 6.5). We also remove comment lines;
        # the IRIX cc adds comments like `#:fec' to the end of the
        # dependency line.
        tr ' ' '
' < "$tmpdepfile" \
| sed -e 's/^\.*\.$//' -e 's/#.*$//' -e '/^\$/ d' | \
tr '
' '
' >> $depfile
        echo >> $depfile

        # The second pass generates a dummy entry for each header file.
        tr ' ' '
' < "$tmpdepfile" \
| sed -e 's/^\.*\.$//' -e 's/#.*$//' -e '/^\$/ d' -e 's/\$/ :/' \
>> $depfile
    else
        # The sourcefile does not contain any dependencies, so just
        # store a dummy comment line, to avoid errors with the Makefile
        # "include basename.Plo" scheme.
        echo "#dummy" > "$depfile"
    fi

```

```

fi
rm -f "$tmpdepfile"
;;

aix)
# The C for AIX Compiler uses -M and outputs the dependencies
# in a .u file. This file always lives in the current directory.
# Also, the AIX compiler puts `object:' at the start of each line;
# $object doesn't have directory information.
stripped=`echo "$object" | sed -e 's,^.*/,,' -e 's/\(.*\)\/..*$/\1/'`
tmpdepfile="$stripped.u"
outname="$stripped.o"
if test "$libtool" = yes; then
    "$@" -Wc,-M
else
    "$@" -M
fi

stat=$?
if test $stat -eq 0; then :
else
    rm -f "$tmpdepfile"
    exit $stat
fi

if test -f "$tmpdepfile"; then
    # Each line is of the form `foo.o: dependent.h'.
    # Do two passes, one to just change these to
    # `object: dependent.h' and one to simply `dependent.h:'.
    sed -e "s,^$outname:,$object :," < "$tmpdepfile" > "$depfile"
    sed -e "s,^$outname: \(.*\)$, \1:," < "$tmpdepfile" >> "$depfile"
else
    # The sourcefile does not contain any dependencies, so just
    # store a dummy comment line, to avoid errors with the Makefile
    # "include basename.Plo" scheme.
    echo "#dummy" > "$depfile"
fi
rm -f "$tmpdepfile"
;;

tru64)
# The Tru64 compiler uses -MD to generate dependencies as a side
# effect. `cc -MD -o foo.o ...' puts the dependencies into `foo.o.d'.
# At least on Alpha/Redhat 6.1, Compaq CCC V6.2-504 seems to put
# dependencies in `foo.d' instead, so we check for that too.
# Subdirectories are respected.
dir=`echo "$object" | sed -e 's|/[^/]*$|/|'`
test "x$dir" = "x$object" && dir=
base=`echo "$object" | sed -e 's|^.*$|' -e 's/\.o$//' -e 's/\.lo$//'|`

if test "$libtool" = yes; then
    tmpdepfile1="$dir.libs/$base.lo.d"
    tmpdepfile2="$dir.libs/$base.d"
    "$@" -Wc,-MD

```

```

else
    tmpdepfile1="$dir$base.o.d"
    tmpdepfile2="$dir$base.d"
    "$@" -MD
fi

stat=$?
if test $stat -eq 0; then :
else
    rm -f "$tmpdepfile1" "$tmpdepfile2"
    exit $stat
fi

if test -f "$tmpdepfile1"; then
    tmpdepfile="$tmpdepfile1"
else
    tmpdepfile="$tmpdepfile2"
fi
if test -f "$tmpdepfile"; then
    sed -e "s,^.*\[a-z]*:,$object:," < "$tmpdepfile" > "$depfile"
    # That's a space and a tab in the [].
    sed -e 's,^.*\[a-z]*:[      ]*,,' -e 's,$,,:,' < "$tmpdepfile" >>
"$depfile"
else
    echo "#dummy" > "$depfile"
fi
rm -f "$tmpdepfile"
;;

#nosideeffect)
# This comment above is used by automake to tell side-effect
# dependency tracking mechanisms from slower ones.

dashmstdout)
# Important note: in order to support this mode, a compiler *must*
# always write the preprocessed file to stdout, regardless of -o.
"$@" || exit $?

# Remove the call to Libtool.
if test "$libtool" = yes; then
    while test $1 != '--mode=compile'; do
        shift
    done
    shift
fi

# Remove '-o $object'. We will use -o /dev/null later,
# however we can't do the replacement now because
# '-o $object' might simply not be used
IFS=" "
for arg
do
    case $arg in
        -o)

```

```

        shift
        ;;
$object)
    shift
    ;;
*)
    set fnord "$@" "$arg"
    shift # fnord
    shift # $arg
    ;;
esac
done

test -z "$dashmflag" && dashmflag=-M
"$@" -o /dev/null $dashmflag | sed 's:^([:]*\:[ ]*:"$object"'\: : ' >
"$tmpdepfile"
rm -f "$depfile"
cat < "$tmpdepfile" > "$depfile"
tr ' ' ' '
' < "$tmpdepfile" | \
## Some versions of the HPUX 10.20 sed can't process this invocation
## correctly.  Breaking it into two sed invocations is a workaround.
sed -e 's/^\$//' -e '/^\$/d' -e '/:$/d' | sed -e 's/\$/ :/' >>
"$depfile"
rm -f "$tmpdepfile"
;;

dashXmstdout)
# This case only exists to satisfy depend.m4.  It is never actually
# run, as this mode is specially recognized in the preamble.
exit 1
;;

makedepend)
"$@" || exit $?
# X makedepend
shift
cleared=no
for arg in "$@"; do
    case $cleared in
    no)
        set "$"; shift
        cleared=yes ;;
    esac
    case "$arg" in
    -D*|-I*)
        set fnord "$@" "$arg"; shift ;;
    -*)
        ;;
    *)
        set fnord "$@" "$arg"; shift ;;
    esac
done
obj_suffix="`echo $object | sed 's/^\.*\./\.'`"

```



```

touch "$tmpdepfile"
${MAKEDEPEND-makedepend} -o"$obj_suffix" -f"$tmpdepfile" "$@"
rm -f "$depfile"
cat < "$tmpdepfile" > "$depfile"
sed '1,2d' "$tmpdepfile" | tr ' ' '
' | \
## Some versions of the HPUX 10.20 sed can't process this invocation
## correctly. Breaking it into two sed invocations is a workaround.
sed -e 's/^\$//' -e '/^\$/d' -e '/:$/d' | sed -e 's/\$/ :/' >>
"$depfile"
rm -f "$tmpdepfile" "$tmpdepfile".bak
;;

cpp)
# Important note: in order to support this mode, a compiler *must*
# always write the proprocessed file to stdout.
"$@" || exit $?

# Remove the call to Libtool.
if test "$libtool" = yes; then
while test $1 != '--mode=compile'; do
shift
done
shift
fi

# Remove '-o $object'.
IFS=" "
for arg
do
case $arg in
-o)
shift
;;
$object)
shift
;;
*)
set fnord "$@" "$arg"
shift # fnord
shift # $arg
;;
esac
done

"$@" -E |
sed -n '/^# [0-9][0-9]* "\([^"]*\)".*/ s:: \1 \\\:p' |
sed '$ s: \\\::' > "$tmpdepfile"
rm -f "$depfile"
echo "$object : \\" > "$depfile"
cat < "$tmpdepfile" >> "$depfile"
sed < "$tmpdepfile" '/^\$/d;s/^ //;s/ \\\://;s/\$/ :/' >> "$depfile"
rm -f "$tmpdepfile"
;;

```

```

msvisualcpp)
# Important note: in order to support this mode, a compiler *must*
# always write the preprocessed file to stdout, regardless of -o,
# because we must use -o when running libtool.
"$@" || exit $?
IFS=" "
for arg
do
  case "$arg" in
    "-Gm"|" /Gm"|" -Gi"|" /Gi"|" -ZI"|" /ZI")
      set fnord "$@"
      shift
      shift
      ;;
    *)
      set fnord "$@" "$arg"
      shift
      shift
      ;;
  esac
done
"$@" -E |
sed -n '/^#line [0-9][0-9]* "\([^"]*\)"/ s::echo "`cygpath -u
\\ "\1\`":p' | sort | uniq > "$tmpdepfile"
rm -f "$depfile"
echo "$object : \\" > "$depfile"
. "$tmpdepfile" | sed 's% %\ %g' | sed -n '/^\(.*\)$/ s:: \1 \`:p'
>> "$depfile"
echo " " >> "$depfile"
. "$tmpdepfile" | sed 's% %\ %g' | sed -n '/^\(.*\)$/ s::\1\`:p' >>
"$depfile"
rm -f "$tmpdepfile"
;;

none)
exec "$@"
;;

*)
echo "Unknown depmode $depmode" 1>&2
exit 1
;;
esac

exit 0

```

## INSTALL

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## Basic Installation

=====

These are generic installation instructions.

The ``configure'` shell script attempts to guess correct values for various system-dependent variables used during compilation. It uses those values to create a ``Makefile'` in each directory of the package. It may also create one or more ``.h'` files containing system-dependent definitions. Finally, it creates a shell script ``config.status'` that you can run in the future to recreate the current configuration, and a file ``config.log'` containing compiler output (useful mainly for debugging ``configure'`).

It can also use an optional file (typically called ``config.cache'` and enabled with ``--cache-file=config.cache'` or simply ``-C'`) that saves the results of its tests to speed up reconfiguring. (Caching is disabled by default to prevent problems with accidental use of stale cache files.)

If you need to do unusual things to compile the package, please try to figure out how ``configure'` could check whether to do them, and mail diffs or instructions to the address given in the ``README'` so they can be considered for the next release. If you are using the cache, and at some point ``config.cache'` contains results you don't want to keep, you may remove or edit it.

The file ``configure.ac'` (or ``configure.in'`) is used to create ``configure'` by a program called ``autoconf'`. You only need ``configure.ac'` if you want to change it or regenerate ``configure'` using a newer version of ``autoconf'`.

The simplest way to compile this package is:

1. ``cd'` to the directory containing the package's source code and type ``../configure'` to configure the package for your system. If you're using ``csh'` on an old version of System V, you might need to type ``sh ./configure'` instead to prevent ``csh'` from trying to execute ``configure'` itself.

Running ``configure'` takes awhile. While running, it prints some messages telling which features it is checking for.

2. Type ``make'` to compile the package.
3. Optionally, type ``make check'` to run any self-tests that come with the package.
4. Type ``make install'` to install the programs and any data files and documentation.
5. You can remove the program binaries and object files from the

source code directory by typing ``make clean'`. To also remove the files that ``configure'` created (so you can compile the package for a different kind of computer), type ``make distclean'`. There is also a ``make maintainer-clean'` target, but that is intended mainly for the package's developers. If you use it, you may have to get all sorts of other programs in order to regenerate files that came with the distribution.

#### Compilers and Options =====

Some systems require unusual options for compilation or linking that the ``configure'` script does not know about. Run ``../configure --help'` for details on some of the pertinent environment variables.

You can give ``configure'` initial values for configuration parameters by setting variables in the command line or in the environment. Here is an example:

```
./configure CC=c89 CFLAGS=-O2 LIBS=-lposix
```

\*Note Defining Variables::, for more details.

#### Compiling For Multiple Architectures =====

You can compile the package for more than one kind of computer at the same time, by placing the object files for each architecture in their own directory. To do this, you must use a version of ``make'` that supports the ``VPATH'` variable, such as GNU ``make'`. ``cd'` to the directory where you want the object files and executables to go and run the ``configure'` script. ``configure'` automatically checks for the source code in the directory that ``configure'` is in and in ``.`..'`.

If you have to use a ``make'` that does not support the ``VPATH'` variable, you have to compile the package for one architecture at a time in the source code directory. After you have installed the package for one architecture, use ``make distclean'` before reconfiguring for another architecture.

#### Installation Names =====

By default, ``make install'` will install the package's files in  ``/usr/local/bin'`,  ``/usr/local/man'`, etc. You can specify an installation prefix other than  ``/usr/local'` by giving ``configure'` the option  ``--prefix=PATH'`.

You can specify separate installation prefixes for architecture-specific files and architecture-independent files. If you give ``configure'` the option  ``--exec-prefix=PATH'`, the package will use `PATH` as the prefix for installing programs and libraries. Documentation and other data files will still use the regular prefix.

In addition, if you use an unusual directory layout you can give options like `--bindir=PATH` to specify different values for particular kinds of files. Run `configure --help` for a list of the directories you can set and what kinds of files go in them.

If the package supports it, you can cause programs to be installed with an extra prefix or suffix on their names by giving `configure` the option `--program-prefix=PREFIX` or `--program-suffix=SUFFIX`.

#### Optional Features =====

Some packages pay attention to `--enable-FEATURE` options to `configure`, where `FEATURE` indicates an optional part of the package. They may also pay attention to `--with-PACKAGE` options, where `PACKAGE` is something like `gnu-as` or `x` (for the X Window System). The `README` should mention any `--enable-` and `--with-` options that the package recognizes.

For packages that use the X Window System, `configure` can usually find the X include and library files automatically, but if it doesn't, you can use the `configure` options `--x-includes=DIR` and `--x-libraries=DIR` to specify their locations.

#### Specifying the System Type =====

There may be some features `configure` cannot figure out automatically, but needs to determine by the type of machine the package will run on. Usually, assuming the package is built to be run on the `_same_` architectures, `configure` can figure that out, but if it prints a message saying it cannot guess the machine type, give it the `--build=TYPE` option. `TYPE` can either be a short name for the system type, such as `sun4`, or a canonical name which has the form:

CPU-COMPANY-SYSTEM

where `SYSTEM` can have one of these forms:

OS KERNEL-OS

See the file `config.sub` for the possible values of each field. If `config.sub` isn't included in this package, then this package doesn't need to know the machine type.

If you are `_building_` compiler tools for cross-compiling, you should use the `--target=TYPE` option to select the type of system they will produce code for.

If you want to `_use_` a cross compiler, that generates code for a platform different from the build platform, you should specify the "host" platform (i.e., that on which the generated programs will eventually be run) with `--host=TYPE`.

## Sharing Defaults

=====

If you want to set default values for ``configure'` scripts to share, you can create a site shell script called ``config.site'` that gives default values for variables like ``CC'`, ``cache_file'`, and ``prefix'`. ``configure'` looks for ``PREFIX/share/config.site'` if it exists, then ``PREFIX/etc/config.site'` if it exists. Or, you can set the ``CONFIG_SITE'` environment variable to the location of the site script. A warning: not all ``configure'` scripts look for a site script.

## Defining Variables

=====

Variables not defined in a site shell script can be set in the environment passed to ``configure'`. However, some packages may run `configure` again during the build, and the customized values of these variables may be lost. In order to avoid this problem, you should set them in the ``configure'` command line, using ``VAR=value'`. For example:

```
./configure CC=/usr/local2/bin/gcc
```

will cause the specified `gcc` to be used as the C compiler (unless it is overridden in the site shell script).

## ``configure'` Invocation

=====

``configure'` recognizes the following options to control how it operates.

``--help'`

``-h'`

Print a summary of the options to ``configure'`, and exit.

``--version'`

``-V'`

Print the version of Autoconf used to generate the ``configure'` script, and exit.

``--cache-file=FILE'`

Enable the cache: use and save the results of the tests in `FILE`, traditionally ``config.cache'`. `FILE` defaults to ``/dev/null'` to disable caching.

``--config-cache'`

``-C'`

Alias for ``--cache-file=config.cache'`.

``--quiet'`

``--silent'`

``-q'`

Do not print messages saying which checks are being made. To suppress all normal output, redirect it to ``/dev/null'` (any error

messages will still be shown).

```
`--srcdir=DIR'
```

```
    Look for the package's source code in directory DIR.  Usually  
    `configure' can determine that directory automatically.
```

```
`configure' also accepts some other, not widely useful, options.  Run  
`configure --help' for more details.
```

## **install-sh**

```
#!/bin/sh  
#  
# install - install a program, script, or datafile  
# This comes from X11R5 (mit/util/scripts/install.sh).  
#  
# Copyright 1991 by the Massachusetts Institute of Technology  
#  
# Permission to use, copy, modify, distribute, and sell this software and  
# its  
# documentation for any purpose is hereby granted without fee, provided  
# that  
# the above copyright notice appear in all copies and that both that  
# copyright notice and this permission notice appear in supporting  
# documentation, and that the name of M.I.T. not be used in advertising  
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# publicity pertaining to distribution of the software without specific,  
# written prior permission.  M.I.T. makes no representations about the  
# suitability of this software for any purpose.  It is provided "as is"  
# without express or implied warranty.  
#  
# Calling this script install-sh is preferred over install.sh, to prevent  
# `make' implicit rules from creating a file called install from it  
# when there is no Makefile.  
#  
# This script is compatible with the BSD install script, but was written  
# from scratch.  It can only install one file at a time, a restriction  
# shared with many OS's install programs.  
  
# set DOITPROG to echo to test this script  
  
# Don't use :- since 4.3BSD and earlier shells don't like it.  
doit="${DOITPROG-}"  
  
# put in absolute paths if you don't have them in your path; or use env.  
vars.  
  
mvprog="${MVPROG-mv}"  
cpprog="${CPPROG-cp}"  
chmodprog="${CHMODPROG-chmod}"
```

```

chownprog="${CHOWNPROG-chown}"
chgrpprog="${CHGRPPROG-chgrp}"
stripprog="${STRIPPROG-strip}"
rmprog="${RMPROG-rm}"
mkdirprog="${MKDIRPROG-mkdir}"

transformbasename=""
transform_arg=""
instcmd="$mvprog"
chmodcmd="$chmodprog 0755"
chowncmd=""
chgrpcmd=""
stripcmd=""
rmcmd="$rmprog -f"
mvcmd="$mvprog"
src=""
dst=""
dir_arg=""

while [ x"$1" != x ]; do
    case $1 in
        -c) instcmd="$cpprog"
            shift
            continue;;

        -d) dir_arg=true
            shift
            continue;;

        -m) chmodcmd="$chmodprog $2"
            shift
            shift
            continue;;

        -o) chowncmd="$chownprog $2"
            shift
            shift
            continue;;

        -g) chgrpcmd="$chgrpprog $2"
            shift
            shift
            continue;;

        -s) stripcmd="$stripprog"
            shift
            continue;;

        -t=*) transformarg=`echo $1 | sed 's/-t=/'`
            shift
            continue;;

        -b=*) transformbasename=`echo $1 | sed 's/-b=/'`
            shift
    )

```



```

        continue;;

*) if [ x"$src" = x ]
    then
        src=$1
    else
        # this colon is to work around a 386BSD /bin/sh bug
        :
        dst=$1
    fi
    shift
    continue;;
esac
done

if [ x"$src" = x ]
then
    echo "install:  no input file specified"
    exit 1
else
    :
fi

if [ x"$dir_arg" != x ]; then
    dst=$src
    src=""

    if [ -d $dst ]; then
        instcmd=:
        chmodcmd=""
    else
        instcmd=$mkdirprog
    fi
else

# Waiting for this to be detected by the "$instcmd $src $dsttmp" command
# might cause directories to be created, which would be especially bad
# if $src (and thus $dsttmp) contains '*'.

    if [ -f "$src" ] || [ -d "$src" ]
    then
        :
    else
        echo "install:  $src does not exist"
        exit 1
    fi

    if [ x"$dst" = x ]
    then
        echo "install:  no destination specified"
        exit 1
    else
        :
    fi

```

```

# If destination is a directory, append the input filename; if your
system
# does not like double slashes in filenames, you may need to add some
logic

    if [ -d $dst ]
    then
        dst="$dst"/`basename $src`
    else
        :
    fi
fi

## this sed command emulates the dirname command
dstdir=`echo $dst | sed -e 's,[^/]*$,,;s,/,$,,;s,^$,.,,'`

# Make sure that the destination directory exists.
# this part is taken from Noah Friedman's mkinstalldirs script

# Skip lots of stat calls in the usual case.
if [ ! -d "$dstdir" ]; then
defaultIFS='
'
IFS="{IFS-${defaultIFS}}"

oIFS="{IFS}"
# Some sh's can't handle IFS=/ for some reason.
IFS='% '
set - `echo ${dstdir} | sed -e 's@/@%@g' -e 's@^%@/@'`
IFS="{oIFS}"

pathcomp=''

while [ $# -ne 0 ] ; do
    pathcomp="{pathcomp}${1}"
    shift

    if [ ! -d "${pathcomp}" ] ;
    then
        $mkdirprog "${pathcomp}"
    else
        :
    fi

    pathcomp="{pathcomp}/"
done
fi

if [ x"$dir_arg" != x ]
then
    $doit $instcmd $dst &&

    if [ x"$showncmd" != x ]; then $doit $showncmd $dst; else : ; fi &&

```

```

    if [ x"$schgrpcmd" != x ]; then $doit $schgrpcmd $dst; else : ; fi &&
    if [ x"$stripcmd" != x ]; then $doit $stripcmd $dst; else : ; fi &&
    if [ x"$schmodcmd" != x ]; then $doit $schmodcmd $dst; else : ; fi
else

# If we're going to rename the final executable, determine the name now.

    if [ x"$transformarg" = x ]
    then
        dstfile=`basename $dst`
    else
        dstfile=`basename $dst $transformbasename |
                sed $transformarg`$transformbasename
    fi

# don't allow the sed command to completely eliminate the filename

    if [ x"$dstfile" = x ]
    then
        dstfile=`basename $dst`
    else
        :
    fi

# Make a temp file name in the proper directory.

    dsttmp=$dstdir/#inst.$$#

# Move or copy the file name to the temp name

    $doit $instcmd $src $dsttmp &&

    trap "rm -f ${dsttmp}" 0 &&

# and set any options; do chmod last to preserve setuid bits

# If any of these fail, we abort the whole thing.  If we want to
# ignore errors from any of these, just make sure not to ignore
# errors from the above "$doit $instcmd $src $dsttmp" command.

    if [ x"$chowncmd" != x ]; then $doit $chowncmd $dsttmp; else ;;fi
&&
    if [ x"$schgrpcmd" != x ]; then $doit $schgrpcmd $dsttmp; else ;;fi
&&
    if [ x"$stripcmd" != x ]; then $doit $stripcmd $dsttmp; else ;;fi
&&
    if [ x"$schmodcmd" != x ]; then $doit $schmodcmd $dsttmp; else ;;fi
&&

# Now rename the file to the real destination.

    $doit $rmcmd -f $dstdir/$dstfile &&
    $doit $mvcmd $dsttmp $dstdir/$dstfile

```

```

fi &&

exit 0
ltmain.sh# ltmain.sh - Provide generalized library-building support
services.
# NOTE: Changing this file will not affect anything until you rerun
configure.
#
# Copyright (C) 1996, 1997, 1998, 1999, 2000, 2001, 2003, 2004, 2005
# Free Software Foundation, Inc.
# Originally by Gordon Matzigkeit <gord@gnu.ai.mit.edu>, 1996
#
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# distribute this file as part of a program that contains a
# configuration script generated by Autoconf, you may include it under
# the same distribution terms that you use for the rest of that program.

basename="s,^.*/, ,g"

# Work around backward compatibility issue on IRIX 6.5. On IRIX 6.4+, sh
# is ksh but when the shell is invoked as "sh" and the current value of
# the _XPG environment variable is not equal to 1 (one), the special
# positional parameter $0, within a function call, is the name of the
# function.
proppath="$0"

# The name of this program:
proppname=`echo "$proppath" | $SED $basename`
modename="$proppname"

# Global variables:
EXIT_SUCCESS=0
EXIT_FAILURE=1

PROGRAM=ltmain.sh
PACKAGE=libtool
VERSION=1.5.22
TIMESTAMP=" (1.1220.2.365 2005/12/18 22:14:06) "

```

```

# See if we are running on zsh, and set the options which allow our
# commands through without removal of \ escapes.
if test -n "${ZSH_VERSION+set}" ; then
    setopt NO_GLOB_SUBST
fi

# Check that we have a working $echo.
if test "X$1" = X--no-reexec; then
    # Discard the --no-reexec flag, and continue.
    shift
elif test "X$1" = X--fallback-echo; then
    # Avoid inline document here, it may be left over
    :
elif test "X`($echo '\t') 2>/dev/null`" = 'X\t'; then
    # Yippee, $echo works!
    :
else
    # Restart under the correct shell, and then maybe $echo will work.
    exec $SHELL "$progpath" --no-reexec ${1+"$@"}
fi

if test "X$1" = X--fallback-echo; then
    # used as fallback echo
    shift
    cat <<EOF
$*
EOF
    exit $EXIT_SUCCESS
fi

default_mode=
help="Try `'$progname' --help' for more information."
magic="%%MAGIC variable%%"
mkdir="mkdir"
mv="mv -f"
rm="rm -f"

# Sed substitution that helps us do robust quoting. It backslashifies
# metacharacters that are still active within double-quoted strings.
Xsed="${SED}" -e 1s/^X//
sed_quote_subst='s/\([\\`\"$\\\]\)/\\1/g'
# test EBCDIC or ASCII
case `echo X|tr X '\101'` in
A) # ASCII based system
    # \n is not interpreted correctly by Solaris 8 /usr/ucb/tr
    SP2NL='tr \040 \012'
    NL2SP='tr \015\012 \040\040'
    ;;
*) # EBCDIC based system
    SP2NL='tr \100 \n'
    NL2SP='tr \r\n \100\100'
    ;;
esac

```

```

# NLS nuisances.
# Only set LANG and LC_ALL to C if already set.
# These must not be set unconditionally because not all systems
understand
# e.g. LANG=C (notably SCO).
# We save the old values to restore during execute mode.
if test "${LC_ALL+set}" = set; then
    save_LC_ALL="$LC_ALL"; LC_ALL=C; export LC_ALL
fi
if test "${LANG+set}" = set; then
    save_LANG="$LANG"; LANG=C; export LANG
fi

# Make sure IFS has a sensible default
lt_nl='
'
IFS="      $lt_nl"

if test "$build_libtool_libs" != yes && test "$build_old_libs" != yes;
then
    $echo "$modename: not configured to build any kind of library" 1>&2
    $echo "Fatal configuration error.  See the $PACKAGE docs for more
information." 1>&2
    exit $EXIT_FAILURE
fi

# Global variables.
mode=$default_mode
nonopt=
prev=
prevopt=
run=
show="$echo"
show_help=
execute_dlfiles=
duplicate_deps=no
preserve_args=
lo2o="s/\\.lo\$/.\${objext}/"
o2lo="s/\\.\\\${objext}\$/\\.lo/"

#####
# Shell function definitions:
# This seems to be the best place for them

# func_mktempdir [string]
# Make a temporary directory that won't clash with other running
# libtool processes, and avoids race conditions if possible.  If
# given, STRING is the basename for that directory.
func_mktempdir ()
{
    my_template="$${TMPDIR-/tmp}/${1-$progname}"

    if test "$run" = ":"; then

```

```

    # Return a directory name, but don't create it in dry-run mode
    my_tmpdir="${my_template}-${$$}"
else

    # If mktemp works, use that first and foremost
    my_tmpdir=`mktemp -d "${my_template}-XXXXXXXX" 2>/dev/null`

    if test ! -d "$my_tmpdir"; then
    # Failing that, at least try and use $RANDOM to avoid a race
    my_tmpdir="${my_template}-${RANDOM-0}$$"

    save_mktempdir_umask=`umask`
    umask 0077
    $mkdir "$my_tmpdir"
    umask $save_mktempdir_umask
    fi

    # If we're not in dry-run mode, bomb out on failure
    test -d "$my_tmpdir" || {
        $echo "cannot create temporary directory \"$my_tmpdir\"" 1>&2
        exit $EXIT_FAILURE
    }
fi

$echo "X$my_tmpdir" | $Xsed
}

# func_win32_libid arg
# return the library type of file 'arg'
#
# Need a lot of goo to handle *both* DLLs and import libs
# Has to be a shell function in order to 'eat' the argument
# that is supplied when $file_magic_command is called.
func_win32_libid ()
{
    win32_libid_type="unknown"
    win32_fileres=`file -L $1 2>/dev/null`
    case $win32_fileres in
    *ar\ archive\ import\ library*) # definitely import
        win32_libid_type="x86 archive import"
        ;;
    *ar\ archive*) # could be an import, or static
        if eval $OBJDUMP -f $1 | $SED -e '10q' 2>/dev/null | \
            $EGREP -e 'file format pe-i386(.?architecture: i386)?' >/dev/null ;
        then
            win32_nmres=`eval $NM -f posix -A $1 | \
                $SED -n -e '1,100{/ I /{s,.*,import,;p;q;}}`
            case $win32_nmres in
            import*) win32_libid_type="x86 archive import";;
            *) win32_libid_type="x86 archive static";;
            esac
        fi
    ;;
}

```





```

        arg="\ "$arg\"
        ;;
    esac
    CC_quoted="$CC_quoted $arg"
done
case "$@" in
    " $CC "*" | "$CC "*" | "`$echo $CC` "*" | "`$echo $CC` "*" | "
$CC_quoted"* | "$CC_quoted "*" | "`$echo $CC_quoted` "*" | "`$echo
$CC_quoted` "*))
    # The compiler in the base compile command matches
    # the one in the tagged configuration.
    # Assume this is the tagged configuration we want.
    tagname=$z
    break
    ;;
esac
fi
done
# If $tagname still isn't set, then no tagged configuration
# was found and let the user know that the "--tag" command
# line option must be used.
if test -z "$tagname"; then
    $echo "$modename: unable to infer tagged configuration"
    $echo "$modename: specify a tag with `--tag' " 1>&2
    exit $EXIT_FAILURE
#
#     else
#         $echo "$modename: using $tagname tagged configuration"
#
    fi
    ;;
esac
fi
}

# func_extract_an_archive dir oldlib
func_extract_an_archive ()
{
    f_ex_an_ar_dir="$1"; shift
    f_ex_an_ar_oldlib="$1"

    $show "(cd $f_ex_an_ar_dir && $AR x $f_ex_an_ar_oldlib)"
    $run eval "(cd `f_ex_an_ar_dir && $AR x `f_ex_an_ar_oldlib`" ||
exit $?
    if ($AR t "$f_ex_an_ar_oldlib" | sort | sort -uc >/dev/null 2>&1);
then
    :
    else
        $echo "$modename: ERROR: object name conflicts:
$f_ex_an_ar_dir/$f_ex_an_ar_oldlib" 1>&2
        exit $EXIT_FAILURE
    fi
}

# func_extract_archives gentop oldlib ...

```

```

func_extract_archives ()
{
    my_gentop="$1"; shift
    my_oldlibs=${1+"$@"}
    my_oldobjs=""
    my_xlib=""
    my_xabs=""
    my_xdir=""
    my_status=""

    $show "${rm}r $my_gentop"
    $run ${rm}r "$my_gentop"
    $show "$mkdir $my_gentop"
    $run $mkdir "$my_gentop"
    my_status=$?
    if test "$my_status" -ne 0 && test ! -d "$my_gentop"; then
        exit $my_status
    fi

    for my_xlib in $my_oldlibs; do
        # Extract the objects.
        case $my_xlib in
            [\\/]*) my_xabs="$my_xlib" ;;
            *) my_xabs=`pwd`"/$my_xlib" ;;
        esac
        my_xlib=`$echo "X$my_xlib" | $Xsed -e 's%^.*/%%'`
        my_xdir="$my_gentop/$my_xlib"

        $show "${rm}r $my_xdir"
        $run ${rm}r "$my_xdir"
        $show "$mkdir $my_xdir"
        $run $mkdir "$my_xdir"
        exit_status=$?
        if test "$exit_status" -ne 0 && test ! -d "$my_xdir"; then
            exit $exit_status
        fi
        case $host in
            *-darwin*)
                $show "Extracting $my_xabs"
                # Do not bother doing anything if just a dry run
                if test -z "$run"; then
                    darwin_orig_dir=`pwd`
                    cd $my_xdir || exit $?
                    darwin_archive=$my_xabs
                    darwin_curdir=`pwd`
                    darwin_base_archive=`$echo "X$darwin_archive" | $Xsed -e
's%^.*/%%'`
                    darwin_arches=`lipo -info "$darwin_archive" 2>/dev/null | $EGREP
Architectures 2>/dev/null`
                    if test -n "$darwin_arches"; then
                        darwin_arches=`echo "$darwin_arches" | $SED -e 's/.*are:/'`
                        darwin_arch=
                        $show "$darwin_base_archive has multiple architectures
$darwin_arches"

```

```

        for darwin_arch in $darwin_arches ; do
            mkdir -p "unfat-$$/${darwin_base_archive}-${darwin_arch}"
            lipo -thin $darwin_arch -output "unfat-
    $$/${darwin_base_archive}-${darwin_arch}/${darwin_base_archive}"
    "${darwin_archive}"
            cd "unfat-$$/${darwin_base_archive}-${darwin_arch}"
            func_extract_an_archive "`pwd`" "${darwin_base_archive}"
            cd "$darwin_curdir"
            $rm "unfat-$$/${darwin_base_archive}-
    ${darwin_arch}/${darwin_base_archive}"
        done # $darwin_arches
    ## Okay now we have a bunch of thin objects, gotta fatten them up
    :)
        darwin_filelist=`find unfat-$$ -type f -name \*.o -print -o -
    name \*.lo -print | xargs basename | sort -u | $NL2SP`
        darwin_file=
        darwin_files=
        for darwin_file in $darwin_filelist; do
            darwin_files=`find unfat-$$ -name $darwin_file -print |
    $NL2SP`
            lipo -create -output "$darwin_file" $darwin_files
            done # $darwin_filelist
            ${rm}r unfat-$$
            cd "$darwin_orig_dir"
        else
            cd "$darwin_orig_dir"
            func_extract_an_archive "$my_xdir" "$my_xabs"
        fi # $darwin_arches
    fi # $run
    ;;
    *)
        func_extract_an_archive "$my_xdir" "$my_xabs"
        ;;
    esac
    my_oldobjs="$my_oldobjs "`find $my_xdir -name \*.${objext} -print -o
    -name \*.lo -print | $NL2SP`
    done
    func_extract_archives_result="$my_oldobjs"
}
# End of Shell function definitions
#####

# Darwin sucks
eval std_shrext="\$shrext_cmds\"

disable_libs=no

# Parse our command line options once, thoroughly.
while test "$#" -gt 0
do
    arg="$1"
    shift

    case $arg in

```

```

-*) optarg=`$echo "X$args" | $Xsed -e 's/[-_a-zA-Z0-9]*=/'` ;;
*) optarg= ;;
esac

# If the previous option needs an argument, assign it.
if test -n "$prev"; then
  case $prev in
    execute_dlfiles)
      execute_dlfiles="$execute_dlfiles $arg"
      ;;
    tag)
      tagname="$arg"
      preserve_args="{preserve_args}$arg"

      # Check whether tagname contains only valid characters
      case $tagname in
        *[-_A-Za-z0-9,/]*)
          $echo "$progname: invalid tag name: $tagname" 1>&2
          exit $EXIT_FAILURE
          ;;
        esac

      case $tagname in
        CC)
          # Don't test for the "default" C tag, as we know, it's there, but
          # not specially marked.
          ;;
        *)
          if grep "^# ### BEGIN LIBTOOL TAG CONFIG: $tagname$" < "$progp"
> /dev/null; then
            taglist="$taglist $tagname"
            # Evaluate the configuration.
            eval "`$SED -n -e '/^# ### BEGIN LIBTOOL TAG CONFIG:
'$tagname'$/,/^# ### END LIBTOOL TAG CONFIG: '$tagname'$/p' < $progp`"
          else
            $echo "$progname: ignoring unknown tag $tagname" 1>&2
          fi
          ;;
        esac
      ;;
    *)
      eval "$prev=\$arg"
      ;;
    esac

    prev=
    prevopt=
    continue
  fi

  # Have we seen a non-optional argument yet?
  case $arg in
    --help)
      show_help=yes

```

```

;;

--version)
  $echo "$PROGRAM (GNU $PACKAGE) $VERSION$TIMESTAMP"
  $echo
  $echo "Copyright (C) 2005 Free Software Foundation, Inc."
  $echo "This is free software; see the source for copying conditions.
There is NO"
  $echo "warranty; not even for MERCHANTABILITY or FITNESS FOR A
PARTICULAR PURPOSE."
  exit $?
;;

--config)
  ${SED} -e '1,/^\# ### BEGIN LIBTOOL CONFIG/d' -e '/^\# ### END LIBTOOL
CONFIG/, $d' $progpah
  # Now print the configurations for the tags.
  for tagname in $taglist; do
    ${SED} -n -e "/^\# ### BEGIN LIBTOOL TAG CONFIG: $tagname$/,/^\# ###
END LIBTOOL TAG CONFIG: $tagname$/p" < "$progpah"
  done
  exit $?
;;

--debug)
  $echo "$progname: enabling shell trace mode"
  set -x
  preserve_args="$preserve_args $arg"
;;

--dry-run | -n)
  run=:
;;

--features)
  $echo "host: $host"
  if test "$build_libtool_libs" = yes; then
    $echo "enable shared libraries"
  else
    $echo "disable shared libraries"
  fi
  if test "$build_old_libs" = yes; then
    $echo "enable static libraries"
  else
    $echo "disable static libraries"
  fi
  exit $?
;;

--finish) mode="finish" ;;

--mode) prevopt="--mode" prev=mode ;;
--mode=*) mode="$optarg" ;;

```

```

--preserve-dup-deps) duplicate_deps="yes" ;;

--quiet | --silent)
    show=:
    preserve_args="$preserve_args $arg"
    ;;

--tag)
    prevopt="--tag"
    prev=tag
    preserve_args="$preserve_args --tag"
    ;;
--tag=*)
    set tag "$optarg" ${1+"$@"}
    shift
    prev=tag
    preserve_args="$preserve_args --tag"
    ;;

-dlopen)
    prevopt="-dlopen"
    prev=execute_dlfiles
    ;;

-*)
    $echo "$modename: unrecognized option \`${arg}'" 1>&2
    $echo "$help" 1>&2
    exit $EXIT_FAILURE
    ;;

*)
    nonopt="$arg"
    break
    ;;
esac
done

if test -n "$prevopt"; then
    $echo "$modename: option \`${prevopt}' requires an argument" 1>&2
    $echo "$help" 1>&2
    exit $EXIT_FAILURE
fi

case $disable_libs in
no)
    ;;
shared)
    build_libtool_libs=no
    build_old_libs=yes
    ;;
static)
    build_old_libs=`case $build_libtool_libs in yes) echo no;; *) echo
yes;; esac`
    ;;

```

```

esac

# If this variable is set in any of the actions, the command in it
# will be execed at the end.  This prevents here-documents from being
# left over by shells.
exec_cmd=

if test -z "$show_help"; then

    # Infer the operation mode.
    if test -z "$mode"; then
        $echo "**** Warning: inferring the mode of operation is deprecated."
1>&2
        $echo "**** Future versions of Libtool will require --mode=MODE be
specified." 1>&2
        case $nonopt in
            *cc | cc* | *++ | gcc* | *-gcc* | g++* | xlc*)
                mode=link
                for arg
                do
                    case $arg in
                        -c)
                            mode=compile
                            break
                            ;;
                    esac
                done
                ;;
            *db | *dbx | *strace | *truss)
                mode=execute
                ;;
            *install*|cp|mv)
                mode=install
                ;;
            *rm)
                mode=uninstall
                ;;
            *)
                # If we have no mode, but dlfiles were specified, then do execute
mode.
                test -n "$execute_dlfiles" && mode=execute

                # Just use the default operation mode.
                if test -z "$mode"; then
                    if test -n "$nonopt"; then
                        $echo "$modename: warning: cannot infer operation mode from
\`$nonopt'" 1>&2
                    else
                        $echo "$modename: warning: cannot infer operation mode without
MODE-ARGS" 1>&2
                    fi
                fi
                ;;
        esac
    fi

```

```

fi

# Only execute mode is allowed to have -dlopen flags.
if test -n "$execute_dlfiles" && test "$mode" != execute; then
    $echo "$modename: unrecognized option \`-dlopen'" 1>&2
    $echo "$help" 1>&2
    exit $EXIT_FAILURE
fi

# Change the help message to a mode-specific one.
generic_help="$help"
help="Try \`$modename --help --mode=$mode' for more information."

# These modes are in order of execution frequency so that they run
quickly.
case $mode in
# libtool compile mode
compile)
    modename="$modename: compile"
    # Get the compilation command and the source file.
    base_compile=
    srcfile="$nonopt" # always keep a non-empty value in "srcfile"
    suppress_opt=yes
    suppress_output=
    arg_mode=normal
    libobj=
    later=

    for arg
    do
        case $arg_mode in
            arg )
                # do not "continue". Instead, add this to base_compile
                lastarg="$arg"
                arg_mode=normal
                ;;

            target )
                libobj="$arg"
                arg_mode=normal
                continue
                ;;

            normal )
                # Accept any command-line options.
                case $arg in
                    -o)
                        if test -n "$libobj" ; then
                            $echo "$modename: you cannot specify \`-o' more than once" 1>&2
                            exit $EXIT_FAILURE
                        fi
                        arg_mode=target
                        continue
                        ;;
                esac
                ;;
        esac
    done

```









```

# Delete any leftover library objects.
if test "$build_old_libs" = yes; then
    removelist="$obj $lobj $libobj ${libobj}T"
else
    removelist="$lobj $libobj ${libobj}T"
fi

$run $rm $removelist
trap "$run $rm $removelist; exit $EXIT_FAILURE" 1 2 15

# On Cygwin there's no "real" PIC flag so we must build both object
types
case $host_os in
cygwin* | mingw* | pw32* | os2*)
    pic_mode=default
    ;;
esac
if test "$pic_mode" = no && test "$deplibs_check_method" != pass_all;
then
    # non-PIC code in shared libraries is not supported
    pic_mode=default
fi

# Calculate the filename of the output object if compiler does
# not support -o with -c
if test "$compiler_c_o" = no; then
    output_obj=`$echo "X$srcfile" | $Xsed -e 's%^.*/%%' -e
's%\.[^.]*$%%'\`.$objext}
    lockfile="$output_obj.lock"
    removelist="$removelist $output_obj $lockfile"
    trap "$run $rm $removelist; exit $EXIT_FAILURE" 1 2 15
else
    output_obj=
    need_locks=no
    lockfile=
fi

# Lock this critical section if it is needed
# We use this script file to make the link, it avoids creating a new
file
if test "$need_locks" = yes; then
    until $run ln "$progp" "$lockfile" 2>/dev/null; do
        $show "Waiting for $lockfile to be removed"
        sleep 2
    done
elif test "$need_locks" = warn; then
    if test -f "$lockfile"; then
        $echo "\
*** ERROR, $lockfile exists and contains:
`cat $lockfile 2>/dev/null`

```

This indicates that another process is trying to use the same temporary object file, and libtool could not work around it because



```

    if test -z "$output_obj"; then
    # Place PIC objects in $objdir
    command="$command -o $lobj"
    fi

    $run $rm "$lobj" "$output_obj"

    $show "$command"
    if $run eval "$command"; then :
    else
    test -n "$output_obj" && $run $rm $removelist
    exit $EXIT_FAILURE
    fi

    if test "$need_locks" = warn &&
    test "X`cat $lockfile 2>/dev/null`" != "X$srcfile"; then
    $echo "\
*** ERROR, $lockfile contains:
`cat $lockfile 2>/dev/null`

but it should contain:
$srcfile

This indicates that another process is trying to use the same
temporary object file, and libtool could not work around it because
your compiler does not support \'-c' and \'-o' together.  If you
repeat this compilation, it may succeed, by chance, but you had better
avoid parallel builds (make -j) in this platform, or get a better
compiler."

    $run $rm $removelist
    exit $EXIT_FAILURE
    fi

    # Just move the object if needed, then go on to compile the next
one
    if test -n "$output_obj" && test "X$output_obj" != "X$lobj"; then
    $show "$mv $output_obj $lobj"
    if $run $mv $output_obj $lobj; then :
    else
    error=$?
    $run $rm $removelist
    exit $error
    fi
    fi

    # Append the name of the PIC object to the libtool object file.
    test -z "$run" && cat >> ${libobj}T <<EOF
pic_object='$objdir/$objname'

EOF

    # Allow error messages only from the first compilation.

```

```

        if test "$suppress_opt" = yes; then
            suppress_output=' >/dev/null 2>&1'
        fi
    else
        # No PIC object so indicate it doesn't exist in the libtool
        # object file.
        test -z "$run" && cat >> ${libobj}T <<EOF
pic_object=none
EOF
    fi

    # Only build a position-dependent object if we build old libraries.
    if test "$build_old_libs" = yes; then
        if test "$pic_mode" != yes; then
            # Don't build PIC code
            command="$base_compile $srcfile"
        else
            command="$base_compile $srcfile $pic_flag"
        fi
        if test "$compiler_c_o" = yes; then
            command="$command -o $obj"
        fi

        # Suppress compiler output if we already did a PIC compilation.
        command="$command$suppress_output"
        $run $rm "$obj" "$output_obj"
        $show "$command"
        if $run eval "$command"; then :
        else
            $run $rm $removelist
            exit $EXIT_FAILURE
        fi

        if test "$need_locks" = warn &&
            test "X`cat $lockfile 2>/dev/null`" != "X$srcfile"; then
            $echo "\
*** ERROR, $lockfile contains:
`cat $lockfile 2>/dev/null`

but it should contain:
$srcfile

This indicates that another process is trying to use the same
temporary object file, and libtool could not work around it because
your compiler does not support \'-c' and \'-o' together.  If you
repeat this compilation, it may succeed, by chance, but you had better
avoid parallel builds (make -j) in this platform, or get a better
compiler."

            $run $rm $removelist
            exit $EXIT_FAILURE
        fi

```

```

# Just move the object if needed
if test -n "$output_obj" && test "X$output_obj" != "X$obj"; then
$show "$mv $output_obj $obj"
if $run $mv $output_obj $obj; then :
else
error=$?
$run $rm $removelist
exit $error
fi
fi

# Append the name of the non-PIC object the libtool object file.
# Only append if the libtool object file exists.
test -z "$run" && cat >> ${libobj}T <<EOF
# Name of the non-PIC object.
non_pic_object='$objname'

EOF
else
# Append the name of the non-PIC object the libtool object file.
# Only append if the libtool object file exists.
test -z "$run" && cat >> ${libobj}T <<EOF
# Name of the non-PIC object.
non_pic_object=none

EOF
fi

$run $mv "${libobj}T" "${libobj}"

# Unlock the critical section if it was locked
if test "$need_locks" != no; then
$run $rm "$lockfile"
fi

exit $EXIT_SUCCESS
;;

# libtool link mode
link | relink)
modename="$modename: link"
case $host in
*-*-cygwin* | *-*-mingw* | *-*-pw32* | *-*-os2*)
# It is impossible to link a dll without this setting, and
# we shouldn't force the makefile maintainer to figure out
# which system we are compiling for in order to pass an extra
# flag for every libtool invocation.
# allow_undefined=no

# FIXME: Unfortunately, there are problems with the above when
trying
# to make a dll which has undefined symbols, in which case not
# even a static library is built. For now, we need to specify
# -no-undefined on the libtool link line when we can be certain

```



```

        # that all symbols are satisfied, otherwise we get a static
library.
    allow_undefined=yes
    ;;
*)
    allow_undefined=yes
    ;;
esac
libtool_args="$nonopt"
base_compile="$nonopt $@"
compile_command="$nonopt"
finalize_command="$nonopt"

compile_rpath=
finalize_rpath=
compile_shlibpath=
finalize_shlibpath=
convenience=
old_convenience=
deplibs=
old_deplibs=
compiler_flags=
linker_flags=
dllsearchpath=
lib_search_path=`pwd`
inst_prefix_dir=

avoid_version=no
dlfiles=
dlprefiles=
dlsself=no
export_dynamic=no
export_symbols=
export_symbols_regex=
generated=
libobjs=
ltlibs=
module=no
no_install=no
objs=
non_pic_objects=
notinst_path= # paths that contain not-installed libtool libraries
precious_files_regex=
prefer_static_libs=no
preload=no
prev=
prevarg=
release=
rpath=
xrpath=
perm_rpath=
temp_rpath=
thread_safe=no
vinfo=

```



```

;;
esac

case $prev in
dlfiles|dlprefiles)
  if test "$preload" = no; then
    # Add the symbol object into the linking commands.
    compile_command="$compile_command @SYMFILE@"
    finalize_command="$finalize_command @SYMFILE@"
    preload=yes
  fi
  case $arg in
*.la | *.lo) ;; # We handle these cases below.
force)
  if test "$dlsself" = no; then
    dlsself=needless
    export_dynamic=yes
  fi
  prev=
  continue
  ;;
self)
  if test "$prev" = dlprefiles; then
    dlsself=yes
  elif test "$prev" = dlfiles && test "$dlopen_self" != yes; then
    dlsself=yes
  else
    dlsself=needless
    export_dynamic=yes
  fi
  prev=
  continue
  ;;
*)
  if test "$prev" = dlfiles; then
    dlfiles="$dlfiles $arg"
  else
    dlprefiles="$dlprefiles $arg"
  fi
  prev=
  continue
  ;;
esac
;;
expsyms)
  export_symbols="$arg"
  if test ! -f "$arg"; then
    $echo "$modename: symbol file \"$arg\" does not exist"
    exit $EXIT_FAILURE
  fi
  prev=
  continue
  ;;
expsyms_regex)

```

```

    export_symbols_regex="$arg"
    prev=
    continue
    ;;
inst_prefix)
    inst_prefix_dir="$arg"
    prev=
    continue
    ;;
precious_regex)
    precious_files_regex="$arg"
    prev=
    continue
    ;;
release)
    release="-$arg"
    prev=
    continue
    ;;
objectlist)
    if test -f "$arg"; then
        save_arg=$arg
        moreargs=
        for fil in `cat $save_arg`
        do
#           moreargs="$moreargs $fil"
            arg=$fil
            # A libtool-controlled object.

            # Check to see that this really is a libtool object.
            if ({SED} -e '2q' $arg | grep "^# Generated by .*$PACKAGE")
>/dev/null 2>&1; then
                pic_object=
                non_pic_object=

                # Read the .lo file
                # If there is no directory component, then add one.
                case $arg in
                */* | *\(\*)) . $arg ;;
                *) . ./ $arg ;;
                esac

                if test -z "$pic_object" || \
                    test -z "$non_pic_object" ||
                    test "$pic_object" = none && \
                    test "$non_pic_object" = none; then
                    $echo "$modename: cannot find name of object for `'$arg'"
1>&2

                    exit $EXIT_FAILURE
                fi

                # Extract subdirectory from the argument.
                xdir=`$echo "X$arg" | $Xsed -e 's%/[^\/*]*$%%'`
                if test "X$xdir" = "X$arg"; then

```

```

        xdir=
    else
        xdir="$xdir/"
    fi

    if test "$pic_object" != none; then
        # Prepend the subdirectory the object is found in.
        pic_object="$xdir$pic_object"

        if test "$prev" = dlfiles; then
            if test "$build_libtool_libs" = yes && test
"$dlopen_support" = yes; then
                dlfiles="$dlfiles $pic_object"
                prev=
                continue
            else
                # If libtool objects are unsupported, then we need to
preload.

                prev=dlprefiles
            fi
        fi

        # CHECK ME: I think I busted this. -Ossama
        if test "$prev" = dlprefiles; then
            # Preload the old-style object.
            dlprefiles="$dlprefiles $pic_object"
            prev=
        fi

        # A PIC object.
        libobjs="$libobjs $pic_object"
        arg="$pic_object"
    fi

    # Non-PIC object.
    if test "$non_pic_object" != none; then
        # Prepend the subdirectory the object is found in.
        non_pic_object="$xdir$non_pic_object"

        # A standard non-PIC object
        non_pic_objects="$non_pic_objects $non_pic_object"
        if test -z "$pic_object" || test "$pic_object" = none ;
then
            arg="$non_pic_object"
        fi
    else
        # If the PIC object exists, use it instead.
        # $xdir was prepended to $pic_object above.
        non_pic_object="$pic_object"
        non_pic_objects="$non_pic_objects $non_pic_object"
    fi
    else
        # Only an error if not doing a dry-run.
        if test -z "$run"; then

```

```

        $echo "$modename: \'$arg\' is not a valid libtool object"
1>&2
        exit $EXIT_FAILURE
    else
        # Dry-run case.

        # Extract subdirectory from the argument.
        xdir=`$echo "X$arg" | $Xsed -e 's%/[^/]*$%%'`
        if test "X$xdir" = "X$arg"; then
            xdir=
        else
            xdir="$xdir/"
        fi

        pic_object=`$echo "X${xdir}${objdir}/${arg}" | $Xsed -e
"$lo2o"`
        non_pic_object=`$echo "X${xdir}${arg}" | $Xsed -e "$lo2o"`
        libobjs="$libobjs $pic_object"
        non_pic_objects="$non_pic_objects $non_pic_object"
    fi
    fi
done
else
    $echo "$modename: link input file \'$save_arg\' does not exist"
    exit $EXIT_FAILURE
fi
arg=$save_arg
prev=
continue
;;
rpath | xrpath)
    # We need an absolute path.
    case $arg in
    [\\/] * | [A-Za-z]:[\\/] *) ;;
    *)
        $echo "$modename: only absolute run-paths are allowed" 1>&2
        exit $EXIT_FAILURE
        ;;
    esac
    if test "$prev" = rpath; then
        case "$rpath " in
        * " $arg " *) ;;
        *) rpath="$rpath $arg" ;;
        esac
    else
        case "$xrpath " in
        * " $arg " *) ;;
        *) xrpath="$xrpath $arg" ;;
        esac
    fi
    prev=
    continue
;;
xcompiler)

```

```

    compiler_flags="$compiler_flags $qarg"
    prev=
    compile_command="$compile_command $qarg"
    finalize_command="$finalize_command $qarg"
    continue
    ;;
xlinker)
    linker_flags="$linker_flags $qarg"
    compiler_flags="$compiler_flags $wl$qarg"
    prev=
    compile_command="$compile_command $wl$qarg"
    finalize_command="$finalize_command $wl$qarg"
    continue
    ;;
xcclinker)
    linker_flags="$linker_flags $qarg"
    compiler_flags="$compiler_flags $qarg"
    prev=
    compile_command="$compile_command $qarg"
    finalize_command="$finalize_command $qarg"
    continue
    ;;
shrext)
    shrext_cmds="$arg"
    prev=
    continue
    ;;
darwin_framework|darwin_framework_skip)
    test "$prev" = "darwin_framework" &&
compiler_flags="$compiler_flags $arg"
    compile_command="$compile_command $arg"
    finalize_command="$finalize_command $arg"
    prev=
    continue
    ;;
*)
    eval "$prev=\"\$arg\""
    prev=
    continue
    ;;
esac
fi # test -n "$prev"

prevarg="$arg"

case $arg in
-all-static)
if test -n "$link_static_flag"; then
    compile_command="$compile_command $link_static_flag"
    finalize_command="$finalize_command $link_static_flag"
fi
continue
;;

```

```

        -allow-undefined)
        # FIXME: remove this flag sometime in the future.
        $echo "$modename: \`-allow-undefined' is deprecated because it is
the default" 1>&2
        continue
        ;;

        -avoid-version)
        avoid_version=yes
        continue
        ;;

        -dlopen)
        prev=dlfiles
        continue
        ;;

        -dlpreopen)
        prev=dlprefiles
        continue
        ;;

        -export-dynamic)
        export_dynamic=yes
        continue
        ;;

        -export-symbols | -export-symbols-regex)
        if test -n "$export_symbols" || test -n "$export_symbols_regex";
then
        $echo "$modename: more than one -exported-symbols argument is not
allowed"
        exit $EXIT_FAILURE
        fi
        if test "X$arg" = "X-export-symbols"; then
        prev=expsyms
        else
        prev=expsyms_regex
        fi
        continue
        ;;

        -framework|-arch|-isysroot)
        case " $CC " in
        *" ${arg} ${1} "*" | *" ${arg}  ${1} "*)
        prev=darwin_framework_skip ;;
        *) compiler_flags="$compiler_flags $arg"
        prev=darwin_framework ;;
        esac
        compile_command="$compile_command $arg"
        finalize_command="$finalize_command $arg"
        continue
        ;;

```



```

-inst-prefix-dir)
prev=inst_prefix
continue
;;

# The native IRIX linker understands -LANG:*, -LIST:* and -LNO:*
# so, if we see these flags be careful not to treat them like -L
-L[A-Z][A-Z]*:*)
case $with_gcc/$host in
no/*-*-irix* | /*-*-irix*)
    compile_command="$compile_command $arg"
    finalize_command="$finalize_command $arg"
    ;;
esac
continue
;;

-L*)
dir=`$echo "X$arg" | $Xsed -e 's/^~L//'`
# We need an absolute path.
case $dir in
[\\/] * | [A-Za-z]:[\\/] *) ;;
*)
    absdir=`cd "$dir" && pwd`
    if test -z "$absdir"; then
        $echo "$modename: cannot determine absolute directory name of
\`$dir'" 1>&2
        absdir="$dir"
        notinst_path="$notinst_path $dir"
    fi
    dir="$absdir"
    ;;
esac
case "$deplibs " in
*" -L$dir "*) ;;
*)
    deplibs="$deplibs -L$dir"
    lib_search_path="$lib_search_path $dir"
    ;;
esac
case $host in
*-*-cygwin* | *-*-mingw* | *-*-pw32* | *-*-os2*)
    testbindir=`$echo "X$dir" | $Xsed -e 's*/lib$*/bin*'`
    case :$dllsearchpath: in
*" :$dir:"*) ;;
*) dllsearchpath="$dllsearchpath:$dir";;
esac
case :$dllsearchpath: in
*" :$testbindir:"*) ;;
*) dllsearchpath="$dllsearchpath:$testbindir";;
esac
;;
esac
continue

```

```

;;

-l*)
if test "X$arg" = "X-lc" || test "X$arg" = "X-lm"; then
  case $host in
    *-*-cygwin* | *-*-mingw* | *-*-pw32* | *-*-beos*)
      # These systems don't actually have a C or math library (as
such)
        continue
      ;;
    *-*-os2*)
      # These systems don't actually have a C library (as such)
      test "X$arg" = "X-lc" && continue
      ;;
    *-*-openbsd* | *-*-freebsd* | *-*-dragonfly*)
      # Do not include libc due to us having libc/libc_r.
      test "X$arg" = "X-lc" && continue
      ;;
    *-*-rhapsody* | *-*-darwin1.[012])
      # Rhapsody C and math libraries are in the System framework
      deplibs="$deplibs -framework System"
      continue
      ;;
    *-*-sco3.2v5* | *-*-sco5v6*)
      # Causes problems with __ctype
      test "X$arg" = "X-lc" && continue
      ;;
    *-*-sysv4.2uw2* | *-*-sysv5* | *-*-unixware* | *-*-OpenUNIX*)
      # Compiler inserts libc in the correct place for threads to
work
      test "X$arg" = "X-lc" && continue
      ;;
  esac
elif test "X$arg" = "X-lc_r"; then
  case $host in
    *-*-openbsd* | *-*-freebsd* | *-*-dragonfly*)
      # Do not include libc_r directly, use -pthread flag.
      continue
      ;;
  esac
fi
deplibs="$deplibs $arg"
continue
;;

# Tru64 UNIX uses -model [arg] to determine the layout of C++
# classes, name mangling, and exception handling.
-model)
compile_command="$compile_command $arg"
compiler_flags="$compiler_flags $arg"
finalize_command="$finalize_command $arg"
prev=xcompiler
continue
;;

```

```

-mt|-mthreads|-kthread|-Kthread|-pthread|-pthreads|--thread-safe)
  compiler_flags="$compiler_flags $arg"
  compile_command="$compile_command $arg"
  finalize_command="$finalize_command $arg"
  continue
;;

-module)
module=yes
continue
;;

# -64, -mips[0-9] enable 64-bit mode on the SGI compiler
# -r[0-9][0-9]* specifies the processor on the SGI compiler
# -xarch=*, -xtarget=* enable 64-bit mode on the Sun compiler
# +DA*, +DD* enable 64-bit mode on the HP compiler
# -q* pass through compiler args for the IBM compiler
# -m* pass through architecture-specific compiler args for GCC
# -m*, -t[45]*, -txscale* pass through architecture-specific
# compiler args for GCC
# -pg pass through profiling flag for GCC
# @file GCC response files
-64|-mips[0-9]|-r[0-9][0-9]*|-xarch=|-xtarget=*|+DA*|+DD*|-q*|-
m*|-pg| \
-t[45]*|-txscale*|@*)

# Unknown arguments in both finalize_command and compile_command
need
# to be aesthetically quoted because they are eval'd later.
arg=`$echo "X$arg" | $Xsed -e "$sed_quote_subst"`
case $arg in
*[\[\~\#\^\&\*\(\)\{\}\|\;\<\>\|\?\'\ \ ]*|*|"")
  arg="\"$arg\""
  ;;
;;
esac
  compile_command="$compile_command $arg"
  finalize_command="$finalize_command $arg"
  compiler_flags="$compiler_flags $arg"
  continue
;;

-shrext)
prev=shrext
continue
;;

-no-fast-install)
fast_install=no
continue
;;

-no-install)
case $host in

```

```

*-*-cygwin* | *-*-mingw* | *-*-pw32* | *-*-os2*)
  # The PATH hackery in wrapper scripts is required on Windows
  # in order for the loader to find any dlls it needs.
  $echo "$modename: warning: \`-no-install' is ignored for $host"
1>&2
  $echo "$modename: warning: assuming \`-no-fast-install' instead"
1>&2
  fast_install=no
  ;;
*) no_install=yes ;;
esac
continue
;;

-no-undefined)
allow_undefined=no
continue
;;

-objectlist)
prev=objectlist
continue
;;

-o) prev=output ;;

-precious-files-regex)
prev=precious_regex
continue
;;

-release)
prev=release
continue
;;

-rpath)
prev=rpath
continue
;;

-R)
prev=xrpath
continue
;;

-R*)
dir=`$echo "X$arg" | $Xsed -e 's/^-R//`
# We need an absolute path.
case $dir in
[\\/] * | [A-Za-z]:[\\/] *) ;;
*)
  $echo "$modename: only absolute run-paths are allowed" 1>&2
  exit $EXIT_FAILURE

```

```

;;
esac
case "$xrcpath " in
*" $dir ") ;;
*) xrcpath="$xrcpath $dir" ;;
esac
continue
;;

-static)
# The effects of -static are defined in a previous loop.
# We used to do the same as -all-static on platforms that
# didn't have a PIC flag, but the assumption that the effects
# would be equivalent was wrong. It would break on at least
# Digital Unix and AIX.
continue
;;

-thread-safe)
thread_safe=yes
continue
;;

-version-info)
prev=vinfo
continue
;;

-version-number)
prev=vinfo
vinfo_number=yes
continue
;;

-Wc,*)
args=`echo "X$args" | $Xsed -e "$sed_quote_subst" -e 's/^-Wc, //'`
arg=
save_ifs="$IFS"; IFS=', '
for flag in $args; do
IFS="$save_ifs"
case $flag in
*[[[~\#\^\&\*\(\)\{\}\|\|;\<\>\?\'\" \ ]*|*|*|""])
flag="\\"$flag\""
;;
esac
arg="$arg $wl$flag"
compiler_flags="$compiler_flags $flag"
done
IFS="$save_ifs"
arg=`echo "X$args" | $Xsed -e "s/^- //"`
;;

-Wl,*)
args=`echo "X$args" | $Xsed -e "$sed_quote_subst" -e 's/^-Wl, //'`
arg=

```

```

save_ifs="$IFS"; IFS=', '
for flag in $args; do
    IFS="$save_ifs"
    case $flag in
        *[\[\~\#\^\&\*\(\)\{\}\|\|;\<\>\?\'\ \ ]*|*|*|"")
            flag="\ "$flag"
            ;;
    esac
    arg="$arg $wl$flag"
    compiler_flags="$compiler_flags $wl$flag"
    linker_flags="$linker_flags $flag"
done
IFS="$save_ifs"
arg=`$echo "X$arg" | $Xsed -e "s/^ //"`
;;

-Xcompiler)
prev=xcompiler
continue
;;

-Xlinker)
prev=xlinker
continue
;;

-XCCLinker)
prev=xcclinker
continue
;;

# Some other compiler flag.
-* | +*)
# Unknown arguments in both finalize_command and compile_command
need
# to be aesthetically quoted because they are eval'd later.
arg=`$echo "X$arg" | $Xsed -e "$sed_quote_subst"`
case $arg in
    *[\[\~\#\^\&\*\(\)\{\}\|\|;\<\>\?\'\ \ ]*|*|*|"")
        arg="\ "$arg"
        ;;
    esac
;;

*.$objext)
# A standard object.
objs="$objs $arg"
;;

*.lo)
# A libtool-controlled object.

# Check to see that this really is a libtool object.

```

```

    if ({SED} -e '2q' $arg | grep "^# Generated by .*$PACKAGE")
>/dev/null 2>&1; then
    pic_object=
    non_pic_object=

    # Read the .lo file
    # If there is no directory component, then add one.
    case $arg in
    /* | *\*) . $arg ;;
    *) . ./ $arg ;;
    esac

    if test -z "$pic_object" || \
        test -z "$non_pic_object" ||
        test "$pic_object" = none && \
        test "$non_pic_object" = none; then
        $echo "$modename: cannot find name of object for ` $arg ` " 1>&2
        exit $EXIT_FAILURE
    fi

    # Extract subdirectory from the argument.
    xdir=`$echo "X$arg" | $Xsed -e 's%/[^/]*$%%'`
    if test "X$xdir" = "X$arg"; then
        xdir=
    else
        xdir="$xdir/"
    fi

    if test "$pic_object" != none; then
        # Prepend the subdirectory the object is found in.
        pic_object="$xdir$pic_object"

        if test "$prev" = dlfiles; then
            if test "$build_libtool_libs" = yes && test "$dlopen_support"
= yes; then
                dlfiles="$dlfiles $pic_object"
                prev=
                continue
            else
                # If libtool objects are unsupported, then we need to
preload.
                prev=dlprefiles
            fi
        fi

        # CHECK ME: I think I busted this. -Ossama
        if test "$prev" = dlprefiles; then
            # Preload the old-style object.
            dlprefiles="$dlprefiles $pic_object"
            prev=
        fi

        # A PIC object.
        libobjs="$libobjs $pic_object"

```

```

    arg="$pic_object"
fi

# Non-PIC object.
if test "$non_pic_object" != none; then
    # Prepend the subdirectory the object is found in.
    non_pic_object="$xdir$non_pic_object"

    # A standard non-PIC object
    non_pic_objects="$non_pic_objects $non_pic_object"
    if test -z "$pic_object" || test "$pic_object" = none ; then
        arg="$non_pic_object"
    fi
else
    # If the PIC object exists, use it instead.
    # $xdir was prepended to $pic_object above.
    non_pic_object="$pic_object"
    non_pic_objects="$non_pic_objects $non_pic_object"
fi
else
    # Only an error if not doing a dry-run.
    if test -z "$run"; then
        $echo "$modename: \"$arg\" is not a valid libtool object" 1>&2
        exit $EXIT_FAILURE
    else
        # Dry-run case.

        # Extract subdirectory from the argument.
        xdir=`$echo "X$arg" | $Xsed -e 's%/[^/]*$%%'`
        if test "X$xdir" = "X$arg"; then
            xdir=
        else
            xdir="$xdir/"
        fi

        pic_object=`$echo "X${xdir}${objdir}/${arg}" | $Xsed -e
"$lo2o" `
        non_pic_object=`$echo "X${xdir}${arg}" | $Xsed -e "$lo2o" `
        libobjs="$libobjs $pic_object"
        non_pic_objects="$non_pic_objects $non_pic_object"
    fi
fi
;;

*.$libext)
# An archive.
deplibs="$deplibs $arg"
old_deplibs="$old_deplibs $arg"
continue
;;

*.la)
# A libtool-controlled library.

```





```

        # get the directories listed in $shlibpath_var
        eval shlib_search_path=\`$echo "X\${$shlibpath_var}" \| \${Xsed -
e \ 's/:// /g'\`
    else
        shlib_search_path=
    fi
    eval sys_lib_search_path="\$sys_lib_search_path_spec"
    eval sys_lib_dlsearch_path="\$sys_lib_dlsearch_path_spec"

    output_objdir=\`$echo "X$output" | \${Xsed -e 's%/[^/]*$%%'\`
    if test "X$output_objdir" = "X$output"; then
        output_objdir="$objdir"
    else
        output_objdir="$output_objdir/$objdir"
    fi
    # Create the object directory.
    if test ! -d "$output_objdir"; then
        $show "$mkdir $output_objdir"
        $run $mkdir $output_objdir
        exit_status=$?
        if test "$exit_status" -ne 0 && test ! -d "$output_objdir"; then
            exit $exit_status
        fi
    fi

    # Determine the type of output
    case $output in
    "")
        $echo "$modename: you must specify an output file" 1>&2
        $echo "$help" 1>&2
        exit $EXIT_FAILURE
        ;;
    *.$libext) linkmode=oldlib ;;
    *.lo | *.$objext) linkmode=obj ;;
    *.la) linkmode=lib ;;
    *) linkmode=prog ;; # Anything else should be a program.
    esac

    case $host in
    *cygwin* | *mingw* | *pw32*)
        # don't eliminate duplications in $postdeps and $predeps
        duplicate_compiler_generated_deps=yes
        ;;
    *)
        duplicate_compiler_generated_deps=$duplicate_deps
        ;;
    esac
    specialdeplibs=

    libs=
    # Find all interdependent deplibs by searching for libraries
    # that are linked more than once (e.g. -la -lb -la)
    for deplib in $deplibs; do
        if test "X$duplicate_deps" = "Xyes" ; then

```

```

    case "$libs " in
    *" $deplib ") specialdeplibs="$specialdeplibs $deplib" ;;
    esac
    fi
    libs="$libs $deplib"
done

if test "$linkmode" = lib; then
    libs="$predeps $libs $compiler_lib_search_path $postdeps"

    # Compute libraries that are listed more than once in $predeps
    # $postdeps and mark them as special (i.e., whose duplicates are
    # not to be eliminated).
    pre_post_deps=
    if test "X$duplicate_compiler_generated_deps" = "Xyes" ; then
    for pre_post_dep in $predeps $postdeps; do
        case "$pre_post_deps " in
        *" $pre_post_dep ") specialdeplibs="$specialdeplibs
$pre_post_deps" ;;
        esac
        pre_post_deps="$pre_post_deps $pre_post_dep"
    done
    fi
    pre_post_deps=
fi

deplibs=
newdependency_libs=
newlib_search_path=
need_relink=no # whether we're linking any uninstalled libtool
libraries
notinst_deplibs= # not-installed libtool libraries
case $linkmode in
lib)
    passes="conv link"
    for file in $dlfiles $dlprefiles; do
        case $file in
        *.la) ;;
        *)
            $echo "$modename: libraries can \'-dlopen\' only libtool
libraries: $file" 1>&2
            exit $EXIT_FAILURE
            ;;
        esac
    done
    ;;
prog)
    compile_deplibs=
    finalize_deplibs=
    alldeplibs=no
    newdlfiles=
    newdlprefiles=
    passes="conv scan dlopen dlpreopen link"
    ;;

```

```

*) passes="conv"
;;
esac
for pass in $passes; do
  if test "$linkmode,$pass" = "lib,link" ||
    test "$linkmode,$pass" = "prog,scan"; then
    libs="$deplibs"
    deplibs=
  fi
  if test "$linkmode" = prog; then
  case $pass in
dlopen) libs="$dlfiles" ;;
dlpreopen) libs="$dlprefiles" ;;
link) libs="$deplibs %DEPLIBS% $dependency_libs" ;;
esac
  fi
  if test "$pass" = dlopen; then
# Collect dlpreopened libraries
save_deplibs="$deplibs"
deplibs=
  fi
  for deplib in $libs; do
  lib=
  found=no
  case $deplib in
-mt|-mthreads|-kthread|-Kthread|-pthread|-pthreads|--thread-safe)
  if test "$linkmode,$pass" = "prog,link"; then
    compile_deplibs="$deplib $compile_deplibs"
    finalize_deplibs="$deplib $finalize_deplibs"
  else
    compiler_flags="$compiler_flags $deplib"
  fi
  continue
  ;;
-l*)
  if test "$linkmode" != lib && test "$linkmode" != prog; then
    $echo "$modename: warning: \'-l\' is ignored for
archives/objects" 1>&2
  continue
  fi
  name=`$echo "X$deplib" | $Xsed -e 's/^-l//'`
  for searchdir in $newlib_search_path $lib_search_path
$sys_lib_search_path $shlib_search_path; do
    for search_ext in .la $std_shrext .so .a; do
      # Search the libtool library
      lib="$searchdir/lib${name}${search_ext}"
      if test -f "$lib"; then
        if test "$search_ext" = ".la"; then
          found=yes
        else
          found=no
        fi
        break 2
      fi
    fi
  fi

```

```

done
done
if test "$found" != yes; then
    # deplib doesn't seem to be a libtool library
    if test "$linkmode,$pass" = "prog,link"; then
        compile_deplibs="$deplib $compile_deplibs"
        finalize_deplibs="$deplib $finalize_deplibs"
    else
        deplibs="$deplib $deplibs"
        test "$linkmode" = lib && newdependency_libs="$deplib
$newdependency_libs"
    fi
    continue
else # deplib is a libtool library
    # If $allow_libtool_libs_with_static_runtimes && $deplib is a
stdlib,
    # We need to do some special things here, and not later.
    if test "X$allow_libtool_libs_with_static_runtimes" = "Xyes" ;
then
    case " $predeps $postdeps " in
    *" $deplib ")
        if ({SED} -e '2q' $lib |
            grep "^# Generated by .*$PACKAGE") >/dev/null 2>&1;
then
            library_names=
            old_library=
            case $lib in
            /* | *\*) . $lib ;;
            *) . ./ $lib ;;
            esac
            for l in $old_library $library_names; do
                ll="$l"
            done
            if test "X$ll" = "X$old_library" ; then # only static
version available
                found=no
                ladir=`$echo "X$lib" | $Xsed -e 's%/[^/]*%%'`
                test "X$ladir" = "X$lib" && ladir="."
                lib=$ladir/$old_library
                if test "$linkmode,$pass" = "prog,link"; then
                    compile_deplibs="$deplib $compile_deplibs"
                    finalize_deplibs="$deplib $finalize_deplibs"
                else
                    deplibs="$deplib $deplibs"
                    test "$linkmode" = lib && newdependency_libs="$deplib
$newdependency_libs"
                fi
            fi
            continue
        fi
    fi
    ;;
*) ;;
esac
fi

```

```

    fi
    ;; # -l
-L*)
    case $linkmode in
    lib)
        deplibs="$deplib $deplibs"
        test "$pass" = conv && continue
        newdependency_libs="$deplib $newdependency_libs"
        newlib_search_path="$newlib_search_path "`$echo "X$deplib" |
$Xsed -e 's/^-L//'`
        ;;
    prog)
        if test "$pass" = conv; then
            deplibs="$deplib $deplibs"
            continue
        fi
        if test "$pass" = scan; then
            deplibs="$deplib $deplibs"
        else
            compile_deplibs="$deplib $compile_deplibs"
            finalize_deplibs="$deplib $finalize_deplibs"
        fi
        newlib_search_path="$newlib_search_path "`$echo "X$deplib" |
$Xsed -e 's/^-L//'`
        ;;
    *)
        $echo "$modename: warning: \`-L' is ignored for
archives/objects" 1>&2
        ;;
    esac # linkmode
    continue
    ;; # -L
-R*)
    if test "$pass" = link; then
        dir=`$echo "X$deplib" | $Xsed -e 's/^-R//'`
        # Make sure the xrrpath contains only unique directories.
        case "$xrpath " in
        *" $dir "*) ;;
        *) xrpath="$xrpath $dir" ;;
        esac
    fi
    deplibs="$deplib $deplibs"
    continue
    ;;
*.la) lib="$deplib" ;;
*.$libext)
    if test "$pass" = conv; then
        deplibs="$deplib $deplibs"
        continue
    fi
    case $linkmode in
    lib)
        valid_a_lib=no
        case $deplibs_check_method in

```

```

match_pattern*)
set dummy $deplibs_check_method
  match_pattern_regex=`expr "$deplibs_check_method" : "$2
\(.*\)`
  if eval $echo "\"$deplib\" 2>/dev/null \
    | $SED 10q \
    | $EGREP "$match_pattern_regex" > /dev/null; then
    valid_a_lib=yes
  fi
  ;;
  pass_all)
  valid_a_lib=yes
  ;;
  esac
if test "$valid_a_lib" != yes; then
  $echo
  $echo "**** Warning: Trying to link with static lib archive
$deplib."
  $echo "**** I have the capability to make that library
automatically link in when"
  $echo "**** you link to this library. But I can only do this
if you have a"
  $echo "**** shared version of the library, which you do not
appear to have"
  $echo "**** because the file extensions .$libext of this
argument makes me believe"
  $echo "**** that it is just a static archive that I should not
used here."
  else
  $echo
  $echo "**** Warning: Linking the shared library $output
against the"
  $echo "**** static library $deplib is not portable!"
  deplibs="$deplib $deplibs"
  fi
  continue
  ;;
prog)
  if test "$pass" != link; then
    deplibs="$deplib $deplibs"
  else
    compile_deplibs="$deplib $compile_deplibs"
    finalize_deplibs="$deplib $finalize_deplibs"
  fi
  continue
  ;;
  esac # linkmode
;; # *.$libext
*.lo | *.$objext)
  if test "$pass" = conv; then
    deplibs="$deplib $deplibs"
  elif test "$linkmode" = prog; then
    if test "$pass" = dlpreopen || test "$dlopen_support" != yes ||
test "$build_libtool_libs" = no; then

```

```

        # If there is no dlopen support or we're linking statically,
        # we need to preload.
        newdlprefiles="$newdlprefiles $deplib"
        compile_deplibs="$deplib $compile_deplibs"
        finalize_deplibs="$deplib $finalize_deplibs"
    else
        newdlfiles="$newdlfiles $deplib"
    fi
fi
continue
;;
%DEPLIBS%)
    alldeplibs=yes
    continue
    ;;
esac # case $deplib
if test "$found" = yes || test -f "$lib"; then :
else
    $echo "$modename: cannot find the library \`$lib' or unhandled
argument \`$deplib'" 1>&2
    exit $EXIT_FAILURE
fi

# Check to see that this really is a libtool archive.
if ({SED} -e '2q' $lib | grep "^# Generated by .*$PACKAGE")
>/dev/null 2>&1; then :
else
    $echo "$modename: \`$lib' is not a valid libtool archive" 1>&2
    exit $EXIT_FAILURE
fi

ladir=`$echo "X$lib" | $Xsed -e 's%/[^/]*$%%'`
test "X$ladir" = "X$lib" && ladir="."

dlname=
dlopen=
dlpreopen=
libdir=
library_names=
old_library=
# If the library was installed with an old release of libtool,
# it will not redefine variables installed, or shouldnotlink
installed=yes
shouldnotlink=no
avoidtempopath=

# Read the .la file
case $lib in
*/* | *\(\*) . $lib ;;
*) . ./$lib ;;
esac

if test "$linkmode,$pass" = "lib,link" ||

```



```

    test "$linkmode,$pass" = "prog,scan" ||
    { test "$linkmode" != prog && test "$linkmode" != lib; }; then
test -n "$dlopen" && dlfiles="$dlfiles $dlopen"
test -n "$dlpreopen" && dlprefiles="$dlprefiles $dlpreopen"
fi

if test "$pass" = conv; then
# Only check for convenience libraries
deplibs="$lib $deplibs"
if test -z "$libdir"; then
    if test -z "$old_library"; then
        $echo "$modename: cannot find name of link library for
\`$lib'" 1>&2
        exit $EXIT_FAILURE
    fi
    # It is a libtool convenience library, so add in its objects.
convenience="$convenience $ladir/$objdir/$old_library"
old_convenience="$old_convenience $ladir/$objdir/$old_library"
tmp_libs=
for deplib in $dependency_libs; do
    deplibs="$deplib $deplibs"
    if test "X$duplicate_deps" = "Xyes" ; then
        case "$tmp_libs " in
            *" $deplib "*) specialdeplibs="$specialdeplibs $deplib" ;;
        esac
    fi
    tmp_libs="$tmp_libs $deplib"
done
elif test "$linkmode" != prog && test "$linkmode" != lib; then
    $echo "$modename: \`$lib' is not a convenience library" 1>&2
    exit $EXIT_FAILURE
fi
continue
fi # $pass = conv

# Get the name of the library we link against.
linklib=
for l in $old_library $library_names; do
    linklib="$l"
done
if test -z "$linklib"; then
    $echo "$modename: cannot find name of link library for \`$lib'"
1>&2
    exit $EXIT_FAILURE
fi

# This library was specified with -dlopen.
if test "$pass" = dlopen; then
    if test -z "$libdir"; then
        $echo "$modename: cannot -dlopen a convenience library:
\`$lib'" 1>&2
        exit $EXIT_FAILURE
    fi

```

```

if test -z "$dlname" ||
    test "$dlopen_support" != yes ||
    test "$build_libtool_libs" = no; then
    # If there is no dlname, no dlopen support or we're linking
    # statically, we need to preload. We also need to preload any
    # dependent libraries so libltdl's deplib preloader doesn't
    # bomb out in the load deplibs phase.
    dlprefiles="$dlprefiles $lib $dependency_libs"
else
    newdlfiles="$newdlfiles $lib"
fi
continue
fi # $pass = dlopen

# We need an absolute path.
case $ladir in
[\\/* | [A-Za-z]:[\\/*]*) abs_ladir="$ladir" ;;
*)
    abs_ladir=`cd "$ladir" && pwd`
    if test -z "$abs_ladir"; then
        $echo "$modename: warning: cannot determine absolute directory
name of `"$ladir"`" 1>&2
        $echo "$modename: passing it literally to the linker, although
it might fail" 1>&2
        abs_ladir="$ladir"
    fi
    ;;
esac
laname=`$echo "X$lib" | $Xsed -e 's%^.*/%%'`

# Find the relevant object directory and library name.
if test "X$installed" = Xyes; then
    if test ! -f "$libdir/$linklib" && test -f "$abs_ladir/$linklib";
then
        $echo "$modename: warning: library `"$lib"` was moved." 1>&2
        dir="$ladir"
        absdir="$abs_ladir"
        libdir="$abs_ladir"
    else
        dir="$libdir"
        absdir="$libdir"
    fi
    test "X$hardcode_automatic" = Xyes && avoidtemprpath=yes
else
    if test ! -f "$ladir/$objdir/$linklib" && test -f
"$abs_ladir/$linklib"; then
        dir="$ladir"
        absdir="$abs_ladir"
        # Remove this search path later
        notinst_path="$notinst_path $abs_ladir"
    else
        dir="$ladir/$objdir"
        absdir="$abs_ladir/$objdir"
        # Remove this search path later

```

```

        notinst_path="$notinst_path $abs_ladir"
    fi
fi # $installed = yes
name=`$echo "X$name" | $Xsed -e 's/\.la$//' -e 's/^\lib//'`

# This library was specified with -dlpreopen.
if test "$pass" = dlpreopen; then
    if test -z "$libdir"; then
        $echo "$modename: cannot -dlpreopen a convenience library:
\`$lib'" 1>&2
        exit $EXIT_FAILURE
    fi
    # Prefer using a static library (so that no silly _DYNAMIC
symbols
# are required to link).
    if test -n "$old_library"; then
        newdlprefiles="$newdlprefiles $dir/$old_library"
    # Otherwise, use the dlname, so that lt_dlopen finds it.
    elif test -n "$dlname"; then
        newdlprefiles="$newdlprefiles $dir/$dlname"
    else
        newdlprefiles="$newdlprefiles $dir/$linklib"
    fi
fi # $pass = dlpreopen

if test -z "$libdir"; then
    # Link the convenience library
    if test "$linkmode" = lib; then
        deplibs="$dir/$old_library $deplibs"
    elif test "$linkmode,$pass" = "prog,link"; then
        compile_deplibs="$dir/$old_library $compile_deplibs"
        finalize_deplibs="$dir/$old_library $finalize_deplibs"
    else
        deplibs="$lib $deplibs" # used for prog,scan pass
    fi
    continue
fi

if test "$linkmode" = prog && test "$pass" != link; then
    newlib_search_path="$newlib_search_path $ladir"
    deplibs="$lib $deplibs"

    linkalldeplibs=no
    if test "$link_all_deplibs" != no || test -z "$library_names" ||
        test "$build_libtool_libs" = no; then
        linkalldeplibs=yes
    fi

    tmp_libs=
    for deplib in $dependency_libs; do
        case $deplib in
            -L*) newlib_search_path="$newlib_search_path "`$echo "X$deplib"
| $Xsed -e 's/^-L//'`;; ### testsuite: skip nested quoting test

```

```

esac
# Need to link against all dependency_libs?
if test "$linkalldeplibs" = yes; then
  deplibs="$deplib $deplibs"
else
  # Need to hardcode shared library paths
  # or/and link against static libraries
  newdependency_libs="$deplib $newdependency_libs"
fi
if test "X$duplicate_deps" = "Xyes" ; then
  case "$tmp_libs " in
    *" $deplib ") specialdeplibs="$specialdeplibs $deplib" ;;
  esac
fi
tmp_libs="$tmp_libs $deplib"
done # for deplib
continue
fi # $linkmode = prog...

if test "$linkmode,$pass" = "prog,link"; then
  if test -n "$library_names" &&
    { test "$prefer_static_libs" = no || test -z "$old_library";
}; then
  # We need to hardcode the library path
  if test -n "$shlibpath_var" && test -z "$avoidtemprpath" ; then
    # Make sure the rpath contains only unique directories.
    case "$temp_rpath " in
      *" $dir ") ;;
      *" $absdir ") ;;
      *) temp_rpath="$temp_rpath $absdir" ;;
    esac
  fi

  # Hardcode the library path.
  # Skip directories that are in the system default run-time
  # search path.
  case " $sys_lib_dlsearch_path " in
    *" $absdir ") ;;
    *)
      case "$compile_rpath " in
        *" $absdir ") ;;
        *) compile_rpath="$compile_rpath $absdir"
      esac
      ;;
  esac
  case " $sys_lib_dlsearch_path " in
    *" $libdir ") ;;
    *)
      case "$finalize_rpath " in
        *" $libdir ") ;;
        *) finalize_rpath="$finalize_rpath $libdir"
      esac
      ;;
  esac
esac

```

```

fi # $linkmode,$spass = prog,link...

if test "$alldeplibs" = yes &&
  { test "$deplibs_check_method" = pass_all ||
    { test "$build_libtool_libs" = yes &&
      test -n "$library_names"; }; }; then
  # We only need to search for static libraries
  continue
fi
fi

link_static=no # Whether the deplib will be linked statically
use_static_libs=$prefer_static_libs
if test "$use_static_libs" = built && test "$installed" = yes ;
then
  use_static_libs=no
fi
if test -n "$library_names" &&
  { test "$use_static_libs" = no || test -z "$old_library"; };
then
  if test "$installed" = no; then
    notinst_deplibs="$notinst_deplibs $lib"
    need_relink=yes
  fi
  # This is a shared library

  # Warn about portability, can't link against -module's on
  # some systems (darwin)
  if test "$shouldnotlink" = yes && test "$spass" = link ; then
    $echo
    if test "$linkmode" = prog; then
      $echo "*** Warning: Linking the executable $output against
the loadable module"
    else
      $echo "*** Warning: Linking the shared library $output
against the loadable module"
    fi
    $echo "*** $linklib is not portable!"
  fi
fi
if test "$linkmode" = lib &&
  test "$hardcode_into_libs" = yes; then
  # Hardcode the library path.
  # Skip directories that are in the system default run-time
  # search path.
  case " $sys_lib_dlsearch_path " in
  *" $absdir "*) ;;
  *)
    case "$compile_rpath " in
    *" $absdir "*) ;;
    *) compile_rpath="$compile_rpath $absdir"
    esac
    ;;
  esac
  case " $sys_lib_dlsearch_path " in

```

```

*) $libdir *) ;;
*)
  case "$finalize_rpath " in
    *) $libdir *) ;;
    *) finalize_rpath="$finalize_rpath $libdir"
      esac
      ;;
  esac
fi

if test -n "$old_archive_from_expsyms_cmds"; then
  # figure out the soname
  set dummy $library_names
  realname="$2"
  shift; shift
  libname=`eval \\$echo \"\$libname_spec\"`
  # use dlname if we got it. it's perfectly good, no?
  if test -n "$dlname"; then
    soname="$dlname"
  elif test -n "$soname_spec"; then
    # bleh windows
    case $host in
      *cygwin* | mingw*)
        major=`expr $current - $age`
        versuffix="-${major}"
        ;;
      esac
    eval soname=\"\$soname_spec\"
  else
    soname="$realname"
  fi

  # Make a new name for the extract_expsyms_cmds to use
  soroot="$soname"
  soname=`$echo $soroot | ${SED} -e 's/^.*/\\\\/'`
  newlib="libimp-`$echo $soname | ${SED}
's/^lib//;s/\\.dll$//'\`.a"

  # If the library has no export list, then create one now
  if test -f "$output_objdir/$soname-def"; then :
  else
    $show "extracting exported symbol list from \"\$soname\""
    save_ifs="$IFS"; IFS='~'
    cmds=$extract_expsyms_cmds
    for cmd in $cmds; do
      IFS="$save_ifs"
      eval cmd=\"\$cmd\"
      $show "$cmd"
      $run eval "$cmd" || exit $?
    done
    IFS="$save_ifs"
  fi

  # Create $newlib

```

```

if test -f "$output_objdir/$newlib"; then ;; else
  $show "generating import library for \"\$soname\""
  save_ifs="$IFS"; IFS='~'
  cmds=$old_archive_from_expsyms_cmds
  for cmd in $cmds; do
    IFS="$save_ifs"
    eval cmd="\$cmd\"
    $show "$cmd"
    $run eval "$cmd" || exit $?
  done
  IFS="$save_ifs"
fi
# make sure the library variables are pointing to the new
library
dir=$output_objdir
linklib=$newlib
fi # test -n "$old_archive_from_expsyms_cmds"

if test "$linkmode" = prog || test "$mode" != relink; then
  add_shlibpath=
  add_dir=
  add=
  lib_linked=yes
  case $hardcode_action in
  immediate | unsupported)
    if test "$hardcode_direct" = no; then
      add="$dir/$linklib"
      case $host in
        *--sco3.2v5.0.[024]*) add_dir="-L$dir" ;;
        *--sysv4*uw2*) add_dir="-L$dir" ;;
        *--sysv5OpenUNIX* | *--sysv5UnixWare7.[01].[10]* | \
          *--unixware7*) add_dir="-L$dir" ;;
        *--darwin* )
          # if the lib is a module then we can not link against
          # it, someone is ignoring the new warnings I added
          if /usr/bin/file -L $add 2> /dev/null |
              $EGREP ": [^:]* bundle" >/dev/null ; then
            $echo "*** Warning, lib $linklib is a module, not a
shared library"
          fi
          if test -z "$old_library" ; then
            $echo
            $echo "*** And there doesn't seem to be a static
archive available"
            $echo "*** The link will probably fail, sorry"
          else
            add="$dir/$old_library"
          fi
        fi
      esac
    elif test "$hardcode_minus_L" = no; then
      case $host in
        *--sunos*) add_shlibpath="$dir" ;;
      esac
      add_dir="-L$dir"

```

```

add="-l$name"
elif test "$hardcode_shlibpath_var" = no; then
add_shlibpath="$dir"
add="-l$name"
else
lib_linked=no
fi
;;
relink)
if test "$hardcode_direct" = yes; then
add="$dir/$linklib"
elif test "$hardcode_minus_L" = yes; then
add_dir="-L$dir"
# Try looking first in the location we're being installed to.
if test -n "$inst_prefix_dir"; then
case $libdir in
[\\/]*)
add_dir="$add_dir -L$inst_prefix_dir$libdir"
;;
esac
fi
add="-l$name"
elif test "$hardcode_shlibpath_var" = yes; then
add_shlibpath="$dir"
add="-l$name"
else
lib_linked=no
fi
;;
*) lib_linked=no ;;
esac

if test "$lib_linked" != yes; then
$echo "$modename: configuration error: unsupported hardcode
properties"
exit $EXIT_FAILURE
fi

if test -n "$add_shlibpath"; then
case :$compile_shlibpath: in
*:$add_shlibpath:*) ;;
*) compile_shlibpath="$compile_shlibpath$add_shlibpath:" ;;
esac
fi
if test "$linkmode" = prog; then
test -n "$add_dir" && compile_deplibs="$add_dir
$compile_deplibs"
test -n "$add" && compile_deplibs="$add $compile_deplibs"
else
test -n "$add_dir" && deplibs="$add_dir $deplibs"
test -n "$add" && deplibs="$add $deplibs"
if test "$hardcode_direct" != yes && \
test "$hardcode_minus_L" != yes && \
test "$hardcode_shlibpath_var" = yes; then

```



```

        case :$finalize_shlibpath: in
        *":$libdir:") ;;
        *) finalize_shlibpath="$finalize_shlibpath$libdir:" ;;
        esac
        fi
    fi
fi

if test "$linkmode" = prog || test "$mode" = relink; then
    add_shlibpath=
    add_dir=
    add=
    # Finalize command for both is simple: just hardcode it.
    if test "$hardcode_direct" = yes; then
        add="$libdir/$linklib"
    elif test "$hardcode_minus_L" = yes; then
        add_dir="-L$libdir"
        add="-l$name"
    elif test "$hardcode_shlibpath_var" = yes; then
        case :$finalize_shlibpath: in
        *":$libdir:") ;;
        *) finalize_shlibpath="$finalize_shlibpath$libdir:" ;;
        esac
        add="-l$name"
    elif test "$hardcode_automatic" = yes; then
        if test -n "$inst_prefix_dir" &&
            test -f "$inst_prefix_dir$libdir/$linklib" ; then
            add="$inst_prefix_dir$libdir/$linklib"
        else
            add="$libdir/$linklib"
        fi
    else
        # We cannot seem to hardcode it, guess we'll fake it.
        add_dir="-L$libdir"
        # Try looking first in the location we're being installed to.
        if test -n "$inst_prefix_dir"; then
            case $libdir in
            [\\/]*)
                add_dir="$add_dir -L$inst_prefix_dir$libdir"
                ;;
            esac
        fi
        add="-l$name"
    fi
fi

if test "$linkmode" = prog; then
    test -n "$add_dir" && finalize_deplibs="$add_dir
$finalize_deplibs"
    test -n "$add" && finalize_deplibs="$add $finalize_deplibs"
else
    test -n "$add_dir" && deplibs="$add_dir $deplibs"
    test -n "$add" && deplibs="$add $deplibs"
fi
fi

```

```

elif test "$linkmode" = prog; then
  # Here we assume that one of hardcoded_direct or hardcoded_minus_L
  # is not unsupported. This is valid on all known static and
  # shared platforms.
  if test "$hardcoded_direct" != unsupported; then
    test -n "$old_library" && linklib="$old_library"
    compile_deplibs="$dir/$linklib $compile_deplibs"
    finalize_deplibs="$dir/$linklib $finalize_deplibs"
  else
    compile_deplibs="-l$name -L$dir $compile_deplibs"
    finalize_deplibs="-l$name -L$dir $finalize_deplibs"
  fi
elif test "$build_libtool_libs" = yes; then
  # Not a shared library
  if test "$deplibs_check_method" != pass_all; then
    # We're trying link a shared library against a static one
    # but the system doesn't support it.

    # Just print a warning and add the library to dependency_libs
so
    # that the program can be linked against the static library.
    $echo
    $echo "*** Warning: This system can not link to static lib
archive $lib."
    $echo "*** I have the capability to make that library
automatically link in when"
    $echo "*** you link to this library. But I can only do this if
you have a"
    $echo "*** shared version of the library, which you do not
appear to have."
    if test "$module" = yes; then
      $echo "*** But as you try to build a module library, libtool
will still create "
      $echo "*** a static module, that should work as long as the
dlopening application"
      $echo "*** is linked with the -dlopen flag to resolve symbols
at runtime."
      if test -z "$global_symbol_pipe"; then
        $echo
        $echo "*** However, this would only work if libtool was able
to extract symbol"
        $echo "*** lists from a program, using `nm' or equivalent,
but libtool could"
        $echo "*** not find such a program. So, this module is
probably useless."
        $echo "*** `nm' from GNU binutils and a full rebuild may
help."
      fi
      if test "$build_old_libs" = no; then
        build_libtool_libs=module
        build_old_libs=yes
      else
        build_libtool_libs=no
      fi
    fi
  fi

```

```

        fi
    else
        deplibs="$dir/$old_library $deplibs"
        link_static=yes
    fi
fi # link shared/static library?

if test "$linkmode" = lib; then
    if test -n "$dependency_libs" &&
        { test "$hardcode_into_libs" != yes ||
          test "$build_old_libs" = yes ||
          test "$link_static" = yes; }; then
        # Extract -R from dependency_libs
        temp_deplibs=
        for libdir in $dependency_libs; do
            case $libdir in
                -R*) temp_xrpath=`$echo "X$libdir" | $Xsed -e 's/^-R//'\`
                    case " $xrpath " in
                        *" $temp_xrpath ") ;;
                        *) xrpath="$xrpath $temp_xrpath";;
                    esac;;
                *) temp_deplibs="$temp_deplibs $libdir";;
            esac
        done
        dependency_libs="$temp_deplibs"
    fi

    newlib_search_path="$newlib_search_path $absdir"
    # Link against this library
    test "$link_static" = no &&
    newdependency_libs="$abs_ladir/$laname $newdependency_libs"
    # ... and its dependency_libs
    tmp_libs=
    for deplib in $dependency_libs; do
        newdependency_libs="$deplib $newdependency_libs"
        if test "X$duplicate_deps" = "Xyes" ; then
            case "$tmp_libs " in
                *" $deplib ") specialdeplibs="$specialdeplibs $deplib" ;;
            esac
        fi
        tmp_libs="$tmp_libs $deplib"
    done

    if test "$link_all_deplibs" != no; then
        # Add the search paths of all dependency libraries
        for deplib in $dependency_libs; do
            case $deplib in
                -L*) path="$deplib" ;;
                *.la)
                    dir=`$echo "X$deplib" | $Xsed -e 's%/[^/]*$%%'\`
                    test "X$dir" = "X$deplib" && dir="."
                    # We need an absolute path.
                    case $dir in
                        [\\/] * | [A-Za-z]:[\\/] *) absdir="$dir" ;;

```

```

*)
  absdir=`cd "$dir" && pwd`
  if test -z "$absdir"; then
    $echo "$modename: warning: cannot determine absolute
directory name of ``$dir'" 1>&2
    absdir="$dir"
  fi
  ;;
esac
if grep "^installed=no" $deplib > /dev/null; then
  path="$absdir/$objdir"
else
  eval libdir=`${SED} -n -e 's/^libdir=\(.*\)$/\1/p' $deplib`
  if test -z "$libdir"; then
    $echo "$modename: ``$deplib' is not a valid libtool
archive" 1>&2
    exit $EXIT_FAILURE
  fi
  if test "$absdir" != "$libdir"; then
    $echo "$modename: warning: ``$deplib' seems to be moved"
1>&2

    fi
    path="$absdir"
  fi
  depdepl=
  case $host in
  *-*-darwin*)
    # we do not want to link against static libs,
    # but need to link against shared
    eval deplibrary_names=`${SED} -n -e
's/^library_names=\(.*\)$/\1/p' $deplib`
    if test -n "$deplibrary_names" ; then
      for tmp in $deplibrary_names ; do
        depdepl=$tmp
      done
      if test -f "$path/$depdepl" ; then
        depdepl="$path/$depdepl"
      fi
      # do not add paths which are already there
      case " $newlib_search_path " in
      *" $path "*) ;;
      *) newlib_search_path="$newlib_search_path $path";;
      esac
    fi
    path=""
    ;;
  *)
    path="-L$path"
    ;;
  esac
  ;;
-l*)
  case $host in
  *-*-darwin*)

```

```

# Again, we only want to link against shared libraries
eval tmp_libs=`$echo "X$deplib" | $Xsed -e "s,^\-1,, "`
for tmp in $newlib_search_path ; do
    if test -f "$tmp/lib$tmp_libs.dylib" ; then
        eval depdepl="$tmp/lib$tmp_libs.dylib"
        break
    fi
done
path=""
;;
*) continue ;;
esac
;;
*) continue ;;
esac
case " $deplibs " in
*" $path "*) ;;
*) deplibs="$path $deplibs" ;;
esac
case " $deplibs " in
*" $depdepl "*) ;;
*) deplibs="$depdepl $deplibs" ;;
esac
done
fi # link_all_deplibs != no
fi # linkmode = lib
done # for deplib in $libs
dependency_libs="$newdependency_libs"
if test "$pass" = dlpreopen; then
# Link the dlpreopened libraries before other libraries
for deplib in $save_deplibs; do
    deplibs="$deplib $deplibs"
done
fi
if test "$pass" != dlopen; then
if test "$pass" != conv; then
# Make sure lib_search_path contains only unique directories.
lib_search_path=
for dir in $newlib_search_path; do
    case "$lib_search_path " in
*" $dir "*) ;;
*) lib_search_path="$lib_search_path $dir" ;;
esac
done
newlib_search_path=
fi

if test "$linkmode,$pass" != "prog,link"; then
    vars="deplibs"
else
    vars="compile_deplibs finalize_deplibs"
fi
for var in $vars dependency_libs; do
    # Add libraries to $var in reverse order

```

```

eval tmp_libs="\\"$var\"
new_libs=
for deplib in $tmp_libs; do
  # FIXME: Pedantically, this is the right thing to do, so
  #         that some nasty dependency loop isn't accidentally
  #         broken:
  #new_libs="$deplib $new_libs"
  # Pragmatically, this seems to cause very few problems in
  # practice:
  case $deplib in
  -L*) new_libs="$deplib $new_libs" ;;
  -R*) ;;
  *)
    # And here is the reason: when a library appears more
    # than once as an explicit dependence of a library, or
    # is implicitly linked in more than once by the
    # compiler, it is considered special, and multiple
    # occurrences thereof are not removed. Compare this
    # with having the same library being listed as a
    # dependency of multiple other libraries: in this case,
    # we know (pedantically, we assume) the library does not
    # need to be listed more than once, so we keep only the
    # last copy. This is not always right, but it is rare
    # enough that we require users that really mean to play
    # such unportable linking tricks to link the library
    # using -Wl,-lname, so that libtool does not consider it
    # for duplicate removal.
    case " $specialdeplibs " in
    *" $deplib ") new_libs="$deplib $new_libs" ;;
    *)
      case " $new_libs " in
      *" $deplib ") ;;
      *) new_libs="$deplib $new_libs" ;;
      esac
    ;;
  esac
done
tmp_libs=
for deplib in $new_libs; do
  case $deplib in
  -L*)
    case " $tmp_libs " in
    *" $deplib ") ;;
    *) tmp_libs="$tmp_libs $deplib" ;;
    esac
    ;;
  *) tmp_libs="$tmp_libs $deplib" ;;
  esac
done
eval $var="\\"$tmp_libs\"
done # for var
fi

```

```

# Last step: remove runtime libs from dependency_libs
# (they stay in deplibs)
tmp_libs=
for i in $dependency_libs ; do
case " $predeps $postdeps $compiler_lib_search_path " in
*" $i ")
    i=""
    ;;
esac
if test -n "$i" ; then
    tmp_libs="$tmp_libs $i"
fi
done
dependency_libs=$tmp_libs
done # for pass
if test "$linkmode" = prog; then
    dlfiles="$newdlfiles"
    dlprefiles="$newdlprefiles"
fi

case $linkmode in
oldlib)
    if test -n "$deplibs"; then
        $echo "$modename: warning: \'-l' and \'-L' are ignored for
archives" 1>&2
    fi

    if test -n "$dlfiles$dlprefiles" || test "$dlsself" != no; then
        $echo "$modename: warning: \'-dlopen' is ignored for archives" 1>&2
    fi

    if test -n "$rpath"; then
        $echo "$modename: warning: \'-rpath' is ignored for archives" 1>&2
    fi

    if test -n "$xrpath"; then
        $echo "$modename: warning: \'-R' is ignored for archives" 1>&2
    fi

    if test -n "$vinfo"; then
        $echo "$modename: warning: \'-version-info/-version-number' is
ignored for archives" 1>&2
    fi

    if test -n "$release"; then
        $echo "$modename: warning: \'-release' is ignored for archives"
1>&2
    fi

    if test -n "$export_symbols" || test -n "$export_symbols_regex";
then
        $echo "$modename: warning: \'-export-symbols' is ignored for
archives" 1>&2
    fi

```

```

# Now set the variables for building old libraries.
build_libtool_libs=no
oldlibs="$output"
objs="$objs$old_deplibs"
;;

lib)
# Make sure we only generate libraries of the form `libNAME.la'.
case $outputname in
lib*)
name=`$echo "X$outputname" | $Xsed -e 's/\.la$//' -e 's/^\lib//'`
eval shared_ext="\$shrext_cmds\"
eval libname="\$libname_spec\"
;;
*)
if test "$module" = no; then
$echo "$modename: libtool library \`$output' must begin with
\`lib'" 1>&2
$echo "$help" 1>&2
exit $EXIT_FAILURE
fi
if test "$need_lib_prefix" != no; then
# Add the "lib" prefix for modules if required
name=`$echo "X$outputname" | $Xsed -e 's/\.la$//'`
eval shared_ext="\$shrext_cmds\"
eval libname="\$libname_spec\"
else
libname=`$echo "X$outputname" | $Xsed -e 's/\.la$//'`
fi
;;
esac

if test -n "$objs"; then
if test "$deplibs_check_method" != pass_all; then
$echo "$modename: cannot build libtool library \`$output' from
non-libtool objects on this host:$objs" 2>&1
exit $EXIT_FAILURE
else
$echo
$echo "*** Warning: Linking the shared library $output against
the non-libtool"
$echo "*** objects $objs is not portable!"
libobjs="$libobjs $objs"
fi
fi

if test "$dlsel" != no; then
$echo "$modename: warning: \'-dlopen self' is ignored for libtool
libraries" 1>&2
fi

set dummy $rpath
if test "$#" -gt 2; then

```



```

    $echo "$modename: warning: ignoring multiple \`-rpath's for a
libtool library" 1>&2
    fi
    install_libdir="$2"

    oldlibs=
    if test -z "$rpath"; then
    if test "$build_libtool_libs" = yes; then
        # Building a libtool convenience library.
        # Some compilers have problems with a `.al' extension so
        # convenience libraries should have the same extension an
        # archive normally would.
        oldlibs="$output_objdir/$libname.$libext $oldlibs"
        build_libtool_libs=convenience
        build_old_libs=yes
    fi

    if test -n "$vinfo"; then
        $echo "$modename: warning: \`-version-info/-version-number' is
ignored for convenience libraries" 1>&2
    fi

    if test -n "$release"; then
        $echo "$modename: warning: \`-release' is ignored for convenience
libraries" 1>&2
    fi
    else

    # Parse the version information argument.
    save_ifs="$IFS"; IFS=:
    set dummy $vinfo 0 0 0
    IFS="$save_ifs"

    if test -n "$8"; then
        $echo "$modename: too many parameters to \`-version-info'" 1>&2
        $echo "$help" 1>&2
        exit $EXIT_FAILURE
    fi

    # convert absolute version numbers to libtool ages
    # this retains compatibility with .la files and attempts
    # to make the code below a bit more comprehensible

    case $vinfo_number in
    yes)
        number_major="$2"
        number_minor="$3"
        number_revision="$4"
        #
        # There are really only two kinds -- those that
        # use the current revision as the major version
        # and those that subtract age and use age as
        # a minor version.  But, then there is irix
        # which has an extra 1 added just for fun

```

```

#
case $version_type in
darwin|linux|osf|windows)
    current=`expr $number_major + $number_minor`
    age="$number_minor"
    revision="$number_revision"
    ;;
freebsd-aout|freebsd-elf|sunos)
    current="$number_major"
    revision="$number_minor"
    age="0"
    ;;
irix|nonstopux)
    current=`expr $number_major + $number_minor - 1`
    age="$number_minor"
    revision="$number_minor"
    ;;
esac
;;
no)
    current="$2"
    revision="$3"
    age="$4"
    ;;
esac

# Check that each of the things are valid numbers.
case $current in
0|[1-9]|[1-9][0-9]|[1-9][0-9][0-9]|[1-9][0-9][0-9][0-9]|[1-9][0-9][0-9][0-9][0-9]) ;;
*)
    $echo "$modename: CURRENT \`${current}' must be a nonnegative
integer" 1>&2
    $echo "$modename: \`${vinfo}' is not valid version information"
1>&2
    exit $EXIT_FAILURE
    ;;
esac

case $revision in
0|[1-9]|[1-9][0-9]|[1-9][0-9][0-9]|[1-9][0-9][0-9][0-9]|[1-9][0-9][0-9][0-9][0-9]) ;;
*)
    $echo "$modename: REVISION \`${revision}' must be a nonnegative
integer" 1>&2
    $echo "$modename: \`${vinfo}' is not valid version information"
1>&2
    exit $EXIT_FAILURE
    ;;
esac

case $age in
0|[1-9]|[1-9][0-9]|[1-9][0-9][0-9]|[1-9][0-9][0-9][0-9]|[1-9][0-9][0-9][0-9][0-9]) ;;

```

```

*)
  $echo "$modename: AGE \`${age}' must be a nonnegative integer" 1>&2
  $echo "$modename: \`${vinfo}' is not valid version information"
1>&2
  exit $EXIT_FAILURE
  ;;
esac

if test "$age" -gt "$current"; then
  $echo "$modename: AGE \`${age}' is greater than the current
interface number \`${current}'" 1>&2
  $echo "$modename: \`${vinfo}' is not valid version information"
1>&2
  exit $EXIT_FAILURE
fi

# Calculate the version variables.
major=
versuffix=
verstring=
case $version_type in
none) ;;

darwin)
  # Like Linux, but with the current version available in
  # verstring for coding it into the library header
  major=`expr $current - $age`
  versuffix="$major.$age.$revision"
  # Darwin ld doesn't like 0 for these options...
  minor_current=`expr $current + 1`
  verstring="{wl}-compatibility_version ${wl}$minor_current ${wl}-
current_version ${wl}$minor_current.$revision"
  ;;

freebsd-aout)
  major=".$current"
  versuffix=".$current.$revision";
  ;;

freebsd-elf)
  major=".$current"
  versuffix=".$current";
  ;;

irix | nonstopux)
  major=`expr $current - $age + 1`

  case $version_type in
    nonstopux) verstring_prefix=nonstopux ;;
    *) verstring_prefix=sgi ;;
  esac
  verstring="$verstring_prefix$major.$revision"

  # Add in all the interfaces that we are compatible with.

```

```

loop=$revision
while test "$loop" -ne 0; do
    iface=`expr $revision - $loop`
    loop=`expr $loop - 1`
    verstring="$verstring_prefix$major.$iface:$verstring"
done

# Before this point, $major must not contain `.'.
major=.$major
versuffix="$major.$revision"
;;

linux)
major=.`expr $current - $age`
versuffix="$major.$age.$revision"
;;

osf)
major=.`expr $current - $age`
versuffix=".$current.$age.$revision"
verstring="$current.$age.$revision"

# Add in all the interfaces that we are compatible with.
loop=$age
while test "$loop" -ne 0; do
    iface=`expr $current - $loop`
    loop=`expr $loop - 1`
    verstring="$verstring:${iface}.0"
done

# Make executables depend on our current version.
verstring="$verstring:${current}.0"
;;

sunos)
major=".$current"
versuffix=".$current.$revision"
;;

windows)
# Use '-' rather than '.', since we only want one
# extension on DOS 8.3 filesystems.
major=`expr $current - $age`
versuffix="-$major"
;;

*)
$echo "$modename: unknown library version type \`$version_type'"
1>&2
$echo "Fatal configuration error. See the $PACKAGE docs for more
information." 1>&2
exit $EXIT_FAILURE
;;
esac

```

```

# Clear the version info if we defaulted, and they specified a
release.
if test -z "$vinfo" && test -n "$release"; then
  major=
  case $version_type in
  darwin)
    # we can't check for "0.0" in archive_cmds due to quoting
    # problems, so we reset it completely
    verstring=
    ;;
  *)
    verstring="0.0"
    ;;
  esac
  if test "$need_version" = no; then
    versuffix=
  else
    versuffix=".0.0"
  fi
fi

# Remove version info from name if versioning should be avoided
if test "$avoid_version" = yes && test "$need_version" = no; then
  major=
  versuffix=
  verstring=""
fi

# Check to see if the archive will have undefined symbols.
if test "$allow_undefined" = yes; then
  if test "$allow_undefined_flag" = unsupported; then
    $echo "$modename: warning: undefined symbols not allowed in
$host shared libraries" 1>&2
    build_libtool_libs=no
    build_old_libs=yes
  fi
else
  # Don't allow undefined symbols.
  allow_undefined_flag="$no_undefined_flag"
fi

if test "$mode" != relink; then
# Remove our outputs, but don't remove object files since they
# may have been created when compiling PIC objects.
removelist=
tempremovelist=`$echo "$output_objdir/*" `
for p in $tempremovelist; do
  case $p in
  *.$objext)
    ;;
  $output_objdir/$outputname | $output_objdir/$libname.* |
  $output_objdir/${libname}${release}.*))

```

```

        if test "X$precious_files_regex" != "X"; then
            if echo $p | $EGREP -e "$precious_files_regex" >/dev/null
2>&1
                then
                    continue
                fi
                fi
                removelist="$removelist $p"
            ;;
        *) ;;
    esac
done
if test -n "$removelist"; then
    $show "${rm}r $removelist"
    $run ${rm}r $removelist
fi
fi

# Now set the variables for building old libraries.
if test "$build_old_libs" = yes && test "$build_libtool_libs" !=
convenience ; then
    oldlibs="$oldlibs $output_objdir/$libname.$libext"

    # Transform .lo files to .o files.
    oldobjs="$objs "`$echo "X$libobjs" | $SP2NL | $Xsed -e
'/\.'${libext}'$/d' -e "$lo2o" | $NL2SP`
    fi

    # Eliminate all temporary directories.
    for path in $notinst_path; do
lib_search_path=`$echo "$lib_search_path " | ${SED} -e "s% $path %
%g"`
deplibs=`$echo "$deplibs " | ${SED} -e "s% -L$path % %g"`
dependency_libs=`$echo "$dependency_libs " | ${SED} -e "s% -L$path
% %g"`
    done

    if test -n "$xrpath"; then
# If the user specified any rpath flags, then add them.
temp_xrpath=
for libdir in $xrpath; do
    temp_xrpath="$temp_xrpath -R$libdir"
    case "$finalize_rpath " in
        *" $libdir "*) ;;
        *) finalize_rpath="$finalize_rpath $libdir" ;;
    esac
done
if test "$hardcode_into_libs" != yes || test "$build_old_libs" =
yes; then
    dependency_libs="$temp_xrpath $dependency_libs"
fi
fi

```

```

# Make sure dlfiles contains only unique files that won't be
dlpreopened
old_dlfiles="$dlfiles"
dlfiles=
for lib in $old_dlfiles; do
case " $dlprefiles $dlfiles " in
*" $lib ") ;;
*) dlfiles="$dlfiles $lib" ;;
esac
done

# Make sure dlprefiles contains only unique files
old_dlprefiles="$dlprefiles"
dlprefiles=
for lib in $old_dlprefiles; do
case "$dlprefiles " in
*" $lib ") ;;
*) dlprefiles="$dlprefiles $lib" ;;
esac
done

if test "$build_libtool_libs" = yes; then
if test -n "$rpath"; then
case $host in
*-*-cygwin* | *-*-mingw* | *-*-pw32* | *-*-os2* | *-*-beos*)
# these systems don't actually have a c library (as such)!
;;
*-*-rhapsody* | *-*-darwin1.[012])
# Rhapsody C library is in the System framework
deplibs="$deplibs -framework System"
;;
*-*-netbsd*)
# Don't link with libc until the a.out ld.so is fixed.
;;
*-*-openbsd* | *-*-freebsd* | *-*-dragonfly*)
# Do not include libc due to us having libc/libc_r.
;;
*-*-sco3.2v5* | *-*-sco5v6*)
# Causes problems with __ctype
;;
*-*-sysv4.2uw2* | *-*-sysv5* | *-*-unixware* | *-*-OpenUNIX*)
# Compiler inserts libc in the correct place for threads to
work
;;
*)
# Add libc to deplibs on all other systems if necessary.
if test "$build_libtool_need_lc" = "yes"; then
deplibs="$deplibs -lc"
fi
;;
esac
fi

# Transform deplibs into only deplibs that can be linked in shared.

```

```

name_save=$name
libname_save=$libname
release_save=$release
versuffix_save=$versuffix
major_save=$major
# I'm not sure if I'm treating the release correctly. I think
# release should show up in the -l (ie -lgmp5) so we don't want to
# add it in twice. Is that correct?
release=""
versuffix=""
major=""
newdeplibs=
droppeddeps=no
case $deplibs_check_method in
pass_all)
    # Don't check for shared/static. Everything works.
    # This might be a little naive. We might want to check
    # whether the library exists or not. But this is on
    # osf3 & osf4 and I'm not really sure... Just
    # implementing what was already the behavior.
    newdeplibs=$deplibs
    ;;
test_compile)
    # This code stresses the "libraries are programs" paradigm to its
    # limits. Maybe even breaks it. We compile a program, linking it
    # against the deplibs as a proxy for the library. Then we can
check
    # whether they linked in statically or dynamically with ldd.
    $rm conftest.c
    cat > conftest.c <<EOF
EOF
    int main() { return 0; }

    $rm conftest
    $LTCC $LTCFLAGS -o conftest conftest.c $deplibs
    if test "$?" -eq 0 ; then
        ldd_output=`ldd conftest`
        for i in $deplibs; do
            name=`expr $i : '-l\(.*\)'`
            # If $name is empty we are operating on a -L argument.
            if test "$name" != "" && test "$name" -ne "0"; then
                if test "X$allow_libtool_libs_with_static_runtimes" = "Xyes"
; then
                    case " $predeps $postdeps " in
                    *" $i ")
                        newdeplibs="$newdeplibs $i"
                        i=""
                    ;;
                    esac
                fi
            if test -n "$i" ; then
                libname=`eval \\$echo \"\$libname_spec\"`
                deplib_matches=`eval \\$echo \"\$library_names_spec\"`
                set dummy $deplib_matches
                deplib_match=$2

```



```

        if test `expr "$ldd_output" : ".*$deplib_match"` -ne 0 ;
then
        newdeplibs="$newdeplibs $i"
    else
        droppeddeps=yes
        $echo
        $echo "**** Warning: dynamic linker does not accept needed
library $i."
        $echo "**** I have the capability to make that library
automatically link in when"
        $echo "**** you link to this library.  But I can only do
this if you have a"
        $echo "**** shared version of the library, which I believe
you do not have"
        $echo "**** because a test_compile did reveal that the
linker did not use it for"
        $echo "**** its dynamic dependency list that programs get
resolved with at runtime."
        fi
    fi
    else
        newdeplibs="$newdeplibs $i"
    fi
done
else
# Error occurred in the first compile.  Let's try to salvage
# the situation: Compile a separate program for each library.
for i in $deplibs; do
    name=`expr $i : '-l\(.*\)'`
    # If $name is empty we are operating on a -L argument.
    if test "$name" != "" && test "$name" != "0"; then
$rm conftest
$LTCC $LTCFLAGS -o conftest conftest.c $i
# Did it work?
if test "$?" -eq 0 ; then
    ldd_output=`ldd conftest`
    if test "X$allow_libtool_libs_with_static_runtimes" =
"Xyes" ; then
        case " $predeps $postdeps " in
        *" $i "*)
            newdeplibs="$newdeplibs $i"
            i=""
            ;;
        esac
        fi
        if test -n "$i" ; then
            libname=`eval \\$echo \"\$libname_spec\"`
            deplib_matches=`eval \\$echo \"\$library_names_spec\"`
            set dummy $deplib_matches
            deplib_match=$2
            if test `expr "$ldd_output" : ".*$deplib_match"` -ne 0 ;
then
                newdeplibs="$newdeplibs $i"
            else

```

```

        droppeddeps=yes
        $echo
        $echo "**** Warning: dynamic linker does not accept
needed library $i."
        $echo "**** I have the capability to make that library
automatically link in when"
        $echo "**** you link to this library. But I can only do
this if you have a"
        $echo "**** shared version of the library, which you do
not appear to have"
        $echo "**** because a test_compile did reveal that the
linker did not use this one"
        $echo "**** as a dynamic dependency that programs can
get resolved with at runtime."
        fi
    fi
else
    droppeddeps=yes
    $echo
    $echo "**** Warning! Library $i is needed by this library
but I was not able to"
    $echo "**** make it link in! You will probably need to
install it or some"
    $echo "**** library that it depends on before this library
will be fully"
    $echo "**** functional. Installing it before continuing
would be even better."
    fi
    else
        newdeplibs="$newdeplibs $i"
    fi
done
fi
;;
file_magic*)
set dummy $deplibs_check_method
file_magic_regex=`expr "$deplibs_check_method" : "$2 \(.*)"`
for a_deplib in $deplibs; do
    name=`expr $a_deplib : '-l\(.*)'`
    # If $name is empty we are operating on a -L argument.
    if test "$name" != "" && test "$name" != "0"; then
        if test "X$allow_libtool_libs_with_static_runtimes" = "Xyes"
; then
            case " $predeps $postdeps " in
            *" $a_deplib ")
                newdeplibs="$newdeplibs $a_deplib"
                a_deplib=""
            ;;
            esac
        fi
        if test -n "$a_deplib" ; then
            libname=`eval \\\$echo \\"$libname_spec\"`
            for i in $lib_search_path $sys_lib_search_path
$shlib_search_path; do

```

```

potential_libs=`ls $i/$libname[.]* 2>/dev/null`
for potent_lib in $potential_libs; do
    # Follow soft links.
    if ls -lLd "$potent_lib" 2>/dev/null \
        | grep " -> " >/dev/null; then
        continue
    fi
    # The statement above tries to avoid entering an
    # endless loop below, in case of cyclic links.
    # We might still enter an endless loop, since a link
    # loop can be closed while we follow links,
    # but so what?
    potlib="$potent_lib"
    while test -h "$potlib" 2>/dev/null; do
        potliblink=`ls -ld $potlib | ${SED} 's/.* -> //'`
        case $potliblink in
            [\\/*]* | [A-Za-z]:[\\/*]*) potlib="$potliblink";;
            *) potlib=`$echo "X$potlib" | $Xsed -e
's,[^/*]*$,,'`"$potliblink";;
        esac
    done
    if eval $file_magic_cmd "\\$potlib\" 2>/dev/null \
        | ${SED} 10q \
        | $EGREP "$file_magic_regex" > /dev/null; then
        newdeplibs="$newdeplibs $a_deplib"
        a_deplib=""
        break 2
    fi
done
done
fi
if test -n "$a_deplib" ; then
droppeddeps=yes
$echo
$echo "*** Warning: linker path does not have real file for
library $a_deplib."
$echo "*** I have the capability to make that library
automatically link in when"
$echo "*** you link to this library. But I can only do this
if you have a"
$echo "*** shared version of the library, which you do not
appear to have"
$echo "*** because I did check the linker path looking for a
file starting"
    if test -z "$potlib" ; then
        $echo "*** with $libname but no candidates were found.
(...for file magic test)"
    else
        $echo "*** with $libname and none of the candidates passed
a file format test"
        $echo "*** using a file magic. Last file checked: $potlib"
    fi
fi
else

```

```

        # Add a -L argument.
        newdeplibs="$newdeplibs $a_deplib"
    fi
done # Gone through all deplibs.
;;
match_pattern*)
set dummy $deplibs_check_method
match_pattern_regex=`expr "$deplibs_check_method" : "$2 \(.*\)"`
for a_deplib in $deplibs; do
    name=`expr $a_deplib : '-l\(.*\)'`
    # If $name is empty we are operating on a -L argument.
    if test -n "$name" && test "$name" != "0"; then
        if test "X$allow_libtool_libs_with_static_runtimes" = "Xyes"
; then
            case " $predeps $postdeps " in
            *" $a_deplib ")
                newdeplibs="$newdeplibs $a_deplib"
                a_deplib=""
                ;;
            esac
        fi
        if test -n "$a_deplib" ; then
            libname=`eval \\\$echo \"$libname_spec\"`
            for i in $lib_search_path $sys_lib_search_path
$shlib_search_path; do
                potential_libs=`ls $i/$libname[.]* 2>/dev/null`
                for potent_lib in $potential_libs; do
                    potlib="$potent_lib" # see symlink-check above in
file_magic test
                    if eval $echo \"$potent_lib\" 2>/dev/null \
                        | ${SED} 10q \
                        | $EGREP "$match_pattern_regex" > /dev/null; then
                        newdeplibs="$newdeplibs $a_deplib"
                        a_deplib=""
                        break 2
                    fi
                done
            done
        fi
        if test -n "$a_deplib" ; then
            droppeddeps=yes
            $echo
            $echo "*** Warning: linker path does not have real file for
library $a_deplib."
            $echo "*** I have the capability to make that library
automatically link in when"
            $echo "*** you link to this library. But I can only do this
if you have a"
            $echo "*** shared version of the library, which you do not
appear to have"
            $echo "*** because I did check the linker path looking for a
file starting"
            if test -z "$potlib" ; then

```

```

                $echo "**** with $libname but no candidates were found.
(...for regex pattern test)"
            else
                $echo "**** with $libname and none of the candidates passed
a file format test"
                $echo "**** using a regex pattern. Last file checked:
$spotlib"
                fi
                fi
            else
                # Add a -L argument.
                newdeplibs="$newdeplibs $a_deplib"
            fi
        done # Gone through all deplibs.
        ;;
    none | unknown | *)
        newdeplibs=""
        tmp_deplibs=`$echo "X $deplibs" | $Xsed -e 's/ -lc$//' \
        -e 's/ -[LR][^ ]*//g'`
        if test "X$allow_libtool_libs_with_static_runtimes" = "Xyes" ;
then
            for i in $predeps $postdeps ; do
                # can't use Xsed below, because $i might contain '/'
                tmp_deplibs=`$echo "X $tmp_deplibs" | ${SED} -e "1s,^X,, " -e
"s,$i,, "`
                done
            fi
            if $echo "X $tmp_deplibs" | $Xsed -e 's/[  ]//g' \
            | grep . >/dev/null; then
                $echo
                if test "X$deplibs_check_method" = "Xnone"; then
                    $echo "**** Warning: inter-library dependencies are not
supported in this platform."
                else
                    $echo "**** Warning: inter-library dependencies are not known
to be supported."
                fi
                $echo "**** All declared inter-library dependencies are being
dropped."
                droppeddeps=yes
            fi
        fi
        ;;
    esac
    versuffix=$versuffix_save
    major=$major_save
    release=$release_save
    libname=$libname_save
    name=$name_save

    case $host in
    *-*-rhapsody* | *-*-darwin1.[012])
        # On Rhapsody replace the C library is the System framework
        newdeplibs=`$echo "X $newdeplibs" | $Xsed -e 's/ -lc / -framework
System /'`

```

```

;;
esac

if test "$droppeddeps" = yes; then
  if test "$module" = yes; then
    $echo
    $echo "**** Warning: libtool could not satisfy all declared
inter-library"
    $echo "**** dependencies of module $libname.  Therefore, libtool
will create"
    $echo "**** a static module, that should work as long as the
dlopening"
    $echo "**** application is linked with the -dlopen flag."
    if test -z "$global_symbol_pipe"; then
      $echo
      $echo "**** However, this would only work if libtool was able
to extract symbol"
      $echo "**** lists from a program, using `nm' or equivalent,
but libtool could"
      $echo "**** not find such a program.  So, this module is
probably useless."
      $echo "**** `nm' from GNU binutils and a full rebuild may
help."
    fi
    if test "$build_old_libs" = no; then
      oldlibs="$output_objdir/$libname.$libext"
      build_libtool_libs=module
      build_old_libs=yes
    else
      build_libtool_libs=no
    fi
  fi
else
  $echo "**** The inter-library dependencies that have been
dropped here will be"
  $echo "**** automatically added whenever a program is linked
with this library"
  $echo "**** or is declared to -dlopen it."

  if test "$allow_undefined" = no; then
    $echo
    $echo "**** Since this library must not contain undefined
symbols,"
    $echo "**** because either the platform does not support them
or"
    $echo "**** it was explicitly requested with -no-undefined,"
    $echo "**** libtool will only create a static version of it."
    if test "$build_old_libs" = no; then
      oldlibs="$output_objdir/$libname.$libext"
      build_libtool_libs=module
      build_old_libs=yes
    else
      build_libtool_libs=no
    fi
  fi
fi

```

```

    fi
fi
# Done checking deplibs!
deplibs=$newdeplibs
fi

# move library search paths that coincide with paths to not yet
# installed libraries to the beginning of the library search list
new_libs=
for path in $notinst_path; do
case " $new_libs " in
*" -L$path/$objdir ") ;;
*)
    case " $deplibs " in
    *" -L$path/$objdir ")
        new_libs="$new_libs -L$path/$objdir" ;;
    esac
    ;;
esac
done
for deplib in $deplibs; do
case $deplib in
-L*)
    case " $new_libs " in
    *" $deplib ") ;;
    *) new_libs="$new_libs $deplib" ;;
    esac
    ;;
*) new_libs="$new_libs $deplib" ;;
esac
done
deplibs="$new_libs"

# All the library-specific variables (install_libdir is set above).
library_names=
old_library=
dlname=

# Test again, we may have decided not to build it any more
if test "$build_libtool_libs" = yes; then
if test "$hardcode_into_libs" = yes; then
    # Hardcode the library paths
    hardcode_libdirs=
    dep_rpath=
    rpath="$finalize_rpath"
    test "$mode" != relink && rpath="$compile_rpath$rpath"
    for libdir in $rpath; do
        if test -n "$hardcode_libdir_flag_spec"; then
            if test -n "$hardcode_libdir_separator"; then
                if test -z "$hardcode_libdirs"; then
                    hardcode_libdirs="$libdir"
                else
                    else

```

```

        # Just accumulate the unique libdirs.
        case
$hardcode_libdir_separator$hardcode_libdirs$hardcode_libdir_separator in

*" $hardcode_libdir_separator$libdir$hardcode_libdir_separator"*)
        ;;
        *)
hardcode_libdirs="$hardcode_libdirs$hardcode_libdir_separator$libdir"
        ;;
        esac
    fi
    else
        eval flag="\ $hardcode_libdir_flag_spec\"
        dep_rpath="$dep_rpath $flag"
    fi
    elif test -n "$runpath_var"; then
        case "$perm_rpath " in
        * " $libdir "*) ;;
        *) perm_rpath="$perm_rpath $libdir" ;;
        esac
    fi
done
# Substitute the hardcoded libdirs into the rpath.
if test -n "$hardcode_libdir_separator" &&
test -n "$hardcode_libdirs"; then
    libdir="$hardcode_libdirs"
    if test -n "$hardcode_libdir_flag_spec_ld"; then
        eval dep_rpath="\ $hardcode_libdir_flag_spec_ld\"
    else
        eval dep_rpath="\ $hardcode_libdir_flag_spec\"
    fi
fi
if test -n "$runpath_var" && test -n "$perm_rpath"; then
    # We should set the runpath_var.
    rpath=
    for dir in $perm_rpath; do
        rpath="$rpath$dir:"
    done
    eval "$runpath_var='$rpath\$$runpath_var'; export $runpath_var"
fi
test -n "$dep_rpath" && deplibs="$dep_rpath $deplibs"
fi

shlibpath="$finalize_shlibpath"
test "$mode" != relink && shlibpath="$compile_shlibpath$shlibpath"
if test -n "$shlibpath"; then
    eval "$shlibpath_var='$shlibpath\$$shlibpath_var'; export
$shlibpath_var"
fi

# Get the real and link names of the library.
eval shared_ext="\ $shrext_cmds\"
eval library_names="\ $library_names_spec\"

```



```

set dummy $library_names
realname="$2"
shift; shift

if test -n "$soname_spec"; then
    eval soname="\$soname_spec\"
else
    soname="$realname"
fi
if test -z "$dlname"; then
    dlname=$soname
fi

lib="$output_objdir/$realname"
linknames=
for link
do
    linknames="$linknames $link"
done

# Use standard objects if they are pic
test -z "$pic_flag" && libobjs=`$echo "X$libobjs" | $SP2NL | $Xsed
-e "$lo2o" | $NL2SP`

# Prepare the list of exported symbols
if test -z "$export_symbols"; then
    if test "$always_export_symbols" = yes || test -n
"$export_symbols_regex"; then
        $show "generating symbol list for `libname.la'"
        export_symbols="$output_objdir/$libname.exp"
        $run $rm $export_symbols
        cmds=$export_symbols_cmds
        save_ifs="$IFS"; IFS='~'
        for cmd in $cmds; do
            IFS="$save_ifs"
            eval cmd="\$cmd\"
            if len=`expr "X$cmd" : ".*"` &&
                test "$len" -le "$max_cmd_len" || test "$max_cmd_len" -le -
1; then
                $show "$cmd"
                $run eval "$cmd" || exit $?
                skipped_export=false
            else
                # The command line is too long to execute in one step.
                $show "using reloadable object file for export list..."
                skipped_export=:
                # Break out early, otherwise skipped_export may be
                # set to false by a later but shorter cmd.
                break
            fi
        done
        IFS="$save_ifs"
        if test -n "$export_symbols_regex"; then

```

```

        $show "$EGREP -e \"${export_symbols_regex}\"
\"${export_symbols}\" > \"${export_symbols}T\""
        $run eval '$EGREP -e "${export_symbols_regex}"
"${export_symbols}" > "${export_symbols}T"'
        $show "$mv \"${export_symbols}T\" \"${export_symbols}\""
        $run eval '$mv "${export_symbols}T" "${export_symbols}"'
    fi
fi

if test -n "${export_symbols}" && test -n "${include_expsyms}"; then
    $run eval '$echo "X${include_expsyms}" | $SP2NL >>'
"${export_symbols}"
fi

tmp_deplibs=
for test_deplib in $deplibs; do
    case " $convenience " in
        *" $test_deplib *) ;;
    *)
        tmp_deplibs="$tmp_deplibs $test_deplib"
        ;;
    esac
done
deplibs="$tmp_deplibs"

if test -n "$convenience"; then
    if test -n "$whole_archive_flag_spec"; then
        save_libobjs=$libobjs
        eval libobjs=\"\${libobjs} $whole_archive_flag_spec\"
    else
        gentop="$output_objdir/${outputname}x"
        generated="$generated $gentop"

        func_extract_archives $gentop $convenience
        libobjs="$libobjs $func_extract_archives_result"
    fi
fi

if test "$thread_safe" = yes && test -n "$thread_safe_flag_spec";
then
    eval flag=\"\${thread_safe_flag_spec}\"
    linker_flags="$linker_flags $flag"
fi

# Make a backup of the uninstalled library when relinking
if test "$mode" = relink; then
    $run eval '(cd $output_objdir && $rm ${realname}U && $mv
$realname ${realname}U)' || exit $?
fi

# Do each of the archive commands.
if test "$module" = yes && test -n "$module_cmds" ; then

```

```

        if test -n "$export_symbols" && test -n "$module_expsym_cmds";
then
    eval test_cmds="\$module_expsym_cmds\"
    cmds=$module_expsym_cmds
else
    eval test_cmds="\$module_cmds\"
    cmds=$module_cmds
fi
else
if test -n "$export_symbols" && test -n "$archive_expsym_cmds";
then
    eval test_cmds="\$archive_expsym_cmds\"
    cmds=$archive_expsym_cmds
else
    eval test_cmds="\$archive_cmds\"
    cmds=$archive_cmds
fi
fi

if test "X$skipped_export" != "X:" &&
len=`expr "X$test_cmds" : ".*" 2>/dev/null` &&
test "$len" -le "$max_cmd_len" || test "$max_cmd_len" -le -1;
then
:
else
# The command line is too long to link in one step, link
piecewise.
$echo "creating reloadable object files..."

# Save the value of $output and $libobjs because we want to
# use them later.  If we have whole_archive_flag_spec, we
# want to use save_libobjs as it was before
# whole_archive_flag_spec was expanded, because we can't
# assume the linker understands whole_archive_flag_spec.
# This may have to be revisited, in case too many
# convenience libraries get linked in and end up exceeding
# the spec.
if test -z "$convenience" || test -z "$whole_archive_flag_spec";
then
    save_libobjs=$libobjs
fi
save_output=$output
output_la=`$echo "X$output" | $Xsed -e "$basename"`

# Clear the reloadable object creation command queue and
# initialize k to one.
test_cmds=
concat_cmds=
objlist=
delfiles=
last_robj=
k=1
output=$output_objdir/$output_la-${k}.$objext
# Loop over the list of objects to be linked.

```

```

for obj in $save_libobjs
do
    eval test_cmds="\$reload_cmds $objlist $last_robj\"
    if test "X$objlist" = X ||
        { len=`expr "X$test_cmds" : ".*" 2>/dev/null` &&
          test "$len" -le "$max_cmd_len"; }; then
        objlist="$objlist $obj"
    else
        # The command $test_cmds is almost too long, add a
        # command to the queue.
        if test "$k" -eq 1 ; then
            # The first file doesn't have a previous command to add.
            eval concat_cmds="\$reload_cmds $objlist $last_robj\"
        else
            # All subsequent reloadable object files will link in
            # the last one created.
            eval concat_cmds="\$concat_cmds~\$reload_cmds $objlist
$last_robj\"
        fi
        last_robj=$output_objdir/$output_la-${k}.$objext
        k=`expr $k + 1`
        output=$output_objdir/$output_la-${k}.$objext
        objlist=$obj
        len=1
    fi
done
# Handle the remaining objects by creating one last
# reloadable object file. All subsequent reloadable object
# files will link in the last one created.
test -z "$concat_cmds" || concat_cmds=$concat_cmds~
eval concat_cmds="\$concat_cmds~\$reload_cmds $objlist
$last_robj\"

if ${skipped_export-false}; then
    $show "generating symbol list for \`$libname.la'"
    export_symbols="$output_objdir/$libname.exp"
    $run $rm $export_symbols
    libobjs=$output
    # Append the command to create the export file.
    eval concat_cmds="\$concat_cmds~$export_symbols_cmds\"
fi

# Set up a command to remove the reloadable object files
# after they are used.
i=0
while test "$i" -lt "$k"
do
    i=`expr $i + 1`
    delfiles="$delfiles $output_objdir/$output_la-${i}.$objext"
done

$echo "creating a temporary reloadable object file: $output"

# Loop through the commands generated above and execute them.

```

```

save_ifs="$IFS"; IFS='~'
for cmd in $concat_cmds; do
    IFS="$save_ifs"
    $show "$cmd"
    $run eval "$cmd" || exit $?
done
IFS="$save_ifs"

libobjs=$output
# Restore the value of output.
output=$save_output

if test -n "$convenience" && test -n "$whole_archive_flag_spec";
then
    eval libobjs="\`$libobjs $whole_archive_flag_spec\`"
fi
# Expand the library linking commands again to reset the
# value of $libobjs for piecwise linking.

# Do each of the archive commands.
if test "$module" = yes && test -n "$module_cmds" ; then
    if test -n "$export_symbols" && test -n "$module_expsym_cmds";
then
        cmds=$module_expsym_cmds
    else
        cmds=$module_cmds
    fi
else
if test -n "$export_symbols" && test -n "$archive_expsym_cmds";
then
    cmds=$archive_expsym_cmds
else
    cmds=$archive_cmds
fi
fi

# Append the command to remove the reloadable object files
# to the just-reset $cmds.
eval cmds="\`$cmds~\`$rm $delfiles\`"
fi
save_ifs="$IFS"; IFS='~'
for cmd in $cmds; do
    IFS="$save_ifs"
    eval cmd="\`$cmd\`"
    $show "$cmd"
    $run eval "$cmd" || {
        lt_exit=$?

        # Restore the uninstalled library and exit
        if test "$mode" = relink; then
            $run eval '(cd $output_objdir && $rm ${realname}T && $mv
${realname}U $realname)'
        fi
    }
done

```

```

        exit $lt_exit
    }
done
IFS="$save_ifs"

# Restore the uninstalled library and exit
if test "$mode" = relink; then
    $run eval '(cd $output_objdir && $rm ${realname}T && $mv
$realname ${realname}T && $mv "$realname"U $realname)' || exit $?

    if test -n "$convenience"; then
        if test -z "$whole_archive_flag_spec"; then
            $show "${rm}r $gentop"
            $run ${rm}r "$gentop"
        fi
    fi

    exit $EXIT_SUCCESS
fi

# Create links to the real library.
for linkname in $linknames; do
    if test "$realname" != "$linkname"; then
        $show "(cd $output_objdir && $rm $linkname && $LN_S $realname
$linkname)"
        $run eval '(cd $output_objdir && $rm $linkname && $LN_S
$realname $linkname)' || exit $?
    fi
done

# If -module or -export-dynamic was specified, set the dlname.
if test "$module" = yes || test "$export_dynamic" = yes; then
    # On all known operating systems, these are identical.
    dlname="$soname"
fi
fi
;;

obj)
    if test -n "$deplibs"; then
1>&2 $echo "$modename: warning: \'-l' and \'-L' are ignored for objects"
        fi

        if test -n "$dlfiles$dlpfiles" || test "$dlself" != no; then
1>&2 $echo "$modename: warning: \'-dlopen' is ignored for objects"
            fi

            if test -n "$rpath"; then
1>&2 $echo "$modename: warning: \'-rpath' is ignored for objects"
                fi

                if test -n "$xrpath"; then
1>&2 $echo "$modename: warning: \'-R' is ignored for objects"
                    fi

```

```

fi

if test -n "$vinfo"; then
$echo "$modename: warning: \'-version-info' is ignored for objects"
1>&2
fi

if test -n "$release"; then
$echo "$modename: warning: \'-release' is ignored for objects" 1>&2
fi

case $output in
*.lo)
if test -n "$objs$sold_deplibs"; then
$echo "$modename: cannot build library object \'$output' from
non-libtool objects" 1>&2
exit $EXIT_FAILURE
fi
libobj="$output"
obj=`$echo "X$output" | $Xsed -e "$lo2o"`
;;
*)
libobj=
obj="$output"
;;
esac

# Delete the old objects.
$run $rm $obj $libobj

# Objects from convenience libraries. This assumes
# single-version convenience libraries. Whenever we create
# different ones for PIC/non-PIC, this we'll have to duplicate
# the extraction.
reload_conv_objs=
gentop=
# reload_cmds runs $LD directly, so let us get rid of
# -Wl from whole_archive_flag_spec
wl=

if test -n "$convenience"; then
if test -n "$whole_archive_flag_spec"; then
eval reload_conv_objs="\`$reload_objs $whole_archive_flag_spec\`"
else
gentop="$output_objdir/${obj}x"
generated="$generated $gentop"

func_extract_archives $gentop $convenience
reload_conv_objs="$reload_objs $func_extract_archives_result"
fi
fi

# Create the old-style object.

```

```

    reload_objs="$objs$old_deplibs "`echo "X$libobjs" | $SP2NL | $Xsed
-e '/\.'${libext}$'/d' -e '/\..lib$/d' -e "$lo2o" | $NL2SP`"
$reload_conv_objs" ### testsuite: skip nested quoting test

```

```

output="$obj"
cmds=$reload_cmds
save_ifs="$IFS"; IFS='~'
for cmd in $cmds; do
IFS="$save_ifs"
eval cmd="\`$cmd\`"
$show "$cmd"
$run eval "$cmd" || exit $?
done
IFS="$save_ifs"

```

```

# Exit if we aren't doing a library object file.
if test -z "$libobj"; then
if test -n "$gentop"; then
    $show "${rm}r $gentop"
    $run ${rm}r $gentop
fi

```

```

exit $EXIT_SUCCESS
fi

```

```

if test "$build_libtool_libs" != yes; then
if test -n "$gentop"; then
    $show "${rm}r $gentop"
    $run ${rm}r $gentop
fi

```

```

# Create an invalid libtool object if no PIC, so that we don't
# accidentally link it into a program.
# $show "echo timestamp > $libobj"
# $run eval "echo timestamp > $libobj" || exit $?
exit $EXIT_SUCCESS
fi

```

```

if test -n "$pic_flag" || test "$pic_mode" != default; then
# Only do commands if we really have different PIC objects.
reload_objs="$libobjs $reload_conv_objs"
output="$libobj"
cmds=$reload_cmds
save_ifs="$IFS"; IFS='~'
for cmd in $cmds; do
IFS="$save_ifs"
eval cmd="\`$cmd\`"
$show "$cmd"
$run eval "$cmd" || exit $?
done
IFS="$save_ifs"
fi

```

```

if test -n "$gentop"; then

```



```

$show "${rm}r $gentop"
$run ${rm}r $gentop
fi

exit $EXIT_SUCCESS
;;

prog)
case $host in
*cygwin*) output=`$echo $output | ${SED} -e 's,.exe$,,;s,$,.exe,'`
;;
esac
if test -n "$vinfo"; then
$echo "$modename: warning: \`-version-info' is ignored for
programs" 1>&2
fi

if test -n "$release"; then
$echo "$modename: warning: \`-release' is ignored for programs"
1>&2
fi

if test "$preload" = yes; then
if test "$dlopen_support" = unknown && test "$dlopen_self" =
unknown &&
test "$dlopen_self_static" = unknown; then
$echo "$modename: warning: \`AC_LIBTOOL_DLOPEN' not used.
Assuming no dlopen support."
fi
fi

case $host in
*-*-rhapsody* | *-*-darwin1.[012])
# On Rhapsody replace the C library is the System framework
compile_deplibs=`$echo "X $compile_deplibs" | $Xsed -e 's/ -lc / -
framework System /'`
finalize_deplibs=`$echo "X $finalize_deplibs" | $Xsed -e 's/ -lc /
-framework System /'`
;;
esac

case $host in
*darwin*)
# Don't allow lazy linking, it breaks C++ global constructors
if test "$tagname" = CXX ; then
compile_command="$compile_command ${wl}-bind_at_load"
finalize_command="$finalize_command ${wl}-bind_at_load"
fi
;;
esac

# move library search paths that coincide with paths to not yet
# installed libraries to the beginning of the library search list

```

```

new_libs=
for path in $notinst_path; do
case " $new_libs " in
*" -L$path/$objdir "*) ;;
*)
  case " $compile_deplibs " in
  *" -L$path/$objdir "*)
    new_libs="$new_libs -L$path/$objdir" ;;
  esac
  ;;
esac
done
for deplib in $compile_deplibs; do
case $deplib in
-L*)
  case " $new_libs " in
  *" $deplib "*) ;;
  *) new_libs="$new_libs $deplib" ;;
  esac
  ;;
*) new_libs="$new_libs $deplib" ;;
esac
done
compile_deplibs="$new_libs"

compile_command="$compile_command $compile_deplibs"
finalize_command="$finalize_command $finalize_deplibs"

if test -n "$rpath$xrpath"; then
# If the user specified any rpath flags, then add them.
for libdir in $rpath $xrpath; do
  # This is the magic to use -rpath.
  case "$finalize_rpath " in
  *" $libdir "*) ;;
  *) finalize_rpath="$finalize_rpath $libdir" ;;
  esac
done
fi

# Now hardcode the library paths
rpath=
hardcode_libdirs=
for libdir in $compile_rpath $finalize_rpath; do
if test -n "$hardcode_libdir_flag_spec"; then
  if test -n "$hardcode_libdir_separator"; then
    if test -z "$hardcode_libdirs"; then
      hardcode_libdirs="$libdir"
    else
      # Just accumulate the unique libdirs.
      case
$hardcode_libdir_separator$hardcode_libdirs$hardcode_libdir_separator in
*" $hardcode_libdir_separator$libdir$hardcode_libdir_separator"*)

```

```

        ;;
        *)

hardcode_libdirs="$hardcode_libdirs$hardcode_libdir_separator$libdi
r"

        ;;
        esac
    fi
else
    eval flag="\$hardcode_libdir_flag_spec\"
    rpath="$rpath $flag"
fi
elif test -n "$runpath_var"; then
    case "$perm_rpath " in
        *" $libdir "*) ;;
        *) perm_rpath="$perm_rpath $libdir" ;;
    esac
fi
case $host in
*-*-cygwin* | *-*-mingw* | *-*-pw32* | *-*-os2*)
    testbindir=`$echo "X$libdir" | $Xsed -e 's*/lib$*/bin*'`
    case :$dllsearchpath: in
        *:$libdir:*) ;;
        *) dllsearchpath="$dllsearchpath:$libdir";;
    esac
    case :$dllsearchpath: in
        *:$testbindir:*) ;;
        *) dllsearchpath="$dllsearchpath:$testbindir";;
    esac
;;
esac
done
# Substitute the hardcoded libdirs into the rpath.
if test -n "$hardcode_libdir_separator" &&
test -n "$hardcode_libdirs"; then
libdir="$hardcode_libdirs"
eval rpath="\$hardcode_libdir_flag_spec\"
fi
compile_rpath="$rpath"

rpath=
hardcode_libdirs=
for libdir in $finalize_rpath; do
if test -n "$hardcode_libdir_flag_spec"; then
    if test -n "$hardcode_libdir_separator"; then
        if test -z "$hardcode_libdirs"; then
            hardcode_libdirs="$libdir"
        else
            # Just accumulate the unique libdirs.
            case
$hardcode_libdir_separator$hardcode_libdirs$hardcode_libdir_separator in
*" $hardcode_libdir_separator$libdir$hardcode_libdir_separator"*)
                ;;
            *)
                ;;
        esac

```

```

        *)

hardcode_libdirs="$hardcode_libdirs$hardcode_libdir_separator$libdi
r"
        ;;
        esac
    fi
else
    eval flag="\$hardcode_libdir_flag_spec\$"
    rpath="\$rpath $flag"
fi
elif test -n "$runpath_var"; then
    case "$finalize_perm_rpath " in
    *" $libdir "*) ;;
    *) finalize_perm_rpath="$finalize_perm_rpath $libdir" ;;
    esac
fi
done
# Substitute the hardcoded libdirs into the rpath.
if test -n "$hardcode_libdir_separator" &&
test -n "$hardcode_libdirs"; then
libdir="$hardcode_libdirs"
eval rpath="\$hardcode_libdir_flag_spec\$"
fi
finalize_rpath="\$rpath"

if test -n "$libobjs" && test "$build_old_libs" = yes; then
# Transform all the library objects into standard objects.
compile_command=`$echo "X$compile_command" | $SP2NL | $Xsed -e
"$lo2o" | $NL2SP`
finalize_command=`$echo "X$finalize_command" | $SP2NL | $Xsed -e
"$lo2o" | $NL2SP`
fi

dlsyms=
if test -n "$dlfiles$dlprefiles" || test "$dlsel" != no; then
if test -n "$NM" && test -n "$global_symbol_pipe"; then
dlsyms="\${outputname}.S.c"
else
$echo "$modename: not configured to extract global symbols from
dlpreopened files" 1>&2
fi
fi

if test -n "$dlsyms"; then
case $dlsyms in
"") ;;
*.c)
# Discover the nlist of each of the dlfiles.
nlist="\$output_objdir/\${outputname}.nm"

$show "$rm $nlist ${nlist}S ${nlist}T"
$run $rm "$nlist" "${nlist}S" "${nlist}T"

```

```

    # Parse the name list into a source file.
    $show "creating $output_objdir/$dlsyms"

    test -z "$run" && $echo > "$output_objdir/$dlsyms" "\
/* $dlsyms - symbol resolution table for \`${outputname}' dlsym emulation.
*/
/* Generated by $PROGRAM - GNU $PACKAGE $VERSION$TIMESTAMP */

#ifdef __cplusplus
extern "C" {
#endif

/* Prevent the only kind of declaration conflicts we can make. */
#define lt_preloaded_symbols some_other_symbol

/* External symbol declarations for the compiler. */\
"

    if test "$dlsym" = yes; then
        $show "generating symbol list for \`${output}'"

        test -z "$run" && $echo ': @PROGRAM@ ' > "$nlist"

        # Add our own program objects to the symbol list.
        progfiles=`$echo "X$objs$old_deplibs" | $SP2NL | $Xsed -e
"$lo2o" | $NL2SP`
        for arg in $progfiles; do
            $show "extracting global C symbols from \`${arg}'"
            $run eval "$NM $arg | $global_symbol_pipe >> '$nlist'"
        done

        if test -n "$exclude_expsyms"; then
            $run eval '$EGREP -v " ($exclude_expsyms)$" "$nlist" >
"$nlist.T"'
            $run eval '$mv "$nlist.T" "$nlist"'
        fi

        if test -n "$export_symbols_regex"; then
            $run eval '$EGREP -e "$export_symbols_regex" "$nlist" >
"$nlist.T"'
            $run eval '$mv "$nlist.T" "$nlist"'
        fi

        # Prepare the list of exported symbols
        if test -z "$export_symbols"; then
            export_symbols="$output_objdir/$outputname.exp"
            $run $rm $export_symbols
            $run eval "${SED} -n -e '/^: @PROGRAM@ \$/d' -e 's/^.*
\(.*\)$/\1/p' "' < "$nlist" > "$export_symbols"'
            case $host in
                *cygwin* | *mingw* )
                    $run eval "echo EXPORTS "' >
"$output_objdir/$outputname.def"'

```

```

        $run eval 'cat "$export_symbols" >>
"$output_objdir/$outputname.def"'
        ;;
    esac
else
    $run eval "${SED} -e 's/\([[:.*^$]]\)/\\\\\\1/g' -e 's/^/ /' -e
's/$/$/'" < "$export_symbols" > "$output_objdir/$outputname.exp"
    $run eval 'grep -f "$output_objdir/$outputname.exp" <
"$nlist" > "$nlist"T'
    $run eval 'mv "$nlist"T "$nlist"'
    case $host in
        *cygwin* | *mingw* )
            $run eval "echo EXPORTS "' >
"$output_objdir/$outputname.def"'
            $run eval 'cat "$nlist" >> "$output_objdir/$outputname.def"'
            ;;
    esac
fi
fi

for arg in $dlprefiles; do
    $show "extracting global C symbols from \"$arg"
    name=`$echo "$arg" | ${SED} -e 's%^.*/%%'`
    $run eval '$echo ": $name" >> "$nlist"'
    $run eval "$NM $arg | $global_symbol_pipe >> '$nlist'"
done

if test -z "$run"; then
    # Make sure we have at least an empty file.
    test -f "$nlist" || : > "$nlist"

    if test -n "$exclude_expsyms"; then
        $EGREP -v " ($exclude_expsyms)$" "$nlist" > "$nlist"T
        $mv "$nlist"T "$nlist"
    fi

    # Try sorting and uniquifying the output.
    if grep -v "^: " < "$nlist" |
        if sort -k 3 </dev/null >/dev/null 2>&1; then
            sort -k 3
        else
            sort +2
        fi |
        uniq > "$nlist"S; then
        :
    else
        grep -v "^: " < "$nlist" > "$nlist"S
    fi

    if test -f "$nlist"S; then
        eval "$global_symbol_to_cdecl" < "$nlist"S >>
"$output_objdir/$dlsyms"'
    else
        $echo '/* NONE */' >> "$output_objdir/$dlsyms"
    fi

```

```

fi

$echo >> "$output_objdir/$dlsyms" "\

#undef lt_preloaded_symbols

#if defined (__STDC__) && __STDC__
# define lt_ptr void *
#else
# define lt_ptr char *
# define const
#endif

/* The mapping between symbol names and symbols. */
"

    case $host in
        *cygwin* | *mingw* )
            $echo >> "$output_objdir/$dlsyms" "\
/* DATA imports from DLLs on WIN32 can't be const, because
runtime relocations are performed -- see ld's documentation
on pseudo-relocs */
struct {
"
                ;;
            * )
                $echo >> "$output_objdir/$dlsyms" "\
const struct {
"
                    ;;
                esac

                $echo >> "$output_objdir/$dlsyms" "\
const char *name;
lt_ptr address;
}
lt_preloaded_symbols[] =
{\
"

                    eval "$global_symbol_to_c_name_address" < "$nlist" >>
"$output_objdir/$dlsyms"

                $echo >> "$output_objdir/$dlsyms" "\
    {0, (lt_ptr) 0}
};

/* This works around a problem in FreeBSD linker */
#ifdef FREEBSD_WORKAROUND
static const void *lt_preloaded_setup() {
    return lt_preloaded_symbols;
}
#endif
#endif

```

```

#ifdef __cplusplus
}
#endif\
"

    fi

    pic_flag_for_symlink=
    case $host in
    # compiling the symbol table file with pic_flag works around
    # a FreeBSD bug that causes programs to crash when -lm is
    # linked before any other PIC object.  But we must not use
    # pic_flag when linking with -static.  The problem exists in
    # FreeBSD 2.2.6 and is fixed in FreeBSD 3.1.
    *-*-freebsd2*|*-*-freebsd3.0*|*-*-freebsdelf3.0*)
        case "$compile_command " in
        *" -static ") ;;
        *) pic_flag_for_symlink=" $pic_flag -DFREEBSD_WORKAROUND";;
        esac;;
    *-*-hpux*)
        case "$compile_command " in
        *" -static ") ;;
        *) pic_flag_for_symlink=" $pic_flag";;
        esac
    esac

    # Now compile the dynamic symbol file.
    $show "(cd $output_objdir && $LTCC $LTCFLAGS -
c$no_builtin_flag$pic_flag_for_symlink \"$dlsyms\")"
    $run eval '(cd $output_objdir && $LTCC $LTCFLAGS -
c$no_builtin_flag$pic_flag_for_symlink "$dlsyms")' || exit $?

    # Clean up the generated files.
    $show "$rm $output_objdir/$dlsyms $nlist ${nlist}S ${nlist}T"
    $run $rm "$output_objdir/$dlsyms" "$nlist" "${nlist}S"
"$nlist}T"

    # Transform the symbol file into the correct name.
    case $host in
    *cygwin* | *mingw*)
        if test -f "$output_objdir/${outputname}.def" ; then
            compile_command=`$echo "X$compile_command" | $Xsed -e
"s%@SYMFIL@%$output_objdir/${outputname}.def
$output_objdir/${outputname}S.${objext}%"`
            finalize_command=`$echo "X$finalize_command" | $Xsed -e
"s%@SYMFIL@%$output_objdir/${outputname}.def
$output_objdir/${outputname}S.${objext}%"`
        else
            compile_command=`$echo "X$compile_command" | $Xsed -e
"s%@SYMFIL@%$output_objdir/${outputname}S.${objext}%"`
            finalize_command=`$echo "X$finalize_command" | $Xsed -e
"s%@SYMFIL@%$output_objdir/${outputname}S.${objext}%"`
        fi
    fi
;;

```



```

        * )
            compile_command=`$echo "X$compile_command" | $Xsed -e
"s%@SYMFIL@%$output_objdir/${outputname}S.${objext}%"`
            finalize_command=`$echo "X$finalize_command" | $Xsed -e
"s%@SYMFIL@%$output_objdir/${outputname}S.${objext}%"`
            ;;
        esac
    ;;
*)
    $echo "$modename: unknown suffix for \`${dlsyms}'" 1>&2
    exit $EXIT_FAILURE
    ;;
esac
else
# We keep going just in case the user didn't refer to
# lt_preloaded_symbols.  The linker will fail if global_symbol_pipe
# really was required.

# Nullify the symbol file.
compile_command=`$echo "X$compile_command" | $Xsed -e "s%
@SYMFIL@%%"`
finalize_command=`$echo "X$finalize_command" | $Xsed -e "s%
@SYMFIL@%%"`
fi

if test "$need_relink" = no || test "$build_libtool_libs" != yes;
then
# Replace the output file specification.
compile_command=`$echo "X$compile_command" | $Xsed -e
's%@OUTPUT@%'"$output" '%g'`
link_command="$compile_command$compile_rpath"

# We have no uninstalled library dependencies, so finalize right
now.
$show "$link_command"
$run eval "$link_command"
exit_status=$?

# Delete the generated files.
if test -n "$dlsyms"; then
    $show "$rm $output_objdir/${outputname}S.${objext}"
    $run $rm "$output_objdir/${outputname}S.${objext}"
fi

exit $exit_status
fi

if test -n "$shlibpath_var"; then
# We should set the shlibpath_var
rpath=
for dir in $temp_rpath; do
    case $dir in
        [\\/] * | [A-Za-z]:[\\/] *)
            # Absolute path.

```

```

        rpath="$rpath$dir:"
        ;;
    *)
        # Relative path: add a thisdir entry.
        rpath="$rpath\$thisdir/$dir:"
        ;;
    esac
done
temp_rpath="$rpath"
fi

if test -n "$compile_shlibpath$finalize_shlibpath"; then
    compile_command="$shlibpath_var=\"\$compile_shlibpath$finalize_shlib
path\$$shlibpath_var\" $compile_command"
    fi
    if test -n "$finalize_shlibpath"; then
        finalize_command="$shlibpath_var=\"\$finalize_shlibpath\$$shlibpath_
var\" $finalize_command"
        fi
    fi

    compile_var=
    finalize_var=
    if test -n "$runpath_var"; then
    if test -n "$perm_rpath"; then
        # We should set the runpath_var.
        rpath=
        for dir in $perm_rpath; do
            rpath="$rpath$dir:"
        done
        compile_var="$runpath_var=\"\$rpath\$$runpath_var\" "
    fi
    if test -n "$finalize_perm_rpath"; then
        # We should set the runpath_var.
        rpath=
        for dir in $finalize_perm_rpath; do
            rpath="$rpath$dir:"
        done
        finalize_var="$runpath_var=\"\$rpath\$$runpath_var\" "
    fi
    fi

    if test "$no_install" = yes; then
        # We don't need to create a wrapper script.
        link_command="$compile_var$compile_command$compile_rpath"
        # Replace the output file specification.
        link_command=`echo "$link_command" | $Xsed -e
's%@OUTPUT@%' "$output"'%g'`
        # Delete the old output file.
        $run $rm $output
        # Link the executable and exit
        $show "$link_command"
        $run eval "$link_command" || exit $?
        exit $EXIT_SUCCESS
    fi

```

```

    if test "$hardcode_action" = relink; then
    # Fast installation is not supported
    link_command="$compile_var$compile_command$compile_rpath"
    relink_command="$finalize_var$finalize_command$finalize_rpath"

    $echo "$modename: warning: this platform does not like uninstalled
shared libraries" 1>&2
    $echo "$modename: \`${output}' will be relinked during installation"
1>&2
    else
    if test "$fast_install" != no; then
        link_command="$finalize_var$compile_command$finalize_rpath"
        if test "$fast_install" = yes; then
            relink_command=`$echo
"X$compile_var$compile_command$compile_rpath" | $Xsed -e
's%@OUTPUT@%\$progdir/\$file%g'`
        else
            # fast_install is set to needless
            relink_command=
        fi
    else
        link_command="$compile_var$compile_command$compile_rpath"
        relink_command="$finalize_var$finalize_command$finalize_rpath"
    fi
    fi

    # Replace the output file specification.
    link_command=`$echo "X$link_command" | $Xsed -e
's%@OUTPUT@%'`${output_objdir}/${outputname}''%g'`

    # Delete the old output files.
    $run $rm $output $output_objdir/${outputname} $output_objdir/lt-
$outputname

    $show "$link_command"
    $run eval "$link_command" || exit $?

    # Now create the wrapper script.
    $show "creating $output"

    # Quote the relink command for shipping.
    if test -n "$relink_command"; then
    # Preserve any variables that may affect compiler behavior
    for var in $variables_saved_for_relink; do
        if eval test -z \"\${$var+set}\"; then
            relink_command="{ test -z \"\${$var+set}\" || unset $var || {
$var=; export $var; }; }; $relink_command"
        elif eval var_value=\${$var}; test -z "$var_value"; then
            relink_command="$var=; export $var; $relink_command"
        else
            var_value=`$echo "X$var_value" | $Xsed -e "$sed_quote_subst"`
            relink_command="$var=\"${var_value}\"; export $var;
$relink_command"
        fi
    done

```

```

        fi
    done
    relink_command="(cd `pwd`; $relink_command)"
    relink_command=`$echo "X$relink_command" | $Xsed -e
"$sed_quote_subst" `
        fi

    # Quote $echo for shipping.
    if test "X$echo" = "X$SHELL $progp path --fallback-echo"; then
    case $progp path in
    [\\/] * | [A-Za-z]:[\\/] *) qecho="$SHELL $progp path --fallback-
echo";;
    *) qecho="$SHELL `pwd`/$progp path --fallback-echo";;
    esac
    qecho=`$echo "X$qecho" | $Xsed -e "$sed_quote_subst" `
    else
    qecho=`$echo "X$echo" | $Xsed -e "$sed_quote_subst" `
    fi

    # Only actually do things if our run command is non-null.
    if test -z "$run"; then
    # win32 will think the script is a binary if it has
    # a .exe suffix, so we strip it off here.
    case $output in
    *.exe) output=`$echo $output|${SED} 's,.exe$,,' ` ;;
    esac
    # test for cygwin because mv fails w/o .exe extensions
    case $host in
    *cygwin*)
        exeext=.exe
        outputname=`$echo $outputname|${SED} 's,.exe$,,' ` ;;
    *) exeext= ;;
    esac
    case $host in
    *cygwin* | *mingw* )
        output_name=`basename $output `
        output_path=`dirname $output `
        cwrappersource="$output_path/$objdir/lt-$output_name.c"
        cwrapper="$output_path/$output_name.exe"
        $rm $cwrappersource $cwrapper
        trap "$rm $cwrappersource $cwrapper; exit $EXIT_FAILURE" 1 2

```

15

```

cat > $cwrappersource <<EOF

```

```

/* $cwrappersource - temporary wrapper executable for $objdir/$outputname
Generated by $PROGRAM - GNU $PACKAGE $VERSION$TIMESTAMP

```

The \$output program cannot be directly executed until all the libtool libraries that it depends on are installed.

This wrapper executable should never be moved out of the build directory.

If it is, it will not operate correctly.

Currently, it simply execs the wrapper \*script\* "/bin/sh \$output", but could eventually absorb all of the scripts functionality and exec \$objdir/\$outputname directly.

```
*/
EOF
    cat >> $cwrappersource<<"EOF"
#include <stdio.h>
#include <stdlib.h>
#include <unistd.h>
#include <malloc.h>
#include <stdarg.h>
#include <assert.h>
#include <string.h>
#include <ctype.h>
#include <sys/stat.h>

#if defined(PATH_MAX)
# define LT_PATHMAX PATH_MAX
#elif defined(MAXPATHLEN)
# define LT_PATHMAX MAXPATHLEN
#else
# define LT_PATHMAX 1024
#endif

#ifndef DIR_SEPARATOR
# define DIR_SEPARATOR '/'
# define PATH_SEPARATOR ':'
#endif

#if defined (__WIN32) || defined (__MSDOS__) || defined (__DJGPP__) || \
    defined (__OS2__)
# define HAVE_DOS_BASED_FILE_SYSTEM
# ifndef DIR_SEPARATOR_2
#   define DIR_SEPARATOR_2 '\\\
# endif
# ifndef PATH_SEPARATOR_2
#   define PATH_SEPARATOR_2 ';'
# endif
#endif

#ifndef DIR_SEPARATOR_2
# define IS_DIR_SEPARATOR(ch) ((ch) == DIR_SEPARATOR)
#else /* DIR_SEPARATOR_2 */
# define IS_DIR_SEPARATOR(ch) \
    ((ch) == DIR_SEPARATOR) || ((ch) == DIR_SEPARATOR_2)
#endif /* DIR_SEPARATOR_2 */

#ifndef PATH_SEPARATOR_2
# define IS_PATH_SEPARATOR(ch) ((ch) == PATH_SEPARATOR)
#else /* PATH_SEPARATOR_2 */
# define IS_PATH_SEPARATOR(ch) ((ch) == PATH_SEPARATOR_2)
#endif /* PATH_SEPARATOR_2 */
```

```

#define XMALLOC(type, num)      ((type *) xmalloc ((num) * sizeof(type)))
#define XFREE(stale) do { \
    if (stale) { free ((void *) stale); stale = 0; } \
} while (0)

/* -DDEBUG is fairly common in CFLAGS. */
#undef DEBUG
#if defined DEBUGWRAPPER
# define DEBUG(format, ...) fprintf(stderr, format, __VA_ARGS__)
#else
# define DEBUG(format, ...)
#endif

const char *program_name = NULL;

void * xmalloc (size_t num);
char * xstrdup (const char *string);
const char * base_name (const char *name);
char * find_executable(const char *wrapper);
int check_executable(const char *path);
char * strendzap(char *str, const char *pat);
void lt_fatal (const char *message, ...);

int
main (int argc, char *argv[])
{
    char **newargz;
    int i;

    program_name = (char *) xstrdup (base_name (argv[0]));
    DEBUG("(main) argv[0]      : %s\n",argv[0]);
    DEBUG("(main) program_name : %s\n",program_name);
    newargz = XMALLOC(char *, argc+2);
EOF

        cat >> $cwrappersource <<EOF
    newargz[0] = (char *) xstrdup("$SHELL");
EOF

        cat >> $cwrappersource <<"EOF"
    newargz[1] = find_executable(argv[0]);
    if (newargz[1] == NULL)
        lt_fatal("Couldn't find %s", argv[0]);
    DEBUG("(main) found exe at : %s\n",newargz[1]);
    /* we know the script has the same name, without the .exe */
    /* so make sure newargz[1] doesn't end in .exe */
    strendzap(newargz[1], ".exe");
    for (i = 1; i < argc; i++)
        newargz[i+1] = xstrdup(argv[i]);
    newargz[argc+1] = NULL;

    for (i=0; i<argc+1; i++)
    {
        DEBUG("(main) newargz[%d]   : %s\n",i,newargz[i]);

```

```

    }
;
}
EOF

        case $host_os in
            mingw*)
                cat >> $cwrappersource <<EOF
execv("$SHELL", (char const **)newargz);
EOF
                ;;
            *)
                cat >> $cwrappersource <<EOF
execv("$SHELL", newargz);
EOF
                ;;
        esac

        cat >> $cwrappersource <<"EOF"
return 127;
}

void *
xmalloc (size_t num)
{
    void * p = (void *) malloc (num);
    if (!p)
        lt_fatal ("Memory exhausted");

    return p;
}

char *
xstrdup (const char *string)
{
    return string ? strcpy ((char *) xmalloc (strlen (string) + 1), string)
: NULL
;
}

const char *
base_name (const char *name)
{
    const char *base;

#ifdef HAVE_DOS_BASED_FILE_SYSTEM
    /* Skip over the disk name in MSDOS pathnames. */
    if (isalpha ((unsigned char)name[0]) && name[1] == ':')
        name += 2;
#endif

    for (base = name; *name; name++)
        if (IS_DIR_SEPARATOR (*name))
            base = name + 1;
}

```

```

    return base;
}

int
check_executable(const char * path)
{
    struct stat st;

    DEBUG("(check_executable) : %s\n", path ? (*path ? path : "EMPTY!") :
"NULL!");
    if ((!path) || (!*path))
        return 0;

    if ((stat (path, &st) >= 0) &&
        (
            /* MinGW & native WIN32 do not support S_IXOTH or S_IXGRP */
#ifdef S_IXOTH
            ((st.st_mode & S_IXOTH) == S_IXOTH) ||
#endif
#ifdef S_IXGRP
            ((st.st_mode & S_IXGRP) == S_IXGRP) ||
#endif
            ((st.st_mode & S_IXUSR) == S_IXUSR))
        )
        return 1;
    else
        return 0;
}

/* Searches for the full path of the wrapper. Returns
newly allocated full path name if found, NULL otherwise */
char *
find_executable (const char* wrapper)
{
    int has_slash = 0;
    const char* p;
    const char* p_next;
    /* static buffer for getcwd */
    char tmp[LT_PATHMAX + 1];
    int tmp_len;
    char* concat_name;

    DEBUG("(find_executable) : %s\n", wrapper ? (*wrapper ? wrapper :
"EMPTY!") : "NULL!");

    if ((wrapper == NULL) || (*wrapper == '\\0'))
        return NULL;

    /* Absolute path? */
#ifdef HAVE_DOS_BASED_FILE_SYSTEM
    if (isalpha ((unsigned char)wrapper[0]) && wrapper[1] == ':')
    {
        concat_name = xstrdup (wrapper);
        if (check_executable(concat_name))

```



```

        return concat_name;
        XFREE(concat_name);
    }
    else
    {
#endif
        if (IS_DIR_SEPARATOR (wrapper[0]))
        {
            concat_name = xstrdup (wrapper);
            if (check_executable(concat_name))
                return concat_name;
            XFREE(concat_name);
        }
#ifdef HAVE_DOS_BASED_FILE_SYSTEM
    }
#endif

    for (p = wrapper; *p; p++)
        if (*p == '/')
        {
            has_slash = 1;
            break;
        }
    if (!has_slash)
    {
        /* no slashes; search PATH */
        const char* path = getenv ("PATH");
        if (path != NULL)
        {
            for (p = path; *p; p = p_next)
            {
                const char* q;
                size_t p_len;
                for (q = p; *q; q++)
                    if (IS_PATH_SEPARATOR(*q))
                        break;
                p_len = q - p;
                p_next = (*q == '\\0' ? q : q + 1);
                if (p_len == 0)
                {
                    /* empty path: current directory */
                    if (getcwd (tmp, LT_PATHMAX) == NULL)
                        lt_fatal ("getcwd failed");
                    tmp_len = strlen(tmp);
                    concat_name = XMALLOC(char, tmp_len + 1 + strlen(wrapper) + 1);
                    memcpy (concat_name, tmp, tmp_len);
                    concat_name[tmp_len] = '/';
                    strcpy (concat_name + tmp_len + 1, wrapper);
                }
            }
        }
        else
        {
            concat_name = XMALLOC(char, p_len + 1 + strlen(wrapper) + 1);
            memcpy (concat_name, p, p_len);
            concat_name[p_len] = '/';
        }
    }
}

```

```

        strcpy (concat_name + p_len + 1, wrapper);
    }
    if (check_executable(concat_name))
        return concat_name;
    XFREE(concat_name);
}
}
/* not found in PATH; assume curdir */
}
/* Relative path | not found in path: prepend cwd */
if (getcwd (tmp, LT_PATHMAX) == NULL)
    lt_fatal ("getcwd failed");
tmp_len = strlen(tmp);
concat_name = XMALLOC(char, tmp_len + 1 + strlen(wrapper) + 1);
memcpy (concat_name, tmp, tmp_len);
concat_name[tmp_len] = '/';
strcpy (concat_name + tmp_len + 1, wrapper);

if (check_executable(concat_name))
    return concat_name;
XFREE(concat_name);
return NULL;
}

```

```

char *
strendzap(char *str, const char *pat)
{
    size_t len, patlen;

    assert(str != NULL);
    assert(pat != NULL);

    len = strlen(str);
    patlen = strlen(pat);

    if (patlen <= len)
    {
        str += len - patlen;
        if (strcmp(str, pat) == 0)
            *str = '\0';
    }
    return str;
}

```

```

static void
lt_error_core (int exit_status, const char * mode,
               const char * message, va_list ap)
{
    fprintf (stderr, "%s: %s: ", program_name, mode);
    vfprintf (stderr, message, ap);
    fprintf (stderr, ".\n");

    if (exit_status >= 0)
        exit (exit_status);
}

```

```

}

void
lt_fatal (const char *message, ...)
{
    va_list ap;
    va_start (ap, message);
    lt_error_core (EXIT_FAILURE, "FATAL", message, ap);
    va_end (ap);
}
EOF

    # we should really use a build-platform specific compiler
    # here, but OTOH, the wrappers (shell script and this C one)
    # are only useful if you want to execute the "real" binary.
    # Since the "real" binary is built for $host, then this
    # wrapper might as well be built for $host, too.
    $run $LTCC $LTCFLAGS -s -o $cwrapper $cwrappersource
    ;;
esac
$rm $output
trap "$rm $output; exit $EXIT_FAILURE" 1 2 15

    $echo > $output "\
#! $SHELL

# $output - temporary wrapper script for $objdir/$outputname
# Generated by $PROGRAM - GNU $PACKAGE $VERSION$TIMESTAMP
#
# The $output program cannot be directly executed until all the libtool
# libraries that it depends on are installed.
#
# This wrapper script should never be moved out of the build directory.
# If it is, it will not operate correctly.

# Sed substitution that helps us do robust quoting.  It backslashifies
# metacharacters that are still active within double-quoted strings.
Xsed='${SED} -e 1s/^X//'
sed_quote_subst='${sed_quote_subst}'

# The HP-UX ksh and POSIX shell print the target directory to stdout
# if CDPATH is set.
(unset CDPATH) >/dev/null 2>&1 && unset CDPATH

relink_command=\"\${relink_command}\"

# This environment variable determines our operation mode.
if test \"\${libtool_install_magic}\" = \"\${magic}\"; then
    # install mode needs the following variable:
    notinst_deplibs='${notinst_deplibs}'
else
    # When we are sourced in execute mode, \${file} and \${echo} are already
    set.
    if test \"\${libtool_execute_magic}\" != \"\${magic}\"; then
        echo=\"\${qecho}\"

```

```

file="\$0\"
# Make sure echo works.
if test \"X\$1\" = X--no-reexec; then
    # Discard the --no-reexec flag, and continue.
    shift
elif test \"X`(\$echo '\t') 2>/dev/null\" = 'X\t'; then
    # Yippee, \$echo works!
    :
else
    # Restart under the correct shell, and then maybe \$echo will work.
    exec \$SHELL \"\$0\" --no-reexec \"${1+\"\$@}\"
fi
fi\
"
    \$echo >> \$output "\

# Find the directory that this script lives in.
thisdir=\"\$echo \"X\$file\" | \$Xsed -e 's%/[^/]*$%%'\`
test \"x\$thisdir\" = \"x\$file\" && thisdir=.

# Follow symbolic links until we get to the real thisdir.
file=\"ls -ld \"\$file\" | ${SED} -n 's/.*-> //p'\`
while test -n \"\$file\"; do
    destdir=\"\$echo \"X\$file\" | \$Xsed -e 's%/[^/]*$%%'\`

    # If there was a directory component, then change thisdir.
    if test \"x\$destdir\" != \"x\$file\"; then
        case \"\$destdir\" in
            [\\|/]* | [A-Za-z]:[\\|/]*) thisdir=\"\$destdir\" ;;
            *) thisdir=\"\$thisdir/\$destdir\" ;;
        esac
    fi

    file=\"\$echo \"X\$file\" | \$Xsed -e 's%^.*/%%%'\`
    file=\"ls -ld \"\$thisdir/\$file\" | ${SED} -n 's/.*-> //p'\`
done

# Try to get the absolute directory name.
absdir=\"cd \"\$thisdir\" && pwd\`
test -n \"\$absdir\" && thisdir=\"\$absdir\"
"

    if test \"$fast_install\" = yes; then
        \$echo >> \$output "\
program=lt-'$outputname'$exeext
progdir=\"\$thisdir/$objdir\"

if test ! -f \"\$progdir/\$program\" || \\
{ file=\"ls -ldt \"\$progdir/\$program\" \"\$progdir/../../$program\"
2>/dev/null | ${SED} 1q\`; \\
test \"X\$file\" != \"X\$progdir/\$program\"; }; then

file=\"\$\$-\$program\"

```

```

if test ! -d "\"$progdir\""; then
    $mkdir "\"$progdir\"
else
    $rm "\"$progdir/\$file\"
fi"

    $echo >> $output "\

# relink executable if necessary
if test -n "\"$relink_command\""; then
    if relink_command_output=`eval \"$relink_command 2>&1`; then :
    else
        $echo "\"$relink_command_output\" >&2
        $rm "\"$progdir/\$file\"
        exit $EXIT_FAILURE
    fi
fi

$mv "\"$progdir/\$file\" "\"$progdir/\$program\" 2>/dev/null ||
{ $rm "\"$progdir/\$program\";
  $mv "\"$progdir/\$file\" "\"$progdir/\$program\"; }
$rm "\"$progdir/\$file\"
fi"
else
    $echo >> $output "\
program='$outputname'
progdir=\"\$thisdir/$objdir\"
"
    fi

    $echo >> $output "\

if test -f "\"$progdir/\$program\""; then"

    # Export our shlibpath_var if we have one.
    if test "$shlibpath_overrides_runpath" = yes && test -n
"$shlibpath_var" && test -n "$temp_rpath"; then
        $echo >> $output "\
        # Add our own library path to $shlibpath_var
        $shlibpath_var=\"\$temp_rpath\$$shlibpath_var\"

        # Some systems cannot cope with colon-terminated $shlibpath_var
        # The second colon is a workaround for a bug in BeOS R4 sed
        $shlibpath_var=\"\$echo \"X\$$shlibpath_var\" | \$Xsed -e
's/::*\$//'\`

        export $shlibpath_var
"
        fi

        # fixup the dll searchpath if we need to.
        if test -n "$dllsearchpath"; then
            $echo >> $output "\
            # Add the dll search path components to the executable PATH

```

```

PATH=$dllsearchpath:\$PATH
"
    fi

    $echo >> $output "\
if test \"\$libtool_execute_magic\" != \"\$magic\"; then
    # Run the actual program with our arguments.
"
    case $host in
    # Backslashes separate directories on plain windows
    *-*-mingw | *-*-os2*)
        $echo >> $output "\
exec \"\$progdir\\\\\\\\$program\" \${1+\"\\$@\"}
"
        ;;

    *)
        $echo >> $output "\
exec \"\$progdir/$program\" \${1+\"\\$@\"}
"
        ;;
    esac
    $echo >> $output "\
\\$echo \"\$0: cannot exec $program \${1+\"\\$@\"}\"
exit $EXIT_FAILURE
fi
else
    # The program doesn't exist.
    \\$echo \"\$0: error: '\\\\$progdir/$program' does not exist\" 1>&2
    \\$echo \"This script is just a wrapper for $program.\" 1>&2
    $echo \"See the $PACKAGE documentation for more information.\" 1>&2
    exit $EXIT_FAILURE
fi
fi\
"

    chmod +x $output
    fi
    exit $EXIT_SUCCESS
    ;;
esac

# See if we need to build an old-fashioned archive.
for oldlib in $oldlibs; do

    if test "$build_libtool_libs" = convenience; then
        oldobjs="$libobjs_save"
        addlibs="$convenience"
        build_libtool_libs=no
    else
        if test "$build_libtool_libs" = module; then
            oldobjs="$libobjs_save"
            build_libtool_libs=no
        else
            oldobjs="$old_deplibs $non_pic_objects"
        fi
    fi
done

```

```

fi
addlibs="$old_convenience"
fi

if test -n "$addlibs"; then
gentop="$output_objdir/${outputname}x"
generated="$generated $gentop"

func_extract_archives $gentop $addlibs
oldobjs="$oldobjs $func_extract_archives_result"
fi

# Do each command in the archive commands.
if test -n "$old_archive_from_new_cmds" && test
"$build_libtool_libs" = yes; then
  cmds=$old_archive_from_new_cmds
else
# POSIX demands no paths to be encoded in archives. We have
# to avoid creating archives with duplicate basenames if we
# might have to extract them afterwards, e.g., when creating a
# static archive out of a convenience library, or when linking
# the entirety of a libtool archive into another (currently
# not supported by libtool).
if (for obj in $oldobjs
  do
    $echo "X$obj" | $Xsed -e 's%^.*/%%'
  done | sort | sort -uc >/dev/null 2>&1); then
  :
else
  $echo "copying selected object files to avoid basename
conflicts..."

if test -z "$gentop"; then
  gentop="$output_objdir/${outputname}x"
  generated="$generated $gentop"

  $show "${rm}r $gentop"
  $run ${rm}r "$gentop"
  $show "$mkdir $gentop"
  $run $mkdir "$gentop"
  exit_status=$?
  if test "$exit_status" -ne 0 && test ! -d "$gentop"; then
    exit $exit_status
  fi
fi

save_oldobjs=$oldobjs
oldobjs=
counter=1
for obj in $save_oldobjs
do
  objbase=`$echo "X$obj" | $Xsed -e 's%^.*/%%'`
  case " $oldobjs " in
    " ") oldobjs=$obj ;;

```

```

*)[\ /]"$objbase "*)
  while ;; do
  # Make sure we don't pick an alternate name that also
  # overlaps.
  newobj=lt$counter-$objbase
  counter=`expr $counter + 1`
  case " $oldobjs " in
  *[\ /]"$newobj "*) ;;
  *) if test ! -f "$gentop/$newobj"; then break; fi ;;
  esac
  done
  $show "ln $obj $gentop/$newobj || cp $obj $gentop/$newobj"
  $run ln "$obj" "$gentop/$newobj" ||
  $run cp "$obj" "$gentop/$newobj"
  oldobjs="$oldobjs $gentop/$newobj"
  ;;
  *) oldobjs="$oldobjs $obj" ;;
  esac
done
fi

eval cmds="\ "$old_archive_cmds\"

if len=`expr "X$cmds" : ".*" ` &&
  test "$len" -le "$max_cmd_len" || test "$max_cmd_len" -le -1;
then
  cmds=$old_archive_cmds
else
  # the command line is too long to link in one step, link in parts
  $echo "using piecewise archive linking..."
  save_RANLIB=$RANLIB
  RANLIB=:
  objlist=
  concat_cmds=
  save_oldobjs=$oldobjs

  # Is there a better way of finding the last object in the list?
  for obj in $save_oldobjs
  do
    last_oldobj=$obj
  done
  for obj in $save_oldobjs
  do
    oldobjs="$objlist $obj"
    objlist="$objlist $obj"
    eval test_cmds="\ "$old_archive_cmds\"
    if len=`expr "X$test_cmds" : ".*" 2>/dev/null ` &&
      test "$len" -le "$max_cmd_len"; then
      :
    else
      # the above command should be used before it gets too long
      oldobjs=$objlist
      if test "$obj" = "$last_oldobj" ; then
        RANLIB=$save_RANLIB

```



```

        fi
        test -z "$concat_cmds" || concat_cmds=$concat_cmds~
        eval concat_cmds="\${concat_cmds}$old_archive_cmds\"
        objlist=
    fi
done
RANLIB=$save_RANLIB
oldobjs=$objlist
if test "X$oldobjs" = "X" ; then
    eval cmds="\${concat_cmds}\"
else
    eval cmds="\${concat_cmds}~\${old_archive_cmds}\"
fi
fi
fi
save_ifs="$IFS"; IFS='~'
for cmd in $cmds; do
    eval cmd="\$cmd\"
IFS="$save_ifs"
$show "$cmd"
$run eval "$cmd" || exit $?
done
IFS="$save_ifs"
done

if test -n "$generated"; then
    $show "${rm}r$generated"
    $run ${rm}r$generated
fi

# Now create the libtool archive.
case $output in
*.la)
    old_library=
    test "$build_old_libs" = yes && old_library="$libname.$libext"
    $show "creating $output"

    # Preserve any variables that may affect compiler behavior
    for var in $variables_saved_for_relink; do
        if eval test -z "\${$var+set}"; then
            relink_command="{ test -z "\${$var+set}" || unset $var || {
$var=; export $var; }; }; $relink_command"
        elif eval var_value=\${$var}; test -z "$var_value"; then
            relink_command="$var=; export $var; $relink_command"
        else
            var_value=`$echo "X$var_value" | $Xsed -e "$sed_quote_subst"`
            relink_command="$var=\${$var_value}"; export $var;
$relink_command"
        fi
    done
    # Quote the link command for shipping.
    relink_command="(cd `pwd`; $SHELL $progpath $preserve_args --
mode=relink $libtool_args @inst_prefix_dir)"

```

```

    relink_command=`$echo "X$relink_command" | $Xsed -e
"$sed_quote_subst" `
    if test "$hardcode_automatic" = yes ; then
        relink_command=
    fi

    # Only create the output if not a dry run.
    if test -z "$run"; then
        for installed in no yes; do
            if test "$installed" = yes; then
                if test -z "$install_libdir"; then
                    break
                fi
                output="$output_objdir/$outputname"i
                # Replace all uninstalled libtool libraries with the installed
ones
                newdependency_libs=
                for deplib in $dependency_libs; do
                    case $deplib in
                        *.la)
                            name=`$echo "X$deplib" | $Xsed -e 's%^.*/%%'`
                            eval libdir=`${SED} -n -e 's/^libdir=\\(.*)$/\\1/p' $deplib`
                            if test -z "$libdir"; then
                                $echo "$modename: `"$deplib" is not a valid libtool
archive" 1>&2
                                exit $EXIT_FAILURE
                            fi
                            newdependency_libs="$newdependency_libs $libdir/$name"
                            ;;
                        *) newdependency_libs="$newdependency_libs $deplib" ;;
                    esac
                done
                dependency_libs="$newdependency_libs"
                newdlfiles=
                for lib in $dlfiles; do
                    name=`$echo "X$lib" | $Xsed -e 's%^.*/%%'`
                    eval libdir=`${SED} -n -e 's/^libdir=\\(.*)$/\\1/p' $lib`
                    if test -z "$libdir"; then
                                $echo "$modename: `"$lib" is not a valid libtool archive"
1>&2
                                exit $EXIT_FAILURE
                            fi
                            newdlfiles="$newdlfiles $libdir/$name"
                done
                dlfiles="$newdlfiles"
                newdlprefiles=
                for lib in $dlprefiles; do
                    name=`$echo "X$lib" | $Xsed -e 's%^.*/%%'`
                    eval libdir=`${SED} -n -e 's/^libdir=\\(.*)$/\\1/p' $lib`
                    if test -z "$libdir"; then
                                $echo "$modename: `"$lib" is not a valid libtool archive"
1>&2
                                exit $EXIT_FAILURE

```

```

        fi
        newdlprefiles="$newdlprefiles $libdir/$name"
    done
    dlprefiles="$newdlprefiles"
else
    newdlfiles=
    for lib in $dlfiles; do
        case $lib in
            [\\/]*) abs="$lib" ;;
            *) abs=`pwd`"/$lib" ;;
        esac
        newdlfiles="$newdlfiles $abs"
    done
    dlfiles="$newdlfiles"
    newdlprefiles=
    for lib in $dlprefiles; do
        case $lib in
            [\\/]*) abs="$lib" ;;
            *) abs=`pwd`"/$lib" ;;
        esac
        newdlprefiles="$newdlprefiles $abs"
    done
    dlprefiles="$newdlprefiles"
fi
$rm $output
# place dlname in correct position for cygwin
tdlname=$dlname
case $host,$output,$installed,$module,$dlname in
    *cygwin*,*lai,yes,no,*.*dll | *mingw*,*lai,yes,no,*.*dll)
tdlname=../bin/$dlname ;;
esac
$echo > $output "\
# $outputname - a libtool library file
# Generated by $PROGRAM - GNU $PACKAGE $VERSION$TIMESTAMP
#
# Please DO NOT delete this file!
# It is necessary for linking the library.

# The name that we can dlopen(3).
dlname='$tdlname'

# Names of this library.
library_names='$library_names'

# The name of the static archive.
old_library='$old_library'

# Libraries that this one depends upon.
dependency_libs='$dependency_libs'

# Version information for $libname.
current=$current
age=$age
revision=$revision

```

```

# Is this an already installed library?
installed=$installed

# Should we warn about portability when linking against -modules?
shouldnotlink=$module

# Files to dlopen/dlpreopen
dlopen='$dlfiles'
dlpreopen='$dlprefiles'

# Directory that this library needs to be installed in:
libdir='$install_libdir'
    if test "$installed" = no && test "$need_relink" = yes; then
        $echo >> $output "\
relink_command=\"\$relink_command\"\"
    fi
done
fi

    # Do a symbolic link so that the libtool archive can be found in
    # LD_LIBRARY_PATH before the program is installed.
    $show "(cd $output_objdir && $rm $outputname && $LN_S
../$outputname $outputname)"
    $run eval '(cd $output_objdir && $rm $outputname && $LN_S
../$outputname $outputname)' || exit $?
    ;;
esac
exit $EXIT_SUCCESS
;;

# libtool install mode
install)
    modename="$modename: install"

    # There may be an optional sh(1) argument at the beginning of
    # install_prog (especially on Windows NT).
    if test "$nonopt" = "$SHELL" || test "$nonopt" = /bin/sh ||
        # Allow the use of GNU shtool's install command.
        $echo "X$nonopt" | grep shtool > /dev/null; then
        # Aesthetically quote it.
        arg=`$echo "X$nonopt" | $Xsed -e "$sed_quote_subst"`
        case $arg in
        *[[\~\#\^\&\*\(\)\{\}\|\|;\<\>\?\'\ \ ]*|*|*|"")
            arg="\"$arg\""
        ;;
        ;;
        esac
        install_prog="$arg "
        arg="$1"
        shift
    else
        install_prog=
        arg=$nonopt
    fi

```

```

# The real first argument should be the name of the installation
program.
# Aesthetically quote it.
arg=`$echo "X$arg" | $Xsed -e "$sed_quote_subst"`
case $arg in
*[[\~\#\^\&\*\(\)\{\}\|\|;\<\>\?\'\ \ ]*|*|*|"")
    arg="\\"$arg\"
    ;;
esac
install_prog="$install_prog$arg"

# We need to accept at least all the BSD install flags.
dest=
files=
opts=
prev=
install_type=
isdir=no
stripme=
for arg
do
    if test -n "$dest"; then
        files="$files $dest"
        dest=$arg
        continue
    fi

    case $arg in
    -d) isdir=yes ;;
    -f)
        case " $install_prog " in
        *[[\ /]cp\ *) ;;
        *) prev=$arg ;;
        esac
        ;;
    -g | -m | -o) prev=$arg ;;
    -s)
        stripme=" -s"
        continue
        ;;
    -*)
        ;;
    *)
        # If the previous option needed an argument, then skip it.
        if test -n "$prev"; then
            prev=
        else
            dest=$arg
            continue
        fi
        ;;
    ;;
esac

```



```

case $destdir in
[\\/* | [A-Za-z]:[\\/*]*) ;;
*)
    for file in $files; do
    case $file in
*.lo) ;;
*)
    $echo "$modename: `'$destdir'` must be an absolute directory name"
1>&2
    $echo "$help" 1>&2
    exit $EXIT_FAILURE
    ;;
esac
done
;;
esac

# This variable tells wrapper scripts just to set variables rather
# than running their programs.
libtool_install_magic="$magic"

staticlibs=
future_libdirs=
current_libdirs=
for file in $files; do

    # Do each installation.
    case $file in
*.$libext)
    # Do the static libraries later.
    staticlibs="$staticlibs $file"
    ;;

*.la)
    # Check to see that this really is a libtool archive.
    if ({SED} -e '2q' $file | grep "^# Generated by .*$PACKAGE")
>/dev/null 2>&1; then :
    else
    $echo "$modename: `'$file'` is not a valid libtool archive" 1>&2
    $echo "$help" 1>&2
    exit $EXIT_FAILURE
    fi

    library_names=
    old_library=
    relink_command=
    # If there is no directory component, then add one.
    case $file in
*/* | *\*) . $file ;;
*) . ./ $file ;;
esac

    # Add the libdir to current_libdirs if it is the destination.
    if test "X$destdir" = "X$libdir"; then

```

```

    case "$current_libdirs " in
    *" $libdir ") ;;
    *) current_libdirs="$current_libdirs $libdir" ;;
    esac
else
    # Note the libdir as a future libdir.
    case "$future_libdirs " in
    *" $libdir ") ;;
    *) future_libdirs="$future_libdirs $libdir" ;;
    esac
fi

dir=`$echo "X$file" | $Xsed -e 's%/[^/]*$%%'`/
test "X$dir" = "X$file/" && dir=
dir="$dir$objdir"

if test -n "$relink_command"; then
    # Determine the prefix the user has applied to our future dir.
    inst_prefix_dir=`$echo "$destdir" | $SED "s%$libdir\$%"`

    # Don't allow the user to place us outside of our expected
    # location b/c this prevents finding dependent libraries that
    # are installed to the same prefix.
    # At present, this check doesn't affect windows .dll's that
    # are installed into $libdir/./bin (currently, that works fine)
    # but it's something to keep an eye on.
    if test "$inst_prefix_dir" = "$destdir"; then
        $echo "$modename: error: cannot install `file` to a directory
not ending in $libdir" 1>&2
        exit $EXIT_FAILURE
    fi

    if test -n "$inst_prefix_dir"; then
        # Stick the inst_prefix_dir data into the link command.
        relink_command=`$echo "$relink_command" | $SED
"s%@inst_prefix_dir@%-inst-prefix-dir $inst_prefix_dir%"`
    else
        relink_command=`$echo "$relink_command" | $SED
"s%@inst_prefix_dir@%"`
    fi

    $echo "$modename: warning: relinking `file`" 1>&2
    $show "$relink_command"
    if $run eval "$relink_command"; then :
    else
        $echo "$modename: error: relink `file` with the above command
before installing it" 1>&2
        exit $EXIT_FAILURE
    fi
fi

# See the names of the shared library.
set dummy $library_names
if test -n "$2"; then

```



```

realname="$2"
shift
shift

srcname="$realname"
test -n "$relink_command" && srcname="$realname"

# Install the shared library and build the symlinks.
$show "$install_prog $dir/$srcname $destdir/$realname"
$run eval "$install_prog $dir/$srcname $destdir/$realname" ||
exit $?

if test -n "$stripme" && test -n "$striplib"; then
    $show "$striplib $destdir/$realname"
    $run eval "$striplib $destdir/$realname" || exit $?
fi

if test "$#" -gt 0; then
    # Delete the old symlinks, and create new ones.
    # Try `ln -sf' first, because the `ln' binary might depend on
    # the symlink we replace! Solaris /bin/ln does not understand
-f,
    # so we also need to try rm && ln -s.
    for linkname
    do
        if test "$linkname" != "$realname"; then
            $show "(cd $destdir && { $LN_S -f $realname $linkname ||
{ $rm $linkname && $LN_S $realname $linkname; }; })"
            $run eval "(cd $destdir && { $LN_S -f $realname $linkname
|| { $rm $linkname && $LN_S $realname $linkname; }; })"
        fi
    done
fi

# Do each command in the postinstall commands.
lib="$destdir/$realname"
cmds=$postinstall_cmds
save_ifs="$IFS"; IFS='~'
for cmd in $cmds; do
    IFS="$save_ifs"
    eval cmd="\ "$cmd"
    $show "$cmd"
    $run eval "$cmd" || {
        lt_exit=$?

        # Restore the uninstalled library and exit
        if test "$mode" = relink; then
            $run eval '(cd $output_objdir && $rm ${realname}T && $mv
${realname}U $realname)'
        fi

        exit $lt_exit
    }
done
IFS="$save_ifs"

```

```

fi

# Install the pseudo-library for information purposes.
name=`$echo "X$file" | $Xsed -e 's%^.*/%%'`
instname="$dir/$name"i
$show "$install_prog $instname $destdir/$name"
$run eval "$install_prog $instname $destdir/$name" || exit $?

# Maybe install the static library, too.
test -n "$old_library" && staticlibs="$staticlibs
$dir/$old_library"
;;

*.lo)
# Install (i.e. copy) a libtool object.

# Figure out destination file name, if it wasn't already specified.
if test -n "$destname"; then
  destfile="$destdir/$destname"
else
  destfile=`$echo "X$file" | $Xsed -e 's%^.*/%%'`
  destfile="$destdir/$destfile"
fi

# Deduce the name of the destination old-style object file.
case $destfile in
*.lo)
  staticdest=`$echo "X$destfile" | $Xsed -e "$lo2o"`
  ;;
*.$objext)
  staticdest="$destfile"
  destfile=
  ;;
*)
  $echo "$modename: cannot copy a libtool object to \"$destfile\""
1>&2
  $echo "$help" 1>&2
  exit $EXIT_FAILURE
  ;;
esac

# Install the libtool object if requested.
if test -n "$destfile"; then
  $show "$install_prog $file $destfile"
  $run eval "$install_prog $file $destfile" || exit $?
fi

# Install the old object if enabled.
if test "$build_old_libs" = yes; then
  # Deduce the name of the old-style object file.
  staticobj=`$echo "X$file" | $Xsed -e "$lo2o"`

  $show "$install_prog $staticobj $staticdest"
  $run eval "$install_prog \$staticobj \$staticdest" || exit $?

```

```

fi
exit $EXIT_SUCCESS
;;

*)
# Figure out destination file name, if it wasn't already specified.
if test -n "$destname"; then
    destfile="$destdir/$destname"
else
    destfile=`$echo "X$file" | $Xsed -e 's%^.*/%%'`
    destfile="$destdir/$destfile"
fi

# If the file is missing, and there is a .exe on the end, strip it
# because it is most likely a libtool script we actually want to
# install
stripped_ext=""
case $file in
    *.exe)
        if test ! -f "$file"; then
            file=`$echo $file|${SED} 's,.exe$,,'`
            stripped_ext=".exe"
        fi
    ;;
esac

# Do a test to see if this is really a libtool program.
case $host in
    *cygwin*|*mingw*)
        wrapper=`$echo $file | ${SED} -e 's,.exe$,,'`
    ;;
*)
    wrapper=$file
    ;;
esac
if (${SED} -e '4q' $wrapper | grep "^# Generated by
.*$PACKAGE")>/dev/null 2>&1; then
    notinst_deplibs=
    relink_command=

# Note that it is not necessary on cygwin/mingw to append a dot
to
# foo even if both foo and FILE.exe exist: automatic-append.exe
# behavior happens only for exec(3), not for open(2)! Also,
sourcing
# `FILE.` does not work on cygwin managed mounts.
#
# If there is no directory component, then add one.
case $wrapper in
    /* | *\*) . ${wrapper} ;;
    *) . ./${wrapper} ;;
esac

# Check the variables that should have been set.

```

```

if test -z "$notinst_deplibs"; then
    $echo "$modename: invalid libtool wrapper script \`${wrapper}'"
1>&2
    exit $EXIT_FAILURE
fi

finalize=yes
for lib in $notinst_deplibs; do
    # Check to see that each library is installed.
    libdir=
    if test -f "$lib"; then
        # If there is no directory component, then add one.
        case $lib in
            /* | *\*) . $lib ;;
            *) . ./$lib ;;
        esac
    fi
    libfile="$libdir/"`$echo "X$lib" | $Xsed -e 's%^.*/%%g'` `###
testsuite: skip nested quoting test
    if test -n "$libdir" && test ! -f "$libfile"; then
        $echo "$modename: warning: \`${lib}' has not been installed in
\`${libdir}'" 1>&2
        finalize=no
    fi
done

relink_command=
# Note that it is not necessary on cygwin/mingw to append a dot
to
# foo even if both foo and FILE.exe exist: automatic-append-.exe
# behavior happens only for exec(3), not for open(2)! Also,
sourcing
# `FILE.' does not work on cygwin managed mounts.
#
# If there is no directory component, then add one.
case $wrapper in
    /* | *\*) . ${wrapper} ;;
    *) . ./${wrapper} ;;
esac

outputname=
if test "$fast_install" = no && test -n "$relink_command"; then
    if test "$finalize" = yes && test -z "$run"; then
        tmpdir=`func_mkdir`
        file=`$echo "X$file$stripped_ext" | $Xsed -e 's%^.*/%%'`
        outputname="$tmpdir/$file"
        # Replace the output file specification.
        relink_command=`$echo "X$relink_command" | $Xsed -e
's%@OUTPUT@%' "$outputname" '%g'`

        $show "$relink_command"
        if $run eval "$relink_command"; then :
        else

```

```

        $echo "$modename: error: relink \`$file' with the above
command before installing it" 1>&2
        ${rm}r "$tmpdir"
        continue
    fi
    file="$outputname"
else
    $echo "$modename: warning: cannot relink \`$file'" 1>&2
fi
else
    # Install the binary that we compiled earlier.
    file=`$echo "X$file$stripped_ext" | $Xsed -e
"s%\([^/]*\)%%$objdir/\1%"`
    fi
fi

# remove .exe since cygwin /usr/bin/install will append another
# one anyway
case $install_prog,$host in
*/usr/bin/install*,*cygwin*)
    case $file:$destfile in
*.exe:*.exe)
        # this is ok
        ;;
*.exe:*)
        destfile=$destfile.exe
        ;;
*:*.exe)
        destfile=`$echo $destfile | ${SED} -e 's,.exe$,,'`
        ;;
    esac
    ;;
esac
$show "$install_prog$stripme $file $destfile"
$run eval "$install_prog\$stripme \$file \$destfile" || exit $?
test -n "$outputname" && ${rm}r "$tmpdir"
;;
esac
done

for file in $staticlibs; do
    name=`$echo "X$file" | $Xsed -e 's%^.*/%%'`

    # Set up the ranlib parameters.
    oldlib="$destdir/$name"

    $show "$install_prog $file $oldlib"
    $run eval "$install_prog \$file \$oldlib" || exit $?

    if test -n "$stripme" && test -n "$old_striplib"; then
        $show "$old_striplib $oldlib"
        $run eval "$old_striplib $oldlib" || exit $?
    fi

```

```

# Do each command in the postinstall commands.
cmds=$old_postinstall_cmds
save_ifs="$IFS"; IFS='~'
for cmd in $cmds; do
IFS="$save_ifs"
eval cmd="\ "$cmd\"
$show "$cmd"
$run eval "$cmd" || exit $?
done
IFS="$save_ifs"
done

if test -n "$future_libdirs"; then
  $echo "$modename: warning: remember to run \`${progname} --
finish$future_libdirs'" 1>&2
fi

if test -n "$current_libdirs"; then
  # Maybe just do a dry run.
  test -n "$run" && current_libdirs=" -n$current_libdirs"
  exec_cmd='$SHELL $progpah $preserve_args --finish$current_libdirs'
else
  exit $EXIT_SUCCESS
fi
;;

# libtool finish mode
finish)
  modename="$modename: finish"
  libdirs="$nonopt"
  admincmds=

  if test -n "$finish_cmds$finish_eval" && test -n "$libdirs"; then
    for dir
    do
      libdirs="$libdirs $dir"
    done

    for libdir in $libdirs; do
      if test -n "$finish_cmds"; then
        # Do each command in the finish commands.
        cmds=$finish_cmds
        save_ifs="$IFS"; IFS='~'
        for cmd in $cmds; do
          IFS="$save_ifs"
          eval cmd="\ "$cmd\"
          $show "$cmd"
          $run eval "$cmd" || admincmds="$admincmds
$cmd"
        done
        IFS="$save_ifs"
      fi
      if test -n "$finish_eval"; then
        # Do the single finish_eval.

```

```

        eval cmds="\$finish_eval\"
        $run eval "$cmds" || admincmds="$admincmds
        $cmds"
    fi
done
fi

# Exit here if they wanted silent mode.
test "$show" = : && exit $EXIT_SUCCESS

$echo "X-----"
-----" | $Xsed
$echo "Libraries have been installed in:"
for libdir in $libdirs; do
    $echo "    $libdir"
done
$echo
$echo "If you ever happen to want to link against installed
libraries"
$echo "in a given directory, LIBDIR, you must either use libtool,
and"
$echo "specify the full pathname of the library, or use the \`-
LLIBDIR'"
$echo "flag during linking and do at least one of the following:"
if test -n "$shlibpath_var"; then
    $echo "    - add LIBDIR to the \`${shlibpath_var}' environment
variable"
    $echo "        during execution"
fi
if test -n "$runpath_var"; then
    $echo "    - add LIBDIR to the \`${runpath_var}' environment variable"
    $echo "        during linking"
fi
if test -n "$hardcode_libdir_flag_spec"; then
    libdir=LIBDIR
    eval flag="\$hardcode_libdir_flag_spec\"

    $echo "    - use the \`${flag}' linker flag"
fi
if test -n "$admincmds"; then
    $echo "    - have your system administrator run these
commands:$admincmds"
fi
if test -f /etc/ld.so.conf; then
    $echo "    - have your system administrator add LIBDIR to
\`/etc/ld.so.conf'"
fi
$echo
$echo "See any operating system documentation about shared libraries
for"
$echo "more information, such as the ld(1) and ld.so(8) manual
pages."
$echo "X-----"
-----" | $Xsed

```

```

    exit $EXIT_SUCCESS
;;

# libtool execute mode
execute)
    modename="$modename: execute"

    # The first argument is the command name.
    cmd="$nonopt"
    if test -z "$cmd"; then
        $echo "$modename: you must specify a COMMAND" 1>&2
        $echo "$help"
        exit $EXIT_FAILURE
    fi

    # Handle -dlopen flags immediately.
    for file in $execute_dlfiles; do
        if test ! -f "$file"; then
            $echo "$modename: \`$file' is not a file" 1>&2
            $echo "$help" 1>&2
            exit $EXIT_FAILURE
        fi

        dir=
        case $file in
            *.la)
                # Check to see that this really is a libtool archive.
                if ({SED} -e '2q' $file | grep "^# Generated by .*$PACKAGE")
>/dev/null 2>&1; then :
                    else
                        $echo "$modename: \`$lib' is not a valid libtool archive" 1>&2
                        $echo "$help" 1>&2
                        exit $EXIT_FAILURE
                    fi
                fi

                # Read the libtool library.
                dlname=
                library_names=

                # If there is no directory component, then add one.
                case $file in
                    */* | *\(\*) . $file ;;
                    *) . ./$file ;;
                esac

                # Skip this library if it cannot be dlopened.
                if test -z "$dlname"; then
                    # Warn if it was a shared library.
                    test -n "$library_names" && $echo "$modename: warning: \`$file'
was not linked with \`-export-dynamic'"
                    continue
                fi

                dir=`$echo "X$file" | $Xsed -e 's%/[^/]*$%%'`

```



```

test "X$dir" = "X$file" && dir=.

if test -f "$dir/$objdir/$dlname"; then
    dir="$dir/$objdir"
else
    $echo "$modename: cannot find \`$dlname' in \`$dir' or
\`$dir/$objdir'" 1>&2
    exit $EXIT_FAILURE
fi
;;

*.lo)
# Just add the directory containing the .lo file.
dir=`$echo "X$file" | $Xsed -e 's%/[^/]*$%%'`
test "X$dir" = "X$file" && dir=.
;;

*)
$echo "$modename: warning \`-dlopen' is ignored for non-libtool
libraries and objects" 1>&2
continue
;;
esac

# Get the absolute pathname.
absdir=`cd "$dir" && pwd`
test -n "$absdir" && dir="$absdir"

# Now add the directory to shlibpath_var.
if eval "test -z \"\$shlibpath_var\""; then
eval "$shlibpath_var=\"\$dir\""
else
eval "$shlibpath_var=\"\$dir:\$shlibpath_var\""
fi
done

# This variable tells wrapper scripts just to set shlibpath_var
# rather than running their programs.
libtool_execute_magic="$magic"

# Check if any of the arguments is a wrapper script.
args=
for file
do
    case $file in
        -*) ;;
        *)
            # Do a test to see if this is really a libtool program.
            if ({SED} -e '4q' $file | grep "^# Generated by .*$PACKAGE")
            >/dev/null 2>&1; then
                # If there is no directory component, then add one.
                case $file in
                    */* | *\*) . $file ;;
                    *) . ./ $file ;;
                esac
            fi
        ;;
    esac
done

```

```

        esac

        # Transform arg to wrapped name.
        file="$progdir/$program"
    fi
;;
esac
# Quote arguments (to preserve shell metacharacters).
file=`$echo "X$file" | $Xsed -e "$sed_quote_subst"`
args="$args \"$file\""
done

if test -z "$run"; then
    if test -n "$shlibpath_var"; then
        # Export the shlibpath_var.
        eval "export $shlibpath_var"
    fi

    # Restore saved environment variables
    if test "${save_LC_ALL+set}" = set; then
        LC_ALL="$save_LC_ALL"; export LC_ALL
    fi
    if test "${save_LANG+set}" = set; then
        LANG="$save_LANG"; export LANG
    fi

    # Now prepare to actually exec the command.
    exec_cmd="\$cmd$args"
else
    # Display what would be done.
    if test -n "$shlibpath_var"; then
        eval "\$echo \"\$shlibpath_var=\${shlibpath_var}\""
        $echo "export $shlibpath_var"
    fi
    $echo "$cmd$args"
    exit $EXIT_SUCCESS
fi
;;

# libtool clean and uninstall mode
clean | uninstall)
    modename="$modename: $mode"
    rm="$nonopt"
    files=
    rmforce=
    exit_status=0

    # This variable tells wrapper scripts just to set variables rather
    # than running their programs.
    libtool_install_magic="$magic"

    for arg
    do
        case $arg in

```

```

    -f) rm="$rm $arg"; rmforce=yes ;;
    -*) rm="$rm $arg" ;;
    *) files="$files $arg" ;;
esac
done

if test -z "$rm"; then
    $echo "$modename: you must specify an RM program" 1>&2
    $echo "$help" 1>&2
    exit $EXIT_FAILURE
fi

rmdirs=

origobjdir="$objdir"
for file in $files; do
    dir=`$echo "X$file" | $Xsed -e 's%/[^/]*%%'`
    if test "X$dir" = "X$file"; then
        dir=.
        objdir="$origobjdir"
    else
        objdir="$dir/$origobjdir"
    fi
    name=`$echo "X$file" | $Xsed -e 's%^.*/%%'`
    test "$mode" = uninstall && objdir="$dir"

    # Remember objdir for removal later, being careful to avoid
duplicates
    if test "$mode" = clean; then
        case " $rmdirs " in
            *" $objdir ") ;;
            *) rmdirs="$rmdirs $objdir" ;;
        esac
    fi

    # Don't error if the file doesn't exist and rm -f was used.
    if (test -L "$file") >/dev/null 2>&1 \
    || (test -h "$file") >/dev/null 2>&1 \
    || test -f "$file"; then
        :
    elif test -d "$file"; then
        exit_status=1
        continue
    elif test "$rmforce" = yes; then
        continue
    fi

    rmfiles="$file"

    case $name in
        *.la)
            # Possibly a libtool archive, so verify it.
            if ({SED} -e '2q' $file | grep "^# Generated by .*$PACKAGE")
>/dev/null 2>&1; then

```

```

. $dir/$name

# Delete the libtool libraries and symlinks.
for n in $library_names; do
  rmfiles="$rmfiles $objdir/$n"
done
test -n "$old_library" && rmfiles="$rmfiles $objdir/$old_library"

case "$mode" in
clean)
  case " $library_names " in
  # " " in the beginning catches empty $dlname
  *" $dlname ") ;;
  *) rmfiles="$rmfiles $objdir/$dlname" ;;
  esac
  test -n "$libdir" && rmfiles="$rmfiles $objdir/$name
$objdir/${name}i"
  ;;
uninstall)
  if test -n "$library_names"; then
    # Do each command in the postuninstall commands.
    cmds=$postuninstall_cmds
    save_ifs="$IFS"; IFS='~'
    for cmd in $cmds; do
      IFS="$save_ifs"
      eval cmd="\$cmd\"
      $show "$cmd"
      $run eval "$cmd"
      if test "$?" -ne 0 && test "$rmforce" != yes; then
        exit_status=1
      fi
    done
    IFS="$save_ifs"
  fi

  if test -n "$old_library"; then
    # Do each command in the old_postuninstall commands.
    cmds=$old_postuninstall_cmds
    save_ifs="$IFS"; IFS='~'
    for cmd in $cmds; do
      IFS="$save_ifs"
      eval cmd="\$cmd\"
      $show "$cmd"
      $run eval "$cmd"
      if test "$?" -ne 0 && test "$rmforce" != yes; then
        exit_status=1
      fi
    done
    IFS="$save_ifs"
  fi
  # FIXME: should reinstall the best remaining shared library.
  ;;
esac
fi

```

```

;;

*.lo)
# Possibly a libtool object, so verify it.
if ({SED} -e '2q' $file | grep "^# Generated by .*$PACKAGE")
>/dev/null 2>&1; then

    # Read the .lo file
    . $dir/$name

    # Add PIC object to the list of files to remove.
    if test -n "$pic_object" \
        && test "$pic_object" != none; then
        rmfiles="$rmfiles $dir/$pic_object"
    fi

    # Add non-PIC object to the list of files to remove.
    if test -n "$non_pic_object" \
        && test "$non_pic_object" != none; then
        rmfiles="$rmfiles $dir/$non_pic_object"
    fi
fi
;;

*)
if test "$mode" = clean ; then
    noexename=$name
    case $file in
    *.exe)
        file=`$echo $file|{SED} 's,.exe$,,'`
        noexename=`$echo $name|{SED} 's,.exe$,,'`
        # $file with .exe has already been added to rmfiles,
        # add $file without .exe
        rmfiles="$rmfiles $file"
        ;;
    esac
    # Do a test to see if this is a libtool program.
    if ({SED} -e '4q' $file | grep "^# Generated by .*$PACKAGE")
>/dev/null 2>&1; then
        relink_command=
        . $dir/$noexename

        # note $name still contains .exe if it was in $file originally
        # as does the version of $file that was added into $rmfiles
        rmfiles="$rmfiles $objdir/$name $objdir/${name}S.${objext}"
        if test "$fast_install" = yes && test -n "$relink_command";
then
            rmfiles="$rmfiles $objdir/lt-$name"
        fi
        if test "X$noexename" != "X$name" ; then
            rmfiles="$rmfiles $objdir/lt-{$noexename}.c"
        fi
    fi
fi
fi

```

```

        ;;
        esac
        $show "$rm $rmfiles"
        $run $rm $rmfiles || exit_status=1
    done
    objdir="$origobjdir"

    # Try to remove the ${objdir}s in the directories where we deleted
files
    for dir in $rmdirs; do
        if test -d "$dir"; then
            $show "rmdir $dir"
            $run rmdir $dir >/dev/null 2>&1
        fi
    done

    exit $exit_status
    ;;

    "")
        $echo "$modename: you must specify a MODE" 1>&2
        $echo "$generic_help" 1>&2
        exit $EXIT_FAILURE
    ;;
esac

if test -z "$exec_cmd"; then
    $echo "$modename: invalid operation mode \"$mode\"" 1>&2
    $echo "$generic_help" 1>&2
    exit $EXIT_FAILURE
fi
fi # test -z "$show_help"

if test -n "$exec_cmd"; then
    eval exec $exec_cmd
    exit $EXIT_FAILURE
fi

# We need to display help for each of the modes.
case $mode in
    "") $echo \
"Usage: $modename [OPTION]... [MODE-ARG]...

Provide generalized library-building support services.

    --config          show all configuration variables
    --debug          enable verbose shell tracing
-n, --dry-run       display commands without modifying any files
    --features       display basic configuration information and exit
    --finish         same as `--mode=finish'
    --help           display this help message and exit
    --mode=MODE      use operation mode MODE [default=inferred from
MODE-ARGS]
    --quiet          same as `--silent'

```

```

--silent          don't print informational messages
--tag=TAG         use configuration variables from tag TAG
--version        print version information

```

MODE must be one of the following:

```

clean           remove files from the build directory
compile        compile a source file into a libtool object
execute        automatically set library path, then run a program
finish         complete the installation of libtool libraries
install        install libraries or executables
link           create a library or an executable
uninstall      remove libraries from an installed directory

```

MODE-ARGS vary depending on the MODE. Try `\`$modename --help --mode=MODE'` for a more detailed description of MODE.

```

Report bugs to <bug-libtool@gnu.org>."
  exit $EXIT_SUCCESS
  ;;

```

```

clean)
  $echo \
"Usage: $modename [OPTION]... --mode=clean RM [RM-OPTION]... FILE..."

```

Remove files from the build directory.

RM is the name of the program to use to delete files associated with each FILE (typically `\`/bin/rm'`). RM-OPTIONS are options (such as `\`-f'`) to be passed to RM.

If FILE is a libtool library, object or program, all the files associated with it are deleted. Otherwise, only FILE itself is deleted using RM."

```

  ;;

```

```

compile)
  $echo \
"Usage: $modename [OPTION]... --mode=compile COMPILE-COMMAND... SOURCEFILE"

```

Compile a source file into a libtool library object.

This mode accepts the following additional options:

```

-o OUTPUT-FILE  set the output file name to OUTPUT-FILE
-prefer-pic     try to building PIC objects only
-prefer-non-pic try to building non-PIC objects only
-static         always build a '\`.o' file suitable for static linking

```

COMPILE-COMMAND is a command to be used in creating a `\`standard'` object file

from the given SOURCEFILE.

The output file name is determined by removing the directory component from SOURCEFILE, then substituting the C source code suffix `\`.c'` with the library object suffix, `\`.lo'.`"

`;;`

execute)

`$echo \`

"Usage: `$modename [OPTION]... --mode=execute COMMAND [ARGS]...`

Automatically set library path, then run a program.

This mode accepts the following additional options:

`-dlopen FILE`        add the directory containing FILE to the library path

This mode sets the library path environment variable according to `\`-dlopen'` flags.

If any of the ARGS are libtool executable wrappers, then they are translated into their corresponding uninstalled binary, and any of their required library directories are added to the library path.

Then, COMMAND is executed, with ARGS as arguments."

`;;`

finish)

`$echo \`

"Usage: `$modename [OPTION]... --mode=finish [LIBDIR]...`

Complete the installation of libtool libraries.

Each LIBDIR is a directory that contains libtool libraries.

The commands that this mode executes may require superuser privileges.

Use

the `\`--dry-run'` option if you just want to see what would be executed."

`;;`

install)

`$echo \`

"Usage: `$modename [OPTION]... --mode=install INSTALL-COMMAND...`

Install executables or libraries.

INSTALL-COMMAND is the installation command. The first component should be either the `\`install'` or `\`cp'` program.



The rest of the components are interpreted as arguments to that command (only BSD-compatible install options are recognized)."

;;

link)

\$echo \

"Usage: \$modename [OPTION]... --mode=link LINK-COMMAND...

Link object files or libraries together to form another library, or to create an executable program.

LINK-COMMAND is a command using the C compiler that you would use to create a program from several object files.

The following components of LINK-COMMAND are treated specially:

-all-static do not do any dynamic linking at all  
-avoid-version do not add a version suffix if possible  
-dlopen FILE \'-dlpreopen' FILE if it cannot be dlopened at runtime  
-dlpreopen FILE link in FILE and add its symbols to lt\_preloaded\_symbols  
-export-dynamic allow symbols from OUTPUT-FILE to be resolved with dlsym(3)  
-export-symbols SYMFILE try to export only the symbols listed in SYMFILE  
-export-symbols-regex REGEX try to export only the symbols matching REGEX  
-LLIBDIR search LIBDIR for required installed libraries  
-lNAME OUTPUT-FILE requires the installed library libNAME  
-module build a library that can dlopened  
-no-fast-install disable the fast-install mode  
-no-install link a not-installable executable  
-no-undefined declare that a library does not refer to external symbols  
-o OUTPUT-FILE create OUTPUT-FILE from the specified objects  
-objectlist FILE Use a list of object files found in FILE to specify objects  
-precious-files-regex REGEX don't remove output files matching REGEX  
-release RELEASE specify package release information  
-rpath LIBDIR the created library will eventually be installed in LIBDIR  
-R[ ]LIBDIR add LIBDIR to the runtime path of programs and libraries  
-static do not do any dynamic linking of libtool libraries  
-version-info CURRENT[:REVISION[:AGE]] specify library version info [each variable defaults to 0]

All other options (arguments beginning with \'-') are ignored.

Every other argument is treated as a filename. Files ending in ``.la'` are treated as uninstalled libtool libraries, other files are standard or library object files.

If the OUTPUT-FILE ends in ``.la'`, then a libtool library is created, only library objects (``.lo'` files) may be specified, and ``.rpath'` is required, except when creating a convenience library.

If OUTPUT-FILE ends in ``.a'` or ``.lib'`, then a standard library is created using ``.ar'` and ``.ranlib'`, or on Windows using ``.lib'`.

If OUTPUT-FILE ends in ``.lo'` or ``.${objext}'`, then a reloadable object file is created, otherwise an executable program is created."

```
;;
```

```
uninstall)
```

```
  $echo \
```

```
"Usage: $modename [OPTION]... --mode=uninstall RM [RM-OPTION]... FILE...
```

Remove libraries from an installation directory.

RM is the name of the program to use to delete files associated with each FILE (typically ``.bin/rm'`). RM-OPTIONS are options (such as ``.f'`) to be passed to RM.

If FILE is a libtool library, all the files associated with it are deleted.

Otherwise, only FILE itself is deleted using RM."

```
;;
```

```
*)
```

```
  $echo "$modename: invalid operation mode `$.mode'" 1>&2
```

```
  $echo "$help" 1>&2
```

```
  exit $EXIT_FAILURE
```

```
;;
```

```
esac
```

```
$echo
```

```
$echo "Try `$.modename --help' for more information about other modes."
```

```
exit $?
```

```
# The TAGs below are defined such that we never get into a situation
# in which we disable both kinds of libraries. Given conflicting
# choices, we go for a static library, that is the most portable,
# since we can't tell whether shared libraries were disabled because
# the user asked for that or because the platform doesn't support
# them. This is particularly important on AIX, because we don't
```

```

# support having both static and shared libraries enabled at the same
# time on that platform, so we default to a shared-only configuration.
# If a disable-shared tag is given, we'll fallback to a static-only
# configuration.  But we'll never go from static-only to shared-only.

# ### BEGIN LIBTOOL TAG CONFIG: disable-shared
disable_libs=shared
# ### END LIBTOOL TAG CONFIG: disable-shared

# ### BEGIN LIBTOOL TAG CONFIG: disable-static
disable_libs=static
# ### END LIBTOOL TAG CONFIG: disable-static

# Local Variables:
# mode:shell-script
# sh-indentation:2
# End:

```

## Makefile.am

```

man_MANS = systool.1
EXTRA_DIST = docs include $(man_MANS) CREDITS lib/LGPL cmd/GPL test/GPL
SUBDIRS = lib cmd test
includedir=@includedir@/sysfs
include_HEADERS = include/libsysfs.h include/dlist.h

dist-hook:
    rm -rf `find $(distdir)/docs -name CVS`
    rm -rf `find $(distdir)/include -name CVS`

```

## Makefile.in

```

# Makefile.in generated by automake 1.9.6 from Makefile.am.
# @configure_input@

# Copyright (C) 1994, 1995, 1996, 1997, 1998, 1999, 2000, 2001, 2002,
# 2003, 2004, 2005 Free Software Foundation, Inc.
# This Makefile.in is free software; the Free Software Foundation
# gives unlimited permission to copy and/or distribute it,
# with or without modifications, as long as this notice is preserved.

# This program is distributed in the hope that it will be useful,
# but WITHOUT ANY WARRANTY, to the extent permitted by law; without
# even the implied warranty of MERCHANTABILITY or FITNESS FOR A
# PARTICULAR PURPOSE.

@SET_MAKE@

srcdir = @srcdir@
top_srcdir = @top_srcdir@
VPATH = @srcdir@
pkgdatadir = $(datadir)/@PACKAGE@

```

```

pkglibdir = $(libdir)/@PACKAGE@
pkgincludedir = $(includedir)/@PACKAGE@
top_builddir = .
am__cd = CDPATH="$$${ZSH_VERSION+.$}(PATH_SEPARATOR)" && cd
INSTALL = @INSTALL@
install_sh_DATA = $(install_sh) -c -m 644
install_sh_PROGRAM = $(install_sh) -c
install_sh_SCRIPT = $(install_sh) -c
INSTALL_HEADER = $(INSTALL_DATA)
transform = $(program_transform_name)
NORMAL_INSTALL = :
PRE_INSTALL = :
POST_INSTALL = :
NORMAL_UNINSTALL = :
PRE_UNINSTALL = :
POST_UNINSTALL = :
build_triplet = @build@
host_triplet = @host@
DIST_COMMON = README $(am__configure_deps) $(include_HEADERS) \
  $(srcdir)/Makefile.am $(srcdir)/Makefile.in \
  $(srcdir)/config.h.in $(top_srcdir)/configure AUTHORS COPYING \
  ChangeLog INSTALL NEWS TODO compile config.guess config.sub \
  depcomp install-sh ltmain.sh missing mkinstalldirs
subdir = .
ACLOCAL_M4 = $(top_srcdir)/aclocal.m4
am__aclocal_m4_deps = $(top_srcdir)/m4/klibc.m4 \
  $(top_srcdir)/configure.ac
am__configure_deps = $(am__aclocal_m4_deps) $(CONFIGURE_DEPENDENCIES) \
  $(ACLOCAL_M4)
am__CONFIG_DISTCLEAN_FILES = config.status config.cache config.log \
  configure.lineno configure.status.lineno
mkinstalldirs = $(SHELL) $(top_srcdir)/mkinstalldirs
CONFIG_HEADER = config.h
CONFIG_CLEAN_FILES =
SOURCES =
DIST_SOURCES =
RECURSIVE_TARGETS = all-recursive check-recursive dvi-recursive \
  html-recursive info-recursive install-data-recursive \
  install-exec-recursive install-info-recursive \
  install-recursive installcheck-recursive installdirs-recursive \
  pdf-recursive ps-recursive uninstall-info-recursive \
  uninstall-recursive
man1dir = $(mandir)/man1
am__installdirs = "$(DESTDIR)$(man1dir)" "$(DESTDIR)$(includedir)"
NROFF = nroff
MANS = $(man_MANS)
am__vpath_adj_setup = srcdirstrip=`echo "$${srcdir}" | sed 's|.|.|g'|`;
am__vpath_adj = case $$p in \
  $(srcdir)/*) f=`echo "$$p" | sed "s|^$$srcdirstrip/||"``;; \
  *) f=$$p;; \
  esac;
am__strip_dir = `echo $$p | sed -e 's|^.*//||'`;
include_HEADERS_INSTALL = $(INSTALL_HEADER)
HEADERS = $(include_HEADERS)

```

```

ETAGS = etags
CTAGS = ctags
DIST_SUBDIRS = $(SUBDIRS)
DISTFILES = $(DIST_COMMON) $(DIST_SOURCES) $(TEXINFOS) $(EXTRA_DIST)
distdir = $(PACKAGE)-$(VERSION)
top_distdir = $(distdir)
am__remove_distdir = \
  { test ! -d $(distdir) \
    || { find $(distdir) -type d ! -perm -200 -exec chmod u+w {} ';' \
      && rm -fr $(distdir); }; }
DIST_ARCHIVES = $(distdir).tar.gz
GZIP_ENV = --best
distuninstallcheck_listfiles = find . -type f -print
distcleancheck_listfiles = find . -type f -print
ACLOCAL = @ACLOCAL@
AMDEP_FALSE = @AMDEP_FALSE@
AMDEP_TRUE = @AMDEP_TRUE@
AMTAR = @AMTAR@
AR = @AR@
AUTOCONF = @AUTOCONF@
AUTOHEADER = @AUTOHEADER@
AUTOMAKE = @AUTOMAKE@
AWK = @AWK@
CC = @CC@
CCDEPMODE = @CCDEPMODE@
CFLAGS = @CFLAGS@
CPP = @CPP@
CPPFLAGS = @CPPFLAGS@
CXX = @CXX@
CXXCPP = @CXXCPP@
CXXDEPMODE = @CXXDEPMODE@
CXXFLAGS = @CXXFLAGS@
CYGPATH_W = @CYGPATH_W@
DEFS = @DEFS@
DEPDIR = @DEPDIR@
ECHO = @ECHO@
ECHO_C = @ECHO_C@
ECHO_N = @ECHO_N@
ECHO_T = @ECHO_T@
EGREP = @EGREP@
EXEEXT = @EXEEXT@
EXTRA_CFLAGS = @EXTRA_CFLAGS@
F77 = @F77@
FFLAGS = @FFLAGS@
INSTALL_DATA = @INSTALL_DATA@
INSTALL_PROGRAM = @INSTALL_PROGRAM@
INSTALL_SCRIPT = @INSTALL_SCRIPT@
INSTALL_STRIP_PROGRAM = @INSTALL_STRIP_PROGRAM@
KLCC = @KLCC@
KLIBC = @KLIBC@
KLIBC_FALSE = @KLIBC_FALSE@
KLIBC_TRUE = @KLIBC_TRUE@
LDFLAGS = @LDFLAGS@
LIBOBJJS = @LIBOBJJS@

```

LIBS = @LIBS@  
LIBTOOL = @LIBTOOL@  
LN\_S = @LN\_S@  
LTLIBOBJS = @LTLIBOBJS@  
MAKEINFO = @MAKEINFO@  
OBJEXT = @OBJEXT@  
PACKAGE = @PACKAGE@  
PACKAGE\_BUGREPORT = @PACKAGE\_BUGREPORT@  
PACKAGE\_NAME = @PACKAGE\_NAME@  
PACKAGE\_STRING = @PACKAGE\_STRING@  
PACKAGE\_TARNAME = @PACKAGE\_TARNAME@  
PACKAGE\_VERSION = @PACKAGE\_VERSION@  
PATH\_SEPARATOR = @PATH\_SEPARATOR@  
RANLIB = @RANLIB@  
SET\_MAKE = @SET\_MAKE@  
SHELL = @SHELL@  
STRIP = @STRIP@  
VERSION = @VERSION@  
ac\_ct\_AR = @ac\_ct\_AR@  
ac\_ct\_CC = @ac\_ct\_CC@  
ac\_ct\_CXX = @ac\_ct\_CXX@  
ac\_ct\_F77 = @ac\_ct\_F77@  
ac\_ct\_RANLIB = @ac\_ct\_RANLIB@  
ac\_ct\_STRIP = @ac\_ct\_STRIP@  
am\_\_fastdepCC\_FALSE = @am\_\_fastdepCC\_FALSE@  
am\_\_fastdepCC\_TRUE = @am\_\_fastdepCC\_TRUE@  
am\_\_fastdepCXX\_FALSE = @am\_\_fastdepCXX\_FALSE@  
am\_\_fastdepCXX\_TRUE = @am\_\_fastdepCXX\_TRUE@  
am\_\_include = @am\_\_include@  
am\_\_leading\_dot = @am\_\_leading\_dot@  
am\_\_quote = @am\_\_quote@  
am\_\_tar = @am\_\_tar@  
am\_\_untar = @am\_\_untar@  
bindir = @bindir@  
build = @build@  
build\_alias = @build\_alias@  
build\_cpu = @build\_cpu@  
build\_os = @build\_os@  
build\_vendor = @build\_vendor@  
datadir = @datadir@  
exec\_prefix = @exec\_prefix@  
host = @host@  
host\_alias = @host\_alias@  
host\_cpu = @host\_cpu@  
host\_os = @host\_os@  
host\_vendor = @host\_vendor@  
includedir = @includedir@/sysfs  
infodir = @infodir@  
install\_sh = @install\_sh@  
libdir = @libdir@  
libexecdir = @libexecdir@  
localstatedir = @localstatedir@  
mandir = @mandir@  
mkdir\_p = @mkdir\_p@

```

oldincludedir = @oldincludedir@
prefix = @prefix@
program_transform_name = @program_transform_name@
sbindir = @sbindir@
sharedstatedir = @sharedstatedir@
sysconfdir = @sysconfdir@
target_alias = @target_alias@
man_MANS = systool.1
EXTRA_DIST = docs include $(man_MANS) CREDITS lib/LGPL cmd/GPL test/GPL
SUBDIRS = lib cmd test
include_HEADERS = include/libsysfs.h include/dlist.h
all: config.h
    $(MAKE) $(AM_MAKEFLAGS) all-recursive

.SUFFIXES:
am--refresh:
    @:
$(srcdir)/Makefile.in: $(srcdir)/Makefile.am $(am__configure_deps)
    @for dep in $?; do \
        case '$(am__configure_deps)' in \
            *$$dep*) \
                echo ' cd $(srcdir) && $(AUTOMAKE) --gnu ' ; \
                cd $(srcdir) && $(AUTOMAKE) --gnu \
                && exit 0; \
                exit 1;; \
            esac; \
    done; \
    echo ' cd $(top_srcdir) && $(AUTOMAKE) --gnu Makefile'; \
    cd $(top_srcdir) && \
    $(AUTOMAKE) --gnu Makefile
.PRECIOUS: Makefile
Makefile: $(srcdir)/Makefile.in $(top_builddir)/config.status
    @case '$?' in \
        *config.status*) \
            echo ' $(SHELL) ./config.status'; \
            $(SHELL) ./config.status;; \
        *) \
            echo ' cd $(top_builddir) && $(SHELL) ./config.status $@
$(am__depfiles_maybe)'; \
            cd $(top_builddir) && $(SHELL) ./config.status $@
$(am__depfiles_maybe);; \
    esac;

$(top_builddir)/config.status: $(top_srcdir)/configure
$(CONFIG_STATUS_DEPENDENCIES)
    $(SHELL) ./config.status --recheck

$(top_srcdir)/configure: $(am__configure_deps)
    cd $(srcdir) && $(AUTOCONF)
$(ACLOCAL_M4): $(am__aclocal_m4_deps)
    cd $(srcdir) && $(ACLOCAL) $(ACLOCAL_AMFLAGS)

config.h: stamp-h1
    @if test ! -f $@; then \

```

```

    rm -f stamp-h1; \
    $(MAKE) stamp-h1; \
else ;; fi

stamp-h1: $(srcdir)/config.h.in $(top_builddir)/config.status
    @rm -f stamp-h1
    cd $(top_builddir) && $(SHELL) ./config.status config.h
$(srcdir)/config.h.in: $(am_configure_deps)
    cd $(top_srcdir) && $(AUTOHEADER)
    rm -f stamp-h1
    touch $@

distclean-hdr:
    -rm -f config.h stamp-h1

mostlyclean-libtool:
    -rm -f *.lo

clean-libtool:
    -rm -rf .libs _libs

distclean-libtool:
    -rm -f libtool

uninstall-info-am:
install-man1: $(man1_MANS) $(man_MANS)
    @$ (NORMAL_INSTALL)
    test -z "$(man1dir)" || $(mkdir_p) "$(DESTDIR)$ (man1dir)"
    @list='$(man1_MANS) $(dist_man1_MANS) $(nodist_man1_MANS)'; \
    l2='$(man_MANS) $(dist_man_MANS) $(nodist_man_MANS)'; \
    for i in $$l2; do \
        case "$$i" in \
            *.1*) list="$$list $$i" ;; \
            esac; \
    done; \
    for i in $$list; do \
        if test -f $(srcdir)/$$i; then file=$(srcdir)/$$i; \
        else file=$$i; fi; \
        ext=`echo $$i | sed -e 's/^\.*\.\.//'`; \
        case "$$ext" in \
            1*) ;; \
            *) ext='1' ;; \
            esac; \
        inst=`echo $$i | sed -e 's/\\. [0-9a-z]*$$//'`; \
        inst=`echo $$inst | sed -e 's/^\.*\///'`; \
        inst=`echo $$inst | sed '$ (transform)'`.$$ext; \
        echo " $(INSTALL_DATA) '$$file' '$ (DESTDIR)$ (man1dir)/$$inst'"; \
        $(INSTALL_DATA) "$$file" "$ (DESTDIR)$ (man1dir)/$$inst"; \
    done
uninstall-man1:
    @$ (NORMAL_UNINSTALL)
    @list='$(man1_MANS) $(dist_man1_MANS) $(nodist_man1_MANS)'; \
    l2='$(man_MANS) $(dist_man_MANS) $(nodist_man_MANS)'; \
    for i in $$l2; do \
        case "$$i" in \

```



```

        *.1*) list="$${list} $$i" ;; \
    esac; \
done; \
for i in $$list; do \
    ext=`echo $$i | sed -e 's/^\.*\\.//'\`; \
    case "$$ext" in \
        1*) ;; \
        *) ext='1' ;; \
    esac; \
    inst=`echo $$i | sed -e 's/\\. [0-9a-z]*$$//'\`; \
    inst=`echo $$inst | sed -e 's/^\.*\\.//'\`; \
    inst=`echo $$inst | sed '$(transform)'\`.$$ext; \
    echo " rm -f '$(DESTDIR)$ (manldir)/$$inst'"; \
    rm -f "$ (DESTDIR)$ (manldir)/$$inst"; \
done
install-includeHEADERS: $(include_HEADERS)
    @$(NORMAL_INSTALL)
    test -z "$(includedir)" || $(mkdir_p) "$(DESTDIR)$ (includedir)"
    @list='$(include_HEADERS)'; for p in $$list; do \
        if test -f "$$p"; then d=; else d="$(srcdir)"/; fi; \
        f=$(am_strip_dir) \
        echo " $(includeHEADERS_INSTALL) '$$d$$p' \
'$(DESTDIR)$ (includedir)/$$f'"; \
        $(includeHEADERS_INSTALL) "$$d$$p" "$(DESTDIR)$ (includedir)/$$f"; \
    \
done

uninstall-includeHEADERS:
    @$(NORMAL_UNINSTALL)
    @list='$(include_HEADERS)'; for p in $$list; do \
        f=$(am_strip_dir) \
        echo " rm -f '$(DESTDIR)$ (includedir)/$$f'"; \
        rm -f "$ (DESTDIR)$ (includedir)/$$f"; \
    done

# This directory's subdirectories are mostly independent; you can cd
# into them and run `make' without going through this Makefile.
# To change the values of `make' variables: instead of editing Makefiles,
# (1) if the variable is set in `config.status', edit `config.status'
#     (which will cause the Makefiles to be regenerated when you run
# `make');
# (2) otherwise, pass the desired values on the `make' command line.
$(RECURSIVE_TARGETS):
    @failcom='exit 1'; \
    for f in x $$MAKEFLAGS; do \
        case $$f in \
            *=* | --[!k]*);; \
            *k*) failcom='fail=yes';; \
            *) ;; \
        esac; \
    done; \
    dot_seen=no; \
    target=`echo $@ | sed s/-recursive//`; \
    list='$(SUBDIRS)'; for subdir in $$list; do \
        echo "Making $$target in $$subdir"; \

```

```

    if test "$$subdir" = "."; then \
        dot_seen=yes; \
        local_target="$${target-am}"; \
    else \
        local_target="$${target}"; \
    fi; \
    (cd $$subdir && $(MAKE) $(AM_MAKEFLAGS) $$local_target) \
    || eval $$failcom; \
done; \
if test "$$dot_seen" = "no"; then \
    $(MAKE) $(AM_MAKEFLAGS) "$${target-am}" || exit 1; \
fi; test -z "$$fail"

mostlyclean-recursive clean-recursive distclean-recursive \
maintainer-clean-recursive:
    @failcom='exit 1'; \
    for f in x $$MAKEFLAGS; do \
        case $$f in \
            *=* | --[!k]*) ;; \
            *k*) failcom='fail=yes';; \
        esac; \
    done; \
    dot_seen=no; \
    case "$@" in \
        distclean-* | maintainer-clean-*) list='$(DIST_SUBDIRS)' ;; \
        *) list='$(SUBDIRS)';; \
    esac; \
    rev=''; for subdir in $$list; do \
        if test "$$subdir" = "."; then ;; else \
            rev="$${subdir} $$rev"; \
        fi; \
    done; \
    rev="$${rev}."; \
    target=`echo $@ | sed s/-recursive//`; \
    for subdir in $$rev; do \
        echo "Making $$target in $$subdir"; \
        if test "$$subdir" = "."; then \
            local_target="$${target-am}"; \
        else \
            local_target="$${target}"; \
        fi; \
        (cd $$subdir && $(MAKE) $(AM_MAKEFLAGS) $$local_target) \
        || eval $$failcom; \
    done && test -z "$$fail"

tags-recursive:
    list='$(SUBDIRS)'; for subdir in $$list; do \
        test "$$subdir" = . || (cd $$subdir && $(MAKE) $(AM_MAKEFLAGS)
tags); \
    done

ctags-recursive:
    list='$(SUBDIRS)'; for subdir in $$list; do \
        test "$$subdir" = . || (cd $$subdir && $(MAKE) $(AM_MAKEFLAGS)
ctags); \
    done

```

```

ID: $(HEADERS) $(SOURCES) $(LISP) $(TAGS_FILES)
  list='$(SOURCES) $(HEADERS) $(LISP) $(TAGS_FILES)'; \
  unique=`for i in $$list; do \
    if test -f "$$i"; then echo $$i; else echo $(srcdir)/$$i; fi; \
  done | \
  $(AWK) ' { files[$$0] = 1; } \
  END { for (i in files) print i; }'; \
  mkid -fID $$unique
tags: TAGS

```

```

TAGS: tags-recursive $(HEADERS) $(SOURCES) config.h.in
$(TAGS_DEPENDENCIES) \
  $(TAGS_FILES) $(LISP)
tags=; \
here=`pwd`; \
if ($(ETAGS) --etags-include --version) >/dev/null 2>&1; then \
  include_option=--etags-include; \
  empty_fix=.; \
else \
  include_option=--include; \
  empty_fix=; \
fi; \
list='$(SUBDIRS)'; for subdir in $$list; do \
  if test "$$subdir" = .; then ;; else \
    test ! -f $$subdir/TAGS || \
      tags="$$tags $$include_option=$$here/$$subdir/TAGS"; \
  fi; \
done; \
list='$(SOURCES) $(HEADERS) config.h.in $(LISP) $(TAGS_FILES)'; \
unique=`for i in $$list; do \
  if test -f "$$i"; then echo $$i; else echo $(srcdir)/$$i; fi; \
done | \
$(AWK) ' { files[$$0] = 1; } \
  END { for (i in files) print i; }'; \
if test -z "$$(ETAGS_ARGS)$$tags$$unique"; then ;; else \
  test -n "$$unique" || unique=$$empty_fix; \
  $(ETAGS) $(ETAGSFLAGS) $(AM_ETAGSFLAGS) $(ETAGS_ARGS) \
    $$tags $$unique; \
fi

```

```

ctags: CTAGS
CTAGS: ctags-recursive $(HEADERS) $(SOURCES) config.h.in
$(TAGS_DEPENDENCIES) \
  $(TAGS_FILES) $(LISP)
tags=; \
here=`pwd`; \
list='$(SOURCES) $(HEADERS) config.h.in $(LISP) $(TAGS_FILES)'; \
unique=`for i in $$list; do \
  if test -f "$$i"; then echo $$i; else echo $(srcdir)/$$i; fi; \
done | \
$(AWK) ' { files[$$0] = 1; } \
  END { for (i in files) print i; }'; \
test -z "$$(CTAGS_ARGS)$$tags$$unique" \
  || $(CTAGS) $(CTAGSFLAGS) $(AM_CTAGSFLAGS) $(CTAGS_ARGS) \

```

```

    $$tags $$unique

GTAGS:
    here=`$(am__cd) $(top_builddir) && pwd` \
    && cd $(top_srcdir) \
    && gtags -i $(GTAGS_ARGS) $$here

distclean-tags:
    -rm -f TAGS ID GTAGS GRTAGS GSYMS GPATH tags

distdir: $(DISTFILES)
    $(am__remove_distdir)
    mkdir $(distdir)
    $(mkdir_p) $(distdir)/cmd $(distdir)/include $(distdir)/lib
$(distdir)/m4 $(distdir)/test
    @srcdirstrip=`echo "$(srcdir)" | sed 's|.|.|g'`; \
    topsrcdirstrip=`echo "$(top_srcdir)" | sed 's|.|.|g'`; \
    list='$(DISTFILES)'; for file in $$list; do \
        case $$file in \
            $(srcdir)/*) file=`echo "$$file" | sed "s|^$$srcdirstrip/||"``; \
            \
            $(top_srcdir)/*) file=`echo "$$file" | sed
"s|^$$topsrcdirstrip/|$(top_builddir)/|"``; \
            esac; \
            if test -f $$file || test -d $$file; then d=.; else d=$(srcdir);
fi; \
            dir=`echo "$$file" | sed -e 's,/[^/]*$$,,``; \
            if test "$$dir" != "$$file" && test "$$dir" != "."; then \
                dir="/$$dir"; \
                $(mkdir_p) "$(distdir)$$dir"; \
            else \
                dir=''; \
            fi; \
            if test -d $$d/$$file; then \
                if test -d $(srcdir)/$$file && test $$d != $(srcdir); then \
                    cp -pR $(srcdir)/$$file $(distdir)$$dir || exit 1; \
                fi; \
                cp -pR $$d/$$file $(distdir)$$dir || exit 1; \
            else \
                test -f $(distdir)/$$file \
                || cp -p $$d/$$file $(distdir)/$$file \
                || exit 1; \
            fi; \
        done
list='$(DIST_SUBDIRS)'; for subdir in $$list; do \
    if test "$$subdir" = .; then ;; else \
        test -d "$(distdir)/$$subdir" \
        || $(mkdir_p) "$(distdir)/$$subdir" \
        || exit 1; \
        distdir=`$(am__cd) $(distdir) && pwd`; \
        top_distdir=`$(am__cd) $(top_distdir) && pwd`; \
        (cd $$subdir && \
            $(MAKE) $(AM_MAKEFLAGS) \
            top_distdir="$$top_distdir" \

```

```

        distdir="$$distdir/$$subdir" \
        distdir) \
    || exit 1; \
fi; \
done
$(MAKE) $(AM_MAKEFLAGS) \
    top_distdir="$(top_distdir)" distdir="$(distdir)" \
    dist-hook
-find $(distdir) -type d ! -perm -777 -exec chmod a+rx {} \; -o \
    ! -type d ! -perm -444 -links 1 -exec chmod a+r {} \; -o \
    ! -type d ! -perm -400 -exec chmod a+r {} \; -o \
    ! -type d ! -perm -444 -exec $(SHELL) $(install_sh) -c -m a+r {}
{} \; \
    || chmod -R a+r $(distdir)
dist-gzip: distdir
    tardir=$(distdir) && $(am__tar) | GZIP=$(GZIP_ENV) gzip -c
>$(distdir).tar.gz
    $(am__remove_distdir)

dist-bzip2: distdir
    tardir=$(distdir) && $(am__tar) | bzip2 -9 -c >$(distdir).tar.bz2
    $(am__remove_distdir)

dist-tarZ: distdir
    tardir=$(distdir) && $(am__tar) | compress -c >$(distdir).tar.Z
    $(am__remove_distdir)

dist-shar: distdir
    shar $(distdir) | GZIP=$(GZIP_ENV) gzip -c >$(distdir).shar.gz
    $(am__remove_distdir)

dist-zip: distdir
    -rm -f $(distdir).zip
    zip -rq $(distdir).zip $(distdir)
    $(am__remove_distdir)

dist dist-all: distdir
    tardir=$(distdir) && $(am__tar) | GZIP=$(GZIP_ENV) gzip -c
>$(distdir).tar.gz
    $(am__remove_distdir)

# This target untars the dist file and tries a VPATH configuration. Then
# it guarantees that the distribution is self-contained by making another
# tarfile.
distcheck: dist
    case '$(DIST_ARCHIVES)' in \
    *.tar.gz*) \
        GZIP=$(GZIP_ENV) gunzip -c $(distdir).tar.gz | $(am__untar) ;;\
    *.tar.bz2*) \
        bunzip2 -c $(distdir).tar.bz2 | $(am__untar) ;;\
    *.tar.Z*) \
        uncompress -c $(distdir).tar.Z | $(am__untar) ;;\
    *.shar.gz*) \
        GZIP=$(GZIP_ENV) gunzip -c $(distdir).shar.gz | unshar ;;\

```

```

*.zip*) \
  unzip $(distdir).zip ;;\
esac
chmod -R a-w $(distdir); chmod a+w $(distdir)
mkdir $(distdir)/_build
mkdir $(distdir)/_inst
chmod a-w $(distdir)
dc_install_base=`$(am__cd) $(distdir)/_inst && pwd | sed -e
's,^[^:\/]:[\/],/,,' \
  && dc_destdir="`${TMPDIR}/tmp}/am-dc-$$$/" \
  && cd $(distdir)/_build \
  && ../configure --srcdir=.. --prefix="$$dc_install_base" \
    $(DISTCHECK_CONFIGURE_FLAGS) \
  && $(MAKE) $(AM_MAKEFLAGS) \
  && $(MAKE) $(AM_MAKEFLAGS) dvi \
  && $(MAKE) $(AM_MAKEFLAGS) check \
  && $(MAKE) $(AM_MAKEFLAGS) install \
  && $(MAKE) $(AM_MAKEFLAGS) installcheck \
  && $(MAKE) $(AM_MAKEFLAGS) uninstall \
  && $(MAKE) $(AM_MAKEFLAGS)
distuninstallcheck_dir="$$dc_install_base" \
  distuninstallcheck \
  && chmod -R a-w "$$dc_install_base" \
  && ({ \
    (cd ../../ && umask 077 && mkdir "$$dc_destdir") \
    && $(MAKE) $(AM_MAKEFLAGS) DESTDIR="$$dc_destdir" install \
    && $(MAKE) $(AM_MAKEFLAGS) DESTDIR="$$dc_destdir" uninstall
\
    && $(MAKE) $(AM_MAKEFLAGS) DESTDIR="$$dc_destdir" \
      distuninstallcheck_dir="$$dc_destdir"
distuninstallcheck; \
  } || { rm -rf "$$dc_destdir"; exit 1; }) \
  && rm -rf "$$dc_destdir" \
  && $(MAKE) $(AM_MAKEFLAGS) dist \
  && rm -rf $(DIST_ARCHIVES) \
  && $(MAKE) $(AM_MAKEFLAGS) distcleancheck
$(am__remove_distdir)
@echo "$(distdir) archives ready for distribution: "; \
list='$(DIST_ARCHIVES)'; for i in $$list; do echo $$i; done) | \
sed -e '1{h;s/./=/g;p;x;}' -e '$${p;x;}'
distuninstallcheck:
  @cd $(distuninstallcheck_dir) \
  && test `$(distuninstallcheck_listfiles) | wc -l` -le 1 \
  || { echo "ERROR: files left after uninstall:" ; \
    if test -n "$(DESTDIR)"; then \
      echo " (check DESTDIR support)"; \
    fi ; \
    $(distuninstallcheck_listfiles) ; \
    exit 1; } >&2
distcleancheck: distclean
  @if test '$(srcdir)' = . ; then \
    echo "ERROR: distcleancheck can only run from a VPATH build" ; \
    exit 1 ; \
  fi

```

```

        @test `$(distcleancheck_listfiles) | wc -l` -eq 0 \
        || { echo "ERROR: files left in build directory after distclean:"
; \
        $(distcleancheck_listfiles) ; \
        exit 1; } >&2
check-am: all-am
check: check-recursive
all-am: Makefile $(MANS) $(HEADERS) config.h
installdirs: installdirs-recursive
installdirs-am:
    for dir in "$(DESTDIR)$man1dir" "$(DESTDIR)$includedir"; do \
        test -z "$$dir" || $(mkdir_p) "$$dir"; \
    done
install: install-recursive
install-exec: install-exec-recursive
install-data: install-data-recursive
uninstall: uninstall-recursive

install-am: all-am
    @$(MAKE) $(AM_MAKEFLAGS) install-exec-am install-data-am

installcheck: installcheck-recursive
install-strip:
    $(MAKE) $(AM_MAKEFLAGS) INSTALL_PROGRAM="$(INSTALL_STRIP_PROGRAM)" \
    \
        install_sh_PROGRAM="$(INSTALL_STRIP_PROGRAM)"
INSTALL_STRIP_FLAG=-s \
    `test -z '$(STRIP)' || \
        echo "INSTALL_PROGRAM_ENV=STRIPPROG='$(STRIP)'"` install
mostlyclean-generic:

clean-generic:

distclean-generic:
    -test -z "$(CONFIG_CLEAN_FILES)" || rm -f $(CONFIG_CLEAN_FILES)

maintainer-clean-generic:
    @echo "This command is intended for maintainers to use"
    @echo "it deletes files that may require special tools to rebuild."
clean: clean-recursive

clean-am: clean-generic clean-libtool mostlyclean-am

distclean: distclean-recursive
    -rm -f $(am__CONFIG_DISTCLEAN_FILES)
    -rm -f Makefile
distclean-am: clean-am distclean-generic distclean-hdr \
    distclean-libtool distclean-tags

dvi: dvi-recursive

dvi-am:

html: html-recursive

```

```

info: info-recursive

info-am:

install-data-am: install-includeHEADERS install-man

install-exec-am:

install-info: install-info-recursive

install-man: install-man1

installcheck-am:

maintainer-clean: maintainer-clean-recursive
    -rm -f $(am__CONFIG_DISTCLEAN_FILES)
    -rm -rf $(top_srcdir)/autom4te.cache
    -rm -f Makefile
maintainer-clean-am: distclean-am maintainer-clean-generic

mostlyclean: mostlyclean-recursive

mostlyclean-am: mostlyclean-generic mostlyclean-libtool

pdf: pdf-recursive

pdf-am:

ps: ps-recursive

ps-am:

uninstall-am: uninstall-includeHEADERS uninstall-info-am uninstall-man

uninstall-info: uninstall-info-recursive

uninstall-man: uninstall-man1

.PHONY: $(RECURSIVE_TARGETS) CTAGS GTAGS all all-am am--refresh check \
    check-am clean clean-generic clean-libtool clean-recursive \
    ctags ctags-recursive dist dist-all dist-bzip2 dist-gzip \
    dist-hook dist-shar dist-tarZ dist-zip distcheck distclean \
    distclean-generic distclean-hdr distclean-libtool \
    distclean-recursive distclean-tags distcleancheck distdir \
    distuninstallcheck dvi dvi-am html html-am info info-am \
    install install-am install-data install-data-am install-exec \
    install-exec-am install-includeHEADERS install-info \
    install-info-am install-man install-man1 install-strip \
    installcheck installcheck-am installdirs installdirs-am \
    maintainer-clean maintainer-clean-generic \
    maintainer-clean-recursive mostlyclean mostlyclean-generic \
    mostlyclean-libtool mostlyclean-recursive pdf pdf-am ps ps-am \
    tags tags-recursive uninstall uninstall-am \

```



```
uninstall-includeHEADERS uninstall-info-am uninstall-man \  
uninstall-man1
```

```
dist-hook:
```

```
rm -rf `find $(distdir)/docs -name CVS`  
rm -rf `find $(distdir)/include -name CVS`
```

```
# Tell versions [3.59,3.63) of GNU make to not export all variables.  
# Otherwise a system limit (for SysV at least) may be exceeded.  
.NOEXPORT:
```

## **missing**

```
#!/bin/sh
```

```
# Common stub for a few missing GNU programs while installing.  
# Copyright (C) 1996, 1997, 1999, 2000, 2002 Free Software Foundation,  
# Inc.
```

```
# Originally by Francois Pinard <pinard@iro.umontreal.ca>, 1996.
```

```
# This program is free software; you can redistribute it and/or modify  
# it under the terms of the GNU General Public License as published by  
# the Free Software Foundation; either version 2, or (at your option)  
# any later version.
```

```
# This program is distributed in the hope that it will be useful,  
# but WITHOUT ANY WARRANTY; without even the implied warranty of  
# MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the  
# GNU General Public License for more details.
```

```
# You should have received a copy of the GNU General Public License  
# along with this program; if not, write to the Free Software  
# Foundation, Inc., 59 Temple Place - Suite 330, Boston, MA  
# 02111-1307, USA.
```

```
# As a special exception to the GNU General Public License, if you  
# distribute this file as part of a program that contains a  
# configuration script generated by Autoconf, you may include it under  
# the same distribution terms that you use for the rest of that program.
```

```
if test $# -eq 0; then  
  echo 1>&2 "Try `'$0' --help' for more information"  
  exit 1  
fi
```

```
run=:
```

```
# In the cases where this matters, `missing' is being run in the  
# srcdir already.
```

```
if test -f configure.ac; then  
  configure_ac=configure.ac  
else  
  configure_ac=configure.in  
fi
```

```

case "$1" in
--run)
  # Try to run requested program, and just exit if it succeeds.
  run=
  shift
  "$@" && exit 0
  ;;
esac

# If it does not exist, or fails to run (possibly an outdated version),
# try to emulate it.
case "$1" in

  -h|--h|--he|--hel|--help)
    echo "\
$0 [OPTION]... PROGRAM [ARGUMENT]...

Handle '\`PROGRAM [ARGUMENT]...' for when PROGRAM is missing, or return an
error status if there is no known handling for PROGRAM.

Options:
  -h, --help      display this help and exit
  -v, --version   output version information and exit
  --run          try to run the given command, and emulate it if it
fails

Supported PROGRAM values:
  aclocal        touch file '\`aclocal.m4'
  autoconf       touch file '\`configure'
  autoheader     touch file '\`config.h.in'
  automake       touch all '\`Makefile.in' files
  bison          create '\`y.tab.[ch]', if possible, from existing .[ch]
  flex           create '\`lex.yy.c', if possible, from existing .c
  help2man       touch the output file
  lex            create '\`lex.yy.c', if possible, from existing .c
  makeinfo       touch the output file
  tar            try tar, gnutar, gtar, then tar without non-portable flags
  yacc          create '\`y.tab.[ch]', if possible, from existing .[ch]"
  ;;

-v|--v|--ve|--ver|--vers|--versi|--versio|--version)
  echo "missing 0.4 - GNU automake"
  ;;

-*)
  echo 1>&2 "$0: Unknown '\`$1' option"
  echo 1>&2 "Try '\`$0 --help' for more information"
  exit 1
  ;;

aclocal*)
  if test -z "$run" && ($1 --version) > /dev/null 2>&1; then
    # We have it, but it failed.

```

```

        exit 1
    fi

    echo 1>&2 "\
WARNING: `\$1' is missing on your system.  You should only need it if
you modified `acinclude.m4' or `${configure_ac}'.  You might
want
        to install the `Automake' and `Perl' packages.  Grab them from
any GNU archive site."
    touch aclocal.m4
    ;;

    autoconf)
        if test -z "$run" && ($1 --version) > /dev/null 2>&1; then
            # We have it, but it failed.
            exit 1
        fi

        echo 1>&2 "\
WARNING: `\$1' is missing on your system.  You should only need it if
you modified `${configure_ac}'.  You might want to install the
`Autoconf' and `GNU m4' packages.  Grab them from any GNU
archive site."
        touch configure
        ;;

    autoheader)
        if test -z "$run" && ($1 --version) > /dev/null 2>&1; then
            # We have it, but it failed.
            exit 1
        fi

        echo 1>&2 "\
WARNING: `\$1' is missing on your system.  You should only need it if
you modified `acconfig.h' or `${configure_ac}'.  You might
want
        to install the `Autoconf' and `GNU m4' packages.  Grab them
from any GNU archive site."
        files=`sed -n 's/^[ ]*A[CM]_CONFIG_HEADER(\([^)]*\)).*/\1/p'
${configure_ac}`
        test -z "$files" && files="config.h"
        touch_files=
        for f in $files; do
            case "$f" in
                *.* ) touch_files="$touch_files "`echo "$f" |
                    sed -e 's/^[^:]*://' -e 's/:.*//'`;
                *) touch_files="$touch_files $f.in";
            esac
        done
        touch $touch_files
        ;;

    automake*)
        if test -z "$run" && ($1 --version) > /dev/null 2>&1; then

```

```

        # We have it, but it failed.
        exit 1
    fi

    echo 1>&2 "\
WARNING: `\$1' is missing on your system.  You should only need it if
    you modified `Makefile.am', `acinclude.m4' or
    `${configure_ac}'.
    You might want to install the `Automake' and `Perl' packages.
    Grab them from any GNU archive site."
    find . -type f -name Makefile.am -print |
        sed 's/\.am$/\.in/' |
        while read f; do touch "$f"; done
;;

autom4te)
    if test -z "$run" && ($1 --version) > /dev/null 2>&1; then
        # We have it, but it failed.
        exit 1
    fi

    echo 1>&2 "\
WARNING: `\$1' is needed, and you do not seem to have it handy on your
    system.  You might have modified some files without having the
    proper tools for further handling them.
    You can get `\$1Help2man' as part of `Autoconf' from any GNU
    archive site."

    file=`echo "$*" | sed -n 's/.*--output[ =]*\([^ ]*\).*/\1/p'`
    test -z "$file" && file=`echo "$*" | sed -n 's/.*-o[ ]*\([^
]*\).*/\1/p'`
    if test -f "$file"; then
        touch $file
    else
        test -z "$file" || exec >$file
        echo "#! /bin/sh"
        echo "# Created by GNU Automake missing as a replacement of"
        echo "# $@"
        echo "exit 0"
        chmod +x $file
        exit 1
    fi
;;

bison|yacc)
    echo 1>&2 "\
WARNING: `\$1' is missing on your system.  You should only need it if
    you modified a `.y' file.  You may need the `Bison' package
    in order for those modifications to take effect.  You can get
    `Bison' from any GNU archive site."
    rm -f y.tab.c y.tab.h
    if [ $# -ne 1 ]; then
        eval LASTARG="\${$#}"
        case "$LASTARG" in

```

```

*.y)
    SRCFILE=`echo "$LASTARG" | sed 's/y$/c/'`
    if [ -f "$SRCFILE" ]; then
        cp "$SRCFILE" y.tab.c
    fi
    SRCFILE=`echo "$LASTARG" | sed 's/y$/h/'`
    if [ -f "$SRCFILE" ]; then
        cp "$SRCFILE" y.tab.h
    fi
    ;;
esac
fi
if [ ! -f y.tab.h ]; then
    echo >y.tab.h
fi
if [ ! -f y.tab.c ]; then
    echo 'main() { return 0; }' >y.tab.c
fi
;;

lex|flex)
    echo 1>&2 "\
WARNING: `\$1' is missing on your system.  You should only need it if
you modified a `\.1' file.  You may need the `Flex' package
in order for those modifications to take effect.  You can get
`Flex' from any GNU archive site."
    rm -f lex.yy.c
    if [ $# -ne 1 ]; then
        eval LASTARG="\${$#}"
        case "$LASTARG" in
        *.l)
            SRCFILE=`echo "$LASTARG" | sed 's/l$/c/'`
            if [ -f "$SRCFILE" ]; then
                cp "$SRCFILE" lex.yy.c
            fi
            ;;
        esac
    fi
    if [ ! -f lex.yy.c ]; then
        echo 'main() { return 0; }' >lex.yy.c
    fi
    ;;

help2man)
    if test -z "$run" && ($1 --version) > /dev/null 2>&1; then
        # We have it, but it failed.
        exit 1
    fi

    echo 1>&2 "\
WARNING: `\$1' is missing on your system.  You should only need it if
you modified a dependency of a manual page.  You may need the
`Help2man' package in order for those modifications to take
effect.  You can get `Help2man' from any GNU archive site."

```

```

file=`echo "$*" | sed -n 's/.*-o \([^ ]*\).*/\1/p`
if test -z "$file"; then
  file=`echo "$*" | sed -n 's/.*--output=\([^ ]*\).*/\1/p`
fi
if [ -f "$file" ]; then
  touch $file
else
  test -z "$file" || exec >$file
  echo ".ab help2man is required to generate this page"
  exit 1
fi
;;

makeinfo)
  if test -z "$run" && (makeinfo --version) > /dev/null 2>&1; then
    # We have makeinfo, but it failed.
    exit 1
  fi

  echo 1>&2 "\
WARNING: `\$1' is missing on your system.  You should only need it if
you modified a `.texi' or `.texinfo' file, or any other file
indirectly affecting the aspect of the manual.  The spurious
call might also be the consequence of using a buggy `make'
(AIX,
  DU, IRIX).  You might want to install the `Texinfo' package or
the `GNU make' package.  Grab either from any GNU archive
site."
  file=`echo "$*" | sed -n 's/.*-o \([^ ]*\).*/\1/p`
  if test -z "$file"; then
    file=`echo "$*" | sed 's/.* \([^ ]*\) *$/\1/'`
    file=`sed -n '/^@setfilename/ { s/.* \([^ ]*\) *$/\1/; p; q; }'
$file`
  fi
  touch $file
  ;;

tar)
  shift
  if test -n "$run"; then
    echo 1>&2 "ERROR: `tar' requires --run"
    exit 1
  fi

  # We have already tried tar in the generic part.
  # Look for gnutar/gtar before invocation to avoid ugly error
  # messages.
  if (gnutar --version > /dev/null 2>&1); then
    gnutar "$@" && exit 0
  fi
  if (gtar --version > /dev/null 2>&1); then
    gtar "$@" && exit 0
  fi
fi

```

```

firstarg="$1"
if shift; then
  case "$firstarg" in
    *o*)
      firstarg=`echo "$firstarg" | sed s/o//`
      tar "$firstarg" "$@" && exit 0
      ;;
    esac
  case "$firstarg" in
    *h*)
      firstarg=`echo "$firstarg" | sed s/h//`
      tar "$firstarg" "$@" && exit 0
      ;;
    esac
  fi

  echo 1>&2 "\
WARNING: I can't seem to be able to run `tar' with the given arguments.
  You may want to install GNU tar or Free paxutils, or check the
  command line arguments."
  exit 1
  ;;

*)
  echo 1>&2 "\
WARNING: `'$1' is needed, and you do not seem to have it handy on your
  system. You might have modified some files without having the
  proper tools for further handling them. Check the `README'
file,
  it often tells you about the needed prerequisites for
installing
  this package. You may also peek at any GNU archive site, in
case
  some other package would contain this missing `'$1' program."
  exit 1
  ;;
esac

exit 0

```

## **mkinstalldirs**

```

#!/bin/sh
# mkinstalldirs --- make directory hierarchy
# Author: Noah Friedman <friedman@prep.ai.mit.edu>
# Created: 1993-05-16
# Public domain

errstatus=0
dirmode=""

usage="\
Usage: mkinstalldirs [-h] [--help] [-m mode] dir ..."

```

```

# process command line arguments
while test $# -gt 0 ; do
  case "${1}" in
    -h | --help | --h* )           # -h for help
      echo "${usage}" 1>&2; exit 0 ;;
    -m )                             # -m PERM arg
      shift
      test $# -eq 0 && { echo "${usage}" 1>&2; exit 1; }
      dirmode="${1}"
      shift ;;
    -- ) shift; break ;;           # stop option processing
    -* ) echo "${usage}" 1>&2; exit 1 ;; # unknown option
    * ) break ;;                   # first non-opt arg
  esac
done

for file
do
  if test -d "$file"; then
    shift
  else
    break
  fi
done

case $# in
0) exit 0 ;;
esac

case $dirmode in
'')
  if mkdir -p -- . 2>/dev/null; then
    echo "mkdir -p -- $"
    exec mkdir -p -- "$@"
  fi ;;
*)
  if mkdir -m "$dirmode" -p -- . 2>/dev/null; then
    echo "mkdir -m $dirmode -p -- $"
    exec mkdir -m "$dirmode" -p -- "$@"
  fi ;;
esac

for file
do
  set fnord `echo ":$file" | sed -ne 's/^\:\/\#//;s/^\:\/\//;s/\/\//
/g;s/^\#\//;p'`
  shift

  pathcomp=
  for d
  do
    pathcomp="$pathcomp$d"
    case "$pathcomp" in

```



```

    -* ) pathcomp=./$pathcomp ;;
esac

if test ! -d "$pathcomp"; then
    echo "mkdir $pathcomp"

    mkdir "$pathcomp" || lasterr=$?

    if test ! -d "$pathcomp"; then
        errstatus=$lasterr
    else
        if test ! -z "$dirmode"; then
            echo "chmod $dirmode $pathcomp"

            lasterr=""
            chmod "$dirmode" "$pathcomp" || lasterr=$?

            if test ! -z "$lasterr"; then
                errstatus=$lasterr
            fi
        fi
    fi

    pathcomp="$pathcomp/"
done
done

exit $errstatus

# Local Variables:
# mode: shell-script
# sh-indentation: 3
# End:
# mkinstalldirs ends here

```

## NEWS

### Version History:

-----

- 1.2.0 - Released September 13, 2004
  - \* Added `dlist_sort_custom()` (Thanks to Eric Bohm)
  - \* Some minor bug fixes.
- 1.1.0 - Released March 31, 2004
  - \* Added changes for C++ compatibility (Thanks to Lev Makhlis)
  - \* Patched `configure.ac` not to check for installed headers
  - \* Fixed SEGV in `dlist.c` (Thanks to Dr. Hannes Reinecke)
  - \* Added security audits in library.
- 1.0.0 - Released February 24, 2004
  - \* Libsysfs now ships with a comprehensive testsuite.

- \* List elements are now maintained in sorted order.
- \* Updated systool for better output and removed lsbu from the package.
- \* Populated sysfs\_device->drivename field correctly. If device does not have a driver, field reflects "unknown".
- \* Added additional CFLAGS while building the package.

#### 0.4.0 - Released December 18, 2003

- \* Lots of optimizations. Structure elements that are dlists or structs themselves are not populated by default.
- \* Provided APIs for applications to obtain dlists and structure elements.
- \* Modified API prototypes to be more meaningful.
- \* Included manpages for systool and lsbu.
- \* Added support functions to obtain "parent" of sysfs\_device and sysfs\_class\_device.
- \* Modified Makefile.am to make use of Libtool's versioning facility.

#### 0.3.0 - Released November 6, 2003

- \* Added support to build shared library
- \* Added patch to consider "block" as a class
- \* Corrected "write" attribute functions
- \* Added more "find/open" functions
- \* Added pci name decode support
- \* Added "test" functions to demonstrate API usage
- \* Lots of other updates resulting from user feedback

#### 0.2.0 - Released August 29, 2003

- \* Added autoconf configuration support.
- \* Added Eric J Bohm's dlist patch.
- \* Changed the library structures and routines to use dlists.
- \* Added Guo Min's sysfs\_write\_attribute patch
- \* Added sysfs\_root\_device for use with /sys/devices subsystem
- \* Added lots of "find"/utility functions.
- \* Modified commands to make use of new API.
- \* Added functions to get lists of specific subsystems.

#### 0.1.1 - Released August 1, 2003

- \* Created NEWS file for Version History.
- \* Added device reference in sysfs\_driver.
- \* Added parent reference in sysfs\_device.
- \* Applied Lev Makhlis' code cleanup patch.
- \* Removed "-t" option.
- \* Added binary attribute support.
- \* Changed sysfs\_dlink to generic sysfs\_link and removed sysfs\_read\_dlinks function.
- \* Changed sysutils to sysfsutils

#### 0.1.0 - Released June 30, 2003

## **README**

## Sysfs Utilities Package - Includes Libsysfs(v. 2.1.0)

=====

### Contents

-----

1. Introduction
2. How to Install
  - 2.1 Caveats/Known issues
3. Licenses
4. Reporting Bugs

### 1. Introduction

-----

This package's purpose is to provide a set of utilities for interfacing with sysfs, a virtual filesystem in Linux kernel versions 2.5+ that provides a tree of system devices. While a filesystem is a very useful interface, we've decided to provide a stable programming interface that will hopefully make it easier for applications to query system devices and their attributes.

This package currently includes:

- libsysfs: a library for accessing system devices.
- systool: an application to view system device information by bus, class, and topology.
- A number of example usage routines in the "test" directory.
- A comprehensive testsuite, also shipped as part of the "test" directory. This testsuite can be used to test all the APIs exported by Libsysfs. Please refer the libsysfs.txt file in the "docs" directory for details as to how to use the testsuite.

### 2. How to Install

-----

Run the "configure" script to generate Makefiles. Use "make" to build the library and utilities.

For a successful install, run "make install" as super-user. "make uninstall" will clean up all installed files.

### 3. Licenses

-----

The commands and tests are licensed under the GNU Public License (GPL)

Version2, June 1991. The full text of the GPL is located in this package's "cmd" directory:

sysfsutils/cmd/GPL

The library is licensed under the GNU Lesser Public License (LGPL) Version 2.1, February 1999. The full text of the LGPL is located in this package's "lib" directory:

sysfsutils/lib/LGPL

#### 4. Reporting Bugs

-----

Please direct all bugs to either the linux-diag mailing list - linux-diag-devel@lists.sourceforge.net - or to the authors:

Ananth Mavinakayanahalli <ananth@in.ibm.com>  
Daniel Stekloff <dsteklof@us.ibm.com>  
Mohan Kumar <mohan@in.ibm.com>

### **systool.1**

```
.TH SYSTOOL 1 "October 12, 2003" "Martin Pitt"
.SH NAME
systool \- view system device information by bus, class, and topology

.SH SYNOPSIS
.B systool
[\fIoptions \fR[\fIdevice\fR]]

.SH DESCRIPTION
Calling
.B systool
without parameters will present all available bus types, device
classes, and root devices.
.P
When
.I device
is supplied, the information requested by
.I options
is shown only for the specified device, otherwise all present devices
are displayed.
.P
.B systool
uses APIs provided by
.B libsysfs
to gather information.
.B systool
runs only on Linux systems running kernels 2.5 or later, with the sysfs
filesystem mounted.
```

```

.SH OPTIONS
.TP
.B \-a
Show attributes of the requested resource
.TP
.B \-b \fIbus
Show information for a specific bus
.TP
.B \-c \fIclass
Show information for a specific class
.TP
.B \-d
Show only devices
.TP
.B \-h
Show usage
.TP
.B \-m \fImodule_name
Show information for a specific module
.TP
.B \-p
Show absolute sysfs path to the resource
.TP
.B \-v
Show all attributes with values
.TP
.B \-A \fIattribute
Show attribute value for the requested resource
.TP
.B \-D
Show only drivers
.TP
.B \-P
Show device's parent

```

## .SH SEE ALSO

```

.P
The web page of
.B libsysfs
at http://linux\-diag.sourceforge.net/Sysfsutils.html

```

## .SH AUTHOR

```

.B systool
was written by Ananth Mavinakayanahalli <ananth@in.ibm.com> and
Daniel Stekloff <dsteklof@us.ibm.com>.

```

```

.P
This man page was contributed by Martin Pitt <mpitt@debian.org> for
the Debian GNU/Linux system (but may be used by others).

```

## TODO

Library:

-----  
- Rework debugging error messages and look into better logging on error.

Commands:

-----  
- Add topology tree view.

Documentation:

-----  
- Update/improve documentation.

## sysfsutils-2.1.0\include

### dlist.h

```
/*
 * dlist.h
 *
 * Copyright (C) 2003 Eric J Bohm
 *
 * This library is free software; you can redistribute it and/or
 * modify it under the terms of the GNU Lesser General Public
 * License as published by the Free Software Foundation; either
 * version 2.1 of the License, or (at your option) any later version.
 *
 * This library is distributed in the hope that it will be useful,
 * but WITHOUT ANY WARRANTY; without even the implied warranty of
 * MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
 * Lesser General Public License for more details.
 *
 * You should have received a copy of the GNU Lesser General Public
 * License along with this library; if not, write to the Free Software
 * Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307
 * USA
 */
#ifdef _DLIST_H_
#define _DLIST_H_

/* Double linked list header.

 * navigate your list with DLIST_PREV and DLIST_NEXT. These are macros
 * so function call overhead is minimized.

 * Supports perl style push, pop, shift, unshift list semantics.

 * You allocate the data and give dlist the pointer. If your data is
 * complex set the dlist->del_func to a an appropriate delete using
 * dlist_new_with_delete. Your delete function must match
 (void *) (del(void *))
 *Otherwise dlist will just use free.
```

```

* NOTE: The small amount of pain involved in doing that allows us to
* avoid copy in copy out semantics.

* Dlist uses an internal mark pointer to keep track of where you are
* in the list.

* insert and delete take a directional parameter. Where direction
* corresponds to the direction in which you want the list to go.
* true direction corresponded to progressing forward in the list
* false to regressing in the list.
* so a dlist_insert(yourlist,item,1) will insert it after the mark
* so a dlist_insert(yourlist,item,0) will insert it before the mark
* any insert will move the mark to the new node regardless of the
direction.

* Just use the dlist_(insert|delete)_(before|after) macros if you do not
want
* to think about it.

*/

#include <stddef.h>

typedef struct dl_node {
    struct dl_node *prev;
    struct dl_node *next;
    void *data;
} DL_node;

typedef struct dlist {
    DL_node *marker;
    unsigned long count;
    size_t data_size;
    void (*del_func)(void *);
    DL_node headnode;
    DL_node *head;
} Dlist;

#ifdef __cplusplus
extern "C" {
#endif

Dlist *dlist_new(size_t datasize);
Dlist *dlist_new_with_delete(size_t datasize,void (*del_func)(void*));
void *dlist_mark_move(Dlist *list,int direction);
void *dlist_mark(Dlist *);
void dlist_start(Dlist *);
void dlist_end(Dlist *);
void dlist_move(struct dlist *source, struct dlist *dest, struct dl_node
*target,int direction);
void *dlist_insert(Dlist *,void *,int) ;

```

```

void *dlist_insert_sorted(struct dlist *list, void *new_elem, int
(*sorter)(void *, void *));

void dlist_delete(Dlist *,int);

void dlist_push(Dlist *,void *);

void dlist_unshift(Dlist *,void *);
void dlist_unshift_sorted(Dlist *,void *,int (*sorter)(void *, void *));

void *dlist_pop(Dlist *);

void *dlist_shift(Dlist *);

void dlist_destroy(Dlist *);

int _dlist_merge(struct dlist *listsource, struct dlist *listdest,
unsigned int passcount, int (*compare)(void *, void *));

void *dlist_find_custom(struct dlist *list, void *target, int
(*comp)(void *, void *));

void dlist_sort_custom(struct dlist *list, int (*compare)(void *, void
*));

void dlist_filter_sort(struct dlist *list, int (*filter)(void *),
int (*compare)(void *, void *));

void _dlist_swap(struct dlist *list, struct dl_node *a, struct dl_node
*b);

void dlist_transform(struct dlist *list, void (*node_operation)(void *));

/*
 * _dlist_remove is for internal use only
 * _dlist_mark_move is for internal use only
 */
void *_dlist_remove(struct dlist *,struct dl_node *,int );
void *_dlist_insert_dlnode(struct dlist *list,struct dl_node
*new_node,int direction);

#define dlist_prev(A) _dlist_mark_move((A),0)
#define dlist_next(A) _dlist_mark_move((A),1)

#define dlist_insert_before(A,B) dlist_insert((A),(B),0)
#define dlist_insert_after(A,B) dlist_insert((A),(B),1)

#define dlist_delete_before(A) dlist_delete((A),0)
#define dlist_delete_after(A) dlist_delete((A),1)

/**
 * provide for loop header which iterates the mark from start to end
 * list: the dlist pointer, use dlist_mark(list) to get iterator

```



```

*/
#define dlist_for_each(list) \
    for(dlist_start(list),dlist_next(list); \
        (list)->marker!=(list)->head;dlist_next(list))

/**
 * provide for loop header which iterates the mark from end to start
 * list: the dlist pointer, use dlist_mark(list) to get iterator
 */
#define dlist_for_each_rev(list) \
    for(dlist_end(list),dlist_prev(list); \
        (list)->marker!=(list)->head;dlist_prev(list))

/**
 * provide for loop header which iterates through the list without moving
mark
 * list: the dlist_pointer
 * iterator: dl_node pointer to iterate
 */
#define dlist_for_each_nomark(list,iterator) \
    for((iterator)=(list)->head->next; (iterator)!= (list)->head; \
        (iterator)=(iterator)->next)

/**
 * provide for loop header which iterates through the list without moving
mark
 * in reverse
 * list: the dlist_pointer
 * iterator: dl_node pointer to iterate
 */
#define dlist_for_each_nomark_rev(list,iterator) \
    for((iterator)=(list)->head->prev; (iterator)!= (list)->head; \
        (iterator)=(iterator)->prev)

/**
 * provide for loop header which iterates through the list providing a
 * data iterator
 * list: the dlist pointer
 * data_iterator: the pointer of type datatype to iterate
 * datatype: actual type of the contents in the dl_node->data
 */

#define dlist_for_each_data(list,data_iterator,datatype) \
    for(dlist_start(list), (data_iterator)=(datatype *)
dlist_next(list); \
        (list)->marker!=(list)->head;(data_iterator)=(datatype *)
dlist_next(list))

/**
 * provide for loop header which iterates through the list providing a
 * data iterator in reverse
 * list: the dlist pointer
 * data_iterator: the pointer of type datatype to iterate
 * datatype: actual type of the contents in the dl_node->data
 */

```

```

#define dlist_for_each_data_rev(list,data_iterator,datatype) \
    for(dlist_end(list), (data_iterator)=(datatype *) dlist_prev(list); \
        (list)->marker!=(list)->head;(data_iterator)=(datatype *) \
dlist_prev(list))

/**
 * provide for loop header which iterates through the list providing a
 * data iterator without moving the mark
 * list: the dlist pointer
 * iterator: the dl_node pointer to iterate
 * data_iterator: the pointer of type datatype to iterate
 * datatype: actual type of the contents in the dl_node->data
 */

#define dlist_for_each_data_nomark(list,iterator,data_iterator,datatype)
\
    for((iterator)=(list)->head->next, (data_iterator)=(datatype *)
(iterator)->data; \
        (iterator)!=((list)->head);(iterator)=(iterator)-
>next,(data_iterator)=(datatype *) (iterator))

/**
 * provide for loop header which iterates through the list providing a
 * data iterator in reverse without moving the mark
 * list: the dlist pointer
 * iterator: the dl_node pointer to iterate
 * data_iterator: the pointer of type datatype to iterate
 * datatype: actual type of the contents in the dl_node->data
 */
#define dlist_for_each_data_nomark_rev(list,iterator,
data_iterator,datatype) \
    for((iterator)=(list)->head->prev, (data_iterator)=(datatype *)
(iterator)->data; \
        (iterator)!=((list)->head);(iterator)=(iterator)-
>prev,(data_iterator)=(datatype *) (iterator))

#ifdef __cplusplus
}
#endif

#endif /* _DLIST_H_ */

```

## libsysfs.h

```

/*
 * libsysfs.h
 *
 * Header Definitions for libsysfs
 *
 * Copyright (C) IBM Corp. 2004-2005
 */

```

```

* This library is free software; you can redistribute it and/or
* modify it under the terms of the GNU Lesser General Public
* License as published by the Free Software Foundation; either
* version 2.1 of the License, or (at your option) any later version.
*
* This library is distributed in the hope that it will be useful,
* but WITHOUT ANY WARRANTY; without even the implied warranty of
* MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
* Lesser General Public License for more details.
*
* You should have received a copy of the GNU Lesser General Public
* License along with this library; if not, write to the Free Software
* Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307
USA
*
*/
#ifndef _LIBSYSFS_H_
#define _LIBSYSFS_H_

#include <sys/types.h>
#include <string.h>
#include "dlist.h"

#define SYSFS_FSTYPE_NAME      "sysfs"
#define SYSFS_PROC_MNTS      "/proc/mounts"
#define SYSFS_BUS_NAME      "bus"
#define SYSFS_CLASS_NAME      "class"
#define SYSFS_BLOCK_NAME      "block"
#define SYSFS_DEVICES_NAME      "devices"
#define SYSFS_DRIVERS_NAME      "drivers"
#define SYSFS_MODULE_NAME      "module"
#define SYSFS_NAME_ATTRIBUTE      "name"
#define SYSFS_MOD_PARM_NAME      "parameters"
#define SYSFS_MOD_SECT_NAME      "sections"
#define SYSFS_UNKNOWN      "unknown"
#define SYSFS_PATH_ENV      "SYSFS_PATH"

#define SYSFS_PATH_MAX      256
#define SYSFS_NAME_LEN      64
#define SYSFS_BUS_ID_SIZE      32

/* mount path for sysfs, can be overridden by exporting SYSFS_PATH */
#define SYSFS_MNT_PATH      "/sys"

enum sysfs_attribute_method {
    SYSFS_METHOD_SHOW = 0x01, /* attr can be read by user */
    SYSFS_METHOD_STORE = 0x02, /* attr can be changed by user */
};

/*
* NOTE:
* 1. We have the statically allocated "name" as the first element of all
* the structures. This feature is used in the "sorter" function for
dlists

```

```

* 2. As is the case with attrlist
* 3. As is the case with path
*/
struct sysfs_attribute {
    char name[SYSFS_NAME_LEN];
    char path[SYSFS_PATH_MAX];
    char *value;
    unsigned short len;                /* value length */
    enum sysfs_attribute_method method; /* show and store */
};

struct sysfs_driver {
    char name[SYSFS_NAME_LEN];
    char path[SYSFS_PATH_MAX];
    struct dlist *attrlist;
    char bus[SYSFS_NAME_LEN];

    /* Private: for internal use only */
    struct sysfs_module *module;
    struct dlist *devices;
};

struct sysfs_device {
    char name[SYSFS_NAME_LEN];
    char path[SYSFS_PATH_MAX];
    struct dlist *attrlist;
    char bus_id[SYSFS_NAME_LEN];
    char bus[SYSFS_NAME_LEN];
    char driver_name[SYSFS_NAME_LEN];
    char subsystem[SYSFS_NAME_LEN];

    /* Private: for internal use only */
    struct sysfs_device *parent;
    /* NOTE - we still don't populate this */
    struct dlist *children;
};

struct sysfs_bus {
    char name[SYSFS_NAME_LEN];
    char path[SYSFS_PATH_MAX];
    struct dlist *attrlist;

    /* Private: for internal use only */
    struct dlist *drivers;
    struct dlist *devices;
};

struct sysfs_class_device {
    char name[SYSFS_NAME_LEN];
    char path[SYSFS_PATH_MAX];
    struct dlist *attrlist;
    char classname[SYSFS_NAME_LEN];

    /* Private: for internal use only */

```

```

    struct sysfs_class_device *parent;
    struct sysfs_device *sysdevice;          /* NULL if virtual */
};

struct sysfs_class {
    char name[SYSFS_NAME_LEN];
    char path[SYSFS_PATH_MAX];
    struct dlist *attrlist;

    /* Private: for internal use only */
    struct dlist *devices;
};

struct sysfs_module {
    char name[SYSFS_NAME_LEN];
    char path[SYSFS_PATH_MAX];
    struct dlist *attrlist;
    struct dlist *parmlist;
    struct dlist *sections;
};

#ifdef __cplusplus
extern "C" {
#endif

/*
 * Function Prototypes
 */
extern int sysfs_get_mnt_path(char *mnt_path, size_t len);
extern int sysfs_remove_trailing_slash(char *path);
extern int sysfs_get_name_from_path(const char *path, char *name, size_t
len);
extern int sysfs_path_is_dir(const char *path);
extern int sysfs_path_is_link(const char *path);
extern int sysfs_path_is_file(const char *path);
extern int sysfs_get_link(const char *path, char *target, size_t len);
extern struct dlist *sysfs_open_directory_list(const char *path);
extern struct dlist *sysfs_open_link_list(const char *path);
extern void sysfs_close_list(struct dlist *list);

/* sysfs directory and file access */
extern void sysfs_close_attribute(struct sysfs_attribute *sysattr);
extern struct sysfs_attribute *sysfs_open_attribute(const char *path);
extern int sysfs_read_attribute(struct sysfs_attribute *sysattr);
extern int sysfs_write_attribute(struct sysfs_attribute *sysattr,
    const char *new_value, size_t len);
extern struct sysfs_device *sysfs_read_dir_subdirs(const char *path);
/* sysfs driver access */
extern void sysfs_close_driver(struct sysfs_driver *driver);
extern struct sysfs_driver *sysfs_open_driver
    (const char *bus_name, const char *drv_name);
extern struct sysfs_driver *sysfs_open_driver_path(const char *path);
extern struct sysfs_attribute *sysfs_get_driver_attr
    (struct sysfs_driver *drv, const char *name);

```

```

extern struct dlist *sysfs_get_driver_attributes(struct sysfs_driver
*drv);
extern struct dlist *sysfs_get_driver_devices(struct sysfs_driver *drv);
extern struct sysfs_module *sysfs_get_driver_module(struct sysfs_driver
*drv);

/* generic sysfs device access */
extern void sysfs_close_device_tree(struct sysfs_device *device);
extern struct sysfs_device *sysfs_open_device_tree(const char *path);
extern void sysfs_close_device(struct sysfs_device *dev);
extern struct sysfs_device *sysfs_open_device
(const char *bus, const char *bus_id);
extern struct sysfs_device *sysfs_get_device_parent(struct sysfs_device
*dev);
extern struct sysfs_device *sysfs_open_device_path(const char *path);
extern int sysfs_get_device_bus(struct sysfs_device *dev);
extern struct sysfs_attribute *sysfs_get_device_attr
(struct sysfs_device *dev, const char *name);
extern struct dlist *sysfs_get_device_attributes
(struct sysfs_device *dev);

/* generic sysfs class access */
extern void sysfs_close_class_device(struct sysfs_class_device *dev);
extern struct sysfs_class_device *sysfs_open_class_device_path
(const char *path);
extern struct sysfs_class_device *sysfs_open_class_device
(const char *classname, const char *name);
extern struct sysfs_class_device *sysfs_get_classdev_parent
(struct sysfs_class_device *clsdev);
extern struct sysfs_attribute *sysfs_get_classdev_attr
(struct sysfs_class_device *clsdev, const char *name);
extern struct dlist *sysfs_get_classdev_attributes
(struct sysfs_class_device *clsdev);
extern struct sysfs_device *sysfs_get_classdev_device
(struct sysfs_class_device *clsdev);
extern void sysfs_close_class(struct sysfs_class *cls);
extern struct sysfs_class *sysfs_open_class(const char *name);
extern struct sysfs_class_device *sysfs_get_class_device
(struct sysfs_class *cls, const char *name);
extern struct dlist *sysfs_get_class_devices(struct sysfs_class *cls);

/* generic sysfs bus access */
extern void sysfs_close_bus(struct sysfs_bus *bus);
extern struct sysfs_bus *sysfs_open_bus(const char *name);
extern struct dlist *sysfs_get_bus_devices(struct sysfs_bus *bus);
extern struct dlist *sysfs_get_bus_drivers(struct sysfs_bus *bus);
extern struct sysfs_device *sysfs_get_bus_device
(struct sysfs_bus *bus, const char *id);
extern struct sysfs_driver *sysfs_get_bus_driver
(struct sysfs_bus *bus, const char *drvname);

/* generic sysfs module access */
extern void sysfs_close_module(struct sysfs_module *module);
extern struct sysfs_module *sysfs_open_module_path(const char *path);

```

```

extern struct sysfs_module *sysfs_open_module(const char *name);
extern struct dlist *sysfs_get_module_parms(struct sysfs_module *module);
extern struct dlist *sysfs_get_module_sections(struct sysfs_module
*module);
extern struct dlist *sysfs_get_module_attributes(struct sysfs_module
*module);
extern struct sysfs_attribute *sysfs_get_module_attr
    (struct sysfs_module *module, const char *name);
extern struct sysfs_attribute *sysfs_get_module_parm
    (struct sysfs_module *module, const char *parm);
extern struct sysfs_attribute *sysfs_get_module_section
    (struct sysfs_module *module, const char *section);

/**
 * sort_list: sorter function to keep list elements sorted in
alphabetical
 * order. Just does a strcmp as you can see :)
 *
 * Returns 1 if less than 0 otherwise
 *
 * NOTE: We take care to have a statically allocated "name" as the first
 * element of all libsysfs structures. Hence, this function will work
 * AS IS for _ALL_ the lists that have to be sorted.
 */
static inline int sort_list(void *new_elem, void *old_elem)
{
    return ((strcmp(((struct sysfs_attribute *)new_elem)->name,
                    ((struct sysfs_attribute *)old_elem)->name,
                    strlen(((struct sysfs_attribute *)new_elem)->name))) < 0 ? 1
: 0);
}

#ifdef __cplusplus
}
#endif

#endif /* _LIBSYSFS_H_ */

```

## sysfsutils-2.1.0\include\CVS

### Entries

```

/dlist.h/1.2.2.4/Mon Aug 7 05:08:01 2006//Tsysfsutils-2_1_0
/libsysfs.h/1.2.2.9/Mon Aug 7 05:08:01 2006//Tsysfsutils-2_1_0
D

```

### Repository

sysfsutils/include

### Root

:ext:mohanltdc@linux-diag.cvs.sourceforge.net:/cvsroot/linux-diag

## Tag

Tsysfsutils-2\_1\_0

## sysfsutils-2.1.0\lib

### dlist.c

```
/*
 * dlist.c
 *
 * Copyright (C) 2003 Eric J Bohm
 *
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 * License along with this library; if not, write to the Free Software
 * Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 021110307
 * USA
 */

/* Double linked list implementation.

 * You allocate the data and give dlist the pointer.
 * If your data is complex set the dlist->del_func to a an appropriate
 * delete function. Otherwise dlist will just use free.

 */
#include <stdlib.h>
#include "dlist.h"

/*
 * Return pointer to node at marker.
 * else null if no nodes.
 */

inline void *dlist_mark(Dlist *list)
{
    if(list->marker!=NULL)
        return(list->marker->data);
    else
```



```

    return(NULL);
}

/*
 * Set marker to start.
 */

inline void dlist_start(Dlist *list)
{
    list->marker=list->head;
}

/*
 * Set marker to end.
 */

inline void dlist_end(Dlist *list)
{
    list->marker=list->head;
}

/* internal use function
 * quickie inline to consolidate the marker movement logic
 * in one place
 *
 * when direction true it moves marker after
 * when direction false it moves marker before.
 * return pointer to data at new marker
 * if nowhere to move the marker in desired direction return null
 */
inline void *_dlist_mark_move(Dlist *list,int direction)
{
    if(direction)
    {
        if( list->marker && list->marker->next!=NULL)
            list->marker=list->marker->next;
        else
            return(NULL);
    }
    else
    {
        if( list->marker && list->marker->prev!=NULL)
            list->marker=list->marker->prev;
        else
            return(NULL);
    }
    if(list->marker!=list->head)
        return(list->marker->data);
    else
        return(NULL);
}

/*
 * Create new linked list to store nodes of datasize.

```

```

* return null if list cannot be created.
*/
Dlist *dlist_new(size_t datasize)
{
    Dlist *list=NULL;
    if((list=malloc(sizeof(Dlist)))
        {
            list->marker=NULL;
            list->count=0L;
            list->data_size=datasize;
            list->del_func=free;
            list->head=&(list->headnode);
            list->head->prev=NULL;
            list->head->next=NULL;
            list->head->data=NULL;
        }
    return(list);
}

/*
* Create new linked list to store nodes of datasize set list
* data node delete function to the passed in del_func
* return null if list cannot be created.
*/
Dlist *dlist_new_with_delete(size_t datasize,void (*del_func)(void*))
{
    Dlist *list=NULL;
    list=dlist_new(datasize);
    if(list!=NULL)
        list->del_func=del_func;
    return(list);
}

/*
* remove marker node from list
* call data_delete function on data if registered.
* otherwise call free.
* when direction true it moves marker after
* when direction false it moves marker before.
* free marker node
* return nothing.
*/
void dlist_delete(Dlist *list,int direction)
{
    if((list->marker != list->head)&&(list->marker!=NULL))
        {
            DL_node *corpse;
            corpse=list->marker;
            _dlist_mark_move(list,direction);
            if(list->head->next==corpse)
                list->head->next=corpse->next;
            if(list->head->prev==corpse)
                list->head->prev=corpse->prev;
        }
}

```

```

        if(corpse->prev!=NULL) //should be impossible
corpse->prev->next=corpse->next;
        if(corpse->next!=NULL) //should be impossible
corpse->next->prev=corpse->prev;
        list->del_func(corpse->data);
        list->count--;
        free(corpse);
    }
}

/*
 * Insert node containing data at marker.
 * If direction true it inserts after.
 * If direction false it inserts before.
 * move marker to inserted node
 * return pointer to inserted node
 */
void *dlist_insert(Dlist *list,void *data,int direction)
{
    DL_node *new_node=NULL;
    if(list==NULL || data==NULL)
        return(NULL);
    if(list->marker==NULL) //in case the marker ends up unset
        list->marker=list->head;
    if((new_node=malloc(sizeof(DL_node)))
    {
        new_node->data=data;
        new_node->prev=NULL;
        new_node->next=NULL;
        list->count++;
        if(list->head->next==NULL) //no 1
        {
            list->head->next=list->head->prev=new_node;
            new_node->prev=list->head;
            new_node->next=list->head;
        }
        else if(direction)
        {
            new_node->next=list->marker->next;
            new_node->prev=list->marker;
            list->marker->next->prev=new_node;
            list->marker->next=new_node;
        }
        else
        {
            new_node->prev=list->marker->prev;
            new_node->next=list->marker;
            list->marker->prev->next=new_node;
            list->marker->prev=new_node;
        }
        list->marker=new_node;
    }
}
else
{

```

```

        return(NULL);
    }
    return(list->marker->data);
}

/* internal use only
 * Insert dl_node at marker.
 * If direction true it inserts after.
 * If direction false it inserts before.
 * move marker to inserted node
 * return pointer to inserted node
 */
void *_dlist_insert_dlnode(struct dlist *list,struct dl_node
*_new_node,int direction)
{
    if(list==NULL || new_node==NULL)
        return(NULL);
    if(list->marker==NULL) //in case the marker ends up unset
        list->marker=list->head;
    list->count++;
    if(list->head->next==NULL)
    {
        list->head->next=list->head->prev=new_node;
        new_node->prev=list->head;
        new_node->next=list->head;
    }
    else if(direction)
    {
        new_node->next=list->marker->next;
        new_node->prev=list->marker;
        list->marker->next->prev=new_node;
        list->marker->next=new_node;
    }
    else
    {
        new_node->prev=list->marker->prev;
        new_node->next=list->marker;
        list->marker->prev->next=new_node;
        list->marker->prev=new_node;
    }
    list->marker=new_node;
    return(list->marker);
}

/*
 * Remove DL_node from list without deallocating data.
 * if marker == killme .
 * when direction true it moves marker after
 * when direction false it moves marker before.
 * to previous if there is no next.
 */
void *_dlist_remove(Dlist *list,DL_node *killme,int direction)

```

```

{
    if(killme!=NULL)
    {
        void *killer_data=killme->data;
        // take care of head and marker pointers.
        if(list->marker==killme)
            _dlist_mark_move(list,direction);
        if(killme ==list->head->next)
            list->head->next=killme->next;
        if(killme==list->head->prev)
            list->head->prev=killme->prev;
        // remove from list
        if(killme->prev !=NULL)
            killme->prev->next=killme->next;
        if(killme->next !=NULL)
            killme->next->prev=killme->prev;
        list->count--;
        free(killme);
        return(killer_data);
    }
    else
        return (NULL);
}

/*
 * move dl_node from source to dest
 * if marker == target .
 * when direction true it moves marker after
 * when direction false it moves marker before.
 * to previous if there is no next.
 */
void dlist_move(struct dlist *source, struct dlist *dest, struct dl_node
*target,int direction)
{
    if(target!=NULL)
    {
        if(target==source->head)
        {
            //not even going to try
        }
        else
        {
            // take care of head and marker pointers.
            if(source->marker==target)
                _dlist_mark_move(source,direction);
            if(target ==source->head->next)
                source->head->next=target->next;
            if(target==source->head->prev)
                source->head->prev=target->prev;
            // remove from list
            if(source->count==1)
            {
                target->prev=NULL;
            }
        }
    }
}

```

```

        target->next=NULL;
        source->head->next=NULL;
        source->head->prev=NULL;
    }
    else
    {
        if(target->prev !=NULL)
            target->prev->next=target->next;
        if(target->next !=NULL)
            target->next->prev=target->prev;
        target->prev=NULL;
        target->next=NULL;
    }
    source->count--;
    _dlist_insert_dlnode(dest,target,direction);
}
}

/*
 * Insert node containing data after end.
 */
void dlist_push(Dlist *list,void *data)
{
    list->marker=list->head->prev;
    dlist_insert(list,data,1);
}

/*
 * Insert node containing data at start.
 */

void dlist_unshift(Dlist *list,void *data)
{
    list->marker=list->head->next;
    dlist_insert(list,data,0);
}

void dlist_unshift_sorted(Dlist *list, void *data,
                          int (*sorter)(void *new_elem, void *old_elem))
{
    if (list->count == 0)
        dlist_unshift(list, data);
    else {
        list->marker=list->head->next;
        dlist_insert_sorted(list, data, sorter);
    }
}

/*
 * Remove end node from list.
 * Return pointer to data in removed node.

```

```

    * Null if no nodes.
    */

void *dlist_pop(Dlist *list)
{
    return(_dlist_remove(list,list->head->prev,0));
}

/*
 * Remove start node from list.
 * Return pointer to data in removed node.
 * Null if no nodes.
 */

void *dlist_shift(Dlist *list)
{
    return(_dlist_remove(list,list->head->next,1));
}

/*
 * destroy the list freeing all memory
 */

void dlist_destroy(Dlist *list)
{
    if(list !=NULL)
    {
        {
            dlist_start(list);
            dlist_next(list);
            while (dlist_mark(list)) {
                dlist_delete(list,1);
            }
            free(list);
        }
    }
}

/**
 * Return void pointer to list_data element matching comp function
criteria
 * else null
 * Does not move the marker.
 */

void *dlist_find_custom(struct dlist *list, void *target, int
(*comp)(void *, void *))
{
    /* test the comp function on each node */
    struct dl_node *nodepointer;
    dlist_for_each_nomark(list,nodepointer)
        if(comp(target,nodepointer->data))
            return(nodepointer->data);
    return(NULL);
}

```

```

}

/**
 * Apply the node_operation function to each data node in the list
 */
void dlist_transform(struct dlist *list, void (*node_operation)(void *))
{
    struct dl_node *nodepointer;
    dlist_for_each_nomark(list, nodepointer)
        node_operation(nodepointer->data);
}

/**
 * insert new into list in sorted order
 * sorter function in form int sorter(new, ith)
 *     must return 1 for when new should go before ith
 *     else 0
 * return pointer to inserted node
 * NOTE: assumes list is already sorted
 */
void *dlist_insert_sorted(struct dlist *list, void *new, int
(*sorter)(void *, void *))
{
    for(dlist_start(list), dlist_next(list); \
        list->marker != list->head && !sorter(new, list->marker-
>data); dlist_next(list));
    return(dlist_insert_before(list, new));
}

/*
 * NOTE: internal use only
 */
int _dlist_merge(struct dlist *listsource, struct dlist *listdest,
unsigned int passcount, int (*compare)(void *, void *))
{
    struct dl_node *l1head;
    struct dl_node *l2head;
    struct dl_node *target;
    unsigned int l1count=0;
    unsigned int l2count=0;
    unsigned int mergecount=0;
    while(listsource->count>0)
    {
        l1head=listsource->head->next;
        l2head=l1head;
        while((l1count<passcount) && (l2head != listsource->head))
        {
            l2head=l2head->next;
            l1count++;
        }
        // so now we have two lists to merge

        if(l2head == listsource->head)

```



```

{ // l2count
  l2count=0;
}
else
{
  l2count=passcount;
}
while(l1count>0 || l2count>0)
{
  mergecount++;
  if((l2count>0) && (l1count>0))
  {
    // we have things to merge
    int result=compare(l1head->data,l2head->data);
    if(result>0)
    {
      // move from l2
      target=l2head;
      l2head=l2head->next;
      dlist_move(listsource,listdest,target,1);
      l2count--;
      if(l2head==listsource->head)
        l2count=0;
    }
    else
    {
      // move from l1
      target=l1head;
      l1head=l1head->next;
      dlist_move(listsource,listdest,target,1);
      l1count--;
    }
  }
  else if(l1count>0)
  {
    // only have l1 to work with
    while(l1count>0)
    {
      target=l1head;
      l1head=l1head->next;
      dlist_move(listsource,listdest,target,1);
      l1count--;
    }
  }
  else if(l2count>0)
  {
    // only have l2 to work with
    while(l2count>0)
    {
      if(l2head==listsource->head)
      {
        l2count=0;
      }
      else

```

```

        {
            target=l2head;
            l2head=l2head->next;
            dlist_move(listsource,listdest,target,1);
            l2count--;
        }
    }
}
else
    { //nothing left and this should be unreachable
    }
}
}
return(mergecount);
}

/**
 * mergesort the list based on compare
 * compare function in form int sorter(void * a,void * b)
 *     must return >0 for a after b
 *     must return <0 for a before b
 *     else 0
 *
 * NOTE: mergesort changes the mark pointer
 */
void dlist_sort_custom(struct dlist *list, int (*compare)(void *, void
*))
{
    struct dlist *listsource, *listdest, *swap;
    struct dlist *templist;
    unsigned int passcount = 1;
    unsigned int mergecount = 1;

    if(list->count<2)
        return;

    dlist_start(list);
    templist = dlist_new(list->data_size);

    templist->del_func = list->del_func;

    // do nothing if there isn't anything to sort
    listsource = list;
    listdest = templist;
    while(mergecount>0)
    {
        mergecount=_dlist_merge(listsource, listdest, passcount,
compare);
        if(mergecount>1)
        {
            passcount=passcount*2;
            //start new pass
            swap=listsource;

```

```

        listsource=listdest;
        listdest=swap;
    }
}
// now put the input list pointers right
// list pointers = newlist pointers
// including the forward and next nodes prev and back pointers
if(list->count==0)
    { //copy
        list->marker = listdest->marker;
        list->count = listdest->count;
        list->data_size = listdest->data_size;
        list->del_func = listdest->del_func;
        list->head->prev = listdest->head->prev;
        list->head->next = listdest->head->next;
        list->head->data = listdest->head->data;
        list->head->next->prev=list->head;
        list->head->prev->next=list->head;
        templist->head->next=NULL;
        templist->head->prev=NULL;
        templist->count=0;
    }
else
    { // no need to copy

    }

dlist_destroy(templist);
}

/*
 * The dlist_filter_sort() function scans the list, calling
 * filter() on each list entry. Entries for which filter()
 * returns zero are discarded from the list. Then the list is
 * sorted using mergesort() with the comparison function compare()
 * and returned. If filter is NULL, all entries are selected.
 */
void dlist_filter_sort(struct dlist *list, int (*filter) (void *),
                      int (*compare) (void *, void *))
{
    struct dl_node *nodepointer,*temp;
    void *data;

    if(!list->count)
        return;

    /* if there is no filter function, directly sort all the entries */
    if (!filter)
        goto sort;

    /* filter the unwanted entries in the list */
    nodepointer = list->head->next;
    while(nodepointer!=list->head) {
        if (!filter(nodepointer->data)) {

```

```

        temp = nodepointer->next;
        data = _dlist_remove(list, nodepointer, 0);
        if(data)
            list->del_func(data);
        nodepointer = temp;
    }
    else
        nodepointer=nodepointer->next;
}

sort:
    /* sort out the entries */
    dlist_sort_custom(list, compare);
}

/* internal use function
   swaps elements a and b
   No sense in juggling node pointers when we can just swap the data
   pointers
*/

void _dlist_swap(struct dlist *list, struct dl_node *a, struct dl_node
*b)
{
    void *swap=a->data;
    a->data=b->data;
    b->data=swap;
}

```

## LGPL

GNU Lesser Public License  
Version 2.1, February 1999

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[This is the first released version of the Lesser GPL. It also  
counts  
as the successor of the GNU Library Public License, version 2,  
hence  
the version number 2.1.]

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use the library. A more frequent case is that a free library does the same

job as widely used non-free libraries. In this case, there is little to

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END OF TERMS AND CONDITIONS

## **Makefile.am**

```
lib_LTLIBRARIES = libsysfs.la
libsysfs_la_SOURCES = sysfs_utils.c sysfs_attr.c sysfs_class.c dlist.c \
    sysfs_device.c sysfs_driver.c sysfs_bus.c sysfs_module.c sysfs.h
INCLUDES = -I../include
libsysfs_la_LDFLAGS = -version-info 2:1:0
EXTRA_CFLAGS = @EXTRA_CLFAGS@
libsysfs_la_CFLAGS = -Wall -W -Wstrict-prototypes $(EXTRA_CLFAGS)
```

## **Makefile.in**

```
# Makefile.in generated by automake 1.9.6 from Makefile.am.
# @configure_input@

# Copyright (C) 1994, 1995, 1996, 1997, 1998, 1999, 2000, 2001, 2002,
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```

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```

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```

```
@SET_MAKE@
```

```
srcdir = @srcdir@  
top_srcdir = @top_srcdir@  
VPATH = @srcdir@  
pkgdatadir = $(datadir)/@PACKAGE@  
pkglibdir = $(libdir)/@PACKAGE@  
pkgincludedir = $(includedir)/@PACKAGE@  
top_builddir = ..  
am__cd = CDPATH="$${ZSH_VERSION+.}$(PATH_SEPARATOR)" && cd  
INSTALL = @INSTALL@  
install_sh_DATA = $(install_sh) -c -m 644  
install_sh_PROGRAM = $(install_sh) -c  
install_sh_SCRIPT = $(install_sh) -c  
INSTALL_HEADER = $(INSTALL_DATA)  
transform = $(program_transform_name)  
NORMAL_INSTALL = :  
PRE_INSTALL = :  
POST_INSTALL = :  
NORMAL_UNINSTALL = :  
PRE_UNINSTALL = :  
POST_UNINSTALL = :  
build_triplet = @build@  
host_triplet = @host@  
subdir = lib  
DIST_COMMON = $(srcdir)/Makefile.am $(srcdir)/Makefile.in  
ACLOCAL_M4 = $(top_srcdir)/aclocal.m4  
am__aclocal_m4_deps = $(top_srcdir)/m4/klibc.m4 \  
    $(top_srcdir)/configure.ac  
am__configure_deps = $(am__aclocal_m4_deps) $(CONFIGURE_DEPENDENCIES) \  
    $(ACLOCAL_M4)  
mkinstalldirs = $(SHELL) $(top_srcdir)/mkinstalldirs  
CONFIG_HEADER = $(top_builddir)/config.h  
CONFIG_CLEAN_FILES =  
am__vpath_adj_setup = srcdirstrip=`echo "$(srcdir)" | sed 's|.|.|g|`;  
am__vpath_adj = case $$p in \  
    $(srcdir)/*) f=`echo "$$p" | sed "s|^$$srcdirstrip/||"``; \  
    *) f=$$p;; \  
    esac;  
am__strip_dir = `echo $$p | sed -e 's|^.*//||'``;  
am__installdirs = "$(DESTDIR)$(libdir)"  
libLTLIBRARIES_INSTALL = $(INSTALL)  
LTLIBRARIES = $(lib_LTLIBRARIES)  
libsysfs_la_LIBADD =  
am_libsysfs_la_OBJECTS = libsysfs_la-sysfs_utils.lo \  
    libsysfs_la-sysfs_attr.lo libsysfs_la-sysfs_class.lo \  

```

```

    libsysfs_la-dlist.lo libsysfs_la-sysfs_device.lo \
    libsysfs_la-sysfs_driver.lo libsysfs_la-sysfs_bus.lo \
    libsysfs_la-sysfs_module.lo
libsysfs_la_OBJECTS = $(am_libsysfs_la_OBJECTS)
DEFAULT_INCLUDES = -I. -I$(srcdir) -I$(top_builddir)
depcomp = $(SHELL) $(top_srcdir)/depcomp
am__depfiles_maybe = depfiles
COMPILE = $(CC) $(DEFS) $(DEFAULT_INCLUDES) $(INCLUDES) $(AM_CPPFLAGS) \
    $(CPPFLAGS) $(AM_CFLAGS) $(CFLAGS)
LTCOMPILE = $(LIBTOOL) --tag=CC --mode=compile $(CC) $(DEFS) \
    $(DEFAULT_INCLUDES) $(INCLUDES) $(AM_CPPFLAGS) $(CPPFLAGS) \
    $(AM_CFLAGS) $(CFLAGS)
CCLD = $(CC)
LINK = $(LIBTOOL) --tag=CC --mode=link $(CCLD) $(AM_CFLAGS) $(CFLAGS) \
    $(AM_LDFLAGS) $(LDFLAGS) -o $@
SOURCES = $(libsysfs_la_SOURCES)
DIST_SOURCES = $(libsysfs_la_SOURCES)
ETAGS = etags
CTAGS = ctags
DISTFILES = $(DIST_COMMON) $(DIST_SOURCES) $(TEXINFOS) $(EXTRA_DIST)
ACLOCAL = @ACLOCAL@
AMDEP_FALSE = @AMDEP_FALSE@
AMDEP_TRUE = @AMDEP_TRUE@
AMTAR = @AMTAR@
AR = @AR@
AUTOCONF = @AUTOCONF@
AUTOHEADER = @AUTOHEADER@
AUTOMAKE = @AUTOMAKE@
AWK = @AWK@
CC = @CC@
CCDEPMODE = @CCDEPMODE@
CFLAGS = @CFLAGS@
CPP = @CPP@
CPPFLAGS = @CPPFLAGS@
CXX = @CXX@
CXXCPP = @CXXCPP@
CXXDEPMODE = @CXXDEPMODE@
CXXFLAGS = @CXXFLAGS@
CYGPATH_W = @CYGPATH_W@
DEFS = @DEFS@
DEPDIR = @DEPDIR@
ECHO = @ECHO@
ECHO_C = @ECHO_C@
ECHO_N = @ECHO_N@
ECHO_T = @ECHO_T@
EGREP = @EGREP@
EXEEXT = @EXEEXT@
EXTRA_CFLAGS = @EXTRA_CFLAGS@
F77 = @F77@
FFLAGS = @FFLAGS@
INSTALL_DATA = @INSTALL_DATA@
INSTALL_PROGRAM = @INSTALL_PROGRAM@
INSTALL_SCRIPT = @INSTALL_SCRIPT@
INSTALL_STRIP_PROGRAM = @INSTALL_STRIP_PROGRAM@

```

```

KLCC = @KLCC@
KLIBC = @KLIBC@
KLIBC_FALSE = @KLIBC_FALSE@
KLIBC_TRUE = @KLIBC_TRUE@
LDFLAGS = @LDFLAGS@
LIBOBS = @LIBOBS@
LIBS = @LIBS@
LIBTOOL = @LIBTOOL@
LN_S = @LN_S@
LTLIBOBS = @LTLIBOBS@
MAKEINFO = @MAKEINFO@
OBJEXT = @OBJEXT@
PACKAGE = @PACKAGE@
PACKAGE_BUGREPORT = @PACKAGE_BUGREPORT@
PACKAGE_NAME = @PACKAGE_NAME@
PACKAGE_STRING = @PACKAGE_STRING@
PACKAGE_TARNAME = @PACKAGE_TARNAME@
PACKAGE_VERSION = @PACKAGE_VERSION@
PATH_SEPARATOR = @PATH_SEPARATOR@
RANLIB = @RANLIB@
SET_MAKE = @SET_MAKE@
SHELL = @SHELL@
STRIP = @STRIP@
VERSION = @VERSION@
ac_ct_AR = @ac_ct_AR@
ac_ct_CC = @ac_ct_CC@
ac_ct_CXX = @ac_ct_CXX@
ac_ct_F77 = @ac_ct_F77@
ac_ct_RANLIB = @ac_ct_RANLIB@
ac_ct_STRIP = @ac_ct_STRIP@
am__fastdepCC_FALSE = @am__fastdepCC_FALSE@
am__fastdepCC_TRUE = @am__fastdepCC_TRUE@
am__fastdepCXX_FALSE = @am__fastdepCXX_FALSE@
am__fastdepCXX_TRUE = @am__fastdepCXX_TRUE@
am__include = @am__include@
am__leading_dot = @am__leading_dot@
am__quote = @am__quote@
am__tar = @am__tar@
am__untar = @am__untar@
bindir = @bindir@
build = @build@
build_alias = @build_alias@
build_cpu = @build_cpu@
build_os = @build_os@
build_vendor = @build_vendor@
datadir = @datadir@
exec_prefix = @exec_prefix@
host = @host@
host_alias = @host_alias@
host_cpu = @host_cpu@
host_os = @host_os@
host_vendor = @host_vendor@
includedir = @includedir@
infodir = @infodir@

```

```

install_sh = @install_sh@
libdir = @libdir@
libexecdir = @libexecdir@
localstatedir = @localstatedir@
mandir = @mandir@
mkdir_p = @mkdir_p@
oldincludedir = @oldincludedir@
prefix = @prefix@
program_transform_name = @program_transform_name@
sbindir = @sbindir@
sharedstatedir = @sharedstatedir@
sysconfdir = @sysconfdir@
target_alias = @target_alias@
lib_LTLIBRARIES = libsysfs.la
libsysfs_la_SOURCES = sysfs_utils.c sysfs_attr.c sysfs_class.c dlist.c \
    sysfs_device.c sysfs_driver.c sysfs_bus.c sysfs_module.c sysfs.h

INCLUDES = -I../include
libsysfs_la_LDFLAGS = -version-info 2:1:0
libsysfs_la_CFLAGS = -Wall -W -Wstrict-prototypes $(EXTRA_CFLAGS)
all: all-am

.SUFFIXES:
.SUFFIXES: .c .lo .o .obj
$(srcdir)/Makefile.in: $(srcdir)/Makefile.am $(am__configure_deps)
    @for dep in $?; do \
        case '$(am__configure_deps)' in \
            *$dep*) \
                cd $(top_builddir) && $(MAKE) $(AM_MAKEFLAGS) am--refresh \
                && exit 0; \
                exit 1;; \
            *) \
                esac; \
        done; \
    echo ' cd $(top_srcdir) && $(AUTOMAKE) --gnu lib/Makefile'; \
    cd $(top_srcdir) && \
        $(AUTOMAKE) --gnu lib/Makefile
.PRECIOUS: Makefile
Makefile: $(srcdir)/Makefile.in $(top_builddir)/config.status
    @case '$?' in \
        *config.status*) \
            cd $(top_builddir) && $(MAKE) $(AM_MAKEFLAGS) am--refresh;; \
        *) \
            echo ' cd $(top_builddir) && $(SHELL) ./config.status \
$(subdir)/$@ $(am__depfiles_maybe)'; \
            cd $(top_builddir) && $(SHELL) ./config.status $(subdir)/$@ \
$(am__depfiles_maybe);; \
    esac;

$(top_builddir)/config.status: $(top_srcdir)/configure
$(CONFIG_STATUS_DEPENDENCIES)
    cd $(top_builddir) && $(MAKE) $(AM_MAKEFLAGS) am--refresh

$(top_srcdir)/configure: $(am__configure_deps)
    cd $(top_builddir) && $(MAKE) $(AM_MAKEFLAGS) am--refresh

```

```

$(ACLOCAL_M4): $(am__aclocal_m4_deps)
    cd $(top_builddir) && $(MAKE) $(AM_MAKEFLAGS) am--refresh
install-libLTLIBRARIES: $(lib_LTLIBRARIES)
    @$ (NORMAL_INSTALL)
    test -z "$(libdir)" || $(mkdir_p) "$(DESTDIR)$ (libdir)"
    @list='$(lib_LTLIBRARIES)'; for p in $$list; do \
        if test -f $$p; then \
            f=$(am__strip_dir) \
            echo " $(LIBTOOL) --mode=install $(libLTLIBRARIES_INSTALL)
$(INSTALL_STRIP_FLAG) '$$p' '$ (DESTDIR)$ (libdir)/$$f"; \
            $(LIBTOOL) --mode=install $(libLTLIBRARIES_INSTALL)
$(INSTALL_STRIP_FLAG) "$$p" "$ (DESTDIR)$ (libdir)/$$f"; \
        else ;; fi; \
    done

uninstall-libLTLIBRARIES:
    @$ (NORMAL_UNINSTALL)
    @set -x; list='$(lib_LTLIBRARIES)'; for p in $$list; do \
        p=$(am__strip_dir) \
        echo " $(LIBTOOL) --mode=uninstall rm -f
'$ (DESTDIR)$ (libdir)/$$p"; \
        $(LIBTOOL) --mode=uninstall rm -f "$ (DESTDIR)$ (libdir)/$$p"; \
    done

clean-libLTLIBRARIES:
    -test -z "$(lib_LTLIBRARIES)" || rm -f $(lib_LTLIBRARIES)
    @list='$(lib_LTLIBRARIES)'; for p in $$list; do \
        dir="`echo $$p | sed -e 's|/[^\/*]*$||'`; \
        test "$$dir" != "$$p" || dir=.; \
        echo "rm -f \"$$${dir}/so_locations\""; \
        rm -f "$$${dir}/so_locations"; \
    done

libsysfs_la: $(libsysfs_la_OBJECTS) $(libsysfs_la_DEPENDENCIES)
    $(LINK) -rpath $(libdir) $(libsysfs_la_LDFLAGS)
$(libsysfs_la_OBJECTS) $(libsysfs_la_LIBADD) $(LIBS)

mostlyclean-compile:
    -rm -f *.$ (OBJEXT)

distclean-compile:
    -rm -f *.tab.c

@AMDEP_TRUE@@am__include@ @am__quote@./$(DEPDIR)/libsysfs_la-
dlist.Plo@am__quote@
@AMDEP_TRUE@@am__include@ @am__quote@./$(DEPDIR)/libsysfs_la-
sysfs_attr.Plo@am__quote@
@AMDEP_TRUE@@am__include@ @am__quote@./$(DEPDIR)/libsysfs_la-
sysfs_bus.Plo@am__quote@
@AMDEP_TRUE@@am__include@ @am__quote@./$(DEPDIR)/libsysfs_la-
sysfs_class.Plo@am__quote@
@AMDEP_TRUE@@am__include@ @am__quote@./$(DEPDIR)/libsysfs_la-
sysfs_device.Plo@am__quote@
@AMDEP_TRUE@@am__include@ @am__quote@./$(DEPDIR)/libsysfs_la-
sysfs_driver.Plo@am__quote@

```

```

@AMDEP_TRUE@@am__include@ @am__quote@./$(DEPDIR)/libsysfs_la-
sysfs_module.Plo@am__quote@
@AMDEP_TRUE@@am__include@ @am__quote@./$(DEPDIR)/libsysfs_la-
sysfs_utils.Plo@am__quote@

.c.o:
@am__fastdepCC_TRUE@   if $(COMPILE) -MT $@ -MD -MP -MF
"$$(DEPDIR)/$*.Tpo" -c -o $@ $<; \
@am__fastdepCC_TRUE@   then mv -f "$$(DEPDIR)/$*.Tpo" "$$(DEPDIR)/$*.Po";
else rm -f "$$(DEPDIR)/$*.Tpo"; exit 1; fi
@AMDEP_TRUE@@am__fastdepCC_FALSE@ source='$<' object='$@' libtool=no
@AMDEPBACKSLASH@
@AMDEP_TRUE@@am__fastdepCC_FALSE@ DEPDIR=$(DEPDIR) $(CCDEPMODE)
$(depcomp) @AMDEPBACKSLASH@
@am__fastdepCC_FALSE@   $(COMPILE) -c $<

.c.obj:
@am__fastdepCC_TRUE@   if $(COMPILE) -MT $@ -MD -MP -MF
"$$(DEPDIR)/$*.Tpo" -c -o $@ `$(CYGPATH_W) '$<`; \
@am__fastdepCC_TRUE@   then mv -f "$$(DEPDIR)/$*.Tpo" "$$(DEPDIR)/$*.Po";
else rm -f "$$(DEPDIR)/$*.Tpo"; exit 1; fi
@AMDEP_TRUE@@am__fastdepCC_FALSE@ source='$<' object='$@' libtool=no
@AMDEPBACKSLASH@
@AMDEP_TRUE@@am__fastdepCC_FALSE@ DEPDIR=$(DEPDIR) $(CCDEPMODE)
$(depcomp) @AMDEPBACKSLASH@
@am__fastdepCC_FALSE@   $(COMPILE) -c `$(CYGPATH_W) '$<`

.c.lo:
@am__fastdepCC_TRUE@   if $(LTCOMPILE) -MT $@ -MD -MP -MF
"$$(DEPDIR)/$*.Tpo" -c -o $@ $<; \
@am__fastdepCC_TRUE@   then mv -f "$$(DEPDIR)/$*.Tpo" "$$(DEPDIR)/$*.Plo";
else rm -f "$$(DEPDIR)/$*.Tpo"; exit 1; fi
@AMDEP_TRUE@@am__fastdepCC_FALSE@ source='$<' object='$@' libtool=yes
@AMDEPBACKSLASH@
@AMDEP_TRUE@@am__fastdepCC_FALSE@ DEPDIR=$(DEPDIR) $(CCDEPMODE)
$(depcomp) @AMDEPBACKSLASH@
@am__fastdepCC_FALSE@   $(LTCOMPILE) -c -o $@ $<

libsysfs_la-sysfs_utils.lo: sysfs_utils.c
@am__fastdepCC_TRUE@   if $(LIBTOOL) --tag=CC --mode=compile $(CC)
$(DEFS) $(DEFAULT_INCLUDES) $(INCLUDES) $(AM_CPPFLAGS) $(CPPFLAGS)
$(libsysfs_la_CFLAGS) $(CFLAGS) -MT libsysfs_la-sysfs_utils.lo -MD -MP -
MF "$$(DEPDIR)/libsysfs_la-sysfs_utils.Tpo" -c -o libsysfs_la-
sysfs_utils.lo `test -f 'sysfs_utils.c' || echo
'$(srcdir)/`sysfs_utils.c; \
@am__fastdepCC_TRUE@   then mv -f "$$(DEPDIR)/libsysfs_la-sysfs_utils.Tpo"
"$$(DEPDIR)/libsysfs_la-sysfs_utils.Plo"; else rm -f
"$$(DEPDIR)/libsysfs_la-sysfs_utils.Tpo"; exit 1; fi
@AMDEP_TRUE@@am__fastdepCC_FALSE@ source='sysfs_utils.c'
object='libsysfs_la-sysfs_utils.lo' libtool=yes @AMDEPBACKSLASH@
@AMDEP_TRUE@@am__fastdepCC_FALSE@ DEPDIR=$(DEPDIR) $(CCDEPMODE)
$(depcomp) @AMDEPBACKSLASH@
@am__fastdepCC_FALSE@   $(LIBTOOL) --tag=CC --mode=compile $(CC) $(DEFS)
$(DEFAULT_INCLUDES) $(INCLUDES) $(AM_CPPFLAGS) $(CPPFLAGS)

```

```
$(libsysfs_la_CFLAGS) $(CFLAGS) -c -o libsysfs_la-sysfs_utils.lo `test -f
'sysfs_utils.c' || echo '$(srcdir)/`sysfs_utils.c
```

```
libsysfs_la-sysfs_attr.lo: sysfs_attr.c
@am__fastdepCC_TRUE@ if $(LIBTOOL) --tag=CC --mode=compile $(CC)
$(DEFS) $(DEFAULT_INCLUDES) $(INCLUDES) $(AM_CPPFLAGS) $(CPPFLAGS)
$(libsysfs_la_CFLAGS) $(CFLAGS) -MT libsysfs_la-sysfs_attr.lo -MD -MP -MF
"$(DEPDIR)/libsysfs_la-sysfs_attr.Tpo" -c -o libsysfs_la-sysfs_attr.lo
`test -f 'sysfs_attr.c' || echo '$(srcdir)/`sysfs_attr.c; \
@am__fastdepCC_TRUE@ then mv -f "$(DEPDIR)/libsysfs_la-sysfs_attr.Tpo"
"$(DEPDIR)/libsysfs_la-sysfs_attr.Plo"; else rm -f
"$(DEPDIR)/libsysfs_la-sysfs_attr.Tpo"; exit 1; fi
@AMDEP_TRUE@@am__fastdepCC_FALSE@ source='sysfs_attr.c'
object='libsysfs_la-sysfs_attr.lo' libtool=yes @AMDEPBACKSLASH@
@AMDEP_TRUE@@am__fastdepCC_FALSE@ DEPDIR=$(DEPDIR) $(CCDEPMODE)
$(depcomp) @AMDEPBACKSLASH@
@am__fastdepCC_FALSE@ $(LIBTOOL) --tag=CC --mode=compile $(CC) $(DEFS)
$(DEFAULT_INCLUDES) $(INCLUDES) $(AM_CPPFLAGS) $(CPPFLAGS)
$(libsysfs_la_CFLAGS) $(CFLAGS) -c -o libsysfs_la-sysfs_attr.lo `test -f
'sysfs_attr.c' || echo '$(srcdir)/`sysfs_attr.c
```

```
libsysfs_la-sysfs_class.lo: sysfs_class.c
@am__fastdepCC_TRUE@ if $(LIBTOOL) --tag=CC --mode=compile $(CC)
$(DEFS) $(DEFAULT_INCLUDES) $(INCLUDES) $(AM_CPPFLAGS) $(CPPFLAGS)
$(libsysfs_la_CFLAGS) $(CFLAGS) -MT libsysfs_la-sysfs_class.lo -MD -MP -
MF "$(DEPDIR)/libsysfs_la-sysfs_class.Tpo" -c -o libsysfs_la-
sysfs_class.lo `test -f 'sysfs_class.c' || echo
'$(srcdir)/`sysfs_class.c; \
@am__fastdepCC_TRUE@ then mv -f "$(DEPDIR)/libsysfs_la-sysfs_class.Tpo"
"$(DEPDIR)/libsysfs_la-sysfs_class.Plo"; else rm -f
"$(DEPDIR)/libsysfs_la-sysfs_class.Tpo"; exit 1; fi
@AMDEP_TRUE@@am__fastdepCC_FALSE@ source='sysfs_class.c'
object='libsysfs_la-sysfs_class.lo' libtool=yes @AMDEPBACKSLASH@
@AMDEP_TRUE@@am__fastdepCC_FALSE@ DEPDIR=$(DEPDIR) $(CCDEPMODE)
$(depcomp) @AMDEPBACKSLASH@
@am__fastdepCC_FALSE@ $(LIBTOOL) --tag=CC --mode=compile $(CC) $(DEFS)
$(DEFAULT_INCLUDES) $(INCLUDES) $(AM_CPPFLAGS) $(CPPFLAGS)
$(libsysfs_la_CFLAGS) $(CFLAGS) -c -o libsysfs_la-sysfs_class.lo `test -f
'sysfs_class.c' || echo '$(srcdir)/`sysfs_class.c
```

```
libsysfs_la-dlist.lo: dlist.c
@am__fastdepCC_TRUE@ if $(LIBTOOL) --tag=CC --mode=compile $(CC)
$(DEFS) $(DEFAULT_INCLUDES) $(INCLUDES) $(AM_CPPFLAGS) $(CPPFLAGS)
$(libsysfs_la_CFLAGS) $(CFLAGS) -MT libsysfs_la-dlist.lo -MD -MP -MF
"$(DEPDIR)/libsysfs_la-dlist.Tpo" -c -o libsysfs_la-dlist.lo `test -f
'dlist.c' || echo '$(srcdir)/`dlist.c; \
@am__fastdepCC_TRUE@ then mv -f "$(DEPDIR)/libsysfs_la-dlist.Tpo"
"$(DEPDIR)/libsysfs_la-dlist.Plo"; else rm -f "$(DEPDIR)/libsysfs_la-
dlist.Tpo"; exit 1; fi
@AMDEP_TRUE@@am__fastdepCC_FALSE@ source='dlist.c' object='libsysfs_la-
dlist.lo' libtool=yes @AMDEPBACKSLASH@
@AMDEP_TRUE@@am__fastdepCC_FALSE@ DEPDIR=$(DEPDIR) $(CCDEPMODE)
$(depcomp) @AMDEPBACKSLASH@
```



```
@am__fastdepCC_FALSE@ $(LIBTOOL) --tag=CC --mode=compile $(CC) $(DEFS)
$(DEFAULT_INCLUDES) $(INCLUDES) $(AM_CPPFLAGS) $(CPPFLAGS)
$(libsysfs_la_CFLAGS) $(CFLAGS) -c -o libsysfs_la-dlist.lo `test -f
'dlist.c' || echo '$(srcdir)/`dlist.c
```

```
libsysfs_la-sysfs_device.lo: sysfs_device.c
@am__fastdepCC_TRUE@ if $(LIBTOOL) --tag=CC --mode=compile $(CC)
$(DEFS) $(DEFAULT_INCLUDES) $(INCLUDES) $(AM_CPPFLAGS) $(CPPFLAGS)
$(libsysfs_la_CFLAGS) $(CFLAGS) -MT libsysfs_la-sysfs_device.lo -MD -MP -
MF "$$(DEPDIR)/libsysfs_la-sysfs_device.Tpo" -c -o libsysfs_la-
sysfs_device.lo `test -f 'sysfs_device.c' || echo
'$(srcdir)/`sysfs_device.c; \
@am__fastdepCC_TRUE@ then mv -f "$$(DEPDIR)/libsysfs_la-
sysfs_device.Tpo" "$$(DEPDIR)/libsysfs_la-sysfs_device.Plo"; else rm -f
"$$(DEPDIR)/libsysfs_la-sysfs_device.Tpo"; exit 1; fi
@AMDEP_TRUE@@am__fastdepCC_FALSE@ source='sysfs_device.c'
object='libsysfs_la-sysfs_device.lo' libtool=yes @AMDEPBACKSLASH@
@AMDEP_TRUE@@am__fastdepCC_FALSE@ DEPDIR=$(DEPDIR) $(CCDEPMODE)
$(depcomp) @AMDEPBACKSLASH@
@am__fastdepCC_FALSE@ $(LIBTOOL) --tag=CC --mode=compile $(CC) $(DEFS)
$(DEFAULT_INCLUDES) $(INCLUDES) $(AM_CPPFLAGS) $(CPPFLAGS)
$(libsysfs_la_CFLAGS) $(CFLAGS) -c -o libsysfs_la-sysfs_device.lo `test -
f 'sysfs_device.c' || echo '$(srcdir)/`sysfs_device.c
```

```
libsysfs_la-sysfs_driver.lo: sysfs_driver.c
@am__fastdepCC_TRUE@ if $(LIBTOOL) --tag=CC --mode=compile $(CC)
$(DEFS) $(DEFAULT_INCLUDES) $(INCLUDES) $(AM_CPPFLAGS) $(CPPFLAGS)
$(libsysfs_la_CFLAGS) $(CFLAGS) -MT libsysfs_la-sysfs_driver.lo -MD -MP -
MF "$$(DEPDIR)/libsysfs_la-sysfs_driver.Tpo" -c -o libsysfs_la-
sysfs_driver.lo `test -f 'sysfs_driver.c' || echo
'$(srcdir)/`sysfs_driver.c; \
@am__fastdepCC_TRUE@ then mv -f "$$(DEPDIR)/libsysfs_la-
sysfs_driver.Tpo" "$$(DEPDIR)/libsysfs_la-sysfs_driver.Plo"; else rm -f
"$$(DEPDIR)/libsysfs_la-sysfs_driver.Tpo"; exit 1; fi
@AMDEP_TRUE@@am__fastdepCC_FALSE@ source='sysfs_driver.c'
object='libsysfs_la-sysfs_driver.lo' libtool=yes @AMDEPBACKSLASH@
@AMDEP_TRUE@@am__fastdepCC_FALSE@ DEPDIR=$(DEPDIR) $(CCDEPMODE)
$(depcomp) @AMDEPBACKSLASH@
@am__fastdepCC_FALSE@ $(LIBTOOL) --tag=CC --mode=compile $(CC) $(DEFS)
$(DEFAULT_INCLUDES) $(INCLUDES) $(AM_CPPFLAGS) $(CPPFLAGS)
$(libsysfs_la_CFLAGS) $(CFLAGS) -c -o libsysfs_la-sysfs_driver.lo `test -
f 'sysfs_driver.c' || echo '$(srcdir)/`sysfs_driver.c
```

```
libsysfs_la-sysfs_bus.lo: sysfs_bus.c
@am__fastdepCC_TRUE@ if $(LIBTOOL) --tag=CC --mode=compile $(CC)
$(DEFS) $(DEFAULT_INCLUDES) $(INCLUDES) $(AM_CPPFLAGS) $(CPPFLAGS)
$(libsysfs_la_CFLAGS) $(CFLAGS) -MT libsysfs_la-sysfs_bus.lo -MD -MP -MF
"$$(DEPDIR)/libsysfs_la-sysfs_bus.Tpo" -c -o libsysfs_la-sysfs_bus.lo
`test -f 'sysfs_bus.c' || echo '$(srcdir)/`sysfs_bus.c; \
@am__fastdepCC_TRUE@ then mv -f "$$(DEPDIR)/libsysfs_la-sysfs_bus.Tpo"
"$$(DEPDIR)/libsysfs_la-sysfs_bus.Plo"; else rm -f "$$(DEPDIR)/libsysfs_la-
sysfs_bus.Tpo"; exit 1; fi
@AMDEP_TRUE@@am__fastdepCC_FALSE@ source='sysfs_bus.c'
object='libsysfs_la-sysfs_bus.lo' libtool=yes @AMDEPBACKSLASH@
```

```

@AMDEP_TRUE@@am__fastdepCC_FALSE@ DEPDIR=$(DEPDIR) $(CCDEPMODE)
$(depcomp) @AMDEPBACKSLASH@
@am__fastdepCC_FALSE@ $(LIBTOOL) --tag=CC --mode=compile $(CC) $(DEFS)
$(DEFAULT_INCLUDES) $(INCLUDES) $(AM_CPPFLAGS) $(CPPFLAGS)
$(libsysfs_la_CFLAGS) $(CFLAGS) -c -o libsysfs_la-sysfs_bus.lo `test -f
'sysfs_bus.c' || echo '$(srcdir)/'`sysfs_bus.c

libsysfs_la-sysfs_module.lo: sysfs_module.c
@am__fastdepCC_TRUE@ if $(LIBTOOL) --tag=CC --mode=compile $(CC)
$(DEFS) $(DEFAULT_INCLUDES) $(INCLUDES) $(AM_CPPFLAGS) $(CPPFLAGS)
$(libsysfs_la_CFLAGS) $(CFLAGS) -MT libsysfs_la-sysfs_module.lo -MD -MP -
MF "$$(DEPDIR)/libsysfs_la-sysfs_module.Tpo" -c -o libsysfs_la-
sysfs_module.lo `test -f 'sysfs_module.c' || echo
'$(srcdir)/'`sysfs_module.c; \
@am__fastdepCC_TRUE@ then mv -f "$$(DEPDIR)/libsysfs_la-
sysfs_module.Tpo" "$$(DEPDIR)/libsysfs_la-sysfs_module.Plo"; else rm -f
"$$(DEPDIR)/libsysfs_la-sysfs_module.Tpo"; exit 1; fi
@AMDEP_TRUE@@am__fastdepCC_FALSE@ source='sysfs_module.c'
object='libsysfs_la-sysfs_module.lo' libtool=yes @AMDEPBACKSLASH@
@AMDEP_TRUE@@am__fastdepCC_FALSE@ DEPDIR=$(DEPDIR) $(CCDEPMODE)
$(depcomp) @AMDEPBACKSLASH@
@am__fastdepCC_FALSE@ $(LIBTOOL) --tag=CC --mode=compile $(CC) $(DEFS)
$(DEFAULT_INCLUDES) $(INCLUDES) $(AM_CPPFLAGS) $(CPPFLAGS)
$(libsysfs_la_CFLAGS) $(CFLAGS) -c -o libsysfs_la-sysfs_module.lo `test -
f 'sysfs_module.c' || echo '$(srcdir)/'`sysfs_module.c

mostlyclean-libtool:
    -rm -f *.lo

clean-libtool:
    -rm -rf .libs _libs

distclean-libtool:
    -rm -f libtool

uninstall-info-am:

ID: $(HEADERS) $(SOURCES) $(LISP) $(TAGS_FILES)
    list='$(SOURCES) $(HEADERS) $(LISP) $(TAGS_FILES)'; \
    unique=`for i in $$list; do \
        if test -f "$$i"; then echo $$i; else echo $(srcdir)/$$i; fi; \
    done | \
    $(AWK) '    { files[$$0] = 1; } \
    END { for (i in files) print i; }`; \
    mkid -fID $$unique
tags: TAGS

TAGS: $(HEADERS) $(SOURCES) $(TAGS_DEPENDENCIES) \
      $(TAGS_FILES) $(LISP)
tags=; \
here=`pwd`; \
list='$(SOURCES) $(HEADERS) $(LISP) $(TAGS_FILES)'; \
unique=`for i in $$list; do \
    if test -f "$$i"; then echo $$i; else echo $(srcdir)/$$i; fi; \
done | \

```

```

    $(AWK) '    { files[$$0] = 1; } \
        END { for (i in files) print i; }'; \
if test -z "$(ETAGS_ARGS)$tags$$unique"; then ;; else \
    test -n "$$unique" || unique=$$empty_fix; \
    $(ETAGS) $(ETAGSFLAGS) $(AM_ETAGSFLAGS) $(ETAGS_ARGS) \
        $$tags $$unique; \
fi
ctags: CTAGS
CTAGS: $(HEADERS) $(SOURCES) $(TAGS_DEPENDENCIES) \
        $(TAGS_FILES) $(LISP)
tags=; \
here=`pwd`; \
list='$(SOURCES) $(HEADERS) $(LISP) $(TAGS_FILES)'; \
unique=`for i in $$list; do \
    if test -f "$$i"; then echo $$i; else echo $(srcdir)/$$i; fi; \
done | \
    $(AWK) '    { files[$$0] = 1; } \
        END { for (i in files) print i; }'; \
test -z "$(CTAGS_ARGS)$tags$$unique" \
    || $(CTAGS) $(CTAGSFLAGS) $(AM_CTAGSFLAGS) $(CTAGS_ARGS) \
        $$tags $$unique

GTAGS:
    here=`$(am_cd) $(top_builddir) && pwd` \
    && cd $(top_srcdir) \
    && gtags -i $(GTAGS_ARGS) $$here

distclean-tags:
    -rm -f TAGS ID GTAGS GRTAGS GSYMS GPATH tags

distdir: $(DISTFILES)
@srcdirstrip=`echo "$(srcdir)" | sed 's|.|.|g'`; \
topsrcdirstrip=`echo "$(top_srcdir)" | sed 's|.|.|g'`; \
list='$(DISTFILES)'; for file in $$list; do \
    case $$file in \
        $(srcdir)/*) file=`echo "$$file" | sed "s|^$$srcdirstrip/||" `; \
        $(top_srcdir)/*) file=`echo "$$file" | sed \
"s|^$$topsrcdirstrip/|$(top_builddir)/|" `; \
        esac; \
    if test -f $$file || test -d $$file; then d=.; else d=$(srcdir); \
fi; \
    dir=`echo "$$file" | sed -e 's,/[^/]*$$,, ' `; \
    if test "$$dir" != "$$file" && test "$$dir" != "."; then \
        dir="/$$dir"; \
        $(mkdir_p) "$(distdir)$$dir"; \
    else \
        dir='.'; \
    fi; \
    if test -d $$d/$$file; then \
        if test -d $(srcdir)/$$file && test $$d != $(srcdir); then \
            cp -pR $(srcdir)/$$file $(distdir)$$dir || exit 1; \
        fi; \
        cp -pR $$d/$$file $(distdir)$$dir || exit 1; \

```

```

        else \
            test -f $(distdir)/$$file \
                || cp -p $$d/$$file $(distdir)/$$file \
                || exit 1; \
        fi; \
    done
check-am: all-am
check: check-am
all-am: Makefile $(LTLIBRARIES)
installdirs:
    for dir in "$(DESTDIR)$(libdir)"; do \
        test -z "$$dir" || $(mkdir_p) "$$dir"; \
    done
install: install-am
install-exec: install-exec-am
install-data: install-data-am
uninstall: uninstall-am

install-am: all-am
    @$(MAKE) $(AM_MAKEFLAGS) install-exec-am install-data-am

installcheck: installcheck-am
install-strip:
    $(MAKE) $(AM_MAKEFLAGS) INSTALL_PROGRAM="$(INSTALL_STRIP_PROGRAM)" \
\
        install_sh_PROGRAM="$(INSTALL_STRIP_PROGRAM)"
INSTALL_STRIP_FLAG=-s \
    `test -z '$(STRIP)' || \
        echo "INSTALL_PROGRAM_ENV=STRIPPROG='$(STRIP)'"` install
mostlyclean-generic:

clean-generic:

distclean-generic:
    -test -z "$(CONFIG_CLEAN_FILES)" || rm -f $(CONFIG_CLEAN_FILES)

maintainer-clean-generic:
    @echo "This command is intended for maintainers to use"
    @echo "it deletes files that may require special tools to rebuild."
clean: clean-am

clean-am: clean-generic clean-libLTLIBRARIES clean-libtool \
    mostlyclean-am

distclean: distclean-am
    -rm -rf ./$$(DEPDIR)
    -rm -f Makefile
distclean-am: clean-am distclean-compile distclean-generic \
    distclean-libtool distclean-tags

dvi: dvi-am

dvi-am:

```

```

html: html-am

info: info-am

info-am:

install-data-am:

install-exec-am: install-libLTLIBRARIES

install-info: install-info-am

install-man:

installcheck-am:

maintainer-clean: maintainer-clean-am
    -rm -rf ./${DEPDIR}
    -rm -f Makefile
maintainer-clean-am: distclean-am maintainer-clean-generic

mostlyclean: mostlyclean-am

mostlyclean-am: mostlyclean-compile mostlyclean-generic \
    mostlyclean-libtool

pdf: pdf-am

pdf-am:

ps: ps-am

ps-am:

uninstall-am: uninstall-info-am uninstall-libLTLIBRARIES

.PHONY: CTAGS GTAGS all all-am check check-am clean clean-generic \
    clean-libLTLIBRARIES clean-libtool ctags distclean \
    distclean-compile distclean-generic distclean-libtool \
    distclean-tags distdir dvi dvi-am html html-am info info-am \
    install install-am install-data install-data-am install-exec \
    install-exec-am install-info install-info-am \
    install-libLTLIBRARIES install-man install-strip installcheck \
    installcheck-am installdirs maintainer-clean \
    maintainer-clean-generic mostlyclean mostlyclean-compile \
    mostlyclean-generic mostlyclean-libtool pdf pdf-am ps ps-am \
    tags uninstall uninstall-am uninstall-info-am \
    uninstall-libLTLIBRARIES

# Tell versions [3.59,3.63) of GNU make to not export all variables.
# Otherwise a system limit (for SysV at least) may be exceeded.
.NOEXPORT:

```

## sysfs.h

```

/*
 * sysfs.h
 *
 * Internal Header Definitions for libsysfs
 *
 * Copyright (C) IBM Corp. 2003-2005
 *
 * This library is free software; you can redistribute it and/or
 * modify it under the terms of the GNU Lesser General Public
 * License as published by the Free Software Foundation; either
 * version 2.1 of the License, or (at your option) any later version.
 *
 * This library is distributed in the hope that it will be useful,
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 *
 * You should have received a copy of the GNU Lesser General Public
 * License along with this library; if not, write to the Free Software
 * Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307
USA
 *
 */
#ifndef _SYSFS_H_
#define _SYSFS_H_

#include <stdio.h>
#include <stdlib.h>
#include <unistd.h>
#include <string.h>
#include <ctype.h>
#include <dirent.h>
#include <sys/stat.h>
#include <fcntl.h>
#include <errno.h>

#define safestrcpy(to, from) strncpy(to, from, sizeof(to)-1)
#define safestrcat(to, from) strncat(to, from, sizeof(to) - strlen(to)-1)

#define safestrcpymax(to, from, max) \
do { \
    to[max-1] = '\0'; \
    strncpy(to, from, max-1); \
} while (0)

#define safestrcatmax(to, from, max) \
do { \
    to[max-1] = '\0'; \
    strncat(to, from, max - strlen(to)-1); \
} while (0)

extern struct sysfs_attribute *get_attribute(void *dev, const char
*name);
extern struct dlist *read_dir_subdirs(const char *path);

```

```

extern struct dlist *read_dir_links(const char *path);
extern struct dlist *get_dev_attributes_list(void *dev);
extern struct dlist *get_attributes_list(struct dlist *alist, const char
*path);

/* Debugging */
#ifdef DEBUG
#define dprintf(format, arg...) fprintf(stderr, format, ## arg)
#else
#define dprintf(format, arg...) do { } while (0)
#endif

#endif /* _SYSFS_H_ */

```

### sysfs\_attr.c

```

/*
 * sysfs_dir.c
 *
 * Directory utility functions for libsysfs
 *
 * Copyright (C) IBM Corp. 2003-2005
 *
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 * modify it under the terms of the GNU Lesser General Public
 * License as published by the Free Software Foundation; either
 * version 2.1 of the License, or (at your option) any later version.
 *
 * This library is distributed in the hope that it will be useful,
 * but WITHOUT ANY WARRANTY; without even the implied warranty of
 * MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
 * Lesser General Public License for more details.
 *
 * You should have received a copy of the GNU Lesser General Public
 * License along with this library; if not, write to the Free Software
 * Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307
USA
 *
 */
#include "libsysfs.h"
#include "sysfs.h"

static int sort_char(void *new, void *old)
{
    return ((strncmp((char *)new, (char *)old,
                    strlen((char *)new))) < 0 ? 1 : 0);
}

/**
 * sysfs_del_name: free function for sysfs_open_subsystem_list
 * @name: memory area to be freed
 */
static void sysfs_del_name(void *name)

```

```

{
    free(name);
}

/**
 * sysfs_del_attribute: routine for dlist integration
 */
static void sysfs_del_attribute(void *attr)
{
    sysfs_close_attribute((struct sysfs_attribute *)attr);
}

/**
 * attr_name_equal: compares attributes by name
 * @a: attribute name for comparison
 * @b: sysfs_attribute to be compared.
 * returns 1 if a==b->name or 0 if not equal
 */
static int attr_name_equal(void *a, void *b)
{
    if (!a || !b)
        return 0;

    if (strcmp(((char *)a), ((struct sysfs_attribute *)b)->name) == 0)
        return 1;

    return 0;
}

/**
 * sysfs_close_attribute: closes and cleans up attribute
 * @sysattr: attribute to close.
 */
void sysfs_close_attribute(struct sysfs_attribute *sysattr)
{
    if (sysattr) {
        if (sysattr->value)
            free(sysattr->value);
        free(sysattr);
    }
}

/**
 * alloc_attribute: allocates and initializes attribute structure
 * returns struct sysfs_attribute with success and NULL with error.
 */
static struct sysfs_attribute *alloc_attribute(void)
{
    return (struct sysfs_attribute *)
        calloc(1, sizeof(struct sysfs_attribute));
}

/**
 * sysfs_open_attribute: creates sysfs_attribute structure

```



```

* @path: path to attribute.
* returns sysfs_attribute struct with success and NULL with error.
*/
struct sysfs_attribute *sysfs_open_attribute(const char *path)
{
    struct sysfs_attribute *sysattr = NULL;
    struct stat fileinfo;

    if (!path) {
        errno = EINVAL;
        return NULL;
    }
    sysattr = alloc_attribute();
    if (!sysattr) {
        dprintf("Error allocating attribute at %s\n", path);
        return NULL;
    }
    if (sysfs_get_name_from_path(path, sysattr->name,
        SYSFS_NAME_LEN) != 0) {
        dprintf("Error retrieving attrib name from path: %s\n",
path);
        sysfs_close_attribute(sysattr);
        return NULL;
    }
    safestrcpy(sysattr->path, path);
    if ((stat(sysattr->path, &fileinfo)) != 0) {
        dprintf("Stat failed: No such attribute?\n");
        sysattr->method = 0;
        free(sysattr);
        sysattr = NULL;
    } else {
        if (fileinfo.st_mode & S_IRUSR)
            sysattr->method |= SYSFS_METHOD_SHOW;
        if (fileinfo.st_mode & S_IWUSR)
            sysattr->method |= SYSFS_METHOD_STORE;
    }

    return sysattr;
}

/**
* sysfs_read_attribute: reads value from attribute
* @sysattr: attribute to read
* returns 0 with success and -1 with error.
*/
int sysfs_read_attribute(struct sysfs_attribute *sysattr)
{
    char *fbuf = NULL;
    char *vbuf = NULL;
    ssize_t length = 0;
    long pgsz = 0;
    int fd;

    if (!sysattr) {

```

```

        errno = EINVAL;
        return -1;
    }
    if (!(sysattr->method & SYSFS_METHOD_SHOW)) {
        dprintf("Show method not supported for attribute %s\n",
                sysattr->path);
        errno = EACCES;
        return -1;
    }
    pgsize = getpagesize();
    fbuf = (char *)calloc(1, pgsize+1);
    if (!fbuf) {
        dprintf("calloc failed\n");
        return -1;
    }
    if ((fd = open(sysattr->path, O_RDONLY)) < 0) {
        dprintf("Error reading attribute %s\n", sysattr->path);
        free(fbuf);
        return -1;
    }
    length = read(fd, fbuf, pgsize);
    if (length < 0) {
        dprintf("Error reading from attribute %s\n", sysattr->path);
        close(fd);
        free(fbuf);
        return -1;
    }
    if (sysattr->len > 0) {
        if ((sysattr->len == length) &&
            (!(strncmp(sysattr->value, fbuf, length)))) {
            close(fd);
            free(fbuf);
            return 0;
        }
        free(sysattr->value);
    }
    sysattr->len = length;
    close(fd);
    vbuf = (char *)realloc(fbuf, length+1);
    if (!vbuf) {
        dprintf("realloc failed\n");
        free(fbuf);
        return -1;
    }
    sysattr->value = vbuf;

    return 0;
}

/**
 * sysfs_write_attribute: write value to the attribute
 * @sysattr: attribute to write
 * @new_value: value to write
 * @len: length of "new_value"

```

```

* returns 0 with success and -1 with error.
*/
int sysfs_write_attribute(struct sysfs_attribute *sysattr,
                        const char *new_value, size_t len)
{
    int fd;
    int length;

    if (!sysattr || !new_value || len == 0) {
        errno = EINVAL;
        return -1;
    }

    if (!(sysattr->method & SYSFS_METHOD_STORE)) {
        dprintf ("Store method not supported for attribute %s\n",
                sysattr->path);
        errno = EACCES;
        return -1;
    }
    if (sysattr->method & SYSFS_METHOD_SHOW) {
        /*
         * read attribute again to see if we can get an updated value
         */
        if ((sysfs_read_attribute(sysattr))) {
            dprintf("Error reading attribute\n");
            return -1;
        }
        if ((strcmp(sysattr->value, new_value, sysattr->len)) == 0
&&
                (len == sysattr->len)) {
            dprintf("Attr %s already has the requested value %s\n",
                    sysattr->name, new_value);
            return 0;
        }
    }
    /*
     * open O_WRONLY since some attributes have no "read" but only
     * "write" permission
     */
    if ((fd = open(sysattr->path, O_WRONLY)) < 0) {
        dprintf("Error reading attribute %s\n", sysattr->path);
        return -1;
    }

    length = write(fd, new_value, len);
    if (length < 0) {
        dprintf("Error writing to the attribute %s - invalid
value?\n",
                sysattr->name);
        close(fd);
        return -1;
    } else if ((unsigned int)length != len) {
        dprintf("Could not write %zd bytes to attribute %s\n",
                len, sysattr->name);
    }
}

```

```

        /*
        * since we could not write user supplied number of bytes,
        * restore the old value if one available
        */
        if (sysattr->method & SYSFS_METHOD_SHOW) {
            length = write(fd, sysattr->value, sysattr->len);
            close(fd);
            return -1;
        }
    }

    /*
    * Validate length that has been copied. Alloc appropriate area
    * in sysfs_attribute. Verify first if the attribute supports
reading
    * (show method). If it does not, do not bother
    */
    if (sysattr->method & SYSFS_METHOD_SHOW) {
        if (length != sysattr->len) {
            sysattr->value = (char *)realloc
                (sysattr->value, length);
            sysattr->len = length;
            safestrcpymax(sysattr->value, new_value, length);
        } else {
            /*"length" of the new value is same as old one */
            safestrcpymax(sysattr->value, new_value, length);
        }
    }

    close(fd);
    return 0;
}

/**
 * add_attribute_to_list: open and add attribute at path to given dlist
 * @list: dlist attribute is to be added
 * @path: path to attribute
 * returns pointer to attr added with success and NULL with error.
 */
static struct sysfs_attribute *add_attribute_to_list(struct dlist *alist,
                                                    const char *path)
{
    struct sysfs_attribute *attr;

    attr = sysfs_open_attribute(path);
    if (!attr) {
        dprintf("Error opening attribute %s\n", path);
        return NULL;
    }
    if (attr->method & SYSFS_METHOD_SHOW) {
        if (sysfs_read_attribute(attr)) {
            dprintf("Error reading attribute %s\n", path);
            sysfs_close_attribute(attr);
            return NULL;
        }
    }
}

```

```

        }
    }

    if (!alist) {
        alist = dlist_new_with_delete
            (sizeof(struct sysfs_attribute), sysfs_del_attribute);
    }
    dlist_unshift_sorted(alist, attr, sort_list);
    return attr;
}

/**
 * add_attribute: open and add attribute at path to given directory
 * @dev: device whose attribute is to be added
 * @path: path to attribute
 * returns pointer to attr added with success and NULL with error.
 */
static struct sysfs_attribute *add_attribute(void *dev, const char *path)
{
    struct sysfs_attribute *attr;

    attr = sysfs_open_attribute(path);
    if (!attr) {
        dprintf("Error opening attribute %s\n", path);
        return NULL;
    }
    if (attr->method & SYSFS_METHOD_SHOW) {
        if (sysfs_read_attribute(attr)) {
            dprintf("Error reading attribute %s\n", path);
            sysfs_close_attribute(attr);
            return NULL;
        }
    }

    if (!((struct sysfs_device *)dev)->attrlist) {
        ((struct sysfs_device *)dev)->attrlist =
dlist_new_with_delete
            (sizeof(struct sysfs_attribute), sysfs_del_attribute);
    }
    dlist_unshift_sorted(((struct sysfs_device *)dev)->attrlist,
        attr, sort_list);

    return attr;
}

/**
 * get_attribute - given a sysfs_* struct and a name, return the
 * sysfs_attribute corresponding to "name"
 * returns sysfs_attribute on success and NULL on error
 */
struct sysfs_attribute *get_attribute(void *dev, const char *name)
{
    struct sysfs_attribute *cur = NULL;
    char path[SYSFS_PATH_MAX];

```

```

if (!dev || !name) {
    errno = EINVAL;
    return NULL;
}

if (((struct sysfs_device *)dev)->attrlist) {
    /* check if attr is already in the list */
    cur = (struct sysfs_attribute *)dlist_find_custom
        (((struct sysfs_device *)dev)->attrlist),
        (void *)name, attr_name_equal);
    if (cur)
        return cur;
}
safestrcpymax(path, ((struct sysfs_device *)dev)->path,
    SYSFS_PATH_MAX);
safestrcatmax(path, "/", SYSFS_PATH_MAX);
safestrcatmax(path, name, SYSFS_PATH_MAX);
if (!sysfs_path_is_file(path))
    cur = add_attribute((void *)dev, path);
return cur;
}

/**
 * read_dir_links: grabs links in a specific directory
 * @sysdir: sysfs directory to read
 * returns list of link names with success and NULL with error.
 */
struct dlist *read_dir_links(const char *path)
{
    DIR *dir = NULL;
    struct dirent *dirent = NULL;
    char file_path[SYSFS_PATH_MAX], *linkname;
    struct dlist *linklist = NULL;

    if (!path) {
        errno = EINVAL;
        return NULL;
    }
    dir = opendir(path);
    if (!dir) {
        dprintf("Error opening directory %s\n", path);
        return NULL;
    }
    while ((dirent = readdir(dir)) != NULL) {
        if (0 == strcmp(dirent->d_name, "."))
            continue;
        if (0 == strcmp(dirent->d_name, ".."))
            continue;
        memset(file_path, 0, SYSFS_PATH_MAX);
        safestrcpy(file_path, path);
        safestrcat(file_path, "/");
        safestrcat(file_path, dirent->d_name);
        if (!sysfs_path_is_link(file_path)) {

```

```

        if (!linklist) {
            linklist = dlist_new_with_delete
                (SYSFS_NAME_LEN, sysfs_del_name);
            if (!linklist) {
                dprintf("Error creating list\n");
                return NULL;
            }
        }
        linkname = (char *)calloc(1, SYSFS_NAME_LEN);
        safestrncpy(linkname, dirent->d_name, SYSFS_NAME_LEN);
        dlist_unshift_sorted(linklist, linkname, sort_char);
    }
}
closedir(dir);
return linklist;
}

void sysfs_close_dev_tree(void *dev);

int add_subdirectory(struct sysfs_device *dev, char *path)
{
    struct sysfs_device *newdev;

    if (!path)
        return -1;

    newdev = sysfs_open_device_path(path);
    if (newdev == NULL)
        return -1;

    if (dev->children == NULL)
        dev->children = dlist_new_with_delete(
            sizeof(struct sysfs_device), sysfs_close_dev_tree);

    dlist_unshift_sorted(dev->children, newdev, sort_list);
    return 0;
}

/**
 * read_dir_subdirs: grabs subdirs in a specific directory
 * @sysdir: sysfs directory to read
 * returns list of directory names with success and NULL with error.
 */
struct sysfs_device *sysfs_read_dir_subdirs(const char *path)
{
    DIR *dir = NULL;
    struct dirent *dirent = NULL;
    char file_path[SYSFS_PATH_MAX];
    struct sysfs_device *dev = NULL;

    if (!path) {
        errno = EINVAL;
        return NULL;
    }
}

```

```

dev = sysfs_open_device_path(path);

dir = opendir(path);
if (!dir) {
    dprintf("Error opening directory %s\n", path);
    return NULL;
}
while ((dirent = readdir(dir)) != NULL) {
    if (0 == strcmp(dirent->d_name, "."))
        continue;
    if (0 == strcmp(dirent->d_name, ".."))
        continue;
    memset(file_path, 0, SYSFS_PATH_MAX);
    safestrcpy(file_path, path);
    safestrcat(file_path, "/");
    safestrcat(file_path, dirent->d_name);
    if (!sysfs_path_is_dir(file_path))
        add_subdirectory(dev, file_path);
}
closedir(dir);
return dev;
}

/**
 * read_dir_subdirs: grabs subdirs in a specific directory
 * @sysdir: sysfs directory to read
 * returns list of directory names with success and NULL with error.
 */
struct dlist *read_dir_subdirs(const char *path)
{
    DIR *dir = NULL;
    struct dirent *dirent = NULL;
    char file_path[SYSFS_PATH_MAX], *dir_name;
    struct dlist *dirlist = NULL;

    if (!path) {
        errno = EINVAL;
        return NULL;
    }
    dir = opendir(path);
    if (!dir) {
        dprintf("Error opening directory %s\n", path);
        return NULL;
    }
    while ((dirent = readdir(dir)) != NULL) {
        if (0 == strcmp(dirent->d_name, "."))
            continue;
        if (0 == strcmp(dirent->d_name, ".."))
            continue;
        memset(file_path, 0, SYSFS_PATH_MAX);
        safestrcpy(file_path, path);
        safestrcat(file_path, "/");
        safestrcat(file_path, dirent->d_name);

```



```

    if (!sysfs_path_is_dir(file_path)) {
        if (!dirlist) {
            dirlist = dlist_new_with_delete
                (SYSFS_NAME_LEN, sysfs_del_name);
            if (!dirlist) {
                dprintf("Error creating list\n");
                return NULL;
            }
        }
        dir_name = (char *)calloc(1, SYSFS_NAME_LEN);
        safestrcpymax(dir_name, dirent->d_name, SYSFS_NAME_LEN);
        dlist_unshift_sorted(dirlist, dir_name, sort_char);
    }
}
closedir(dir);
return dirlist;
}

```

```

/**
 * get_attributes_list: build a list of attributes for the given path
 * @path: grab attributes at the given path
 * returns dlist of attributes on success and NULL on failure
 */

```

```

struct dlist *get_attributes_list(struct dlist *alist, const char *path)
{

```

```

    DIR *dir = NULL;
    struct dirent *dirent = NULL;
    char file_path[SYSFS_PATH_MAX];

    if (!path) {
        errno = EINVAL;
        return NULL;
    }

    dir = opendir(path);
    if (!dir) {
        dprintf("Error opening directory %s\n", path);
        return NULL;
    }
    while ((dirent = readdir(dir)) != NULL) {
        if (0 == strcmp(dirent->d_name, "."))
            continue;
        if (0 == strcmp(dirent->d_name, ".."))
            continue;
        memset(file_path, 0, SYSFS_PATH_MAX);
        safestrcpy(file_path, path);
        safestrcat(file_path, "/");
        safestrcat(file_path, dirent->d_name);
        if (!sysfs_path_is_file(file_path)) {
            if (!alist) {
                alist = dlist_new_with_delete
                    (sizeof(struct sysfs_attribute),
                     sysfs_del_attribute);
                if (!alist) {

```

```

        dprintf("Error creating list\n");
        return NULL;
    }
}
add_attribute_to_list(alist, file_path);
}
}
closedir(dir);
return alist;
}

/**
 * get_dev_attributes_list: build a list of attributes for the given
device
 * @dev: devices whose attributes list is required
 * returns dlist of attributes on success and NULL on failure
 */
struct dlist *get_dev_attributes_list(void *dev)
{
    DIR *dir = NULL;
    struct dirent *dirent = NULL;
    struct sysfs_attribute *attr = NULL;
    char file_path[SYSFS_PATH_MAX], path[SYSFS_PATH_MAX];

    if (!dev) {
        errno = EINVAL;
        return NULL;
    }
    memset(path, 0, SYSFS_PATH_MAX);
    safestrncpy(path, ((struct sysfs_device *)dev)->path);
    dir = opendir(path);
    if (!dir) {
        dprintf("Error opening directory %s\n", path);
        return NULL;
    }
    while ((dirent = readdir(dir)) != NULL) {
        if (0 == strcmp(dirent->d_name, "."))
            continue;
        if (0 == strcmp(dirent->d_name, ".."))
            continue;
        memset(file_path, 0, SYSFS_PATH_MAX);
        safestrncpy(file_path, path);
        safestrncat(file_path, "/");
        safestrncat(file_path, dirent->d_name);
        if (!sysfs_path_is_file(file_path)) {
            if (((struct sysfs_device *)dev)->attrlist) {
                /* check if attr is already in the list */
                attr = (struct sysfs_attribute *)
                    dlist_find_custom(
                        (((struct sysfs_device *)dev)->attrlist),
                        (void *)dirent->d_name, attr_name_equal);
                if (attr)
                    continue;
            }
            else

```

```

        add_attribute(dev, file_path);
    } else
        attr = add_attribute(dev, file_path);
    }
}
closedir(dir);
return ((struct sysfs_device *)dev)->attrlist;
}

```

## sysfs\_bus.c

```

/*
 * sysfs_bus.c
 *
 * Generic bus utility functions for libsysfs
 *
 * Copyright (C) IBM Corp. 2003-2005
 *
 * This library is free software; you can redistribute it and/or
 * modify it under the terms of the GNU Lesser General Public
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 * version 2.1 of the License, or (at your option) any later version.
 *
 * This library is distributed in the hope that it will be useful,
 * but WITHOUT ANY WARRANTY; without even the implied warranty of
 * MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
 * Lesser General Public License for more details.
 *
 * You should have received a copy of the GNU Lesser General Public
 * License along with this library; if not, write to the Free Software
 * Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307
USA
 *
 */
#include "libsysfs.h"
#include "sysfs.h"

static void sysfs_close_dev(void *dev)
{
    sysfs_close_device((struct sysfs_device *)dev);
}

static void sysfs_close_drv(void *drv)
{
    sysfs_close_driver((struct sysfs_driver *)drv);
}

/*
 * compares names.
 * @a: name looked for
 * @b: sysfs_device comparing being compared
 * returns 1 if a==b->name or 0 not equal
 */

```

```

static int name_equal(void *a, void *b)
{
    if (!a || !b)
        return 0;

    if (strcmp(((char *)a), ((struct sysfs_device *)b)->name) == 0)
        return 1;

    return 0;
}

/**
 * sysfs_close_bus: close single bus
 * @bus: bus structure
 */
void sysfs_close_bus(struct sysfs_bus *bus)
{
    if (bus) {
        if (bus->attrlist)
            dlist_destroy(bus->attrlist);
        if (bus->devices)
            dlist_destroy(bus->devices);
        if (bus->drivers)
            dlist_destroy(bus->drivers);
        free(bus);
    }
}

/**
 * alloc_bus: mallocs new bus structure
 * returns sysfs_bus struct or NULL
 */
static struct sysfs_bus *alloc_bus(void)
{
    return (struct sysfs_bus *)calloc(1, sizeof(struct sysfs_bus));
}

/**
 * sysfs_get_bus_devices: gets all devices for bus
 * @bus: bus to get devices for
 * returns dlist of devices with success and NULL with failure
 */
struct dlist *sysfs_get_bus_devices(struct sysfs_bus *bus)
{
    struct sysfs_device *dev;
    struct dlist *linklist;
    char path[SYSFS_PATH_MAX], devpath[SYSFS_PATH_MAX];
    char target[SYSFS_PATH_MAX];
    char *curlink;

    if (!bus) {
        errno = EINVAL;
        return NULL;
    }
}

```

```

memset(path, 0, SYSFS_PATH_MAX);
safestrncpy(path, bus->path);
safestrncat(path, "/");
safestrncat(path, SYSFS_DEVICES_NAME);

linklist = read_dir_links(path);
if (linklist) {
    dlist_for_each_data(linklist, curlink, char) {
        if (bus->devices) {
            dev = (struct sysfs_device *)
                dlist_find_custom(bus->devices,
                (void *)curlink, name_equal);
            if (dev)
                continue;
        }
        safestrncpy(devpath, path);
        safestrncat(devpath, "/");
        safestrncat(devpath, curlink);
        if (sysfs_get_link(devpath, target, SYSFS_PATH_MAX)) {
            dprintf("Error getting link - %s\n", devpath);
            continue;
        }
        dev = sysfs_open_device_path(target);
        if (!dev) {
            dprintf("Error opening device at %s\n",
                target);

            continue;
        }
        if (!bus->devices)
            bus->devices = dlist_new_with_delete
                (sizeof(struct sysfs_device),
                sysfs_close_dev);
        dlist_unshift_sorted(bus->devices, dev, sort_list);
    }
    sysfs_close_list(linklist);
}
return (bus->devices);
}

/**
 * sysfs_get_bus_drivers: gets all drivers for bus
 * @bus: bus to get devices for
 * returns dlist of devices with success and NULL with failure
 */
struct dlist *sysfs_get_bus_drivers(struct sysfs_bus *bus)
{
    struct sysfs_driver *drv;
    struct dlist *dirlist;
    char path[SYSFS_PATH_MAX], drvpath[SYSFS_PATH_MAX];
    char *curdir;

    if (!bus) {
        errno = EINVAL;
        return NULL;
    }

```

```

    }
    memset(path, 0, SYSFS_PATH_MAX);
    safestrcpy(path, bus->path);
    safestrcat(path, "/");
    safestrcat(path, SYSFS_DRIVERS_NAME);

    dirlist = read_dir_subdirs(path);
    if (dirlist) {
        dlist_for_each_data(dirlist, curdir, char) {
            if (bus->drivers) {
                drv = (struct sysfs_driver *)
                    dlist_find_custom(bus->drivers,
                                       (void *)curdir, name_equal);
                if (drv)
                    continue;
            }
            safestrcpy(drvpath, path);
            safestrcat(drvpath, "/");
            safestrcat(drvpath, curdir);
            drv = sysfs_open_driver_path(drvpath);
            if (!drv) {
                dprintf("Error opening driver at %s\n",
                       drvpath);
                continue;
            }
            if (!bus->drivers)
                bus->drivers = dlist_new_with_delete
                    (sizeof(struct sysfs_driver),
                     sysfs_close_drv);
            dlist_unshift_sorted(bus->drivers, drv, sort_list);
        }
        sysfs_close_list(dirlist);
    }
    return (bus->drivers);
}

/**
 * sysfs_open_bus: opens specific bus and all its devices on system
 * returns sysfs_bus structure with success or NULL with error.
 */
struct sysfs_bus *sysfs_open_bus(const char *name)
{
    struct sysfs_bus *bus;
    char buspath[SYSFS_PATH_MAX];

    if (!name) {
        errno = EINVAL;
        return NULL;
    }

    memset(buspath, 0, SYSFS_PATH_MAX);
    if (sysfs_get_mnt_path(buspath, SYSFS_PATH_MAX)) {
        dprintf("Sysfs not supported on this system\n");
        return NULL;
    }

```

```

    }

    safestrcat(buspath, "/");
    safestrcat(buspath, SYSFS_BUS_NAME);
    safestrcat(buspath, "/");
    safestrcat(buspath, name);
    if (sysfs_path_is_dir(buspath)) {
        dprintf("Invalid path to bus: %s\n", buspath);
        return NULL;
    }
    bus = alloc_bus();
    if (!bus) {
        dprintf("calloc failed\n");
        return NULL;
    }
    safestrcpy(bus->name, name);
    safestrcpy(bus->path, buspath);
    if (sysfs_remove_trailing_slash(bus->path)) {
        dprintf("Incorrect path to bus %s\n", bus->path);
        sysfs_close_bus(bus);
        return NULL;
    }

    return bus;
}

/**
 * sysfs_get_bus_device: Get specific device on bus using device's id
 * @bus: bus to find device on
 * @id: bus_id for device
 * returns struct sysfs_device reference or NULL if not found.
 */
struct sysfs_device *sysfs_get_bus_device(struct sysfs_bus *bus,
                                          const char *id)
{
    struct sysfs_device *dev = NULL;
    char devpath[SYSFS_PATH_MAX], target[SYSFS_PATH_MAX];

    if (!bus || !id) {
        errno = EINVAL;
        return NULL;
    }

    if (bus->devices) {
        dev = (struct sysfs_device *)dlist_find_custom
            (bus->devices, (void *)id, name_equal);
        if (dev)
            return dev;
    }
    safestrcpy(devpath, bus->path);
    safestrcat(devpath, "/");
    safestrcat(devpath, SYSFS_DEVICES_NAME);
    safestrcat(devpath, "/");
    safestrcat(devpath, id);

```

```

if (sysfs_path_is_link(devpath)) {
    dprintf("No such device %s on bus %s?\n", id, bus->name);
    return NULL;
}
if (!sysfs_get_link(devpath, target, SYSFS_PATH_MAX)) {
    dev = sysfs_open_device_path(target);
    if (!dev) {
        dprintf("Error opening device at %s\n", target);
        return NULL;
    }
    if (!bus->devices)
        bus->devices = dlist_new_with_delete
            (sizeof(struct sysfs_device),
             sysfs_close_dev);
    dlist_unshift_sorted(bus->devices, dev, sort_list);
}
return dev;
}

/**
 * sysfs_get_bus_driver: Get specific driver on bus using driver name
 * @bus: bus to find driver on
 * @drvname: name of driver
 * returns struct sysfs_driver reference or NULL if not found.
 */
struct sysfs_driver *sysfs_get_bus_driver(struct sysfs_bus *bus,
    const char *drvname)
{
    struct sysfs_driver *drv;
    char drvpath[SYSFS_PATH_MAX];

    if (!bus || !drvname) {
        errno = EINVAL;
        return NULL;
    }

    if (bus->drivers) {
        drv = (struct sysfs_driver *)dlist_find_custom
            (bus->drivers, (void *)drvname, name_equal);
        if (drv)
            return drv;
    }
    safestrcpy(drvpath, bus->path);
    safestrcat(drvpath, "/");
    safestrcat(drvpath, SYSFS_DRIVERS_NAME);
    safestrcat(drvpath, "/");
    safestrcat(drvpath, drvname);
    drv = sysfs_open_driver_path(drvpath);
    if (!drv) {
        dprintf("Error opening driver at %s\n", drvpath);
        return NULL;
    }
    if (!bus->drivers)
        bus->drivers = dlist_new_with_delete

```



```

        (sizeof(struct sysfs_driver),
            sysfs_close_drv);
    dlist_unshift_sorted(bus->drivers, drv, sort_list);
    return drv;
}

```

## sysfs\_class.c

```

/*
 * sysfs_class.c
 *
 * Generic class utility functions for libsysfs
 *
 * Copyright (C) IBM Corp. 2003-2005
 *
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 * License along with this library; if not, write to the Free Software
 * Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307
USA
 *
 */
#include "libsysfs.h"
#include "sysfs.h"

/**
 * sysfs_close_class_device: closes a single class device.
 * @dev: class device to close.
 */
void sysfs_close_class_device(struct sysfs_class_device *dev)
{
    if (dev) {
        if (dev->parent)
            sysfs_close_class_device(dev->parent);
        if (dev->sysdevice)
            sysfs_close_device(dev->sysdevice);
        if (dev->attrlist)
            dlist_destroy(dev->attrlist);
        free(dev);
    }
}

static void sysfs_close_cls_dev(void *dev)

```

```

{
    sysfs_close_class_device((struct sysfs_class_device *)dev);
}

/**
 * sysfs_close_class: close the given class
 * @cls: sysfs_class to close
 */
void sysfs_close_class(struct sysfs_class *cls)
{
    if (cls) {
        if (cls->devices)
            dlist_destroy(cls->devices);
        if (cls->attrlist)
            dlist_destroy(cls->attrlist);
        free(cls);
    }
}

static int cdev_name_equal(void *a, void *b)
{
    if (!a || !b)
        return 0;

    if (strncmp((char *)a, ((struct sysfs_class_device *)b)->name,
                strlen((char *)a)) == 0)
        return 1;

    return 0;
}

static struct sysfs_class *alloc_class(void)
{
    return (struct sysfs_class *) calloc(1, sizeof(struct
sysfs_class));
}

/**
 * alloc_class_device: mallocs and initializes new class device struct.
 * returns sysfs_class_device or NULL.
 */
static struct sysfs_class_device *alloc_class_device(void)
{
    struct sysfs_class_device *dev;

    dev = calloc(1, sizeof(struct sysfs_class_device));
    return dev;
}

/**
 * set_classdev_classname: Grabs classname from path
 * @cdev: class device to set
 * Returns nothing
 */

```

```

static void set_classdev_classname(struct sysfs_class_device *cdev)
{
    char *c, *e, name[SYSFS_PATH_MAX], link[SYSFS_PATH_MAX];
    struct stat stats;
    int count = 0;

    /*
     * Newer driver core changes have a class:class_device
representation.
     * Check if this cdev belongs to the newer style subsystem and
     * set the classname appropriately.
    */
    memset(name, 0, SYSFS_PATH_MAX);
    safestrcpy(name, cdev->name);
    c = strchr(name, ':');
    if (c) {
        safestrcpy(cdev->name, c+1);
        *c = '\0';
        safestrcpy(cdev->classname, name);
        return;
    }

    c = strstr(cdev->path, SYSFS_CLASS_NAME);
    if (c == NULL)
        c = strstr(cdev->path, SYSFS_BLOCK_NAME);
    else
        c = strstr(c, "/");

    if (c) {
        if (*c == '/')
            c++;
        e = c;
        while (e != NULL && *e != '/' && *e != '\0') {
            e++;
            count++;
        }
        strncpy(cdev->classname, c, count);
    } else {
        strcpy(link, cdev->path);
        strcat(link, "/subsystem");
        sysfs_get_link(link, name, SYSFS_PATH_MAX);
        if (lstat(name, &stats))
            safestrcpy(cdev->classname, SYSFS_UNKNOWN);
        else {
            c = strrchr(name, '/');
            if (c)
                safestrcpy(cdev->classname, c+1);
            else
                safestrcpy(cdev->classname, SYSFS_UNKNOWN);
        }
    }
}

/**

```

```

* sysfs_open_class_device_path: Opens and populates class device
* @path: path to class device.
* returns struct sysfs_class_device with success and NULL with error.
*/
struct sysfs_class_device *sysfs_open_class_device_path(const char *path)
{
    struct sysfs_class_device *cdev;
    char temp_path[SYSFS_PATH_MAX];

    if (!path) {
        errno = EINVAL;
        return NULL;
    }

    /*
     * Post linux-2.6.14 driver model supports nested classes with
     * links to the nested hierarchy at /sys/class/xxx/. Check for
     * a link to the actual class device if a directory isn't found
     */
    if (sysfs_path_is_dir(path)) {
        dprintf("%s: Directory not found, checking for a link\n",
path);
        if (!sysfs_path_is_link(path)) {
            if (sysfs_get_link(path, temp_path, SYSFS_PATH_MAX)) {
                dprintf("Error retrieving link at %s\n", path);
                return NULL;
            }
        } else {
            dprintf("%s is not a valid class device path\n", path);
            return NULL;
        }
    } else
        safestrncpy(temp_path, path);

    cdev = alloc_class_device();
    if (!cdev) {
        dprintf("calloc failed\n");
        return NULL;
    }
    if (sysfs_get_name_from_path(temp_path, cdev->name,
SYSFS_NAME_LEN)) {
        errno = EINVAL;
        dprintf("Error getting class device name\n");
        sysfs_close_class_device(cdev);
        return NULL;
    }

    safestrncpy(cdev->path, temp_path);
    if (sysfs_remove_trailing_slash(cdev->path)) {
        dprintf("Invalid path to class device %s\n", cdev->path);
        sysfs_close_class_device(cdev);
        return NULL;
    }
    set_classdev_classname(cdev);
}

```

```

        return cdev;
    }

/**
 * sysfs_get_classdev_parent: Retrieves the parent of a class device.
 *   eg., when working with hda1, this function can be used to retrieve
the
 *   sysfs_class_device for hda
 *
 * @clsdev: class device whose parent details are required.
 * Returns sysfs_class_device of the parent on success, NULL on failure
 */
struct sysfs_class_device *sysfs_get_classdev_parent
    (struct sysfs_class_device *clsdev)
{
    char abs_path[SYSFS_PATH_MAX], tmp_path[SYSFS_PATH_MAX];
    char *c;

    if (!clsdev) {
        errno = EINVAL;
        return NULL;
    }

    if (clsdev->parent)
        return (clsdev->parent);

    memset(abs_path, 0, SYSFS_PATH_MAX);
    memset(tmp_path, 0, SYSFS_PATH_MAX);

    safestrcpy(tmp_path, clsdev->path);
    c = strstr(tmp_path, clsdev->classname);
    c = strchr(c, '/');
    *c = '\0';

    safestrcpy(abs_path, clsdev->path);
    c = strrchr(abs_path, '/');
    *c = '\0';

    if ((strncmp(tmp_path, abs_path, strlen(abs_path))) == 0) {
        dprintf("Class device %s doesn't have a parent\n",
            clsdev->name);
        return NULL;
    }

    clsdev->parent = sysfs_open_class_device_path(abs_path);

    return clsdev->parent;
}

/**
 * get_classdev_path: given the class and a device in the class, return
the
 *   absolute path to the device

```

```

* @classname: name of the class
* @clsdev: the class device
* @path: buffer to return path
* @psize: size of "path"
* Returns 0 on SUCCESS or -1 on error
*/
static int get_classdev_path(const char *classname, const char *clsdev,
                           char *path, size_t len)
{
    char *c;

    if (!classname || !clsdev || !path) {
        errno = EINVAL;
        return -1;
    }
    if (sysfs_get_mnt_path(path, len) != 0) {
        dprintf("Error getting sysfs mount path\n");
        return -1;
    }
    safestrcatmax(path, "/", len);
    if (strncmp(classname, SYSFS_BLOCK_NAME,
                sizeof(SYSFS_BLOCK_NAME)) == 0) {
        safestrcatmax(path, SYSFS_BLOCK_NAME, len);
        if (!sysfs_path_is_dir(path))
            goto done;
        c = strrchr(path, '/');
        *(c+1) = '\0';
    }
    safestrcatmax(path, SYSFS_CLASS_NAME, len);
    safestrcatmax(path, "/", len);
    safestrcatmax(path, classname, len);
done:
    safestrcatmax(path, "/", len);
    safestrcatmax(path, clsdev, len);
    return 0;
}

/**
 * sysfs_open_class_device: Locates a specific class_device and returns
 it.
 * Class_device must be closed using sysfs_close_class_device
 * @classname: Class to search
 * @name: name of the class_device
 *
 * NOTE:
 * Call sysfs_close_class_device() to close the class device
 */
struct sysfs_class_device *sysfs_open_class_device
    (const char *classname, const char *name)
{
    char devpath[SYSFS_PATH_MAX];
    struct sysfs_class_device *cdev;

    if (!classname || !name) {

```

```

        errno = EINVAL;
        return NULL;
    }

    memset(devpath, 0, SYSFS_PATH_MAX);
    if ((get_classdev_path(classname, name, devpath,
                          SYSFS_PATH_MAX)) != 0) {
        dprintf("Error getting to device %s on class %s\n",
              name, classname);
        return NULL;
    }

    cdev = sysfs_open_class_device_path(devpath);
    if (!cdev) {
        dprintf("Error getting class device %s from class %s\n",
              name, classname);
        return NULL;
    }
    return cdev;
}

/**
 * sysfs_get_classdev_attr: searches class device's attributes by name
 * @clsdev: class device to look through
 * @name: attribute name to get
 * returns sysfs_attribute reference with success or NULL with error
 */
struct sysfs_attribute *sysfs_get_classdev_attr
    (struct sysfs_class_device *clsdev, const char *name)
{
    if (!clsdev || !name) {
        errno = EINVAL;
        return NULL;
    }
    return get_attribute(clsdev, (char *)name);
}

/**
 * sysfs_get_classdev_attributes: gets list of classdev attributes
 * @clsdev: class device whose attributes list is needed
 * returns dlist of attributes on success or NULL on error
 */
struct dlist *sysfs_get_classdev_attributes(struct sysfs_class_device
*clsdev)
{
    if (!clsdev) {
        errno = EINVAL;
        return NULL;
    }
    return get_dev_attributes_list(clsdev);
}

/**
 * sysfs_get_classdev_device: gets the sysfs_device associated with the

```

```

*   given sysfs_class_device
* @clsdev: class device whose associated sysfs_device is needed
* returns struct sysfs_device * on success or NULL on error
*/
struct sysfs_device *sysfs_get_classdev_device
    (struct sysfs_class_device *clsdev)
{
    char linkpath[SYSFS_PATH_MAX], devpath[SYSFS_PATH_MAX];

    if (!clsdev) {
        errno = EINVAL;
        return NULL;
    }

    if (clsdev->sysdevice)
        return clsdev->sysdevice;

    memset(linkpath, 0, SYSFS_PATH_MAX);
    safestrcpy(linkpath, clsdev->path);
    safestrcat(linkpath, "/device");
    if (!sysfs_path_is_link(linkpath)) {
        memset(devpath, 0, SYSFS_PATH_MAX);
        if (!sysfs_get_link(linkpath, devpath, SYSFS_PATH_MAX))
            clsdev->sysdevice = sysfs_open_device_path(devpath);
    }
    return clsdev->sysdevice;
}

/**
* sysfs_open_class: opens specific class and all its devices on system
* returns sysfs_class structure with success or NULL with error.
*/
struct sysfs_class *sysfs_open_class(const char *name)
{
    struct sysfs_class *cls = NULL;
    char *c, classpath[SYSFS_PATH_MAX];

    if (!name) {
        errno = EINVAL;
        return NULL;
    }

    memset(classpath, 0, SYSFS_PATH_MAX);
    if ((sysfs_get_mnt_path(classpath, SYSFS_PATH_MAX)) != 0) {
        dprintf("Sysfs not supported on this system\n");
        return NULL;
    }

    safestrcat(classpath, "/");
    if (strcmp(name, SYSFS_BLOCK_NAME) == 0) {
        safestrcat(classpath, SYSFS_BLOCK_NAME);
        if (!sysfs_path_is_dir(classpath))
            goto done;
        c = strrchr(classpath, '/');

```



```

        *(c+1) = '\\0';
    }
    safestrcat(classpath, SYSFS_CLASS_NAME);
    safestrcat(classpath, "/");
    safestrcat(classpath, name);
done:
    if (sysfs_path_is_dir(classpath)) {
        dprintf("Class %s not found on the system\n", name);
        return NULL;
    }

    cls = alloc_class();
    if (cls == NULL) {
        dprintf("calloc failed\n");
        return NULL;
    }
    safestrcpy(cls->name, name);
    safestrcpy(cls->path, classpath);
    if ((sysfs_remove_trailing_slash(cls->path)) != 0) {
        dprintf("Invalid path to class device %s\n", cls->path);
        sysfs_close_class(cls);
        return NULL;
    }

    return cls;
}

/**
 * sysfs_get_class_device: get specific class device using the device's
id
 * @cls: sysfs_class to find the device on
 * @name: name of the class device to look for
 *
 * Returns sysfs_class_device * on success and NULL on failure
 */
struct sysfs_class_device *sysfs_get_class_device(struct sysfs_class
*cls,
        const char *name)
{
    char path[SYSFS_PATH_MAX];
    struct sysfs_class_device *cdev = NULL;

    if (!cls || !name) {
        errno = EINVAL;
        return NULL;
    }

    if (cls->devices) {
        cdev = (struct sysfs_class_device *)dlist_find_custom
            (cls->devices, (void *)name, cdev_name_equal);
        if (cdev)
            return cdev;
    }
}

```

```

safestrncpy(path, cls->path);
safestrncat(path, "/");
safestrncat(path, name);
cdev = sysfs_open_class_device_path(path);
if (!cdev) {
    dprintf("Error opening class device at %s\n", path);
    return NULL;
}
if (!cls->devices)
    cls->devices = dlist_new_with_delete
        (sizeof(struct sysfs_class_device),
         sysfs_close_cls_dev);

dlist_unshift_sorted(cls->devices, cdev, sort_list);
return cdev;
}

/**
 * Add class devices to list
 */
static void add_cdevs_to_classlist(struct sysfs_class *cls, struct dlist
*list)
{
    char path[SYSFS_PATH_MAX], *cdev_name;
    struct sysfs_class_device *cdev = NULL;

    if (cls == NULL || list == NULL)
        return;

    dlist_for_each_data(list, cdev_name, char) {
        if (cls->devices) {
            cdev = (struct sysfs_class_device *)
                dlist_find_custom(cls->devices,
                (void *)cdev_name, cdev_name_equal);
            if (cdev)
                continue;
        }
        safestrncpy(path, cls->path);
        safestrncat(path, "/");
        safestrncat(path, cdev_name);
        cdev = sysfs_open_class_device_path(path);
        if (cdev) {
            if (!cls->devices)
                cls->devices = dlist_new_with_delete
                    (sizeof(struct sysfs_class_device),
                     sysfs_close_cls_dev);
            dlist_unshift_sorted(cls->devices, cdev,
                sort_list);
        }
    }
}

/**
 * sysfs_get_class_devices: get all class devices in the given class

```

```

* @cls: sysfs_class whose devices list is needed
*
* Returns a dlist of sysfs_class_device * on success and NULL on failure
*/
struct dlist *sysfs_get_class_devices(struct sysfs_class *cls)
{
    char path[SYSFS_PATH_MAX];
    struct dlist *dirlist, *linklist;

    if (!cls) {
        errno = EINVAL;
        return NULL;
    }

    /*
     * Post linux-2.6.14, we have nested classes and links under
     * /sys/class/xxx/. are also valid class devices
     */
    safestrncpy(path, cls->path);
    dirlist = read_dir_subdirs(path);
    if (dirlist) {
        add_cdevs_to_classlist(cls, dirlist);
        sysfs_close_list(dirlist);
    }

    linklist = read_dir_links(path);
    if (linklist) {
        add_cdevs_to_classlist(cls, linklist);
        sysfs_close_list(linklist);
    }

    return cls->devices;
}

```

### sysfs\_device.c

```

/*
 * sysfs_device.c
 *
 * Generic device utility functions for libsysfs
 *
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 */

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* Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307
USA
*
*/
#include "libsysfs.h"
#include "sysfs.h"

/**
 * get_dev_driver: fills in the dev->driver_name field
 * Returns 0 on SUCCESS and -1 on error
 */
static int get_dev_driver(struct sysfs_device *dev)
{
    char path[SYSFS_PATH_MAX], devpath[SYSFS_PATH_MAX];

    if (!dev) {
        errno = EINVAL;
        return -1;
    }
    memset(path, 0, SYSFS_PATH_MAX);
    memset(devpath, 0, SYSFS_PATH_MAX);
    safestrncpy(path, dev->path, SYSFS_PATH_MAX);
    safestrncat(path, "/driver", SYSFS_PATH_MAX);
    if (!sysfs_path_is_link(path)) {
        if (!sysfs_get_link(path, devpath, SYSFS_PATH_MAX)) {
            if (!sysfs_get_name_from_path(devpath,
                dev->driver_name, SYSFS_NAME_LEN))
                return 0;
        }
    }
    return -1;
}

/**
 * sysfs_get_device_bus: retrieves the bus name the device is on, checks
path
 * to bus' link to make sure it has correct device.
 * @dev: device to get busname.
 * returns 0 with success and -1 with error.
 */
int sysfs_get_device_bus(struct sysfs_device *dev)
{
    char devpath[SYSFS_PATH_MAX], path[SYSFS_PATH_MAX];

    if (!dev) {
        errno = EINVAL;
        return -1;
    }

    memset(path, 0, SYSFS_PATH_MAX);
    memset(devpath, 0, SYSFS_PATH_MAX);
    safestrncpy(path, dev->path, SYSFS_PATH_MAX);

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safestrcatmax(path, "/bus", SYSFS_PATH_MAX);
if (!sysfs_path_is_link(path)) {
    if (!sysfs_get_link(path, devpath, SYSFS_PATH_MAX)) {
        if (!sysfs_get_name_from_path(devpath,
            dev->bus, SYSFS_NAME_LEN))
            return 0;
    }
}
return -1;
}

/**
 * get_dev_subsystem: fills in the dev->subsystem field
 * Returns 0 on SUCCESS and -1 on error
 */
static int get_dev_subsystem(struct sysfs_device *dev)
{
    char path[SYSFS_PATH_MAX], devpath[SYSFS_PATH_MAX];

    if (!dev) {
        errno = EINVAL;
        return -1;
    }
    memset(path, 0, SYSFS_PATH_MAX);
    memset(devpath, 0, SYSFS_PATH_MAX);
    safestrcpymax(path, dev->path, SYSFS_PATH_MAX);
    safestrcatmax(path, "/subsystem", SYSFS_PATH_MAX);
    if (!sysfs_path_is_link(path)) {
        if (!sysfs_get_link(path, devpath, SYSFS_PATH_MAX)) {
            if (!sysfs_get_name_from_path(devpath,
                dev->subsystem, SYSFS_NAME_LEN))
                return 0;
        }
    }
    return -1;
}

/**
 * sysfs_close_dev_tree: routine for dlist integration
 */
void sysfs_close_dev_tree(void *dev)
{
    sysfs_close_device_tree((struct sysfs_device *)dev);
}

/**
 * sysfs_close_device_tree: closes every device in the supplied tree,
 * closing children only.
 * @devroot: device root of tree.
 */
void sysfs_close_device_tree(struct sysfs_device *devroot)
{
    if (devroot) {
        if (devroot->children) {
            struct sysfs_device *child = NULL;

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                dlist_for_each_data(devroot->children, child,
                                struct sysfs_device)
                    sysfs_close_device_tree(child);
            }
            devroot->children = NULL;
            sysfs_close_device(devroot);
        }
    }

/**
 * sysfs_close_device: closes and cleans up a device
 * @dev = device to clean up
 */
void sysfs_close_device(struct sysfs_device *dev)
{
    if (dev) {
        if (dev->parent)
            sysfs_close_device(dev->parent);
        if (dev->children && dev->children->count)
            dlist_destroy(dev->children);
        if (dev->attrlist)
            dlist_destroy(dev->attrlist);
        free(dev);
    }
}

/**
 * alloc_device: allocates and initializes device structure
 * returns struct sysfs_device
 */
static struct sysfs_device *alloc_device(void)
{
    return (struct sysfs_device *) calloc(1, sizeof(struct
sysfs_device));
}

/**
 * sysfs_open_device_path: opens and populates device structure
 * @path: path to device, this is the /sys/devices/ path
 * returns sysfs_device structure with success or NULL with error
 */
struct sysfs_device *sysfs_open_device_path(const char *path)
{
    struct sysfs_device *dev;

    if (!path) {
        errno = EINVAL;
        return NULL;
    }
    if (sysfs_path_is_dir(path)) {
        dprintf("Incorrect path to device: %s\n", path);
        return NULL;
    }
}

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dev = alloc_device();
if (!dev) {
    dprintf("Error allocating device at %s\n", path);
    return NULL;
}
if (sysfs_get_name_from_path(path, dev->bus_id, SYSFS_NAME_LEN)) {
    errno = EINVAL;
    dprintf("Error getting device bus_id\n");
    sysfs_close_device(dev);
    return NULL;
}
safestrncpy(dev->path, path);
if (sysfs_remove_trailing_slash(dev->path)) {
    dprintf("Invalid path to device %s\n", dev->path);
    sysfs_close_device(dev);
    return NULL;
}
/*
 * The "name" attribute no longer exists... return the device's
 * sysfs representation instead, in the "dev->name" field, which
 * implies that the dev->name and dev->bus_id contain same data.
 */
safestrncpy(dev->name, dev->bus_id);

if (sysfs_get_device_bus(dev))
    dprintf("Could not get device bus\n");

if (get_dev_driver(dev)) {
    dprintf("Could not get device %s's driver\n", dev->bus_id);
    safestrncpy(dev->driver_name, SYSFS_UNKNOWN);
}

if (get_dev_subsystem(dev)) {
    dprintf("Could not get device %s's subsystem\n", dev-
>bus_id);
    safestrncpy(dev->subsystem, SYSFS_UNKNOWN);
}
return dev;
}

/**
 * sysfs_open_device_tree: opens root device and all of its children,
 * creating a tree of devices. Only opens children.
 * @path: sysfs path to devices
 * returns struct sysfs_device and its children with success or NULL with
 * error.
 */
struct sysfs_device *sysfs_open_device_tree(const char *path)
{
    struct sysfs_device *rootdev = NULL, *new = NULL;
    struct sysfs_device *cur = NULL;
    struct sysfs_device *devlist;

    if (path == NULL) {

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        errno = EINVAL;
        return NULL;
    }
    rootdev = sysfs_open_device_path(path);
    if (rootdev == NULL) {
        dprintf("Error opening root device at %s\n", path);
        return NULL;
    }

    devlist = sysfs_read_dir_subdirs(path);
    if (devlist->children) {
        dlist_for_each_data(devlist->children, cur,
            struct sysfs_device) {
            new = sysfs_open_device_tree(cur->path);
            if (new == NULL) {
                dprintf("Error opening device tree at %s\n",
                    cur->path);
                sysfs_close_device_tree(rootdev);
                return NULL;
            }
            if (rootdev->children == NULL)
                rootdev->children = dlist_new_with_delete
                    (sizeof(struct sysfs_device),
                    sysfs_close_dev_tree);
            dlist_unshift_sorted(rootdev->children, new, sort_list);
        }
    }

    return rootdev;
}

/**
 * sysfs_get_device_attr: searches dev's attributes by name
 * @dev: device to look through
 * @name: attribute name to get
 * returns sysfs_attribute reference with success or NULL with error.
 */
struct sysfs_attribute *sysfs_get_device_attr(struct sysfs_device *dev,
                                             const char *name)
{
    if (!dev || !name) {
        errno = EINVAL;
        return NULL;
    }
    return get_attribute(dev, (char *)name);
}

/**
 * sysfs_get_device_attributes: gets list of device attributes
 * @dev: device whose attributes list is needed
 * returns dlist of attributes on success or NULL on error
 */
struct dlist *sysfs_get_device_attributes(struct sysfs_device *dev)
{

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    if (!dev) {
        errno = EINVAL;
        return NULL;
    }
    return get_dev_attributes_list(dev);
}

/**
 * get_device_absolute_path: looks up the bus the device is on, gets
 * absolute path to the device
 * @device: device for which path is needed
 * @path: buffer to store absolute path
 * @psize: size of "path"
 * Returns 0 on success -1 on failure
 */
static int get_device_absolute_path(const char *device, const char *bus,
                                   char *path, size_t psize)
{
    char bus_path[SYSFS_PATH_MAX];

    if (!device || !path) {
        errno = EINVAL;
        return -1;
    }

    memset(bus_path, 0, SYSFS_PATH_MAX);
    if (sysfs_get_mnt_path(bus_path, SYSFS_PATH_MAX)) {
        dprintf("Sysfs not supported on this system\n");
        return -1;
    }
    safestrcat(bus_path, "/");
    safestrcat(bus_path, SYSFS_BUS_NAME);
    safestrcat(bus_path, "/");
    safestrcat(bus_path, bus);
    safestrcat(bus_path, "/");
    safestrcat(bus_path, SYSFS_DEVICES_NAME);
    safestrcat(bus_path, "/");
    safestrcat(bus_path, device);
    /*
     * We now are at /sys/bus/"bus_name"/devices/"device" which is a
link.
     * Now read this link to reach to the device.
     */
    if (sysfs_get_link(bus_path, path, psize)) {
        dprintf("Error getting to device %s\n", device);
        return -1;
    }
    return 0;
}

/**
 * sysfs_open_device: open a device by id (use the "bus" subsystem)
 * @bus: bus the device belongs to
 * @bus_id: bus_id of the device to open - has to be the "bus_id" in

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*          /sys/bus/xxx/devices
* returns struct sysfs_device if found, NULL otherwise
* NOTE:
* 1. Use sysfs_close_device to close the device
* 2. Bus the device is on must be supplied
* Use sysfs_find_device_bus to get the bus name
*/
struct sysfs_device *sysfs_open_device(const char *bus, const char
*bus_id)
{
    char sysfs_path[SYSFS_PATH_MAX];
    struct sysfs_device *device;

    if (!bus_id || !bus) {
        errno = EINVAL;
        return NULL;
    }
    memset(sysfs_path, 0, SYSFS_PATH_MAX);
    if (get_device_absolute_path(bus_id, bus, sysfs_path,
        SYSFS_PATH_MAX)) {
        dprintf("Error getting to device %s\n", bus_id);
        return NULL;
    }

    device = sysfs_open_device_path(sysfs_path);
    if (!device) {
        dprintf("Error opening device %s\n", bus_id);
        return NULL;
    }
    return device;
}

/**
* sysfs_get_device_parent: opens up given device's parent and returns a
* reference to its sysfs_device
* @dev: sysfs_device whose parent is requested
* Returns sysfs_device of the parent on success and NULL on failure
*/
struct sysfs_device *sysfs_get_device_parent(struct sysfs_device *dev)
{
    char ppath[SYSFS_PATH_MAX], dpath[SYSFS_PATH_MAX], *tmp;

    if (!dev) {
        errno = EINVAL;
        return NULL;
    }

    if (dev->parent)
        return (dev->parent);

    memset(ppath, 0, SYSFS_PATH_MAX);
    memset(dpath, 0, SYSFS_PATH_MAX);
    safestrcpy(ppath, dev->path);
    tmp = strrchr(ppath, '/');

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if (!tmp) {
    dprintf("Invalid path to device %s\n", ppath);
    return NULL;
}
if (*(tmp + 1) == '\\0') {
    *tmp = '\\0';
    tmp = strrchr(tmp, '/');
    if (tmp == NULL) {
        dprintf("Invalid path to device %s\n", ppath);
        return NULL;
    }
}
*tmp = '\\0';

/* Make sure we're at the top of the device tree */
if (sysfs_get_mnt_path(dpath, SYSFS_PATH_MAX) != 0) {
    dprintf("Sysfs not supported on this system\n");
    return NULL;
}
safestrcat(dpath, "/");
safestrcat(dpath, SYSFS_DEVICES_NAME);

if (strcmp(dpath, ppath) == 0) {
    dprintf("Device at %s does not have a parent\n", dev->path);
    return NULL;
}

dev->parent = sysfs_open_device_path(ppath);
if (!dev->parent) {
    dprintf("Error opening device %s's parent at %s\n",
           dev->bus_id, ppath);

    return NULL;
}
return (dev->parent);
}

```

## sysfs\_dir.c

```

/*
 * sysfs_dir.c
 *
 * Directory utility functions for libsysfs
 *
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```

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* Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307
USA
*
*/
#include "libsysfs.h"
#include "sysfs.h"

/**
 * sysfs_del_attribute: routine for dlist integration
 */
static void sysfs_del_attribute(void *attr)
{
    sysfs_close_attribute((struct sysfs_attribute *)attr);
}

/**
 * sysfs_del_link: routine for dlist integration
 */
static void sysfs_del_link(void *ln)
{
    sysfs_close_link((struct sysfs_link *)ln);
}

/**
 * sysfs_del_dir: routine for dlist integration
 */
static void sysfs_del_directory(void *dir)
{
    sysfs_close_directory((struct sysfs_directory *)dir);
}

/**
 * dir_attribute_name_equal: compares dir attributes by name
 * @a: attribute name for comparison
 * @b: sysfs_attribute to be compared.
 * returns 1 if a==b->name or 0 if not equal
 */
static int dir_attribute_name_equal(void *a, void *b)
{
    if (a == NULL || b == NULL)
        return 0;

    if (strcmp(((char *)a), ((struct sysfs_attribute *)b)->name) == 0)
        return 1;

    return 0;
}

/**
 * dir_link_name_equal: compares dir links by name

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* @a: link name for comparison
* @b: sysfs_link to be compared.
* returns 1 if a==b->name or 0 if not equal
*/
static int dir_link_name_equal(void *a, void *b)
{
    if (a == NULL || b == NULL)
        return 0;

    if (strcmp(((char *)a), ((struct sysfs_link *)b)->name) == 0)
        return 1;

    return 0;
}

/**
* dir_subdir_name_equal: compares subdirs by name
* @a: name of subdirectory to compare
* @b: sysfs_directory subdirectory to be compared
* returns 1 if a==b->name or 0 if not equal
*/
static int dir_subdir_name_equal(void *a, void *b)
{
    if (a == NULL || b == NULL)
        return 0;

    if (strcmp(((char *)a), ((struct sysfs_directory *)b)->name) == 0)
        return 1;

    return 0;
}

/**
* sysfs_close_attribute: closes and cleans up attribute
* @sysattr: attribute to close.
*/
void sysfs_close_attribute(struct sysfs_attribute *sysattr)
{
    if (sysattr != NULL) {
        if (sysattr->value != NULL)
            free(sysattr->value);
        free(sysattr);
    }
}

/**
* alloc_attribute: allocates and initializes attribute structure
* returns struct sysfs_attribute with success and NULL with error.
*/
static struct sysfs_attribute *alloc_attribute(void)
{
    return (struct sysfs_attribute *)
        calloc(1, sizeof(struct sysfs_attribute));
}

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/**
 * sysfs_open_attribute: creates sysfs_attribute structure
 * @path: path to attribute.
 * returns sysfs_attribute struct with success and NULL with error.
 */
struct sysfs_attribute *sysfs_open_attribute(const char *path)
{
    struct sysfs_attribute *sysattr = NULL;
    struct stat fileinfo;

    if (path == NULL) {
        errno = EINVAL;
        return NULL;
    }
    sysattr = alloc_attribute();
    if (sysattr == NULL) {
        dprintf("Error allocating attribute at %s\n", path);
        return NULL;
    }
    if (sysfs_get_name_from_path(path, sysattr->name,
        SYSFS_NAME_LEN) != 0) {
        dprintf("Error retrieving attrib name from path: %s\n",
path);
        sysfs_close_attribute(sysattr);
        return NULL;
    }
    safestrcpy(sysattr->path, path);
    if ((stat(sysattr->path, &fileinfo)) != 0) {
        dprintf("Stat failed: No such attribute?\n");
        sysattr->method = 0;
        free(sysattr);
        sysattr = NULL;
    } else {
        if (fileinfo.st_mode & S_IRUSR)
            sysattr->method |= SYSFS_METHOD_SHOW;
        if (fileinfo.st_mode & S_IWUSR)
            sysattr->method |= SYSFS_METHOD_STORE;
    }

    return sysattr;
}

/**
 * sysfs_write_attribute: write value to the attribute
 * @sysattr: attribute to write
 * @new_value: value to write
 * @len: length of "new_value"
 * returns 0 with success and -1 with error.
 */
int sysfs_write_attribute(struct sysfs_attribute *sysattr,
    const char *new_value, size_t len)
{
    int fd;

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int length;

if (sysattr == NULL || new_value == NULL || len == 0) {
    errno = EINVAL;
    return -1;
}

if (!(sysattr->method & SYSFS_METHOD_STORE)) {
    dprintf ("Store method not supported for attribute %s\n",
            sysattr->path);
    errno = EACCES;
    return -1;
}

if (sysattr->method & SYSFS_METHOD_SHOW) {
    /*
     * read attribute again to see if we can get an updated value
     */
    if ((sysfs_read_attribute(sysattr)) != 0) {
        dprintf("Error reading attribute\n");
        return -1;
    }
    if ((strcmp(sysattr->value, new_value, sysattr->len)) == 0)
{
        dprintf("Attr %s already has the requested value %s\n",
                sysattr->name, new_value);
        return 0;
    }
}
/*
 * open O_WRONLY since some attributes have no "read" but only
 * "write" permission
 */
if ((fd = open(sysattr->path, O_WRONLY)) < 0) {
    dprintf("Error reading attribute %s\n", sysattr->path);
    return -1;
}

length = write(fd, new_value, len);
if (length < 0) {
    dprintf("Error writing to the attribute %s - invalid
value?\n",
            sysattr->name);
    close(fd);
    return -1;
} else if ((unsigned int)length != len) {
    dprintf("Could not write %d bytes to attribute %s\n",
            len, sysattr->name);
    /*
     * since we could not write user supplied number of bytes,
     * restore the old value if one available
     */
    if (sysattr->method & SYSFS_METHOD_SHOW) {
        length = write(fd, sysattr->value, sysattr->len);
        close(fd);
    }
}

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        return -1;
    }
}

/*
 * Validate length that has been copied. Alloc appropriate area
 * in sysfs_attribute. Verify first if the attribute supports
reading
 * (show method). If it does not, do not bother
 */
if (sysattr->method & SYSFS_METHOD_SHOW) {
    if (length != sysattr->len) {
        sysattr->value = (char *)realloc
            (sysattr->value, length);
        sysattr->len = length;
        safestrncpy(sysattr->value, new_value, length);
    } else {
        /*"length" of the new value is same as old one */
        safestrncpy(sysattr->value, new_value, length);
    }
}

close(fd);
return 0;
}

/**
 * sysfs_read_attribute: reads value from attribute
 * @sysattr: attribute to read
 * returns 0 with success and -1 with error.
 */
int sysfs_read_attribute(struct sysfs_attribute *sysattr)
{
    char *fbuf = NULL;
    char *vbuf = NULL;
    ssize_t length = 0;
    long pgsz = 0;
    int fd;

    if (sysattr == NULL) {
        errno = EINVAL;
        return -1;
    }
    if (!(sysattr->method & SYSFS_METHOD_SHOW)) {
        dprintf("Show method not supported for attribute %s\n",
            sysattr->path);
        errno = EACCES;
        return -1;
    }
    pgsz = sysconf(_SC_PAGESIZE);
    fbuf = (char *)calloc(1, pgsz+1);
    if (fbuf == NULL) {
        dprintf("calloc failed\n");
        return -1;
    }

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    }
    if ((fd = open(sysattr->path, O_RDONLY)) < 0) {
        dprintf("Error reading attribute %s\n", sysattr->path);
        free(fbuf);
        return -1;
    }
    length = read(fd, fbuf, pgsz);
    if (length < 0) {
        dprintf("Error reading from attribute %s\n", sysattr->path);
        close(fd);
        free(fbuf);
        return -1;
    }
    if (sysattr->len > 0) {
        if ((sysattr->len == length) &&
            (!(strcmp(sysattr->value, fbuf, length)))) {
            close(fd);
            free(fbuf);
            return 0;
        }
        free(sysattr->value);
    }
    sysattr->len = length;
    close(fd);
    vbuf = (char *)realloc(fbuf, length+1);
    if (vbuf == NULL) {
        dprintf("realloc failed\n");
        free(fbuf);
        return -1;
    }
    sysattr->value = vbuf;

    return 0;
}

/**
 * sysfs_read_attribute_value: given path to attribute, return its value.
 * values can be up to a pagesize, if buffer is smaller the value will
 * be truncated.
 * @attrpath: sysfs path to attribute
 * @value: buffer to put value
 * @vsize: size of value buffer
 * returns 0 with success and -1 with error.
 */
int sysfs_read_attribute_value(const char *attrpath,
                              char *value, size_t vsize)
{
    struct sysfs_attribute *attr = NULL;
    size_t length = 0;

    if (attrpath == NULL || value == NULL || vsize == 0) {
        errno = EINVAL;
        return -1;
    }
}

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attr = sysfs_open_attribute(attrpath);
if (attr == NULL) {
    dprintf("Invalid attribute path %s\n", attrpath);
    errno = EINVAL;
    return -1;
}
if((sysfs_read_attribute(attr)) != 0 || attr->value == NULL) {
    dprintf("Error reading from attribute %s\n", attrpath);
    sysfs_close_attribute(attr);
    return -1;
}
length = strlen(attr->value);
if (length > vsize)
    dprintf("Value length %d is larger than supplied buffer
%d\n",
           length, vsize);
safestrncpymax(value, attr->value, vsize);
sysfs_close_attribute(attr);

return 0;
}

/**
 * sysfs_get_value_from_attributes: given a linked list of attributes and
an
 * attribute name, return its value
 * @attr: attribute to search
 * @name: name to look for
 * returns char * value - could be NULL
 */
char *sysfs_get_value_from_attributes(struct dlist *attr, const char
*name)
{
    struct sysfs_attribute *cur = NULL;

    if (attr == NULL || name == NULL) {
        errno = EINVAL;
        return NULL;
    }
    dlist_for_each_data(attr, cur, struct sysfs_attribute) {
        if (strcmp(cur->name, name) == 0)
            return cur->value;
    }
    return NULL;
}

/**
 * sysfs_close_link: closes and cleans up link.
 * @ln: link to close.
 */
void sysfs_close_link(struct sysfs_link *ln)
{
    if (ln != NULL)

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        free(ln);
    }

/**
 * sysfs_close_directory: closes directory, cleans up attributes and
 links
 * @sysdir: sysfs_directory to close
 */
void sysfs_close_directory(struct sysfs_directory *sysdir)
{
    if (sysdir != NULL) {
        if (sysdir->subdirs != NULL)
            dlist_destroy(sysdir->subdirs);
        if (sysdir->links != NULL)
            dlist_destroy(sysdir->links);
        if (sysdir->attributes != NULL)
            dlist_destroy(sysdir->attributes);
        free(sysdir);
        sysdir = NULL;
    }
}

/**
 * alloc_directory: allocates and initializes directory structure
 * returns struct sysfs_directory with success or NULL with error.
 */
static struct sysfs_directory *alloc_directory(void)
{
    return (struct sysfs_directory *)
        calloc(1, sizeof(struct sysfs_directory));
}

/**
 * alloc_link: allocates and initializes link structure
 * returns struct sysfs_link with success or NULL with error.
 */
static struct sysfs_link *alloc_link(void)
{
    return (struct sysfs_link *)calloc(1, sizeof(struct sysfs_link));
}

/**
 * sysfs_read_all_subdirs: calls sysfs_read_directory for all subdirs
 * @sysdir: directory whose subdirs need reading.
 * returns 0 with success and -1 with error.
 */
int sysfs_read_all_subdirs(struct sysfs_directory *sysdir)
{
    struct sysfs_directory *cursub = NULL;
    int retval = 0;

    if (sysdir == NULL) {
        errno = EINVAL;
        return -1;
    }
}

```

```

    }
    if (sysdir->subdirs == NULL)
        if ((sysfs_read_dir_subdirs(sysdir)) != 0)
            return 0;
    if (sysdir->subdirs != NULL) {
        dlist_for_each_data(sysdir->subdirs, cursub,
                            struct sysfs_directory) {
            if ((sysfs_read_dir_subdirs(cursub)) != 0) {
                dprintf ("Error reading subdirectory %s\n",
                        cursub->name);
                retval = -1;
            }
        }
    }
    if (!retval)
        errno = 0;
    return retval;
}

/**
 * sysfs_open_directory: opens a sysfs directory, creates dir struct, and
 * returns.
 * @path: path of directory to open.
 * returns: struct sysfs_directory * with success and NULL on error.
 */
struct sysfs_directory *sysfs_open_directory(const char *path)
{
    struct sysfs_directory *sdir = NULL;

    if (path == NULL) {
        errno = EINVAL;
        return NULL;
    }

    if (sysfs_path_is_dir(path) != 0) {
        dprintf("Invalid path to directory %s\n", path);
        errno = EINVAL;
        return NULL;
    }

    sdir = alloc_directory();
    if (sdir == NULL) {
        dprintf("Error allocating directory %s\n", path);
        return NULL;
    }
    if (sysfs_get_name_from_path(path, sdir->name, SYSFS_NAME_LEN) !=
0) {
        dprintf("Error getting directory name from path: %s\n",
path);
        sysfs_close_directory(sdir);
        return NULL;
    }
    safestrncpy(sdir->path, path);

```

```

        return sdir;
    }

/**
 * sysfs_open_link: opens a sysfs link, creates struct, and returns
 * @path: path of link to open.
 * returns: struct sysfs_link * with success and NULL on error.
 */
struct sysfs_link *sysfs_open_link(const char *linkpath)
{
    struct sysfs_link *ln = NULL;

    if (linkpath == NULL || strlen(linkpath) > SYSFS_PATH_MAX) {
        errno = EINVAL;
        return NULL;
    }

    ln = alloc_link();
    if (ln == NULL) {
        dprintf("Error allocating link %s\n", linkpath);
        return NULL;
    }
    safestrcpy(ln->path, linkpath);
    if ((sysfs_get_name_from_path(linkpath, ln->name, SYSFS_NAME_LEN)
!= 0
        || (sysfs_get_link(linkpath, ln->target, SYSFS_PATH_MAX)) != 0)
    {
        sysfs_close_link(ln);
        errno = EINVAL;
        dprintf("Invalid link path %s\n", linkpath);
        return NULL;
    }

    return ln;
}

/**
 * add_attribute: open and add attribute at path to given directory
 * @sysdir: directory to add attribute to
 * @path: path to attribute
 * returns 0 with success and -1 with error.
 */
static int add_attribute(struct sysfs_directory *sysdir, const char
*path)
{
    struct sysfs_attribute *attr = NULL;

    attr = sysfs_open_attribute(path);
    if (attr == NULL) {
        dprintf("Error opening attribute %s\n", path);
        return -1;
    }
    if (attr->method & SYSFS_METHOD_SHOW) {
        if ((sysfs_read_attribute(attr)) != 0) {

```

```

        dprintf("Error reading attribute %s\n", path);
        sysfs_close_attribute(attr);
        return 0;
    }
}

if (sysdir->attributes == NULL) {
    sysdir->attributes = dlist_new_with_delete
        (sizeof(struct sysfs_attribute), sysfs_del_attribute);
}
dlist_unshift_sorted(sysdir->attributes, attr, sort_list);

return 0;
}

/**
 * add_subdirectory: open and add subdirectory at path to given directory
 * @sysdir: directory to add subdir to
 * @path: path to subdirectory
 * returns 0 with success and -1 with error.
 */
static int add_subdirectory(struct sysfs_directory *sysdir, const char
*path)
{
    struct sysfs_directory *subdir = NULL;

    subdir = sysfs_open_directory(path);
    if (subdir == NULL) {
        dprintf("Error opening directory %s\n", path);
        return -1;
    }
    if (sysdir->subdirs == NULL)
        sysdir->subdirs = dlist_new_with_delete
            (sizeof(struct sysfs_directory), sysfs_del_directory);
    dlist_unshift_sorted(sysdir->subdirs, subdir, sort_list);
    return 0;
}

/**
 * add_link: open and add link at path to given directory
 * @sysdir: directory to add link to
 * @path: path to link
 * returns 0 with success and -1 with error.
 */
static int add_link(struct sysfs_directory *sysdir, const char *path)
{
    struct sysfs_link *ln = NULL;

    ln = sysfs_open_link(path);
    if (ln == NULL) {
        dprintf("Error opening link %s\n", path);
        return -1;
    }
    if (sysdir->links == NULL)

```

```

        sysdir->links = dlist_new_with_delete
            (sizeof(struct sysfs_link), sysfs_del_link);
    dlist_unshift_sorted(sysdir->links, ln, sort_list);
    return 0;
}

/**
 * sysfs_read_dir_attributes: grabs attributes for the given directory
 * @sysdir: sysfs directory to open
 * returns 0 with success and -1 with error.
 */
int sysfs_read_dir_attributes(struct sysfs_directory *sysdir)
{
    DIR *dir = NULL;
    struct dirent *dirent = NULL;
    char file_path[SYSFS_PATH_MAX];
    int retval = 0;

    if (sysdir == NULL) {
        errno = EINVAL;
        return -1;
    }
    dir = opendir(sysdir->path);
    if (dir == NULL) {
        dprintf("Error opening directory %s\n", sysdir->path);
        return -1;
    }
    while(((dirent = readdir(dir)) != NULL) && retval == 0) {
        if (0 == strcmp(dirent->d_name, "."))
            continue;
        if (0 == strcmp(dirent->d_name, ".."))
            continue;
        memset(file_path, 0, SYSFS_PATH_MAX);
        safestrcpy(file_path, sysdir->path);
        safestrcat(file_path, "/");
        safestrcat(file_path, dirent->d_name);
        if ((sysfs_path_is_file(file_path)) == 0)
            retval = add_attribute(sysdir, file_path);
    }
    closedir(dir);
    if (!retval)
        errno = 0;
    return(retval);
}

/**
 * sysfs_read_dir_links: grabs links in a specific directory
 * @sysdir: sysfs directory to read links
 * returns 0 with success and -1 with error.
 */
int sysfs_read_dir_links(struct sysfs_directory *sysdir)
{
    DIR *dir = NULL;
    struct dirent *dirent = NULL;

```

```

char file_path[SYSFS_PATH_MAX];
int retval = 0;

if (sysdir == NULL) {
    errno = EINVAL;
    return -1;
}
dir = opendir(sysdir->path);
if (dir == NULL) {
    dprintf("Error opening directory %s\n", sysdir->path);
    return -1;
}
while(((dirent = readdir(dir)) != NULL) && retval == 0) {
    if (0 == strcmp(dirent->d_name, "."))
        continue;
    if (0 == strcmp(dirent->d_name, ".."))
        continue;
    memset(file_path, 0, SYSFS_PATH_MAX);
    safestrcpy(file_path, sysdir->path);
    safestrcat(file_path, "/");
    safestrcat(file_path, dirent->d_name);
    if ((sysfs_path_is_link(file_path)) == 0) {
        retval = add_link(sysdir, file_path);
        if (retval != 0)
            break;
    }
}
closedir(dir);
if (!retval)
    errno = 0;
return(retval);
}

/**
 * sysfs_read_dir_subdirs: grabs subdirs in a specific directory
 * @sysdir: sysfs directory to read links
 * returns 0 with success and -1 with error.
 */
int sysfs_read_dir_subdirs(struct sysfs_directory *sysdir)
{
    DIR *dir = NULL;
    struct dirent *dirent = NULL;
    char file_path[SYSFS_PATH_MAX];
    int retval = 0;

    if (sysdir == NULL) {
        errno = EINVAL;
        return -1;
    }
    dir = opendir(sysdir->path);
    if (dir == NULL) {
        dprintf("Error opening directory %s\n", sysdir->path);
        return -1;
    }
}

```



```

while(((dirent = readdir(dir)) != NULL) && retval == 0) {
    if (0 == strcmp(dirent->d_name, "."))
        continue;
    if (0 == strcmp(dirent->d_name, ".."))
        continue;
    memset(file_path, 0, SYSFS_PATH_MAX);
    safestrcpy(file_path, sysdir->path);
    safestrcat(file_path, "/");
    safestrcat(file_path, dirent->d_name);
    if ((sysfs_path_is_dir(file_path)) == 0)
        retval = add_subdirectory(sysdir, file_path);
}
closedir(dir);
if (!retval)
    errno = 0;
return(retval);
}

/**
 * sysfs_read_directory: grabs attributes, links, and subdirectories
 * @sysdir: sysfs directory to open
 * returns 0 with success and -1 with error.
 */
int sysfs_read_directory(struct sysfs_directory *sysdir)
{
    DIR *dir = NULL;
    struct dirent *dirent = NULL;
    struct stat astats;
    char file_path[SYSFS_PATH_MAX];
    int retval = 0;

    if (sysdir == NULL) {
        errno = EINVAL;
        return -1;
    }
    dir = opendir(sysdir->path);
    if (dir == NULL) {
        dprintf("Error opening directory %s\n", sysdir->path);
        return -1;
    }
    while(((dirent = readdir(dir)) != NULL) && retval == 0) {
        if (0 == strcmp(dirent->d_name, "."))
            continue;
        if (0 == strcmp(dirent->d_name, ".."))
            continue;
        memset(file_path, 0, SYSFS_PATH_MAX);
        safestrcpy(file_path, sysdir->path);
        safestrcat(file_path, "/");
        safestrcat(file_path, dirent->d_name);
        if ((lstat(file_path, &astats)) != 0) {
            dprintf("stat failed\n");
            continue;
        }
        if (S_ISDIR(astats.st_mode))

```

```

        retval = add_subdirectory(sysdir, file_path);

    else if (S_ISLNK(astats.st_mode))
        retval = add_link(sysdir, file_path);

    else if (S_ISREG(astats.st_mode))
        retval = add_attribute(sysdir, file_path);
}
closedir(dir);
if (!retval)
    errno = 0;
return(retval);
}

/**
 * sysfs_refresh_dir_attributes: Refresh attributes list
 * @sysdir: directory whose list of attributes to refresh
 * Returns 0 on success, 1 on failure
 */
int sysfs_refresh_dir_attributes(struct sysfs_directory *sysdir)
{
    if (sysdir == NULL) {
        errno = EINVAL;
        return 1;
    }
    if ((sysfs_path_is_dir(sysdir->path)) != 0) {
        dprintf("Invalid path to directory %s\n", sysdir->path);
        errno = EINVAL;
        return 1;
    }
    if (sysdir->attributes != NULL) {
        dlist_destroy(sysdir->attributes);
        sysdir->attributes = NULL;
    }
    if ((sysfs_read_dir_attributes(sysdir)) != 0) {
        dprintf("Error refreshing attributes for directory %s\n",
                sysdir->path);

        return 1;
    }
    errno = 0;
    return 0;
}

/**
 * sysfs_refresh_dir_links: Refresh links list
 * @sysdir: directory whose list of links to refresh
 * Returns 0 on success, 1 on failure
 */
int sysfs_refresh_dir_links(struct sysfs_directory *sysdir)
{
    if (sysdir == NULL) {
        errno = EINVAL;
        return 1;
    }
}

```

```

    if ((sysfs_path_is_dir(sysdir->path)) != 0) {
        dprintf("Invalid path to directory %s\n", sysdir->path);
        errno = EINVAL;
        return 1;
    }
    if (sysdir->links != NULL) {
        dlist_destroy(sysdir->links);
        sysdir->links = NULL;
    }
    if ((sysfs_read_dir_links(sysdir)) != 0) {
        dprintf("Error refreshing links for directory %s\n",
                sysdir->path);

        return 1;
    }
    errno = 0;
    return 0;
}

/**
 * sysfs_refresh_dir_subdirs: Refresh subdirs list
 * @sysdir: directory whose list of subdirs to refresh
 * Returns 0 on success, 1 on failure
 */
int sysfs_refresh_dir_subdirs(struct sysfs_directory *sysdir)
{
    if (sysdir == NULL) {
        errno = EINVAL;
        return 1;
    }
    if ((sysfs_path_is_dir(sysdir->path)) != 0) {
        dprintf("Invalid path to directory %s\n", sysdir->path);
        errno = EINVAL;
        return 1;
    }
    if (sysdir->subdirs != NULL) {
        dlist_destroy(sysdir->subdirs);
        sysdir->subdirs = NULL;
    }
    if ((sysfs_read_dir_subdirs(sysdir)) != 0) {
        dprintf("Error refreshing subdirs for directory %s\n",
                sysdir->path);

        return 1;
    }
    errno = 0;
    return 0;
}

/**
 * sysfs_get_directory_attribute: retrieves attribute attrname from
current
 * directory only
 * @dir: directory to retrieve attribute from
 * @attrname: name of attribute to look for
 */

```

```

* NOTE: Since we know the attribute to look for, this routine looks for
the
* attribute if it was created after the attrlist was read
initially.
*
* returns sysfs_attribute if found and NULL if not found
*/
struct sysfs_attribute *sysfs_get_directory_attribute
    (struct sysfs_directory *dir, char *attrname)
{
    struct sysfs_attribute *attr = NULL;
    char new_path[SYSFS_PATH_MAX];

    if (dir == NULL || attrname == NULL) {
        errno = EINVAL;
        return NULL;
    }

    if (dir->attributes == NULL)
        if ((sysfs_read_dir_attributes(dir) != 0)
            || (dir->attributes == NULL))
            return NULL;

    attr = (struct sysfs_attribute *)dlist_find_custom
        (dir->attributes, attrname, dir_attribute_name_equal);
    if (attr != NULL) {
        if ((attr->method & SYSFS_METHOD_SHOW) &&
            (sysfs_read_attribute(attr) != 0) {
            dprintf("Error reading attribute %s\n", attr->name);
            return NULL;
        }
    } else {
        memset(new_path, 0, SYSFS_PATH_MAX);
        safestrcpy(new_path, dir->path);
        safestrcat(new_path, "/");
        safestrcat(new_path, attrname);
        if ((sysfs_path_is_file(new_path)) == 0) {
            if ((add_attribute(dir, new_path)) == 0) {
                attr = (struct sysfs_attribute *)
                    dlist_find_custom(dir->attributes,
                    attrname, dir_attribute_name_equal);
            }
        }
    }

    return attr;
}

/**
* sysfs_get_directory_link: retrieves link from one directory list
* @dir: directory to retrieve link from
* @linkname: name of link to look for
* returns reference to sysfs_link if found and NULL if not found
*/

```

```

struct sysfs_link *sysfs_get_directory_link
    (struct sysfs_directory *dir, char *linkname)
{
    if (dir == NULL || linkname == NULL) {
        errno = EINVAL;
        return NULL;
    }
    if (dir->links == NULL) {
        if ((sysfs_read_dir_links(dir) != 0) || (dir->links == NULL))
            return NULL;
    } else {
        if ((sysfs_refresh_dir_links(dir)) != 0)
            return NULL;
    }

    return (struct sysfs_link *)dlist_find_custom(dir->links,
        linkname, dir_link_name_equal);
}

```

```

/**
 * sysfs_get_subdirectory: retrieves subdirectory by name.
 * @dir: directory to search for subdirectory.
 * @subname: subdirectory name to get.
 * returns reference to subdirectory or NULL if not found
 */

```

```

struct sysfs_directory *sysfs_get_subdirectory(struct sysfs_directory
*dir,
    char *subname)
{
    struct sysfs_directory *sub = NULL, *cursub = NULL;

    if (dir == NULL || subname == NULL) {
        errno = EINVAL;
        return NULL;
    }

    if (dir->subdirs == NULL)
        if (sysfs_read_dir_subdirs(dir) != 0)
            return NULL;

    sub = (struct sysfs_directory *)dlist_find_custom(dir->subdirs,
        subname, dir_subdir_name_equal);
    if (sub != NULL)
        return sub;

    if (dir->subdirs != NULL) {
        dlist_for_each_data(dir->subdirs, cursub,
            struct sysfs_directory) {
            if (cursub->subdirs == NULL) {
                if (sysfs_read_dir_subdirs(cursub) != 0)
                    continue;
                if (cursub->subdirs == NULL)
                    continue;
            }
        }
    }
}

```

```

        sub = sysfs_get_subdirectory(cursub, subname);
        if (sub != NULL)
            return sub;
    }
}
return NULL;
}

/**
 * sysfs_get_subdirectory_link: looks through all subdirs for specific
link.
 * @dir: directory and subdirectories to search for link.
 * @linkname: link name to get.
 * returns reference to link or NULL if not found
 */
struct sysfs_link *sysfs_get_subdirectory_link(struct sysfs_directory
*dir,
                                           char *linkname)
{
    struct sysfs_directory *cursub = NULL;
    struct sysfs_link *ln = NULL;

    if (dir == NULL || linkname == NULL) {
        errno = EINVAL;
        return NULL;
    }

    ln = sysfs_get_directory_link(dir, linkname);
    if (ln != NULL)
        return ln;

    if (dir->subdirs == NULL)
        if (sysfs_read_dir_subdirs(dir) != 0)
            return NULL;

    if (dir->subdirs != NULL) {
        dlist_for_each_data(dir->subdirs, cursub,
                           struct sysfs_directory) {
            ln = sysfs_get_subdirectory_link(cursub, linkname);
            if (ln != NULL)
                return ln;
        }
    }
    return NULL;
}

/**
 * sysfs_get_dir_attributes: returns dlist of directory attributes
 * @dir: directory to retrieve attributes from
 * returns dlist of attributes or NULL
 */
struct dlist *sysfs_get_dir_attributes(struct sysfs_directory *dir)
{
    if (dir == NULL) {

```

```

        errno = EINVAL;
        return NULL;
    }

    if (dir->attributes == NULL) {
        if (sysfs_read_dir_attributes(dir) != 0)
            return NULL;
    }

    return (dir->attributes);
}

/**
 * sysfs_get_dir_links: returns dlist of directory links
 * @dir: directory to return links for
 * returns dlist of links or NULL
 */
struct dlist *sysfs_get_dir_links(struct sysfs_directory *dir)
{
    if (dir == NULL) {
        errno = EINVAL;
        return NULL;
    }

    if (dir->links == NULL) {
        if (sysfs_read_dir_links(dir) != 0)
            return NULL;
    }

    return (dir->links);
}

/**
 * sysfs_get_dir_subdirs: returns dlist of directory subdirectories
 * @dir: directory to return subdirs for
 * returns dlist of subdirs or NULL
 */
struct dlist *sysfs_get_dir_subdirs(struct sysfs_directory *dir)
{
    if (dir == NULL) {
        errno = EINVAL;
        return NULL;
    }

    if (dir->subdirs == NULL) {
        if (sysfs_read_dir_subdirs(dir) != 0)
            return NULL;
    }

    return (dir->subdirs);
}

```

**sysfs\_driver.c**

```

/*
 * sysfs_driver.c
 *
 * Driver utility functions for libsysfs
 *
 * Copyright (C) IBM Corp. 2003-2005
 *
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 * License along with this library; if not, write to the Free Software
 * Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307
 * USA
 */
#include "libsysfs.h"
#include "sysfs.h"

static void sysfs_close_driver_device(void *device)
{
    sysfs_close_device((struct sysfs_device *)device);
}

/**
 * sysfs_close_driver: closes driver and deletes device lists too
 * @driver: driver to close
 */
void sysfs_close_driver(struct sysfs_driver *driver)
{
    if (driver) {
        if (driver->devices)
            dlist_destroy(driver->devices);
        if (driver->attrlist)
            dlist_destroy(driver->attrlist);
        if (driver->module)
            sysfs_close_module(driver->module);
        free(driver);
    }
}

/**
 * alloc_driver: allocates and initializes driver
 * returns struct sysfs_driver with success and NULL with error.
 */
static struct sysfs_driver *alloc_driver(void)
{

```



```

        return (struct sysfs_driver *)calloc(1, sizeof(struct
sysfs_driver));
    }

/**
 * get_driver_bus: gets bus the driver is on
 * Returns 0 on success and 1 on error
 */
static int get_driver_bus(struct sysfs_driver *drv)
{
    char drvpath[SYSFS_PATH_MAX], *c = NULL;

    if (!drv) {
        errno = EINVAL;
        return 1;
    }

    safestrcpy(drvpath, drv->path);
    c = strstr(drvpath, SYSFS_DRIVERS_NAME);
    if (c == NULL)
        return 1;
    *--c = '\0';
    c = strstr(drvpath, SYSFS_BUS_NAME);
    if (c == NULL)
        return 1;
    c = strstr(c, "/");
    if (c == NULL)
        return 1;
    c++;
    safestrcpy(drv->bus, c);
    return 0;
}

/**
 * sysfs_get_driver_attr: searches drv's attributes by name
 * @drv: driver to look through
 * @name: attribute name to get
 * returns sysfs_attribute reference with success or NULL with error.
 */
struct sysfs_attribute *sysfs_get_driver_attr(struct sysfs_driver *drv,
                                             const char *name)
{
    if (!drv || !name) {
        errno = EINVAL;
        return NULL;
    }
    return get_attribute(drv, (char *)name);
}

/**
 * sysfs_get_driver_attributes: gets list of driver attributes
 * @dev: driver whose attributes list is needed
 * returns dlist of attributes on success or NULL on error
 */

```

```

struct dlist *sysfs_get_driver_attributes(struct sysfs_driver *drv)
{
    if (!drv) {
        errno = EINVAL;
        return NULL;
    }
    return get_dev_attributes_list(drv);
}

/**
 * sysfs_open_driver_path: opens and initializes driver structure
 * @path: path to driver directory
 * returns struct sysfs_driver with success and NULL with error
 */
struct sysfs_driver *sysfs_open_driver_path(const char *path)
{
    struct sysfs_driver *driver = NULL;

    if (!path) {
        errno = EINVAL;
        return NULL;
    }
    if (sysfs_path_is_dir(path)) {
        dprintf("Invalid path to driver: %s\n", path);
        return NULL;
    }
    driver = alloc_driver();
    if (!driver) {
        dprintf("Error allocating driver at %s\n", path);
        return NULL;
    }
    if (sysfs_get_name_from_path(path, driver->name, SYSFS_NAME_LEN)) {
        dprintf("Error getting driver name from path\n");
        free(driver);
        return NULL;
    }
    safestrncpy(driver->path, path);
    if (sysfs_remove_trailing_slash(driver->path)) {
        dprintf("Invalid path to driver %s\n", driver->path);
        sysfs_close_driver(driver);
        return NULL;
    }
    if (get_driver_bus(driver)) {
        dprintf("Could not get the bus driver is on\n");
        sysfs_close_driver(driver);
        return NULL;
    }

    return driver;
}

/**
 * get_driver_path: looks up the bus the driver is on and builds path to
 * the driver.

```

```

* @bus: bus on which to search
* @drv: driver to look for
* @path: buffer to return path to driver
* @psize: size of "path"
* Returns 0 on success and -1 on error
*/
static int get_driver_path(const char *bus, const char *drv,
                          char *path, size_t psize)
{
    if (!bus || !drv || !path || psize == 0) {
        errno = EINVAL;
        return -1;
    }
    if (sysfs_get_mnt_path(path, psize)) {
        dprintf("Error getting sysfs mount path\n");
        return -1;
    }
    safestrcatmax(path, "/", psize);
    safestrcatmax(path, SYSFS_BUS_NAME, psize);
    safestrcatmax(path, "/", psize);
    safestrcatmax(path, bus, psize);
    safestrcatmax(path, "/", psize);
    safestrcatmax(path, SYSFS_DRIVERS_NAME, psize);
    safestrcatmax(path, "/", psize);
    safestrcatmax(path, drv, psize);
    return 0;
}

/**
 * sysfs_open_driver: open driver by name, given its bus
 * @bus_name: Name of the bus
 * @drv_name: Name of the driver
 * Returns the sysfs_driver reference on success and NULL on failure
 */
struct sysfs_driver *sysfs_open_driver(const char *bus_name,
                                       const char *drv_name)
{
    char path[SYSFS_PATH_MAX];
    struct sysfs_driver *driver = NULL;

    if (!drv_name || !bus_name) {
        errno = EINVAL;
        return NULL;
    }

    memset(path, 0, SYSFS_PATH_MAX);
    if (get_driver_path(bus_name, drv_name, path, SYSFS_PATH_MAX)) {
        dprintf("Error getting to driver %s\n", drv_name);
        return NULL;
    }
    driver = sysfs_open_driver_path(path);
    if (!driver) {
        dprintf("Error opening driver at %s\n", path);
        return NULL;
    }
}

```

```

    }
    return driver;
}

/**
 * sysfs_get_driver_devices: gets list of devices that use the driver
 * @drv: sysfs_driver whose device list is needed
 * Returns dlist of struct sysfs_device on success and NULL on failure
 */
struct dlist *sysfs_get_driver_devices(struct sysfs_driver *drv)
{
    char *ln = NULL;
    struct dlist *linklist = NULL;
    struct sysfs_device *dev = NULL;

    if (!drv) {
        errno = EINVAL;
        return NULL;
    }

    linklist = read_dir_links(drv->path);
    if (linklist) {
        dlist_for_each_data(linklist, ln, char) {

            if (!strcmp(ln, SYSFS_MODULE_NAME, strlen(ln)))
                continue;

            dev = sysfs_open_device(drv->bus, ln);
            if (!dev) {
                dprintf("Error opening driver's device\n");
                sysfs_close_list(linklist);
                return NULL;
            }
            if (!drv->devices) {
                drv->devices = dlist_new_with_delete
                    (sizeof(struct sysfs_device),
                     sysfs_close_driver_device);
                if (!drv->devices) {
                    dprintf("Error creating device list\n");
                    sysfs_close_list(linklist);
                    return NULL;
                }
            }
            dlist_unshift_sorted(drv->devices, dev, sort_list);
        }
        sysfs_close_list(linklist);
    }
    return drv->devices;
}

/**
 * sysfs_get_driver_module: gets the module being used by this driver
 * @drv: sysfs_driver whose "module" is needed
 * Returns sysfs_module on success and NULL on failure
 */

```

```

*/
struct sysfs_module *sysfs_get_driver_module(struct sysfs_driver *drv)
{
    char path[SYSFS_PATH_MAX], mod_path[SYSFS_PATH_MAX];

    if (!drv) {
        errno = EINVAL;
        return NULL;
    }

    memset(path, 0, SYSFS_PATH_MAX);
    safestrcpy(path, drv->path);
    safestrcat(path, "/");
    safestrcat(path, SYSFS_MODULE_NAME);
    if (!sysfs_path_is_link(path)) {
        memset(mod_path, 0, SYSFS_PATH_MAX);
        if (!sysfs_get_link(path, mod_path, SYSFS_PATH_MAX))
            drv->module = sysfs_open_module_path(mod_path);
    }
    return drv->module;
}

```

## sysfs\_module.c

```

/*
 * sysfs_module.c
 *
 * Generic module utility functions for libsysfs
 *
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 *
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 * License along with this library; if not, write to the Free Software
 * Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307
 *
 * USA
 *
 */
#include "libsysfs.h"
#include "sysfs.h"

/**
 * mod_name_equal: compares modules' name
 * @a: module_name looking for

```

```

    * @b: sysfs_module being compared
    */
static int mod_name_equal(void *a, void *b)
{
    if (a == NULL || b == NULL)
        return 0;

    if (strcmp(((char *)a), ((struct sysfs_module *)b)->name) == 0)
        return 1;

    return 0;
}

/**
 * sysfs_close_module: closes a module.
 * @module: sysfs_module device to close.
 */
void sysfs_close_module(struct sysfs_module *module)
{
    /*
     * since both parms and sections are attribs _under_ the
     * subdir of module->directory, they will get closed by
     * this single call
     */
    if (module != NULL) {
        if (module->attrlist != NULL)
            dlist_destroy(module->attrlist);
        if (module->parmlist != NULL)
            dlist_destroy(module->parmlist);
        if (module->sections != NULL)
            dlist_destroy(module->sections);
        free(module);
    }
}

/**
 * alloc_module: callocs and initializes new module struct.
 * returns sysfs_module or NULL.
 */
static struct sysfs_module *alloc_module(void)
{
    return (struct sysfs_module *)calloc(1, sizeof(struct
sysfs_module));
}

/**
 * sysfs_open_module_path: Opens and populates the module struct
 * @path: path to module.
 * returns struct sysfs_module with success and NULL with error.
 */
struct sysfs_module *sysfs_open_module_path(const char *path)
{
    struct sysfs_module *mod = NULL;

```

```

    if (path == NULL) {
        errno = EINVAL;
        return NULL;
    }
    if ((sysfs_path_is_dir(path)) != 0) {
        dprintf("%s is not a valid path to a module\n", path);
        return NULL;
    }
    mod = alloc_module();
    if (mod == NULL) {
        dprintf("calloc failed\n");
        return NULL;
    }
    if ((sysfs_get_name_from_path(path, mod->name, SYSFS_NAME_LEN)) !=
0) {
        errno = EINVAL;
        dprintf("Error getting module name\n");
        sysfs_close_module(mod);
        return NULL;
    }

    safestrcpy(mod->path, path);
    if ((sysfs_remove_trailing_slash(mod->path)) != 0) {
        dprintf("Invalid path to module %s\n", mod->path);
        sysfs_close_module(mod);
        return NULL;
    }

    return mod;
}

/**
 * sysfs_open_module: opens specific module on a system
 * returns sysfs_module structure with success or NULL with error.
 */
struct sysfs_module *sysfs_open_module(const char *name)
{
    struct sysfs_module *mod = NULL;
    char modpath[SYSFS_PATH_MAX];

    if (name == NULL) {
        errno = EINVAL;
        return NULL;
    }

    memset(modpath, 0, SYSFS_PATH_MAX);
    if ((sysfs_get_mnt_path(modpath, SYSFS_PATH_MAX)) != 0) {
        dprintf("Sysfs not supported on this system\n");
        return NULL;
    }

    safestrcat(modpath, "/");
    safestrcat(modpath, SYSFS_MODULE_NAME);
    safestrcat(modpath, "/");

```

```

safestrncat(modpath, name);

if ((sysfs_path_is_dir(modpath)) != 0) {
    dprintf("Module %s not found on the system\n", name);
    return NULL;
}

mod = alloc_module();
if (mod == NULL) {
    dprintf("calloc failed\n");
    return NULL;
}
safestrncpy(mod->name, name);
safestrncpy(mod->path, modpath);
if ((sysfs_remove_trailing_slash(mod->path)) != 0) {
    dprintf("Invalid path to module %s\n", mod->path);
    sysfs_close_module(mod);
    return NULL;
}

return mod;
}

/**
 * sysfs_get_module_attributes: returns a dlist of attributes for
 *     the requested sysfs_module
 * @cdev: sysfs_module for which attributes are needed
 * returns a dlist of attributes if exists, NULL otherwise
 */
struct dlist *sysfs_get_module_attributes(struct sysfs_module *module)
{
    if (module == NULL) {
        errno = EINVAL;
        return NULL;
    }
    return get_dev_attributes_list(module);
}

/**
 * sysfs_get_module_attr: searches module's attributes by name
 * @module: module to look through
 * @name: attribute name to get
 * returns sysfs_attribute reference with success or NULL with error
 */
struct sysfs_attribute *sysfs_get_module_attr
(struct sysfs_module *module, const char *name)
{
    if (module == NULL || name == NULL) {
        errno = EINVAL;
        return NULL;
    }

    return get_attribute(module, (char *)name);
}

```



```

/**
 * sysfs_get_module_parms: Get modules list of parameters
 * @module: sysfs_module whose parmameter list is required
 * Returns dlist of parameters on SUCCESS and NULL on error
 */
struct dlist *sysfs_get_module_parms(struct sysfs_module *module)
{
    char ppath[SYSFS_PATH_MAX];

    if (module == NULL) {
        errno = EINVAL;
        return NULL;
    }
    memset(ppath, 0, SYSFS_PATH_MAX);
    safestrcpy(ppath, module->path);
    safestrcat(ppath, "/");
    safestrcat(ppath, SYSFS_MOD_PARM_NAME);

    return (get_attributes_list(module->parmlist, ppath));
}

/**
 * sysfs_get_module_sections: Get the set of sections for this module
 * @module: sysfs_module whose list of sections is required
 * Returns dlist of sections on SUCCESS and NULL on error
 */
struct dlist *sysfs_get_module_sections(struct sysfs_module *module)
{
    char ppath[SYSFS_PATH_MAX];

    if (module == NULL) {
        errno = EINVAL;
        return NULL;
    }

    memset(ppath, 0, SYSFS_PATH_MAX);
    safestrcpy(ppath, module->path);
    safestrcat(ppath, "/");
    safestrcat(ppath, SYSFS_MOD_SECT_NAME);

    return (get_attributes_list(module->sections, ppath));
}

/**
 * sysfs_get_module_parm:
 * @module: sysfs_module to look through
 * @parm: name of the parameter to look for
 * Returns sysfs_attribute * on SUCCESS and NULL on error
 */
struct sysfs_attribute *sysfs_get_module_parm
    (struct sysfs_module *module, const char *parm)
{
    struct dlist *parm_list = NULL;

```

```

    if (module == NULL || parm == NULL) {
        errno = EINVAL;
        return NULL;
    }

    parm_list = sysfs_get_module_parms(module);
    if (parm_list == NULL)
        return NULL;

    return (struct sysfs_attribute *)dlist_find_custom(parm_list,
        (void *)parm, mod_name_equal);
}

/**
 * sysfs_get_module_section
 * @module: sysfs_module to look through
 * @section: name of the section to look for
 * Returns sysfs_attribute * on SUCCESS and NULL on error
 */
struct sysfs_attribute *sysfs_get_module_section
    (struct sysfs_module *module, const char *section)
{
    struct dlist *sect_list = NULL;

    if (module == NULL || section == NULL) {
        errno = EINVAL;
        return NULL;
    }

    sect_list = sysfs_get_module_sections(module);
    if (sect_list == NULL)
        return NULL;

    return (struct sysfs_attribute *)dlist_find_custom(sect_list,
        (void *)section, mod_name_equal);
}

```

## sysfs\_utils.c

```

/*
 * sysfs_utils.c
 *
 * System utility functions for libsysfs
 *
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```

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* Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307
USA
*
*/
#include "libsysfs.h"
#include "sysfs.h"

/**
 * sysfs_remove_trailing_slash: Removes any trailing '/' in the given
path
 * @path: Path to look for the trailing '/'
 * Returns 0 on success 1 on error
 */
int sysfs_remove_trailing_slash(char *path)
{
    size_t len;

    if (!path) {
        errno = EINVAL;
        return 1;
    }

    len = strlen(path);
    while (len > 0 && path[len-1] == '/')
        path[--len] = '\0';
    return 0;
}

/*
 * sysfs_get_mnt_path: Gets the sysfs mount point.
 * @mnt_path: place to put "sysfs" mount point
 * @len: size of mnt_path
 * returns 0 with success and -1 with error.
 */
int sysfs_get_mnt_path(char *mnt_path, size_t len)
{
    static char sysfs_path[SYSFS_PATH_MAX] = "";
    const char *sysfs_path_env;

    if (len == 0 || mnt_path == NULL)
        return -1;

    /* evaluate only at the first call */
    if (sysfs_path[0] == '\0') {
        /* possible override of real mount path */
        sysfs_path_env = getenv(SYSFS_PATH_ENV);
        if (sysfs_path_env != NULL) {
            safestrncpy(mnt_path, sysfs_path_env, len);

```

```

        sysfs_remove_trailing_slash(mnt_path);
        return 0;
    }
    safestrcpymax(mnt_path, SYSFS_MNT_PATH, len);
}

return 0;
}

/**
 * sysfs_get_name_from_path: returns last name from a "/" delimited path
 * @path: path to get name from
 * @name: where to put name
 * @len: size of name
 */
int sysfs_get_name_from_path(const char *path, char *name, size_t len)
{
    char tmp[SYSFS_PATH_MAX];
    char *n = NULL;

    if (!path || !name || len == 0) {
        errno = EINVAL;
        return -1;
    }
    memset(tmp, 0, SYSFS_PATH_MAX);
    safestrcpy(tmp, path);
    n = strrchr(tmp, '/');
    if (n == NULL) {
        errno = EINVAL;
        return -1;
    }
    if (*(n+1) == '\\0') {
        *n = '\\0';
        n = strrchr(tmp, '/');
        if (n == NULL) {
            errno = EINVAL;
            return -1;
        }
    }
    n++;
    safestrcpymax(name, n, len);
    return 0;
}

/**
 * sysfs_get_link: returns link source
 * @path: symbolic link's path
 * @target: where to put name
 * @len: size of name
 */
int sysfs_get_link(const char *path, char *target, size_t len)
{
    char devdir[SYSFS_PATH_MAX];
    char linkpath[SYSFS_PATH_MAX];

```

```

char temp_path[SYSFS_PATH_MAX];
char *d = NULL, *s = NULL;
int slashes = 0, count = 0;

if (!path || !target || len == 0) {
    errno = EINVAL;
    return -1;
}

memset(devdir, 0, SYSFS_PATH_MAX);
memset(linkpath, 0, SYSFS_PATH_MAX);
memset(temp_path, 0, SYSFS_PATH_MAX);
safestrcpy(devdir, path);

if ((readlink(path, linkpath, SYSFS_PATH_MAX)) < 0) {
    return -1;
}
d = linkpath;
/*
 * Three cases here:
 * 1. relative path => format ../..
 * 2. absolute path => format /abcd/efgh
 * 3. relative path _from_ this dir => format abcd/efgh
 */
switch (*d) {
    case '.':
        /*
         * handle the case where link is of type ./abcd/xxx
         */
        safestrcpy(temp_path, devdir);
        if (*(d+1) == '/')
            d += 2;
        else if (*(d+1) == '.')
            goto parse_path;
        s = strrchr(temp_path, '/');
        if (s != NULL) {
            *(s+1) = '\0';
            safestrcat(temp_path, d);
        } else {
            safestrcpy(temp_path, d);
        }
        safestrcpymax(target, temp_path, len);
        break;
    /*
     * relative path, getting rid of leading "../.."
     */
}

parse_path:
while (*d == '/' || *d == '.') {
    if (*d == '/')
        slashes++;
    d++;
}
d--;
s = &devdir[strlen(devdir)-1];

```

```

        while (s != NULL && count != (slashes+1)) {
            s--;
            if (*s == '/')
                count++;
        }
        safestrcpymax(s, d, (SYSFS_PATH_MAX-strlen(devdir)));
        safestrcpymax(target, devdir, len);
        break;
    case '/':
        /* absolute path - copy as is */
        safestrcpymax(target, linkpath, len);
        break;
    default:
        /* relative path from this directory */
        safestrcpy(temp_path, devdir);
        s = strrchr(temp_path, '/');
        if (s != NULL) {
            *(s+1) = '\0';
            safestrcat(temp_path, linkpath);
        } else {
            safestrcpy(temp_path, linkpath);
        }
        safestrcpymax(target, temp_path, len);
    }
    return 0;
}

/**
 * sysfs_close_list: generic list free routine
 * @list: dlist to free
 * Returns nothing
 */
void sysfs_close_list(struct dlist *list)
{
    if (list)
        dlist_destroy(list);
}

/**
 * sysfs_open_directory_list: gets a list of all directories under "path"
 * @path: path to read
 * Returns a dlist of supported names or NULL no directories (errno is
set
 * in case of error
 */
struct dlist *sysfs_open_directory_list(const char *path)
{
    if (!path)
        return NULL;

    return (read_dir_subdirs(path));
}

/**

```

```

* sysfs_open_link_list: gets a list of all links under "path"
* @path: path to read
* Returns a dlist of supported links or NULL no directories (errno is
set
*   in case of error
*/
struct dlist *sysfs_open_link_list(const char *path)
{
    if (!path)
        return NULL;

    return (read_dir_links(path));
}

/**
* sysfs_path_is_dir: Check if the path supplied points to a directory
* @path: path to validate
* Returns 0 if path points to dir, 1 otherwise
*/
int sysfs_path_is_dir(const char *path)
{
    struct stat astats;

    if (!path) {
        errno = EINVAL;
        return 1;
    }
    if ((lstat(path, &astats)) != 0) {
        dprintf("stat() failed\n");
        return 1;
    }
    if (S_ISDIR(astats.st_mode))
        return 0;

    return 1;
}

/**
* sysfs_path_is_link: Check if the path supplied points to a link
* @path: path to validate
* Returns 0 if path points to link, 1 otherwise
*/
int sysfs_path_is_link(const char *path)
{
    struct stat astats;

    if (!path) {
        errno = EINVAL;
        return 1;
    }
    if ((lstat(path, &astats)) != 0) {
        dprintf("stat() failed\n");
        return 1;
    }
}

```

```

        if (S_ISLNK(astats.st_mode))
            return 0;

        return 1;
    }

/**
 * sysfs_path_is_file: Check if the path supplied points to a file
 * @path: path to validate
 * Returns 0 if path points to file, 1 otherwise
 */
int sysfs_path_is_file(const char *path)
{
    struct stat astats;

    if (!path) {
        errno = EINVAL;
        return 1;
    }
    if ((lstat(path, &astats)) != 0) {
        dprintf("stat() failed\n");
        return 1;
    }
    if (S_ISREG(astats.st_mode))
        return 0;

    return 1;
}

```

## sysfsutils-2.1.0\lib\CVS

### Entries

```

/LGPL/1.1.1.1/Mon Aug 25 08:12:32 2003//Tsysfsutils-2_1_0
/Makefile.am/1.2.2.5/Mon Aug 7 05:08:01 2006//Tsysfsutils-2_1_0
/Makefile.in/1.2.2.4/Fri Nov 25 14:06:05 2005//Tsysfsutils-2_1_0
/dlist.c/1.2.2.4/Fri Nov 25 14:06:05 2005//Tsysfsutils-2_1_0
/sysfs.h/1.2.2.3/Tue May 3 22:26:35 2005//Tsysfsutils-2_1_0
/sysfs_attr.c/1.1.2.3/Mon Aug 7 05:08:01 2006//Tsysfsutils-2_1_0
/sysfs_bus.c/1.2.2.2/Fri Nov 25 08:42:43 2005//Tsysfsutils-2_1_0
/sysfs_class.c/1.2.2.8/Mon Aug 7 05:08:01 2006//Tsysfsutils-2_1_0
/sysfs_device.c/1.2.2.6/Mon Aug 7 05:08:01 2006//Tsysfsutils-2_1_0
/sysfs_dir.c/1.2/Wed Apr 6 20:57:12 2005//Tsysfsutils-2_1_0
/sysfs_driver.c/1.2.2.4/Mon Nov 28 06:56:24 2005//Tsysfsutils-2_1_0
/sysfs_module.c/1.1.2.3/Mon Nov 28 08:47:31 2005//Tsysfsutils-2_1_0
/sysfs_utils.c/1.2.2.5/Mon Aug 7 05:08:01 2006//Tsysfsutils-2_1_0
D

```

### Repository

sysfsutils/lib



## Root

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Tsysfsutils-2\_1\_0

---

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Written by: Philip Hazel <ph10@cam.ac.uk>

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```
$Id: ansi2knr.c,v 1.1 2000/01/21 00:54:15 alainm Exp $*/  
Convert ANSI C function definitions to K&R ("traditional C") syntax */
```

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## **PACKAGE L30: kernel**

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++Geert: support for zorro\_unused\_z2ram, better range checking  
++roman: translate accesses via an array  
++Milan: support for ChipRAM usage  
++yambo: converted to 2.0 kernel  
++yambo: modularized and support added for 3 minor devices including:  
MAJOR MINOR DESCRIPTION

37 0 Use Zorro II and Chip ram  
37 1 Use only Zorro II ram  
37 2 Use only Chip ram  
37 4-7 Use memory list entry 1-4 (first is 0)  
++jskov: support for 1-4th memory list entry.

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Tim Deegan and Andrew Warfield November 2004

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<security/pam\_ext.h>

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<security/pam\_modutil.h>

This file is a list of handy libc wrappers that attempt to provide some thread-safe and other convenient functionality to modules in a common form.

A number of these functions reserve space in a pam\_[sg]et\_data item. In all cases, the name of the item is prefixed with "pam\_modutil\_\*".

On systems that simply can't support thread safe programming, these functions don't support it either - sorry.

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Written by: Philip Hazel <ph10@cam.ac.uk>

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removed dependencies of standard C libs  
added LOWSPACE option (using common space for different arrays)

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\* Olaf Beck <olaf\_sc@yahoo.com>

\* (I only did the cut down no other contribs)

\* Jörg Schilling <schilling@fokus.gmd.de>

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/* @(#)edc_ecc_dec.c 1.5 07/07/28 Copyright 1998-2001 Heiko Eissfeldt */
#ifdef lint
static char sccsid[] =
"@(#)edc_ecc_dec.c 1.5 07/07/28 Copyright 1998-2001 Heiko Eissfeldt";
#endif

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/* @(#)scsi-dos.c 1.12 06/11/26 Copyright 1998-2003 J. Schilling, 2003 Alex Kopylov
reanimatolog@yandex.ru */
#ifdef lint
static char __sccsid[] =
"@(#)scsi-dos.c 1.12 06/11/26 Copyright 1998-2003 J. Schilling, 2003 Alex Kopylov
reanimatolog@yandex.ru";
#endif
/*
* Interface for the MS-DOS ASPI managers.
* You need ASPI manager installed in your config.sys:
* aspi*.sys for SCSI devices
* oakaspi.sys for ATAPI devices
* usbaspi.sys for USB devices
*
* Made from Win32 ASPI library template.
*
* Warning: you may change this source, but if you do that
* you need to change the _scg_version and _scg_auth* string below.

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\* You may not return "schily" for an SCG\_AUTHOR request anymore.  
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/\* @(#)strtod.c 1.3 06/09/26 joerg \*/

/\* \$NetBSD: strtod.c,v 1.23 1996/10/13 00:07:55 christos Exp \$ \*/

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/* @(#)pmalloc.c 1.4 06/09/13 Copyright 2004 J. Schilling */

```

```

#ifndef lint
static char sccsid[] =
"@(#)pmalloc.c 1.4 06/09/13 Copyright 2004 J. Schilling";
#endif

```

```

/*
* Paranoia malloc() functions
*
* Copyright (c) 2004 J. Schilling
*/

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#ifndef lint

static char \_\_scsid[] =

"@(#)scsi-openserver.c 1.32 06/11/26 Copyright 1998 J. Schilling, Santa Cruz Operation";

#endif

/\*

\* Interface for the SCO SCSI implementation.

\*

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\*

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/\* @(#)ccomdefs.h 1.4 06/09/13 Copyright 2000 J. Schilling \*/  
/\*

\* Various compiler dependant macros.  
\*

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/\* @(#)cdda\_paranoia.h 1.24 07/07/28 J. Schilling from cdparanoia-III-alpha9.8 \*/  
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@@  
@

/\* @(#)apprentice.c 1.10 07/02/08 joerg \*/  
#ifndef lint



```

static char sccsid[] =
"@(#)apprentice.c 1.10 07/02/08 joerg";
#endif
/*
** find file types by using a modified "magic" file
**
** based on file v3.22 by Ian F. Darwin (see below)
**
** Modified for mkhybrid James Pearson 19/5/98
*/

/*
* apprentice - make one pass through /etc/magic, learning its secrets.
*
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* Written by Ian F. Darwin.
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/* @(#)strtod.c 1.3 06/09/26 joerg */

/* $NetBSD: strtod.c,v 1.23 1996/10/13 00:07:55 christos Exp $ */

/*****
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600 Mountain Avenue  
Murray Hill, NJ 07974-2070  
U.S.A.  
dmg@research.att.com or research!dmg  
\*/

@@  
@

/\* @(#)edc.h 1.2 06/05/14 Copyright 1998-2001 Heiko Eissfeldt \*/

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\* Compact disc reed-solomon routines.

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*
*/

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* @(#)scsi-os2.c 1.26 06/11/26 Copyright 1998 J. Schilling, C. Wohlgemuth */
#ifdef lint
static char __scsid[] =
"@(#)scsi-os2.c 1.26 06/11/26 Copyright 1998 J. Schilling, C. Wohlgemuth";
#endif
/*
* Interface for the OS/2 ASPI-Router ASPIROUT.SYS ((c) D. Dorau).
* This additional driver is a prerequisite for using cdrecord.
* Get it from HOBBS or LEO.
*
* Warning: you may change this source, but if you do that
* you need to change the _scg_version and _scg_auth* string below.
* You may not return "schily" for an SCG_AUTHOR request anymore.
* Choose your name instead of "schily" and make clear that the version
* string is related to a modified source.
*
* XXX it currently uses static SRB and for this reason is not reentrant
*
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/\*

\* Interface for the Linux PARIDE implementation.

\*

\* We emulate the functionality of the scg driver, via the pg driver.

\*

\* Warning: you may change this source, but if you do that  
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reanimatolog@yandex.ru */
#ifdef lint
static char __scsid[] =
"@(#)scsi-dos.c 1.12 06/11/26 Copyright 1998-2003 J. Schilling, 2003 Alex Kopylov
reanimatolog@yandex.ru";
#endif
/*
 * Interface for the MS-DOS ASPI managers.
 * You need ASPI manager installed in your config.sys:
 * aspi*.sys for SCSI devices
 * oakaspi.sys for ATAPI devices
 * usbaspi.sys for USB devices
 *
 * Made from Win32 ASPI library template.
 *
 * Warning: you may change this source, but if you do that
 * you need to change the _scg_version and _scg_auth* string below.
 * You may not return "schily" for an SCG_AUTHOR request anymore.
 * Choose your name instead of "schily" and make clear that the version
 * string is related to a modified source.
 *
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 *   of this interface.
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### Package 3: cygwin1.dll 1.5.24-2

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*
* Source code for the startup procedures used by all programs. This code
* is compiled to make crt1.o, which should be located in the library path.
*
*/
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```

```
/* Default definition for ARGP_ERR_EXIT_STATUS
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/\* bsd\_helper.h: Helps integrating BSD kernel code

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\* citrus Id: wscat.c,v 1.1 1999/12/29 21:47:45 tshiozak Exp  
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/\* dtable.cc: file descriptor support.

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\* rand48 family support

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/\* Sorting algorithms.

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*
* @(#)cclass.h 8.3 (Berkeley) 3/20/94
* $FreeBSD: src/lib/libc/regex/cclass.h,v 1.4 2002/03/22 23:41:56 obrien Exp $
*/

@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@
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/* $NetBSD: auth.h,v 1.15 2000/06/02 22:57:55 fvdl Exp $ */

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\* from: @(#)auth.h 1.17 88/02/08 SMI  
\* from: @(#)auth.h 2.3 88/08/07 4.0 RPCSRC  
\* from: @(#)auth.h 1.43 98/02/02 SMI  
\* \$FreeBSD: src/include/rpc/auth.h,v 1.19 2002/03/23 17:24:55 imp Exp \$  
\*/

/\*  
\* auth.h, Authentication interface.  
\*

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\* The data structures are completely opaque to the client. The client  
\* is required to pass a AUTH \* to routines that create rpc  
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\*/

@@  
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/\* cygwin/utmp.h

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/*
Cephes Math Library Release 2.7: May, 1998
Copyright 1985, 1991, 1998 by Stephen L. Moshier
*/
```

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*/
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\* if\_pppvar.h - private structures and declarations for PPP.  
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\* \$FreeBSD: src/sys/net/if\_pppvar.h,v 1.19 2002/03/24 09:34:04 bde Exp \$  
\*/

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\* regcomp and regexec -- regsub and regerror are elsewhere

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\*

\* Beware that some of this code is subtly aware of the way operator  
\* precedence is structured in regular expressions. Serious changes in  
\* regular-expression syntax might require a total rethink.

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 *
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 *
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 * A brief word about Third Eye naming/use conventions:
 *
 * All arrays and index's are 0 based.
 * All "ifooMax" values are the highest legal value PLUS ONE. This makes
 * them good for allocating arrays, etc. All checks are "ifoo < ifooMax".
 *
 * "isym" Index into the SYMbol table.
 * "ipd" Index into the Procedure Descriptor array.
 * "ifd" Index into the File Descriptor array.
 * "iss" Index into String Space.
 * "cb" Count of Bytes.
 * "rgPd" array whose domain is "0..ipdMax-1" and RanGe is PDR.
 * "rgFd" array whose domain is "0..ifdMax-1" and RanGe is FDR.
 */

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@
```

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*/
```

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*
* $FreeBSD: src/lib/libc/include/libc_private.h,v 1.5 2002/03/29 22:43:42 markm Exp $
*
* Private definitions for libc, libc_r and libpthread.
*
*/

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/\* \$FreeBSD: src/sys/net/zlib.h,v 1.7 1999/12/29 04:38:38 peter Exp \$ \*/

/\*  
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\* distribution by Jean-loup Gailly and Mark Adler, with some additions  
\* by Paul Mackerras to aid in implementing Deflate compression and  
\* decompression for PPP packets.  
\*/

```
/*
 * ==FILEVERSION 971127==
 *
 * This marker is used by the Linux installation script to determine
 * whether an up-to-date version of this file is already installed.
 */
```

```
/* +++ zlib.h */
/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.0.4, Jul 24th, 1996.
```

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Jean-loup Gailly      Mark Adler  
gzip@prep.ai.mit.edu    madler@alumni.caltech.edu

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```
*/
#ifdef _ZLIB_H
#define _ZLIB_H

#ifdef __cplusplus
extern "C" {
#endif
```

```
/* +++ zconf.h */
/* zconf.h -- configuration of the zlib compression library
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 */
```

/\* From: zconf.h,v 1.20 1996/07/02 15:09:28 me Exp \$ \*/

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@@  
@

/\* \$FreeBSD: src/include/rpc/clnt\_stat.h,v 1.2 2001/03/20 08:20:50 alfred Exp \$ \*/  
/\*  
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/\*  
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Cephes Math Library Release 2.3: January, 1995  
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```
/*
 * Defines for synchronous PPP/Cisco link level subroutines.
 *
 * Copyright (C) 1994 Cronyx Ltd.
 * Author: Serge Vakulenko, <vak@cronyx.ru>
 *
 * Heavily revamped to conform to RFC 1661.
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 *
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 *
 * From: Version 2.0, Fri Oct 6 20:39:21 MSK 1995
 *
 * $FreeBSD: src/sys/net/if_sppp.h,v 1.24 2001/12/30 20:42:29 joerg Exp $
 */
```

#####  
#####

**Package 4: GTK+ Version 1.2.10**

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SCCS: @(#) tkPack.c 1.64 96/05/03 10:51:52

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### Package 5: Firefox Version 1.5.0.6

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Version: MPL 1.1/GPL 2.0/LGPL 2.1

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Πακέτα: Intel Quartzville Driver, Intel CDMv2 Provider

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Paquetes: Proveedor de Intel Quartzville Driver, Intel CDMv2

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Packages : Pilote Intel Quartzville, Fournisseur Intel CDMv2

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Pacchetti: Intel Quartzville Driver, Intel CDMv2 Provider

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パッケージ: Intel Quartzville Driver、Intel CDMv2 Provider

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패키지: Intel Quartzville Driver, Intel CDMv2 Provider

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Techninės priežiūros informacija gali apimti sistemos naudojimo, veikimo ir trikčių žurnalų, detalių kodų, detalių numerių, detalių serijos numerių, detalių vietų, priežiūros lygmenų ir konfigūracijos verčių surinkimą ir išsaugojimą. Į techninės priežiūros informaciją neįtraukiami jūsų organizacijos finansiniai statistiniai duomenys, duomenys apie personalą, jūsų verslo planai. Tokie duomenys nėra ir perduodami.

Sutinkate, kad IBM gali naudoti ir dalytis informacija IBM viduje, įskaitant trečiąsias šalis, pvz., palaikymo centro subrangovus arba IBM nurodytus atstovus. Programos surinkti duomenys („Jūsų informacija“) bus naudojami problemų nustatymo ir palaikymo paslaugų teikimo tikslais. Taip pat

sutinkate, kad Jūsų informaciją galima perduoti tokiems subjektams bet kurioje šalyje, neatsižvelgiant, ar ta šalis yra Europos Sąjungos narė.

IBM neteikia jokių pareiškimų apie Programos, turinio ar informacijos, pasiekiamų naudojant Programą, tinkamumą kuriam nors tikslui. Programa suteikiama „tokia, kokia yra“, nesuteikiant jokių aiškiai nurodytų ar nenurodytų garantijų, įskaitant tinkamumo prekiauti, tinkamumo tam tikram tikslui ar nepažeidžiamumo garantijas. Programa suteikiama be jokio papildomo mokesčio, taigi IBM nebus atsakinga už jokią jūsų ar kito Programos vartotojo patirtą žalą. Jūs taip pat pripažįstate, kad informacijos siuntimas viešuoju internetu kelia grėsmę, kad šios informacijos duomenys gali būti laikomi / modifikuojami / skaitomi kitų asmenų ir kad IBM nepalaiko apsaugotų duomenų perdavimo internetu. Be to, jūs ginsite IBM ir jos susijusias įmones nuo visų trečiosios šalies skundų, kurie tiesiogiai arba netiesiogiai susiję su jūsų Programos naudojimu.

Jūs laiduojate, kad laikotės ir laikysitės visų taikomų eksporto ir importo įstatymų ir nuostatų, įskaitant, bet neapsiribojant, taikomus sankcijų įstatymus ir nuostatus.

IBM pasilieka teisę bet kuriuo metu pakeisti šios Programos prieigą, priemones, charakteristikas ir funkcijas.

Paketai: „Intel Quartzville Driver“, „Intel CDMv2 Provider“

Priedami programinės įrangos produktai ir dokumentacija buvo sukurti naudojant privačias lėšas ir pateikiami APRIBOTOMIS TEISĖMIS. Vyriausybės naudojimo, dauginimo ir atskleidimo teisėms taikomi apribojimai nurodyti FAR 52.227-14 ir DFARS 252.227-7013 et seq arba pakeitimuose. Naudodama šį produktą vyriausybė pripažįsta „Intel“ produkto nuosavybės teises.

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Užtiktojas leidžia International Business Machines Corporation ir įmonėms, priklausančioms IBM Corp. (zvanym ąmiesniam „IBM“) na praeħowywanie i wykorzystywanie informacji kontaktowych w zakresie wsparcia, w tym imion i nazwisk, numerów telefonów i adresów e-mail wszędnie tam, gdzie IBM prowadzi działalność. Informacje takie będną przetwarzane i mogą być dostarczane osobom trzecim pod nadzorem IBM, takim jak dostawcy centrum wsparcia, lub cesjonariuszom IBM.

Informacje serwisowe obejmowac mogą zbierane i praeħowywane informacje z dzienników o poziomie wykorzystania systemów, wydajności i awariach systemowych, informacje o kodach opcji części, numerach części, numerach seryjnych części, lokalizacji części, poziomach konserwacyjnych i konfiguracji. Informacje serwisowe nie obejmują natomiast zbierania ani przesyłania danych finansowych, statystycznych ani kadrowych przedsiębiorstwa Użytkownika ani teź jego planów biznesowych.

Użytkownik zgadza się na wykorzystywanie przez IBM takich informacji i współużytkowanie ich w obrębie IBM, w tym dzielenie się nimi z osobami trzecimi pod nadzorem IBM, takimi jak dostawcy centrum wsparcia, lub cesjonariuszami. Dane zebrane przez Program (zwane dalej „Informacjami Użytkownika“) wykorzystywane będną w celu określenia problemów i świadczenia usług wsparcia. Ponadto Użytkownik wyraża zgodę na przesyłanie Informacji Użytkownika do takich podmiotów w dowolnym kraju, bez względu na to, czy kraj ten należy do Unii Europejskiej.

IBM nie udziela jakichkolwiek gwarancji (w tym także rękojmi) w zakresie przydatności Programu bądź zawartości lub informacji udostępnianych przez Program do jakiegokolwiek celu. Program jest dostarczany w stanie, w jakim się znajduje („as is“), bez udzielania jakichkolwiek gwarancji (w tym także rękojmi), wyraźnych czy domniemanych, w tym bez domniemanych gwarancji przydatności handlowej i przydatności do określonego celu. Program jest dostarczany bezpłatnie. IBM nie

ponosi odpowiedzialności za jakiegokolwiek szkody ponoszone przez Użytkownika lub innych użytkowników Programu. Użytkownik jest również świadomy faktu, że przesyłanie informacji przez Internet łączy się z ryzykiem przechwycenia/zmiany/odczytania tychże informacji przez osoby postronne oraz że IBM nie zapewnia bezpiecznej transmisji danych przez Internet. Ponadto Użytkownik zobowiązuje się bronić IBM ani przedsiębiorstw afiliowanych IBM przed roszczeniami wnoszonymi przez osoby trzecie, które są pośrednio lub bezpośrednio związane z używaniem Programu.

Użytkownik gwarantuje, że w pełni przestrzega i będzie przestrzegać obowiązujących praw i przepisów eksportowych i importowych.

IBM zastrzega sobie prawo do dokonania w dowolnym czasie zmian w zakresie dostępu do Programu, jego opcji, możliwości i funkcji.

Pakiety: Intel Quartzville Driver, Intel CDMv2 Provider

Załączone programy oraz dokumentacja zostały opracowane na własny koszt i dostarczane są z "OGRANICZONYMI PRAWAMI". Używanie, powielanie i ujawnianie przez instytucje rządowe podlega ograniczeniom przedstawionym w dokumentach FAR 52.227-14 i DFARS 252.227-7013 i kolejnych. Używanie tego produktu przez instytucje rządowe stanowi potwierdzenie praw firmy Intel do produktu.

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O Cliente concorda em permitir que a International Business Machines Corporation e suas subsidiárias (coletivamente/colectivamente, "IBM") armazenem e utilizem suas informações de contato/contacto de suporte, que podem incluir nomes, números de telefone e endereços de e-mail, onde quer que realizem negócios. Tais informações serão processadas e podem ser fornecidas a terceiros sob/ao abrigo de orientação da IBM, tal como contratados do centro de suporte ou representantes/procuradores da IBM.

As informações de serviço podem incluir a coleta/colecta e retenção de logs de utilização de sistema, desempenho e falha do sistema, códigos de dispositivo de peça, números de peça ("part numbers"), números de série de peças, localizações de peças, níveis de manutenção e valores de configuração. As informações de serviço não incluem, de outra forma, a coleta/colecta ou transmissão dos dados estatísticos financeiros ou de funcionários da empresa do Cliente, nem de planos de negócios.

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A IBM não faz declarações sobre a adequação do Programa ou sobre qualquer conteúdo ou informações acessíveis pelo Programa, para qualquer propósito/fim. O Programa é fornecido "no estado em que se encontra ("as is")" sem garantias expressas ou implícitas, incluindo garantias de comercialização e adequação para um propósito/fim particular ou de não-violação. O Programa é fornecido sem encargos adicionais e, de modo adequado, a IBM não deverá ser responsabilizada por quaisquer danos sofridos pelo Cliente ou qualquer usuário/utilizador do Programa. O Cliente também reconhece que o envio de informações pela Internet pública inclui o risco de que estes dados de informações possam ser retidos/modificados/lidos por outros e que a IBM não fornece transmissão segura de dados pela Internet. Além disso, o Cliente defenderá a IBM e seus afiliados

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O Cliente garante que está e continuará em conformidade total com todas as leis e regulamentos de exportação e importação aplicáveis, incluindo, mas não se limitando às sanções das leis e regulamentos aplicáveis.

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Storitvene informacije lahko vključujejo dnevnik zbiranja in hranjenja informacij o uporabi sistema, zmogljivosti in sistemskih napak, kode možnosti delov, številke delov, serijske številke delov, lokacije delov, ravni popravkov in konfiguracijske vrednosti. Storitvene informacije pa ne vključujejo zbiranja ali prenašanja finančnih, statističnih ali osebnih podatkov, niti poslovnih načrtov.

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IBM si pridržuje pravico kadarkoli spremeniti dostop, komponente, zmožnosti in funkcije tega programa.

Paketi: Intel Quartzville Driver, Intel CDMv2 Provider

Priloženi izdelki programske opreme in dokumentacija so bili razviti s pomočjo zasebnih vlaganj in jih nudimo z "OMEJENIMI PRAVICAMI". Vladni uporabniki morajo pri uporabi, podvajanju ali razkritju upoštevati omejitve, ki so določene v FAR 52.227-14 in DFARS 252.227-7013 in v njihovih naslednikih. Če uporablja ta izdelek vladna organizacija, potrjuje Intelove lastninske pravice na izdelku.

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套件：Intel Quartzville Driver、Intel CDMv2 Provider

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International Business Machines Corporation ve bağlı kuruluşlarına (topluca "IBM" olarak adlandırılır), adlar, telefon numaraları ve e-posta adresleri de dahil olmak üzere destek sorumlularınıza ilişkin bilgileri iş yaptıkları her yerde depolama ve kullanma izni vermeyi kabul edersiniz. Bu tür bilgiler ayrıca, Destek Merkezi yüklenicileri veya IBM tarafından atanan kişiler gibi, IBM yönetimi altında bulunan üçüncü kişilere de sağlanabilir.

Hizmet bilgileri, sistem kullanımı, başarımları, sistem hata günlükleri, parça aksam kodları, parça numaraları, parça seri numaraları, parça yerleri, bakım düzeyleri ve konfigürasyon değerleri gibi bilgilerin toplanmasını ve saklanmasını içerebilir. Hizmet bilgileri, şirketinize ait mali istatistiklerin veya kişisel verilerin toplanmasını veya aktarılmasını içermediği gibi, iş planlarınızın toplanmasını veya aktarılmasını da içermez.

IBM'in, Destek Merkezi altyüklenicileri veya IBM yönetiminde atanmış kişiler gibi, üçüncü kişiler de dahil olmak üzere, IBM içinde bu bilgileri kullanabileceğini ve paylaşabileceğini kabul edersiniz. Bu Program tarafından toplanan veriler ("Bilgileriniz") sorun belirlemek ve destek hizmetleri sağlamak amacıyla kullanılacaktır. Ayrıca, Bilgilerinizin Avrupa Birliği üyesi olsun ya da olmasın, herhangi bir ülkedeki bu tür tüzel kişiliklere devredilebileceğini de kabul edersiniz.

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Paketler: Intel Quartzville Driver, Intel CDMv2 Provider

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