Fix pack 5.2.0-TIV-ITDS-FP0002 README for IBM Tivoli Directory Server 5.2

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Contents

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Date: December, 2004

IBM® Tivoli Directory Server Version 5.2

General description

The fix pack contains fixes for problems encountered in IBM Tivoli Directory Server Version 5.2. The APAR number for the problem is listed in "Problems fixed in fix pack 2." Refer to the specific APAR for more detail.

For information on changes and fixes that occurred after the product documentation was translated, see the *IBM Tivoli Directory Server README Addendum Version 5.2*. The Addendum file is in English only and can also be found on the IBM Tivoli Directory Server Library Web page:

http://publib.boulder.ibm.com/tividd/td/IBMDS/ID7002517S_52/en_US/PDF/addendum52.pdf

Platforms

The following platforms are supported for this fix pack:
* AIX
* HP-UX
* Linux s390
* Linux pSeries
* Linux i386
* Solaris
* Windows

Dependencies

IBM Tivoli Directory Server version 5.2 must be installed.

Tested platforms

* AIX 5.1 ML7, AIX 5.2 ML4, AIX 5.3 (+Mandatory fix APAR IY58143)
* Solaris 8 & 9
* Intel Linux
  – Red Hat Enterprise Linux (RHEL) 3.0 update 3
  – SLES 8.0 service pack 3
* PPC Linux
  – Red Hat Enterprise Linux (RHEL) 3.0 update 3
  – SLES 8.0 service pack 3
* zSeries Linux
  – Red Hat Enterprise Linux (RHEL) 3.0 update 3
  – SLES 8.0 service pack 3

- Windows
  - Windows 2000 service pack 3, 4
  - Windows NT service pack 6
  - Windows 2003 EE
- HP UX 11i

Tested DB2 levels

- AIX 5.1 db2 v81 fp2 refresh + db2 v81 fp7a
- AIX 5.2 db2 v81 fp2 refresh
- AIX 5.3 db2 v81 fp2 refresh + db2 v81 fp7a
- Solaris 8 db2 v81 fp2 refresh
- Solaris 9 db2 v81 fp2 refresh + db2 v81 fp7a
- Intel Linux
  - Red Hat Enterprise Linux (RHEL) 3.0 db2 v81 fp2 refresh + db2 v81 fp7a
  - SLES 8.0 db2 v81 fp2 refresh
- PPC Linux
  - Red Hat Enterprise Linux (RHEL) 3.0 db2 v81 fp2 refresh + db2 v81 fp5
  - SLES 8.0 db2 v81 fp2 refresh + db2 v81 fp7a
- zSeries Linux
  - Red Hat Enterprise Linux (RHEL) 3.0 db2 v81 fp2 refresh + db2 v81 fp5
  - SLES 8.0 db2 v81 fp2 refresh + db2 v81 fp7a
- Windows
  - Windows 2000 db2 v81 fp2 refresh
  - Windows NT db2 v81 fp2 refresh
  - Windows 2003 EE db2 v81 fp2 refresh + db2 v81 fp6a
- HP UX 11i db2 v81 fp2 refresh + db2 v81 fp7a

Problems fixed

Problems fixed in fix pack 2

New fixes in 5.2.0-TIV-ITDS-FP0002:

APAR IR53741 (CMVC 87393)
> Replacing the V3.modifiedschema file causes the replication que to disappear without replicating nor schema errors.

APAR IR53988 (CMVC 84902, 86434)
> (Solaris only) Allow LDAP client plug-ins to resolve symbols from those identified as global of the parent loader.

APAR IR54007 (CMVC 86086)
> A search using the ibm-allGroups operational attribute may not return all the groups of which the base entry is a dynamic member.

APAR IR54063 (CMVC 86601, 88122)
> Changes to the FD_SETSIZE for BPM

APAR IR54069 (CMVC 85064)
> Server Hang occurs when performance Run Stat Tool is running.

APAR IR54084 (CMVC 82619)

A search of base cn=monitor always returns total_ssl_connections=0 and total_tls_connections=0.

APAR IR54085 (CMVC 85478)

Members of the Administration Group do not have the same search size and time limits as the Administrator.

APAR IR54086 (CMVC 86156)

Client will leak memory resolving a referral to an entry which is also a referral

APAR IR54087 (CMVC 86303)

Server may return incorrect results or ABEND if network capacity is saturated.

APAR IR54124 (CMVC 86607)

Memory leaks replicating adds, deletes, and searches.

APAR IR54212 (CMVC 88974)

LDAP does not observe matching rules by names

APAR IR54268 (CMVC 87993)

chlog: firstchangenumber and lastchangenumber not incrementing

APAR IR54428 (CMVC 87946)

Server cores w/tracing on and old slapd.cat file.

APAR IR54443 (CMVC 87560)

Client API ldap_parse_pwdpolicy_response can crash client.

APAR IR54445 (CMVC 86722)

Not able to generate a core file on Red Hat Linux 3.0

APAR IR54446 (CMVC 87000)

Incorrect transaction processing for Password Policy operational attributes.

APAR IR54466 (CMVC 88256, 86404)

Server may core if ibm-slapdAllowAnon=false

APAR IR54509 (CMVC 89475)

Crebind on referrals should be sync not async

APAR IR54519 (CMVC 88889, 89237)

Remove all ctime() and localtime() and replace with MTSAFE functions

APAR IR54519 (CMVC 88889)

solaris Funtion localtime_r() causes ldap server crash.

APAR IR54762 (CMVC 88820, 88861)

Timeout client connections on SSL port which do not promptly initiate handshake

APAR IR54785 (CMVC 88105, 88401)

Server leaks memory in ldapsearch operations

APAR IR54787 (CMVC 84997)

aclsource and ownersource operational attributes may be corrupted by ModifyDN operation

APAR IR54788 (CMVC 87642)

ldapexop utility returns exit code 0 on LDAP error

APAR IR54789 (CMVC 87932)

ldapchangepwd utility returns exit code 0 on LDAP error

APAR IR54791 (CMVC 87978)
Server crashes on readlog exop with start line=0 and endline=0

APAR IR54792 (CMVC 88055)
Authentication failure using digest MD5 returns LDAP error 1 (Operations error)

APAR IR54793 (CMVC 88456)
Bulkload may not detect file system full errors during parse phase

APAR IR54795 (CMVC 88690)
Certain ldap searches looking for acls can core the ldap server with fix IR53383 (delievered in 5.2 fix pack 1)

APAR IR54804 (CMVC 89034, 89044)
Now free SQL handles in password policy as required

APAR IR54881 (CMVC 89222, 89244)
ldapsearch fails with ssl error 406 or 420 if server is on AIX w/ P520A-01D

APAR IR54901 (CMVC 82598)
ldapsearch -e shows SDK version 510

APAR IR54902 (CMVC 87493)
Boolean values ("true" | "false") are not enforced in audit configuration

APAR IR54954 (CMVC 89183, 88416)
Do not delete pwdFailureTime attribute on Read-only replica

APAR IR54958 (CMVC 88973)
ldapmodify of pwdchangetime with invalid date doesn't fail

APAR IR54959 (CMVC 99972)
LDAPMODIFY - Replace PWDReset with no values crashes server

APAR IR54960 (CMVC 99971)
pwdchangetime in year 2100 results in expired password

APAR IR54971 (CMVC 89093)
CHANGE IDSWEBAPP APP-VERSION TO 2.0001

APAR IR54986 (CMVC 89558)
Possible LDAP server crashes upon receiving bad BER.

APAR IR55005 (CMVC 89679)
Change be_paged_res_list_mutex locks to try locks

APAR IR55018 (CMVC 89733)
Log effective ulimits at server startup.

APAR IR55034 (CMVC 89378)
incorrect and missing attr in diradm rootDSE

APAR IR55035 (CMVC 89752)
Kerberos enabled ldapsearch failed when allowAnon is set.

APAR IR55082 (CMVC 87525)
"Skip Blocking Entry" button send 0 changeid to system - Delete fails [2-part fix IR54267 (WebAdmin) and IR55082 ITDS (Server)]

APAR IR55090 (CMVC 89850)
SSL Connection not working correctly when only sending 64 bytes of data

APAR IR55107 (CMVC 89822)
APAR fixes errors found in IR54958 with ldapmodify of PWDCHANGETIME

Problems fixed in fix pack 1

APAR IR52568 (CMVC 82799)
ibm-slapdSetenv is overwritten in config by ldapcfg utility.

APAR IR52768 (CMVC 82946)
ldapcompare() API always returns **true** with password policy on.

APAR IR52775 (CMVC 82949)
Replication fails if client performs multiple operations per bind.

APAR IR52949 (CMVC 83224)
Modify/replace without value does not behave as expected. It must delete the attribute.

APAR IR52964 (CMVC 83328)
db2ldif: exports `CN=NULL` for some groups.

APAR IR53117 (CMVC 83436)
An entry DN containing an attribute name not defined in schema might result in server SEGV.

APAR IR53125 (CMVC 82797)
db2ldif leaks memory.

APAR IR53295 (CMVC 83954)
-t option not working correctly in ldapcfg. The server starts in config mode.

APAR IR53383 (CMVC 84198)
There is a memory leak when processing filter acls.

APAR IR53491 (CMVC 82947)
Enforce password reuse policy when changing another user's password.

APAR IR53496 (CMVC 84081)
ibmslapd on Windows defaults to a maximum of 64 connections. See ″2.2.8 Communications error: Exceeding 64 connections/OCH″ in *IBM Tivoli Directory Server README Addendum Version 5.2*.

APAR IR53519 (CMVC 84333)
ibmdirctl hangs when supplied invalid password and server is offline.

APAR IR53609 (CMVC 84824, 84867)
Using ldapexop to read a large audit log is very slow.

APAR IR53820 (CMVC 84776)
Modify-replace with no values for an attribute gives a 0-length value. The attribute must be removed from the entry.

APAR IR53863 (CMVC 84385)
Support OpenLDAP LDAP kerberos client.

APAR IR53964 (CMVC 82555)
db2restore generates an invalid timestamp for database backup.

APAR IR53965 (CMVC 82664, 84327)
imask passwords are not matching for passwords greater than 46 characters in length. This might cause the ldapcompare API to fail when comparing large passwords.

APAR IR53967 (CMVC 82526)
Auditing of log extended operations does not show log type.

APAR IR53968 (CMVC 84802)
ibm-membergroup entry not being deleted when group is deleted.

APAR IR53969 (CMVC 82877)
Reset sleepFailInterval to 5 seconds when replication connection fails.

APAR IR53970 (CMVC 82837)
The server can core after repeated updates using certain codepages.

APAR IR53971 (CMVC 83237)
Duplicate results are possible with null base search.

APAR IR53972 (CMVC 82922)
Supplier not replicating updates to consumers after skipped changes.

APAR IR53973 (CMVC 82889)
Fix memory leaks when chasing referrals.

APAR IR53974 (CMVC 83257)
Bulkload logs and displays error if unique attribute tables are not yet created. This is not an error and must not be logged.

APAR IR53975 (CMVC 83396)
stderr is redirected improperly causing a hang condition.

APAR IR53977 (CMVC 83458)
Memory corruption with regard to Windows 850 codepage.

APAR IR53978 (CMVC 82869)
Log errors in CLI log pertaining to DB2 not having a large enough statement buffer.

APAR IR53979 (CMVC 84071)
Server can core under heavy load if changelog is enabled.

APAR IR53980 (CMVC 83871)
Enable changelog entries to use GMT timestamps instead of local time. Environment variable CLOG_USE_GMT=YES enabled.

APAR IR53981 (CMVC 84611)
Bulkload cores when input contains undefined attribute.

APAR IR54001 (CMVC 85946)
On all distributions of Linux, the number of connections which the server can open has increased from approximately 1000 to approximately 8000.

> **Note:** In order to use more connections you must override the operating system-imposed limit on the maximum file descriptors, such as:
> ```
> ulimit -n 8192
> ```

APAR IR54013 (CMVC 83606)
Failed Bind Reports as Successful with password policy on.

APAR IR54022 (CMVC 84926)
LDAP client library might enter infinite loop if the process runs out of memory when an LDAP request is sent to the server.

APAR IR54023 (CMVC 83720)
The following URL:

```
http://www.securityfocus.com/bid/9682/info/
```

describes an exploit that leads to a buffer overflow of the iLDAP daemon. Although the same code does not give a remote shell from the ITDS 5.2 server, the code crashes the server. Only ITDS 5.2 gold is vulnerable.

APAR IR54024 (CMVC 82364)
Search of cn=changelog sorted descending by changenumber returns LDAP Operations Error (rc=1).

APAR IR54025 (CMVC 82828)
Certain replication agreements can cause server to core at startup. A debug trace shows the last message printed before SEGV is
`*****MasterSrvInfo:*****`

APAR IR54026 (CMVC 82928)
Configuring a database using ldapcfg fails on UNIX if the DB2 instance owner does not have execute (x) permission for current working directory.

APAR IR54032 (CMVC 82527)
Changing the Admin Group membership from the Emergency Thread must not be enabled as it can result in memory corruption.

APAR IR54033 (CMVC 83231)
If a search operation with scope subtree or onelevel requests alias dereferencing, and aliases exist in the directory, and all attributes specified in the search filter are configured to be cached in the attribute cache, then the results returned by the search operation might not be correct.

APAR IR54034 (CMVC 83579)
If a server is configured to use the attribute cache, but not enough memory is configured for the attribute cache or not enough memory is available for the attribute cache, the server might hang or leak memory.

APAR IR54041 (CMVC 83487)
The line
`"Log: {log type}"`

where {`log type`} is one of { ″Slapd″, ″CLI″, ″Audit″, ″Bulkload″, ″Admin″, ″AdminAudit″, ″Debug″, ″Unknown″ } has been added to the audit (V2) entry for an extended operation on a log file to specify the type of log file being accessed.

APAR IR54042 (CMVC 83483)
Memory leak on extended operations when audit is off or audit plugin is disabled (removed).

APAR IR54043 (CMVC 83722)
The server leaks memory when log files are read remotely using "`ldapexop -op readlog`" or using Web Admin.

APAR IR54044 (CMVC 85415)
The functions slapi_is_connetion_ssl() & slapi_get_client_port() are not exported from libslapi.a on AIX.

APAR IR54045 (CMVC 83494)
cn=workers,cn=monitor does not return the thread attribute if auditing is turned off.

APAR IR54046 (CMVC 83482)
When auditing is set to V1 it still prints V2-only data for TLS connections and proxy controls.

APAR IR54048 (CMVC 86153)

Note: This APAR applies to AIX platforms only.
A 64-bit AIX server plugin using slapi_pblock_get() to get an int param corrupts memory and destabalizes the server. Certain slapi pblock

parameters are defined as integers (as opposed to a pointer of some kind). These need to be returned as int (32 bit) even on 64 bit platforms. On 64-bit platforms (AIX) slapi_pblock_get() must cast the following parameters to 32-bit integer:

Parameter	Integer definition
SLAPI_PLUGIN_TYPE	5
SLAPI_PLUGIN_ARGC	7
SLAPI_PLUGIN_VERSION	8
SLAPI_PLUGIN_OPRETURN	9
SLAPI_PLUGIN_INTOP_RESULT	15
SLAPI_CONFIG_LINENO	41
SLAPI_CONFIG_ARGC	42
SLAPI_BIND_METHOD	70
SLAPI_MODRDN_DELOLDRDN	102
SLAPI_SEARCH_SCOPE	110
SLAPI_SEARCH_DEREF	111
SLAPI_SEARCH_SIZELIMIT	112
SLAPI_SEARCH_TIMELIMIT	113
SLAPI_SEARCH_ATTRSONLY	117
SLAPI_NENTRIEs	195
SLAPI_CHANGENUMBER	197
SLAPI_DBSIZE	199
SLAPI_REQUESTOR_ISROOT	133
SLAPI_BE_READONLY	136
SLAPI_BE_LASTMOD	137
SLAPI_CONN_ID	139
SLAPI_REQUESTOR_ISUPDATEDN	142
SLAPI_DB2LDIF_PRINTKEY	183
SLAPI_LDIF2DB_REMOVEDUPVALS	185
SLAPI_PWDPOLICY	189
SLAPI_MANAGEDSAIT	1000
SLAPI_PLUGIN_DB_INIT_FN	-19
SLAPI_IBM_BROADCAST_BE	-23
SLAPI_IBM_REPLICATE	-27
SLAPI_IBM_CL_MAX_ENTRIES	-30
SLAPI_IBM_CL_FIRST_ENTRY	-32
SLAPI_IBM_CL_LAST_ENTRY	-33
SLAPI_IBM_EVENT_ENABLED	-42
SLAPI_IBM_EVENT_MAXREG	-43
SLAPI_IBM_EVENT_REGPERCONN	-44
SLAPI_PLUGIN_MAX_PEN_DIS	-85
SLAPI_IBM_CL_MAX_AGE	-95

SLAPI_IS_EM	-102

APAR IR54049 (CMVC 83408)
Server support for modifyDN with newSuperior attribute on a leaf node (RFC 2251 section 4.9).

APAR IR54052 (CMVC 83287)
Bulkload leaks memory during parse phase if entries include attributes which are not string syntax (such as, boolean, time, integer).

APAR IR54053 (CMVC 82588)

Note: This APAR applies to AIX platforms only.
Cannot run ITDS 5.2 for AIX on OS/400 in AIX compatibility mode due to an unnecessary linkage dependency on libtli.a

APAR IR54055 (CMVC 83643)
Server leaks memory performing subtree search of NULL base DN.

APAR IR54056 (CMVC 85258)
If language tags are disabled, ignore any attribute that has a tag associated with it.

APAR IR54059 (CMVC 84255)
Server might ABEND under stress on Solaris in multi processor environment.

APAR IR54060 (CMVC 84959)
rootdse must include "ibm-supportedCapabilities: 1.3.18.0.2.32.26" (Null Base Subtree Search)

Fix pack contents

The following are the fix pack contents for each specified platform:

AIX

The archive for this fix pack is named 5.2.0-TIV-ITDS-AIX-FP0002.tar and contains the following files:

```
File                                                  bytes        cksum  sum -r
==================================================  ===========  ==========  ======
5.2.0-TIV-ITDS-AIX-FP0002/install_update.sh            19483   2707811637    54713
5.2.0-TIV-ITDS-AIX-FP0002/uninstall_update.sh          19483   2707811637    54713
5.2.0-TIV-ITDS-AIX-FP0002/data/all_files.list           1690    191533572    58893
5.2.0-TIV-ITDS-AIX-FP0002/data/patch.tar.Z          14456203   4239183552    46381
```

Installing the update adds the following file to your system:

```
File                                                  bytes        cksum  sum -r
==================================================  ===========  ==========  ======
/usr/ldap/bin/5.2.0-TIV-ITDS-AIX-FP0002.txt               54   3426634799    50734
```

The following files are updated with the accompanying sizes and sums. Depending on the packages and options used in the original product installation, you might not have all of the following files:

```
File                                                  bytes        cksum  sum -r
==================================================  ===========  ==========  ======
/usr/ldap/bin/IBMLDAPJavaBer.jar                       42096   3630654657    33650
/usr/ldap/bin/IDSproxyExe                               32904   1261741630    44342
/usr/ldap/bin/dbback                                    57564   1184438613    26112
/usr/ldap/bin/dbrestore                                 58455   1111308223    02118
```

```
/usr/ldap/bin/ibmdiradm                                    668832  2985053508  24722
/usr/ldap/bin/ibmdiradmn                                   664626  2106034035  15461
/usr/ldap/bin/ibmdirctl                                     38610  1489826902  12263
/usr/ldap/bin/ibmmultiadd                                   97377  2320750444  00876
/usr/ldap/bin/ibmslapd                                    1345716  1772259624  40881
/usr/ldap/bin/ibmslapdn                                   1345504  3835630381  19762
/usr/ldap/bin/ldamsg                                        27130   717204929  47423
/usr/ldap/bin/ldapbp.jar                                    49437   199784888  33729
/usr/ldap/bin/ldapcfg                                       59774   434275196  15220
/usr/ldap/bin/ldapchangepwd                                 45977  2061457021  11011
/usr/ldap/bin/ldapdelete                                    44473   322209941  52566
/usr/ldap/bin/ldapdiff                                      59801    49350518  40090
/usr/ldap/bin/ldapdiff.jar                                 133567  2980547972  39663
/usr/ldap/bin/ldapexop                                     107910   142462441  23345
/usr/ldap/bin/ldapmodify                                    88249  2791915183  12724
/usr/ldap/bin/ldapmodrdn                                    45321  3329681200  53188
/usr/ldap/bin/ldapsearch                                    94573     4591330  34624
/usr/ldap/bin/ldaptrace                                     42821  1059972839  10946
/usr/ldap/bin/ldapucfg                                      59801  2583016210  43904
/usr/ldap/bin/ldapxcfg                                      61549  1711300885  44830
/usr/ldap/config/IDSConfig.jar                            2971763  3789304256  48670
/usr/ldap/examples/ldapchangepwd.c                          34560  3830205609  50391
/usr/ldap/examples/ldapdelete.c                             29503  3469777378  00802
/usr/ldap/examples/ldapexop.c                              142261  1509344193  16695
/usr/ldap/examples/ldapmodify.c                             58156  1700887665  33561
/usr/ldap/examples/ldapmodrdn.c                             30543  3199137981  49505
/usr/ldap/examples/ldapsearch.c                             61506  3779822771  29464
/usr/ldap/examples/makefile.ex                               4091  1752465038  01523
/usr/ldap/include/audit-plugin-list.h                        3110   883381909  52353
/usr/ldap/include/audit-plugin.h                            13269  1983768205  58152
/usr/ldap/include/lber.h                                     1633  1377037984  62011
/usr/ldap/include/ldap.h                                    54934  1789982928  51548
/usr/ldap/include/ldaplocale.h                               5132  2295141588  18001
/usr/ldap/include/ldapssl.h                                 17949  2337347919  17290
/usr/ldap/include/ldif.h                                     4343  1784490045  37164
/usr/ldap/include/slapi-plugin.h                            12015   525783859  20895
/usr/ldap/lib/aix5/ldap_plugin_ibm_gsskrb_64.a              31183   378432634  06428
/usr/ldap/lib/aix5/ldap_plugin_sasl_cram-md5_64.a            6778   737147680  21899
/usr/ldap/lib/aix5/ldap_plugin_sasl_digest-md5_64.a         39582  1334621472  32879
/usr/ldap/lib/aix5/libibmldap64.a                          662940   613413299  48871
/usr/ldap/lib/aix5/libibmldap64n.a                         623867  3654738829  63319
/usr/ldap/lib/aix5/libldapiconv64.a                          7540   560567632  23079
/usr/ldap/lib/aix5/libldapstatic64.a                       759699  1760883955  64998
/usr/ldap/lib/aix5/libldapstatic64n.a                      713901  1849493367  47791
/usr/ldap/lib/aix5/libldif64.a                              22509  3609935672  47227
/usr/ldap/lib/ldap_plugin_ibm_gsskrb.a                      32193   475354033  62864
/usr/ldap/lib/ldap_plugin_sasl_cram-md5.a                    6157   634561898  49291
/usr/ldap/lib/ldap_plugin_sasl_digest-md5.a                 39650  2100034109  30632
/usr/ldap/lib/libDSP.a                                      36064   992082204  19401
/usr/ldap/lib/libDigest.a                                   97284  3033441670  20558
/usr/ldap/lib/libIDSproxyDll.a                              17315  2238564989  39561
/usr/ldap/lib/libback-config.a                             380588  3427894915  57314
/usr/ldap/lib/libback-rdbm.a                              2350236   130758448  21759
/usr/ldap/lib/libdbadmin.a                                 206015  2229735370  58370
/usr/ldap/lib/libevent.a                                    86316  2710024635  24456
/usr/ldap/lib/libibmldap.a                                 673635  1389666172  64992
/usr/ldap/lib/libibmldapcfg.a                             2209520  3260865521  40424
/usr/ldap/lib/libibmldapcl.a                                53903  3758839263  27010
/usr/ldap/lib/libibmldapn.a                                632734  3503528839  51917
/usr/ldap/lib/libldacfg.a                                  111565  1349104212  52273
/usr/ldap/lib/libldapaudit.a                                51816   827364482  60797
/usr/ldap/lib/libldapiconv.a                                 6757  1170841106  37815
/usr/ldap/lib/libldapjrt.a                                  28337   776843630  47064
/usr/ldap/lib/libldapkrb.a                                  56984  1162491576  20455
/usr/ldap/lib/libldaprepl.a                                635952  2679546831  14933
/usr/ldap/lib/libldapstatic.a                              762227  2084112519  17178
/usr/ldap/lib/libldapstaticn.a                             714923  2197908637  22995
```

```
/usr/ldap/lib/libldif.a                            24041  2644798271   35932
/usr/ldap/lib/libloga.a                            45990  2496502999   65400
/usr/ldap/lib/libmessage.a                        114284  3335769665   06005
/usr/ldap/lib/libslapi.a                          280596  1872270071   38022
/usr/ldap/lib/libtranext.a                        273064  3214537912   32236
/usr/ldap/lib/libtransys.a                        329625  1159365646   46725
/usr/ldap/lib/libtrc.a                             44243  1428207279   55675
/usr/ldap/lib/libutils.a                         3154700  2184237602   42815
/usr/ldap/lib/libutlsa.a                           65491   753231760   54064
/usr/ldap/sbin/SchemaMigrate.jar                   42862  2727205338   12375
/usr/ldap/sbin/bulkload                           760010   941607921   21549
/usr/ldap/sbin/cfgmodify                           68837  2641191954   09608
/usr/ldap/sbin/db2ldif                            608850   861935104   43597
/usr/ldap/sbin/ldif                                49779  2185012027   26447
/usr/ldap/sbin/ldif2db                            531856  3515032393   05063
/usr/ldap/sbin/ldtrc                              128543  2812465894   37284
/usr/ldap/sbin/ltou                               272160  3022280626   04480
/usr/ldap/sbin/migrate52                           39613  2184782838   39944
/usr/ldap/sbin/runscript                           24926  3872142200   35410
/usr/ldap/sbin/runstats                           488101  2713163894   42099
/usr/ldap/sbin/utol                               272135   553978418   06774
```

HP-UX

The archive for this fix pack is named 5.2.0-TIV-ITDS-HPUX-FP0002.tar and
contains the following files:

```
File                                                bytes      cksum  sum -r
==============================================  ===========  ==========  ======
5.2.0-TIV-ITDS-HPUX-FP0002/install_update.sh       19483  2707811637   54713
5.2.0-TIV-ITDS-HPUX-FP0002/uninstall_update.sh     19483  2707811637   54713
5.2.0-TIV-ITDS-HPUX-FP0002/data/all_files.list      1593   134702624   49995
5.2.0-TIV-ITDS-HPUX-FP0002/data/patch.tar.Z     15484641  1841411320   22573
```

Installing the update adds the following file to your system:

```
File                                                bytes      cksum  sum -r
==============================================  ===========  ==========  ======
/usr/IBMldap/bin/5.2.0-TIV-ITDS-HPUX-FP0002.txt       54  3426634799   50734
```

The following files are updated with the accompanying sizes and sums. Depending
on the packages and options used in the original product installation, you might
not have all of the following files:

```
File                                                bytes      cksum  sum -r
==============================================  ===========  ==========  ======
/usr/IBMldap/bin/IBMLDAPJavaBer.jar                42096  3630654657   33650
/usr/IBMldap/bin/IDSproxyExe                       32768  4068755984   51949
/usr/IBMldap/bin/dbback                            49152  1595158352   21226
/usr/IBMldap/bin/dbrestore                         49152  3479481182   01639
/usr/IBMldap/bin/ibmdiradm                        462848  1837029191   58574
/usr/IBMldap/bin/ibmdiradmn                       458752  4070376482   11347
/usr/IBMldap/bin/ibmdirctl                         40960   909996581   34321
/usr/IBMldap/bin/ibmmultiadd                       77824  3491814677   21347
/usr/IBMldap/bin/ibmslapd                        2389152   217936230   44899
/usr/IBMldap/bin/ibmslapdn                       1413120  1291091309   49453
/usr/IBMldap/bin/ldamsg                            28672    79201980   28217
/usr/IBMldap/bin/ldapbp.jar                        49437   199784888   33729
/usr/IBMldap/bin/ldapcfg                           15570  1727291636   24059
/usr/IBMldap/bin/ldapchangepwd                     49152   522277586   14388
/usr/IBMldap/bin/ldapdelete                        45056  2294769017   59560
/usr/IBMldap/bin/ldapdiff                           9165  4006213554   24357
/usr/IBMldap/bin/ldapdiff.jar                     133567  2980547972   39663
/usr/IBMldap/bin/ldapexop                          94208  3636751386   17321
/usr/IBMldap/bin/ldapmodify                        61440  3619943294   41885
/usr/IBMldap/bin/ldapmodrdn                        49152  3895334912   09393
/usr/IBMldap/bin/ldapsearch                        65536  2639376100   52329
/usr/IBMldap/bin/ldaptrace                         45056  1533774651   05457
```

```
/usr/IBMldap/bin/ldaqdsp                              24576    2178829138   42908
/usr/IBMldap/config/IDSConfig.jar                   1860018    2698692533   52373
/usr/IBMldap/examples/README                           8390    3155403282   60987
/usr/IBMldap/examples/ldapchangepwd.c                 34560    3830205609   50391
/usr/IBMldap/examples/ldapdelete.c                    29503    3469777378   00802
/usr/IBMldap/examples/ldapexop.c                     142261    1509344193   16695
/usr/IBMldap/examples/ldapmodify.c                    58156    1700887665   33561
/usr/IBMldap/examples/ldapmodrdn.c                    30543    3199137981   49505
/usr/IBMldap/examples/ldapsearch.c                    61506    3779822771   29464
/usr/IBMldap/examples/makefile.ex                      3560    2954575666   18758
/usr/IBMldap/include/audit-plugin-list.h               3110     883381909   52353
/usr/IBMldap/include/audit-plugin.h                   13269    1983768205   58152
/usr/IBMldap/include/lber.h                            1633    1377037984   62011
/usr/IBMldap/include/ldap.h                           54934    1789982928   51548
/usr/IBMldap/include/ldaplocale.h                      5132    2295141588   18001
/usr/IBMldap/include/ldapssl.h                        17949    2337347919   17290
/usr/IBMldap/include/ldif.h                            4343    1784490045   37164
/usr/IBMldap/include/slapi-plugin.h                   12015     525783859   20895
/usr/IBMldap/lib/ldap_plugin_sasl_cram-md5.sl         45056     677864373   55820
/usr/IBMldap/lib/ldap_plugin_sasl_digest-md5.sl       36864    3768692558   37402
/usr/IBMldap/lib/libDSP.sl                            24576    2779735097   08474
/usr/IBMldap/lib/libDigest.sl                        122880    2432335078   01522
/usr/IBMldap/lib/libIDSproxyDll.sl                    24576    3453810077   33552
/usr/IBMldap/lib/libavl.sl                            28672    4291117071   09226
/usr/IBMldap/lib/libback-config.sl                   224584    1673759921   63789
/usr/IBMldap/lib/libback-rdbm.sl                    4190988     322048401   58546
/usr/IBMldap/lib/libcsgl.sl                          438272    1551678951   59528
/usr/IBMldap/lib/libcstr.sl                           12288    2928067630   61759
/usr/IBMldap/lib/libdbadmin.sl                       167936    3160335027   25198
/usr/IBMldap/lib/libevent.sl                         102400    1751138278   24428
/usr/IBMldap/lib/libibmldap.sl                       712704    3570832181   06321
/usr/IBMldap/lib/libibmldapcfg.sl                   1978368    3285806744   21691
/usr/IBMldap/lib/libibmldapcl.sl                      57344    4286226171   27363
/usr/IBMldap/lib/libibmldapn.sl                      684032     472031146   02297
/usr/IBMldap/lib/liblber.sl                          106496    3372389831   48710
/usr/IBMldap/lib/libldacfg.sl                         98304     376876341   12354
/usr/IBMldap/lib/libldapaudit.sl                      77824    2559343850   44782
/usr/IBMldap/lib/libldapiconv.sl                      12288     531066502   59981
/usr/IBMldap/lib/libldapiconvstatic.a                  9092     657815437   06624
/usr/IBMldap/lib/libldaprepl.sl                      843776    2112843020   50973
/usr/IBMldap/lib/libldapstatic.a                     743518    2571283106   34160
/usr/IBMldap/lib/libldapstaticn.a                    661710    3393588663   62565
/usr/IBMldap/lib/libldbm.sl                           12288    2114481782   12360
/usr/IBMldap/lib/libldif.sl                           32768     287723395   55595
/usr/IBMldap/lib/libldifstatic.a                      27636    3159937279   28023
/usr/IBMldap/lib/libldtr.sl                           73728    3628652454   35883
/usr/IBMldap/lib/libloga.sl                           57344    4155193244   37288
/usr/IBMldap/lib/liblthread.sl                        12288    3278081104   16552
/usr/IBMldap/lib/libmessage.sl                       110592    2395325409   61941
/usr/IBMldap/lib/libsha_md5.sl                        45056     918046762   55477
/usr/IBMldap/lib/libslapi.sl                         344064    3458823460   42139
/usr/IBMldap/lib/libsleeper.sl                        12288    3217847885   20860
/usr/IBMldap/lib/libtranext.sl                       132140    3443283993   03434
/usr/IBMldap/lib/libtransys.sl                       315392    3921393037   17378
/usr/IBMldap/lib/libtrc.sl                            45056    1150358619   59240
/usr/IBMldap/lib/libutils.sl                        5332992    2651730850   22129
/usr/IBMldap/lib/libutlsa.sl                          61440    2384279980   36351
/usr/IBMldap/sbin/SchemaMigrate.jar                   42881     826123988   36054
/usr/IBMldap/sbin/bulkload                           630784    2818258471   47993
/usr/IBMldap/sbin/cfgmodify                           40960    2172469690   31221
/usr/IBMldap/sbin/db2ldif                            454656    4092572328   51788
/usr/IBMldap/sbin/ldif                                32768    2893198297   58759
/usr/IBMldap/sbin/ldif2db                            323584    2964312378   32323
/usr/IBMldap/sbin/ldtrc                              131072    3423927684   55180
/usr/IBMldap/sbin/ltou                                28672     486958771   56333
/usr/IBMldap/sbin/migrate52                           39613    2184782838   39944
/usr/IBMldap/sbin/runscript                           24576    2234977568   13472
```

```
/usr/IBMldap/sbin/runstats                              307200  3431818549   17990
/usr/IBMldap/sbin/trcmsgwin.ldif                           121   872321605   44738
/usr/IBMldap/sbin/utol                                   28672  2053637659   39892
```

Linux i386

The archive for this fix pack is named 5.2.0-TIV-ITDS-Linux32-FP0002.tar and
contains the following files:

```
File                                                    bytes       cksum  sum -r
================================================== ===========  ==========  ======
5.2.0-TIV-ITDS-Linux32-FP0002/install_update.sh         19483  2707811637   54713
5.2.0-TIV-ITDS-Linux32-FP0002/uninstall_update.sh       19483  2707811637   54713
5.2.0-TIV-ITDS-Linux32-FP0002/data/all_files.list        1377   113062827   11310
5.2.0-TIV-ITDS-Linux32-FP0002/data/patch.tar.gz       6395149  4147109639   23438
```

Installing the update adds the following file to your system:

```
File                                                    bytes       cksum  sum -r
================================================== ===========  ==========  ======
/usr/ldap/bin/5.2.0-TIV-ITDS-Linux32-FP0002.txt            54  3426634799   50734
```

The following files are updated with the accompanying sizes and sums. Depending
on the packages and options used in the original product installation, you might
not have all of the following files:

```
File                                                    bytes       cksum  sum -r
================================================== ===========  ==========  ======
/usr/ldap/bin/IBMLDAPJavaBer.jar                        42096  3630654657   33650
/usr/ldap/bin/IDSproxyExe                               18756   510589462   21103
/usr/ldap/bin/dbback                                    41244   520357476   28273
/usr/ldap/bin/dbrestore                                 41309  1308159164   49082
/usr/ldap/bin/ibmdiradm                                211470  3843986422   39470
/usr/ldap/bin/ibmdiradm.ksh                                48  1328104074   05787
/usr/ldap/bin/ibmdirctl                                 33290  2480413413   25281
/usr/ldap/bin/ibmmultiadd                               61367  4229119883   47076
/usr/ldap/bin/ibmslapd                                 689634  1923727929   08099
/usr/ldap/bin/ibmslapdn                                689602  1689528687   08252
/usr/ldap/bin/ldamsg                                    16136  4215881087   00372
/usr/ldap/bin/ldapbp.jar                                49437   199784888   33729
/usr/ldap/bin/ldapcfg                                   15564   280109474   02764
/usr/ldap/bin/ldapchangepwd                             32164  2737692769   55539
/usr/ldap/bin/ldapdelete                                31889  2162503751   28506
/usr/ldap/bin/ldapdiff                                   9162  3315085829   10595
/usr/ldap/bin/ldapdiff.jar                             133567  2980547972   39663
/usr/ldap/bin/ldapexop                                  69659  2123861090   23907
/usr/ldap/bin/ldapmodify                                52862  2125092541   12047
/usr/ldap/bin/ldapmodrdn                                32473  1093060556   18109
/usr/ldap/bin/ldapsearch                                65433  1959885816   22383
/usr/ldap/bin/ldaptrace                                 34240  2500888474   52708
/usr/ldap/config/IDSConfig.jar                        2039462  3118315210   65442
/usr/ldap/examples/ldapchangepwd.c                      34560  3830205609   50391
/usr/ldap/examples/ldapdelete.c                         29503  3469777378   00802
/usr/ldap/examples/ldapexop.c                          142261  1509344193   16695
/usr/ldap/examples/ldapmodify.c                         58156  1700887665   33561
/usr/ldap/examples/ldapmodrdn.c                         30543  3199137981   49505
/usr/ldap/examples/ldapsearch.c                         61506  3779822771   29464
/usr/ldap/examples/makefile.ex                           3482  1619162265   51847
/usr/ldap/include/audit-plugin-list.h                    3110   883381909   52353
/usr/ldap/include/audit-plugin.h                        13269  1983768205   58152
/usr/ldap/include/lber.h                                 1633  1377037984   62011
/usr/ldap/include/ldap.h                                54934  1789982928   51548
/usr/ldap/include/ldaplocale.h                           5132  2295141588   18001
/usr/ldap/include/ldapssl.h                             17949  2337347919   17290
/usr/ldap/include/ldif.h                                 4343  1784490045   37164
/usr/ldap/include/slapi-plugin.h                        12015   525783859   20895
/usr/ldap/lib/ldap_plugin_sasl_cram-md5.so               7143  1509084669   30246
/usr/ldap/lib/ldap_plugin_sasl_digest-md5.so            29492  1645996593   64739
```

```
/usr/ldap/lib/libDSP.so                                 24334   2118363315   44928
/usr/ldap/lib/libDigest.so                              83756   2005997336   25538
/usr/ldap/lib/libIDSproxyDll.so                         11548   3382390601   02143
/usr/ldap/lib/libback-config.so                        128251   1135707199   30749
/usr/ldap/lib/libback-rdbm.so                         2125414   4192835129   08648
/usr/ldap/lib/libdbadmin.so                            121605   2821742109   29596
/usr/ldap/lib/libevent.so                               76379    959064513   09237
/usr/ldap/lib/libibmldap.so                            417935    399780434   40546
/usr/ldap/lib/libibmldapcfg.so                        3138483    125010877   05198
/usr/ldap/lib/libibmldapcl.so                           34540   3094788740   48146
/usr/ldap/lib/libibmldapn.so                           393729     54482740   57659
/usr/ldap/lib/libldacfg.so                              61464    681289857   08060
/usr/ldap/lib/libldapaudit.so                           47919   2477714200   37773
/usr/ldap/lib/libldapiconv.so                            7301    519057091   48120
/usr/ldap/lib/libldapjrt.so                             24142    612290609   26190
/usr/ldap/lib/libldaprepl.so                           514036   1178103041   40927
/usr/ldap/lib/libldapstatic.a                          467782   2606350322   49910
/usr/ldap/lib/libldapstaticn.a                         431248    625855354   62304
/usr/ldap/lib/libldif.a                                 14282   2141824697   34422
/usr/ldap/lib/libloga.so                                38455   3925166409   29843
/usr/ldap/lib/libmessage.so                             88289   1210838966   39965
/usr/ldap/lib/libslapi.so                              253908   2967952956   54818
/usr/ldap/lib/libtranext.so                             31245   2545544605   57006
/usr/ldap/lib/libtransys.so                            276855   3175566753   51306
/usr/ldap/lib/libtrc.so                                 24938   4014865418   19031
/usr/ldap/lib/libutils.so                             2079344    595177311   15609
/usr/ldap/lib/libutlsa.so                               40321    858744481   02030
/usr/ldap/sbin/SchemaMigrate.jar                        42862   3950793035   07675
/usr/ldap/sbin/bulkload                                361156   3864827776   54215
/usr/ldap/sbin/cfgmodify                                38620   1616753879   01068
/usr/ldap/sbin/db2ldif                                 279127   3873443782   13262
/usr/ldap/sbin/ldif                                     29528   1875382958   59456
/usr/ldap/sbin/ldif2db                                 197190   4230315167   24212
/usr/ldap/sbin/ldtrc                                    75945   3324709964   19842
/usr/ldap/sbin/ltou                                     20167   3364496047   34174
/usr/ldap/sbin/migrate52                                39613   2184782838   39944
/usr/ldap/sbin/runscript                                14319   1666877529   26586
/usr/ldap/sbin/runstats                                177330   3479575247   01565
/usr/ldap/sbin/utol                                     20170   2837629409   41996
```

Linux pSeries

The archive for this fix pack is named 5.2.0-TIV-ITDS-Linuxip32-FP0002.tar and contains the following files:

```
File                                                   bytes       cksum    sum -r
===================================================  ===========  ==========  ======
5.2.0-TIV-ITDS-Linuxip32-FP0002/install_update.sh       19483   2707811637   54713
5.2.0-TIV-ITDS-Linuxip32-FP0002/uninstall_update.sh     19483   2707811637   54713
5.2.0-TIV-ITDS-Linuxip32-FP0002/data/all_files.list      1434   3447174411   23896
5.2.0-TIV-ITDS-Linuxip32-FP0002/data/patch.tar.gz     4946361    675485708   19995
```

Installing the update adds the following file to your system:

```
File                                                   bytes       cksum    sum -r
===================================================  ===========  ==========  ======
/usr/ldap/bin/5.2.0-TIV-ITDS-Linuxip32-FP0002.txt          54   3426634799   50734
```

The following files are updated with the accompanying sizes and sums. Depending on the packages and options used in the original product installation, you might not have all of the following files:

```
File                                                   bytes       cksum    sum -r
===================================================  ===========  ==========  ======
/usr/ldap/bin/IBMLDAPJavaBer.jar                        42096   3630654657   33650
/usr/ldap/bin/IDSproxyExe                                25823   1864753945   20441
/usr/ldap/bin/dbback                                    44024   3142991115   09268
```

```
/usr/ldap/bin/dbrestore                            43510   2737985041   17236
/usr/ldap/bin/ibmdiradm                           196627   2220007740   15681
/usr/ldap/bin/ibmdirctl                            39532   2186713321   21782
/usr/ldap/bin/ibmmultiadd                          55962   3378767839   35528
/usr/ldap/bin/ibmslapd                            598663   2696005813   34267
/usr/ldap/bin/ldamsg                               23618   2257122468   15254
/usr/ldap/bin/ldapbp.jar                           49437    199784888   33729
/usr/ldap/bin/ldapcfg                              15564    280109474   02764
/usr/ldap/bin/ldapchangepwd                        38583   2930876285   19329
/usr/ldap/bin/ldapdelete                           37663   1523824382   07581
/usr/ldap/bin/ldapdiff                              9162   3315085829   10595
/usr/ldap/bin/ldapdiff.jar                        133567   2980547972   39663
/usr/ldap/bin/ldapexop                             77251   3364667545   18156
/usr/ldap/bin/ldapmodify                           49578    442385758   32712
/usr/ldap/bin/ldapmodrdn                           38331    675614071   39906
/usr/ldap/bin/ldapsearch                           58036    468742428   11490
/usr/ldap/bin/ldaptrace                            41024   3840406437   27176
/usr/ldap/bin/ldaqdsp                              21227   2017188489   39448
/usr/ldap/config/IDSConfig.jar                   2039462   2320391527   15777
/usr/ldap/examples/ldapchangepwd.c                 34560   3830205609   50391
/usr/ldap/examples/ldapdelete.c                    29503   3469777378   00802
/usr/ldap/examples/ldapexop.c                     142261   1509344193   16695
/usr/ldap/examples/ldapmodify.c                    58156   1700887665   33561
/usr/ldap/examples/ldapmodrdn.c                    30543   3199137981   49505
/usr/ldap/examples/ldapsearch.c                    61506   3779822771   29464
/usr/ldap/examples/makefile.ex                      3514   3492744728   63890
/usr/ldap/include/audit-plugin-list.h               3110    883381909   52353
/usr/ldap/include/audit-plugin.h                   13269   1983768205   58152
/usr/ldap/include/lber.h                            1633   1377037984   62011
/usr/ldap/include/ldap.h                           54934   1789982928   51548
/usr/ldap/include/ldaplocale.h                      5132   2295141588   18001
/usr/ldap/include/ldapssl.h                        17949   2337347919   17290
/usr/ldap/include/ldif.h                            4343   1784490045   37164
/usr/ldap/include/slapi-plugin.h                   12015    525783859   20895
/usr/ldap/lib/ldap_plugin_sasl_cram-md5.so         16433   3632444445   30486
/usr/ldap/lib/ldap_plugin_sasl_digest-md5.so       49796   1762363583   38857
/usr/ldap/lib/libDSP.so                            25636   2620820271   39143
/usr/ldap/lib/libDigest.so                         68104   3856871710   27278
/usr/ldap/lib/libIDSproxyDll.so                    22328   4213153640   49958
/usr/ldap/lib/libback-config.so                    99452   2139615272   59078
/usr/ldap/lib/libback-rdbm.so                    1389789    653584918   20488
/usr/ldap/lib/libdbadmin.so                       130849     98516414   36917
/usr/ldap/lib/libevent.so                          58509   2231997903   14329
/usr/ldap/lib/libibmldap.so                       506755   2810838337   02645
/usr/ldap/lib/libibmldapcfg.so                    361327   3723986537   26909
/usr/ldap/lib/libibmldapcl.so                      41110   1132432730   18036
/usr/ldap/lib/liblber.so                           62948   4240013917   58255
/usr/ldap/lib/libldacfg.so                         76289   2862660917   26207
/usr/ldap/lib/libldapaudit.so                      41555    578159153   58011
/usr/ldap/lib/libldapiconv.so                      16487   3220563858   38726
/usr/ldap/lib/libldapiconvstatic.a                  2980   1426234277   56117
/usr/ldap/lib/libldapjrt.so                        37312    414232906   25095
/usr/ldap/lib/libldaprepl.so                      358077   4034996348   54427
/usr/ldap/lib/libldapstatic.a                     550744   3725521288   00639
/usr/ldap/lib/libldif.so                           28374   1760871549   12432
/usr/ldap/lib/libldifstatic.a                      14958   2259557098   46838
/usr/ldap/lib/libloga.so                           34868   1776831800   54462
/usr/ldap/lib/libmessage.so                        97710   1776614562   33948
/usr/ldap/lib/libsha_md5.so                        22526   2056143831   58985
/usr/ldap/lib/libslapi.so                         161606   1074875056   65004
/usr/ldap/lib/libsleeper.so                        18706    334332319   10815
/usr/ldap/lib/libtranext.so                        33681    801690753   34368
/usr/ldap/lib/libtransys.so                       240489   3597521550   62856
/usr/ldap/lib/libtrc.so                            34440    874485953   63471
/usr/ldap/lib/libutils.so                        2210168     16198416   54961
/usr/ldap/lib/libutlsa.so                          49494   1159796176   49688
/usr/ldap/sbin/SchemaMigrate.jar                   42862   1725260033   25902
```

```
/usr/ldap/sbin/bulkload                                318868   3339320096   46730
/usr/ldap/sbin/cfgmodify                                36189   1107757258   32505
/usr/ldap/sbin/db2ldif                                 215031   3154181884   32125
/usr/ldap/sbin/ldif                                     25568   2466910227   21018
/usr/ldap/sbin/ldif2db                                 187080   2676179955   48037
/usr/ldap/sbin/ldtrc                                    81097   3222041388   30108
/usr/ldap/sbin/ltou                                     32506   2182034337   08784
/usr/ldap/sbin/migrate52                                39613   2184782838   39944
/usr/ldap/sbin/runscript                                17634   1056014156   37600
/usr/ldap/sbin/runstats                                171226   1613115231   27980
/usr/ldap/sbin/trcmsgwin.ldif                             121    872321605   44738
/usr/ldap/sbin/utol                                     32509    155090954   15891
```

Linux s390

The archive for this fix pack is named 5.2.0-TIV-ITDS-Linuxz31-FP0002.tar and contains the following files:

```
File                                               bytes       cksum   sum -r
================================================== ===========  ========== ======
5.2.0-TIV-ITDS-Linuxz31-FP0002/install_update.sh     19483   2707811637   54713
5.2.0-TIV-ITDS-Linuxz31-FP0002/uninstall_update.sh   19483   2707811637   54713
5.2.0-TIV-ITDS-Linuxz31-FP0002/data/all_files.list    1402   2499302505   44875
5.2.0-TIV-ITDS-Linuxz31-FP0002/data/patch.tar.gz   5136616   1330288899   09898
```

Installing the update adds the following file to your system:

```
File                                               bytes       cksum   sum -r
================================================== ===========  ========== ======
/usr/ldap/bin/5.2.0-TIV-ITDS-Linuxz31-FP0002.txt        54   3426634799   50734
```

The following files are updated with the accompanying sizes and sums. Depending on the packages and options used in the original product installation, you might not have all of the following files:

```
File                                               bytes       cksum   sum -r
================================================== ===========  ========== ======
/usr/ldap/bin/IBMLDAPJavaBer.jar                     42096   3630654657   33650
/usr/ldap/bin/IDSproxyExe                            17195   1824579941   21908
/usr/ldap/bin/dbback                                 35118   3034159280   38212
/usr/ldap/bin/dbrestore                              34872   2687787264   22386
/usr/ldap/bin/ibmdiradm                             188314   3663323715   27140
/usr/ldap/bin/ibmdiradm.ksh                             48   1328104074   05787
/usr/ldap/bin/ibmdirctl                              31554    507306379   00482
/usr/ldap/bin/ibmmultiadd                            59980   2593057587   02243
/usr/ldap/bin/ibmslapd                              569081   3163175226   51558
/usr/ldap/bin/ibmslapdn                             568785   4249419227   03280
/usr/ldap/bin/ldamsg                                 14998    242448865   43297
/usr/ldap/bin/ldapbp.jar                             49437    199784888   33729
/usr/ldap/bin/ldapcfg                                15564    280109474   02764
/usr/ldap/bin/ldapchangepwd                          31271   1166105244   26397
/usr/ldap/bin/ldapdelete                             29951    716692810   62807
/usr/ldap/bin/ldapdiff                                9162   3315085829   10595
/usr/ldap/bin/ldapdiff.jar                          133567   2980547972   39663
/usr/ldap/bin/ldapexop                               69247   3663510375   42759
/usr/ldap/bin/ldapmodify                             53127    340951620   31829
/usr/ldap/bin/ldapmodrdn                             30667   2258556148   09576
/usr/ldap/bin/ldapsearch                             63567   1613958601   40060
/usr/ldap/bin/ldaptrace                              32826   1072556409   46117
/usr/ldap/config/IDSConfig.jar                     2039462   4237559931   60239
/usr/ldap/examples/ldapchangepwd.c                   34560   3830205609   50391
/usr/ldap/examples/ldapdelete.c                      29503   3469777378   00802
/usr/ldap/examples/ldapexop.c                       142261   1509344193   16695
/usr/ldap/examples/ldapmodify.c                      58156   1700887665   33561
/usr/ldap/examples/ldapmodrdn.c                      30543   3199137981   49505
/usr/ldap/examples/ldapsearch.c                      61506   3779822771   29464
/usr/ldap/examples/makefile.ex                        3482   2306843847   05618
```

```
/usr/ldap/include/audit-plugin-list.h                3110    883381909   52353
/usr/ldap/include/audit-plugin.h                    13269   1983768205   58152
/usr/ldap/include/lber.h                             1633   1377037984   62011
/usr/ldap/include/ldap.h                            54934   1789982928   51548
/usr/ldap/include/ldaplocale.h                       5132   2295141588   18001
/usr/ldap/include/ldapssl.h                         17949   2337347919   17290
/usr/ldap/include/ldif.h                             4343   1784490045   37164
/usr/ldap/include/slapi-plugin.h                    12015    525783859   20895
/usr/ldap/lib/ldap_plugin_sasl_cram-md5.so           7019   3081678096   21889
/usr/ldap/lib/ldap_plugin_sasl_digest-md5.so        27892   2130086167   51413
/usr/ldap/lib/libDSP.so                             22449   2328525167   14985
/usr/ldap/lib/libDigest.so                          57825   2142212394   58166
/usr/ldap/lib/libIDSproxyDll.so                     12170   4248131888   05540
/usr/ldap/lib/libback-config.so                     92219    333368715   53210
/usr/ldap/lib/libback-rdbm.so                     1375267   3169463023   40961
/usr/ldap/lib/libdbadmin.so                        128180   3390562611   39130
/usr/ldap/lib/libevent.so                           53874   2429659378   12951
/usr/ldap/lib/libibmldap.so                        421173   3831304831   18523
/usr/ldap/lib/libibmldapcfg.so                     393472   2409012767   17189
/usr/ldap/lib/libibmldapcl.so                       33693   1208190260   18016
/usr/ldap/lib/libibmldapn.so                       400883   3934129167   34434
/usr/ldap/lib/libldacfg.so                          55964   2855902275   31199
/usr/ldap/lib/libldapaudit.so                       33298    249013491   25568
/usr/ldap/lib/libldapiconv.so                        7666   1538843507   65109
/usr/ldap/lib/libldapiconvstatic.a                   3236   2730561679   29381
/usr/ldap/lib/libldapjrt.so                         20676   1807347098   27230
/usr/ldap/lib/libldaprepl.so                       344460    910025345   13413
/usr/ldap/lib/libldapstatic.a                      495334    597764210   12376
/usr/ldap/lib/libldapstaticn.a                     460358   3022516541   35598
/usr/ldap/lib/libldif.a                             15154   1356891081   38849
/usr/ldap/lib/libloga.so                            27855   1398449119   20514
/usr/ldap/lib/libmessage.so                         82594   2871960993   52436
/usr/ldap/lib/libslapi.so                          158755    643391689   49695
/usr/ldap/lib/libtranext.so                         25537    519119106   17827
/usr/ldap/lib/libtransys.so                        226518   1247839575   46473
/usr/ldap/lib/libtrc.so                             27893    561231317   61897
/usr/ldap/lib/libutils.so                         2324454   1898165801   38233
/usr/ldap/lib/libutlsa.so                           41789   2167667263   61091
/usr/ldap/sbin/SchemaMigrate.jar                    42862    261803957   05229
/usr/ldap/sbin/bulkload                            305007   4023197323   63342
/usr/ldap/sbin/cfgmodify                            39858   3375554956   50553
/usr/ldap/sbin/db2ldif                             205602   3470487662   18092
/usr/ldap/sbin/ldif                                 29057    435085780   20609
/usr/ldap/sbin/ldif2db                             177483    342372024   58094
/usr/ldap/sbin/ldtrc                                71677   1503761932   32992
/usr/ldap/sbin/ltou                                 24167   4024090770   14285
/usr/ldap/sbin/migrate52                            39613   2184782838   39944
/usr/ldap/sbin/runscript                            12782   3331096264   57431
/usr/ldap/sbin/runstats                            161933   2006395097   61379
/usr/ldap/sbin/utol                                 24166   3586133508   36371
```

Solaris

The archive for this fix pack is named 5.2.0-TIV-ITDS-Solaris-FP0002.tar and contains the following files:

File	bytes	cksum	sum -r
5.2.0-TIV-ITDS-Solaris-FP0002/install_update.sh	19483	2707811637	54713
5.2.0-TIV-ITDS-Solaris-FP0002/uninstall_update.sh	19483	2707811637	54713
5.2.0-TIV-ITDS-Solaris-FP0002/data/all_files.list	1984	87050444	54945
5.2.0-TIV-ITDS-Solaris-FP0002/data/patch.tar.Z	10561957	892181010	12389

Installing the update adds the following file to your system:

```
File                                                  bytes       cksum  sum -r
================================================  ==========  ==========  ======
/opt/IBMldapc/bin/5.2.0-TIV-ITDS-Solaris-FP0002.txt       54  3426634799   50734
```

The following files are updated with the accompanying sizes and sums. Depending on the packages and options used in the original product installation, you might not have all of the following files:

```
File                                                  bytes       cksum  sum -r
================================================  ==========  ==========  ======
/opt/IBMldapc/bin/ibmdirctl                           25708  2233084318   59996
/opt/IBMldapc/bin/ibmmultiadd                         61912  1237047279   48186
/opt/IBMldapc/bin/ldamsg                              10896  3500685039   59964
/opt/IBMldapc/bin/ldapchangepwd                       27316  2151288227   20203
/opt/IBMldapc/bin/ldapdelete                          26588   234505503   62078
/opt/IBMldapc/bin/ldapexop                            74364  4052920039   31574
/opt/IBMldapc/bin/ldapmodify                          55612  3974889893   30471
/opt/IBMldapc/bin/ldapmodrdn                          27144  3627386544   57987
/opt/IBMldapc/bin/ldapsearch                          62196  1524784170   50420
/opt/IBMldapc/bin/ldaptrace                           28324   150263811   57776
/opt/IBMldapc/examples/ldapchangepwd.c                34560  3830205609   50391
/opt/IBMldapc/examples/ldapdelete.c                   29503  3469777378   00802
/opt/IBMldapc/examples/ldapexop.c                    142261  1509344193   16695
/opt/IBMldapc/examples/ldapmodify.c                   58156  1700887665   33561
/opt/IBMldapc/examples/ldapmodrdn.c                   30543  3199137981   49505
/opt/IBMldapc/examples/ldapsearch.c                   61506  3779822771   29464
/opt/IBMldapc/examples/makefile.ex                     3526  3508729482   19220
/opt/IBMldapc/include/audit-plugin-list.h              3110   883381909   52353
/opt/IBMldapc/include/audit-plugin.h                  13269  1983768205   58152
/opt/IBMldapc/include/lber.h                           1633  1377037984   62011
/opt/IBMldapc/include/ldap.h                          54934  1789982928   51548
/opt/IBMldapc/include/ldapssl.h                       17949  2337347919   17290
/opt/IBMldapc/include/ldif.h                           4343  1784490045   37164
/opt/IBMldapc/include/slapi-plugin.h                  12015   525783859   20895
/opt/IBMldapc/lib/ldap_plugin_sasl_cram-md5.so         7764  2688938983   06949
/opt/IBMldapc/lib/ldap_plugin_sasl_digest-md5.so      38240  1829916519   28834
/opt/IBMldapc/lib/libibmldap.so                      645096  3802410904   52320
/opt/IBMldapc/lib/libldapiconv.so                      9964  3006350330   14584
/opt/IBMldapc/lib/libldapiconvstatic.a                 6660  2588647574   31081
/opt/IBMldapc/lib/libldapstatic.a                    692868   215984746   50841
/opt/IBMldapc/lib/libldif.a                           21060  2811092823   54606
/opt/IBMldaps/bin/IBMLDAPJavaBer.jar                  42096  3630654657   33650
/opt/IBMldaps/bin/IDSproxyExe                         14800  4228092161   54071
/opt/IBMldaps/bin/dbback                             492040   173354022   13255
/opt/IBMldaps/bin/dbrestore                          492636  2764899497   41987
/opt/IBMldaps/bin/ibmdiradm                          751872  2766317611   09709
/opt/IBMldaps/bin/ibmslapd                          1430784  3245563967   25042
/opt/IBMldaps/bin/ldapbp.jar                          49437   199784888   33729
/opt/IBMldaps/bin/ldapcfg                             15572   932950617   33322
/opt/IBMldaps/bin/ldapdiff                             9166  2062787888   31058
/opt/IBMldaps/bin/ldapdiff.jar                       133567  2980547972   39663
/opt/IBMldaps/config/IDSConfig.jar                  2041495  1871377572   20357
/opt/IBMldaps/lib/libDSP.so                           20792   578724660   20896
/opt/IBMldaps/lib/libDigest.so                        77384   495863934   30936
/opt/IBMldaps/lib/libIDSproxyDll.so                   14192   186702185   62609
/opt/IBMldaps/lib/libback-config.so                  135832   892092130   13573
/opt/IBMldaps/lib/libback-rdbm.so                   2110092   134165573   27932
/opt/IBMldaps/lib/libdbadmin.so                      685360  2478992547   60923
/opt/IBMldaps/lib/libevent.so                         85964  1702608484   09994
/opt/IBMldaps/lib/libibmldapcfg_CC.so               2040836  2847289046   11142
/opt/IBMldaps/lib/libibmldapcl.so                     41276  2280214501   13998
/opt/IBMldaps/lib/libldacfg.so                        73976  1099195446   38050
/opt/IBMldaps/lib/libldapaudit.so                     39028  2126681795   62662
/opt/IBMldaps/lib/libldaprepl.so                     576940  1631617633   18376
/opt/IBMldaps/lib/libldtr.so                          15064  1344887057   48270
/opt/IBMldaps/lib/libloga.so                          33872  2435995613   52814
```

```
/opt/IBMldaps/lib/libmessage.so                          92128    3527282062    64827
/opt/IBMldaps/lib/libslapi.so                           206288     255890880    58011
/opt/IBMldaps/lib/libtranext.so                          27828    3378496046    09699
/opt/IBMldaps/lib/libtransys.so                          94536     160313743    31442
/opt/IBMldaps/lib/libtrc.so                              45556    2713530041    35888
/opt/IBMldaps/lib/libutils.so                          3360700    2079408891    20213
/opt/IBMldaps/lib/libutlsa.so                            56832    1638494998    28114
/opt/IBMldaps/sbin/SchemaMigrate.jar                     42926    3628741852    54632
/opt/IBMldaps/sbin/bulkload                             898012     492705051    10530
/opt/IBMldaps/sbin/cfgmodify                            502368    2641744116    07495
/opt/IBMldaps/sbin/db2ldif                              814856    2482605629    36204
/opt/IBMldaps/sbin/ldif                                  29848    2883892761    55590
/opt/IBMldaps/sbin/ldif2db                              707820    3491768956    62266
/opt/IBMldaps/sbin/ldtrc                                 84312    1405990583    35847
/opt/IBMldaps/sbin/ltou                                 477152     509055204    55817
/opt/IBMldaps/sbin/migrate52                             39613    2184782838    39944
/opt/IBMldaps/sbin/runscript                              9688     546705691    08011
/opt/IBMldaps/sbin/runstats                             681676     759225559    15815
/opt/IBMldaps/sbin/utol                                 477144    4168736340    40150
```

Windows

The archive for this fix pack is named 5.2.0-TIV-ITDS-Win32-FP0002.zip and
contains the following files:

```
File                                                     bytes        cksum    sum -r
=====================================================  ===========  ==========  ======
5.2.0-TIV-ITDS-Win32-FP0002\install_update.bat              7508     4186928    58571
5.2.0-TIV-ITDS-Win32-FP0002\uninstall_update.bat            4198  2992043893    49236
5.2.0-TIV-ITDS-Win32-FP0002\data\all_files.list             1763  3521687338    15010
5.2.0-TIV-ITDS-Win32-FP0002\data\bin\
 5.2.0-TIV-ITDS-Win32-FP0002.txt                              54  3426634799    50734
5.2.0-TIV-ITDS-Win32-FP0002\data\bin\IBMLDAPJavaBer.jar    42096  3630654657    33650
5.2.0-TIV-ITDS-Win32-FP0002\data\bin\IDSproxyDll.dll       24830   488599706    12694
5.2.0-TIV-ITDS-Win32-FP0002\data\bin\IDSproxyExe.exe       21362  2225577090    65017
5.2.0-TIV-ITDS-Win32-FP0002\data\bin\SHSMP.DLL            116432  3186840877    27703
5.2.0-TIV-ITDS-Win32-FP0002\data\bin\SHSMPd.DLL           190976  1173065809    21358
5.2.0-TIV-ITDS-Win32-FP0002\data\bin\SchemaMigrate.jar     42862  2138958268    61327
5.2.0-TIV-ITDS-Win32-FP0002\data\bin\bulkload.exe         334484  4031925182    58397
5.2.0-TIV-ITDS-Win32-FP0002\data\bin\cfgmodify.exe         43739   346869558    29479
5.2.0-TIV-ITDS-Win32-FP0002\data\bin\db2ldif.exe          230191  2415812189    44941
5.2.0-TIV-ITDS-Win32-FP0002\data\bin\dbback.exe            34972  3082272397    14402
5.2.0-TIV-ITDS-Win32-FP0002\data\bin\dbrestore.exe         35239  1917919054    31163
5.2.0-TIV-ITDS-Win32-FP0002\data\bin\ibmdiradm.exe        198627  1728340992    04374
5.2.0-TIV-ITDS-Win32-FP0002\data\bin\ibmdirctl.exe         33411   254328483    25099
5.2.0-TIV-ITDS-Win32-FP0002\data\bin\ibmldapcfg.dll       305672   188160637    46561
5.2.0-TIV-ITDS-Win32-FP0002\data\bin\ibmmultiadd.exe       62312  3703280127    15706
5.2.0-TIV-ITDS-Win32-FP0002\data\bin\ibmslapd.exe         719741  3169153476    40194
5.2.0-TIV-ITDS-Win32-FP0002\data\bin\ldacfg.dll            73214  3624678388    21210
5.2.0-TIV-ITDS-Win32-FP0002\data\bin\ldamsg.exe            20143  3018251038    45713
5.2.0-TIV-ITDS-Win32-FP0002\data\bin\ldap.dll             395441  4278716211    47979
5.2.0-TIV-ITDS-Win32-FP0002\data\bin\ldap_ph.dll           58896  3280165042    49885
5.2.0-TIV-ITDS-Win32-FP0002\data\bin\
 ldap_plugin_ibm_gsskrb.dll                                31873  3040551721    44039
5.2.0-TIV-ITDS-Win32-FP0002\data\bin\
 ldap_plugin_sasl_cram-md5.dll                             23198  1272331507    39154
5.2.0-TIV-ITDS-Win32-FP0002\data\bin\
 ldap_plugin_sasl_digest-md5.dll                           40745  3073325131    14726
5.2.0-TIV-ITDS-Win32-FP0002\data\bin\ldapadd.exe           56275  1076214132    08098
5.2.0-TIV-ITDS-Win32-FP0002\data\bin\ldapbp.jar            49437   199784888    33729
5.2.0-TIV-ITDS-Win32-FP0002\data\bin\ldapcfg.exe           22775   753506561    28699
5.2.0-TIV-ITDS-Win32-FP0002\data\bin\ldapchangepwd.exe     30562   271209757    60502
5.2.0-TIV-ITDS-Win32-FP0002\data\bin\ldapdelete.exe        30227  1002209522    19321
5.2.0-TIV-ITDS-Win32-FP0002\data\bin\ldapdiff.exe          22776  1394788086    32275
5.2.0-TIV-ITDS-Win32-FP0002\data\bin\ldapdiff.jar         133567  2980547972    39663
5.2.0-TIV-ITDS-Win32-FP0002\data\bin\ldapexop.exe          79448  3718129678    39498
5.2.0-TIV-ITDS-Win32-FP0002\data\bin\ldapjrt.dll           31668  3131963304    19429
```

```
5.2.0-TIV-ITDS-Win32-FP0002\data\bin\ldapmodify.exe              56275   1076214132   08098
5.2.0-TIV-ITDS-Win32-FP0002\data\bin\ldapmodrdn.exe             34627   3194369571   56836
5.2.0-TIV-ITDS-Win32-FP0002\data\bin\ldapsearch.exe             60363   3750480120   11282
5.2.0-TIV-ITDS-Win32-FP0002\data\bin\ldaptrace.exe              34350   2848014221   22922
5.2.0-TIV-ITDS-Win32-FP0002\data\bin\ldapucfg.exe               22776   1980470550   58130
5.2.0-TIV-ITDS-Win32-FP0002\data\bin\ldapxcfg.exe               22776   2843571837   21787
5.2.0-TIV-ITDS-Win32-FP0002\data\bin\ldif.exe                   26872   1302434083   12792
5.2.0-TIV-ITDS-Win32-FP0002\data\bin\ldif2db.exe               191535   4178695196   51438
5.2.0-TIV-ITDS-Win32-FP0002\data\bin\ldtrc.exe                  68020   2915560442   39605
5.2.0-TIV-ITDS-Win32-FP0002\data\bin\ldtrcd.exe                 20037   1704535119   30302
5.2.0-TIV-ITDS-Win32-FP0002\data\bin\libDSP.dll                 36111    259034971   33668
5.2.0-TIV-ITDS-Win32-FP0002\data\bin\libDigest.dll              67501   1229046212   07810
5.2.0-TIV-ITDS-Win32-FP0002\data\bin\libback-config.dll         89531   3196600851   47686
5.2.0-TIV-ITDS-Win32-FP0002\data\bin\libback-rdbm.dll         1394363   2488268962   47269
5.2.0-TIV-ITDS-Win32-FP0002\data\bin\libcl.dll                  46960   3847365937   45613
5.2.0-TIV-ITDS-Win32-FP0002\data\bin\libdbadmin.dll            177300    280687166   02139
5.2.0-TIV-ITDS-Win32-FP0002\data\bin\libevent.dll               52283   1373344811   65146
5.2.0-TIV-ITDS-Win32-FP0002\data\bin\libldapaudit.dll           43375   3215424595   05906
5.2.0-TIV-ITDS-Win32-FP0002\data\bin\libldapiconv.dll           23946   3289139455   28354
5.2.0-TIV-ITDS-Win32-FP0002\data\bin\libldapkrb.dll             47767    568586171   13660
5.2.0-TIV-ITDS-Win32-FP0002\data\bin\libldaprepl.dll           371233   4191142257   43553
5.2.0-TIV-ITDS-Win32-FP0002\data\bin\libloga.dll                41718   1664255510   50080
5.2.0-TIV-ITDS-Win32-FP0002\data\bin\libmessage.dll             99350   2006620437   43030
5.2.0-TIV-ITDS-Win32-FP0002\data\bin\libmsgs.dll                86016   3396738132   45929
5.2.0-TIV-ITDS-Win32-FP0002\data\bin\libslapi.dll              153691   2131638686   62161
5.2.0-TIV-ITDS-Win32-FP0002\data\bin\libtranext.dll             35692    353958606   43346
5.2.0-TIV-ITDS-Win32-FP0002\data\bin\libtransys.dll            158554   2597469044   46183
5.2.0-TIV-ITDS-Win32-FP0002\data\bin\libtrc.dll                 40541   1721296336   29931
5.2.0-TIV-ITDS-Win32-FP0002\data\bin\libutils.dll             1379470   1473099135   53050
5.2.0-TIV-ITDS-Win32-FP0002\data\bin\libutlsa.dll               41723   3919496964   22990
5.2.0-TIV-ITDS-Win32-FP0002\data\bin\ltou.exe                   20216     20995915   60994
5.2.0-TIV-ITDS-Win32-FP0002\data\bin\runstats.exe              165172   4206500918   45819
5.2.0-TIV-ITDS-Win32-FP0002\data\bin\utol.exe                   20220   3371438064   05900
5.2.0-TIV-ITDS-Win32-FP0002\data\config\IDSConfig.jar         2059429   2482208413   25348
5.2.0-TIV-ITDS-Win32-FP0002\data\examples\getopt.c               1590   2090084485   20165
5.2.0-TIV-ITDS-Win32-FP0002\data\examples\ldapchangepwd.c       35682   4205320871   59673
5.2.0-TIV-ITDS-Win32-FP0002\data\examples\ldapdelete.c          30375   3420861261   57941
5.2.0-TIV-ITDS-Win32-FP0002\data\examples\ldapexop.c           146997    719625620   62822
5.2.0-TIV-ITDS-Win32-FP0002\data\examples\ldapmodify.c          60008    178445060   39924
5.2.0-TIV-ITDS-Win32-FP0002\data\examples\ldapmodrdn.c          31448   2534638156   52535
5.2.0-TIV-ITDS-Win32-FP0002\data\examples\ldapsearch.c          63248   1319681194   56347
5.2.0-TIV-ITDS-Win32-FP0002\data\examples\makefile.ex            4164   3773856574   26300
5.2.0-TIV-ITDS-Win32-FP0002\data\include\audit-plugin-list.h     3205   1088798553   58947
5.2.0-TIV-ITDS-Win32-FP0002\data\include\audit-plugin.h         13643   3348734374   50721
5.2.0-TIV-ITDS-Win32-FP0002\data\include\lber.h                  1690   2601408596   07655
5.2.0-TIV-ITDS-Win32-FP0002\data\include\ldap.h                 56351    854341946   57785
5.2.0-TIV-ITDS-Win32-FP0002\data\include\ldaplocale.h            5333   1610832070   23402
5.2.0-TIV-ITDS-Win32-FP0002\data\include\ldapssl.h              18249   3056274632   51552
5.2.0-TIV-ITDS-Win32-FP0002\data\include\ldif.h                  4476   1531774735   54751
5.2.0-TIV-ITDS-Win32-FP0002\data\include\slapi-plugin.h         12363   1388291967   36103
5.2.0-TIV-ITDS-Win32-FP0002\data\lib\ldap.lib                  250894   3223540739   51334
5.2.0-TIV-ITDS-Win32-FP0002\data\lib\ldapstatic.lib           1316352   1394987415   25265
5.2.0-TIV-ITDS-Win32-FP0002\data\lib\libldapiconv.lib            6186   3369418620   57957
5.2.0-TIV-ITDS-Win32-FP0002\data\lib\libldapiconvstatic.lib      7202   3349926222   15205
5.2.0-TIV-ITDS-Win32-FP0002\data\lib\libldif.lib                30842    950026334   20684
5.2.0-TIV-ITDS-Win32-FP0002\data\lib\libmsg.lib                119908   1530169006   53970
5.2.0-TIV-ITDS-Win32-FP0002\data\lib\libmsgs.lib                33478   1033499879   22052
5.2.0-TIV-ITDS-Win32-FP0002\data\lib\libslapi.lib               83612   2640659783   09326
```

Installing the update adds the following file to your system:

```
File                                          bytes      cksum    sum -r
==========================================  ==========  ==========  ======
%LDAPHome%\bin\5.2.0-TIV-ITDS-Win32-FP0002.txt     54  3426634799   50734
```

The following files are updated with the accompanying sizes and sums. Depending on the packages and options used in the original product installation, you might not have all of the following files:

```
File                                          bytes       cksum    sum -r
==========================================  ===========  ==========  ======
%LDAPHome%\bin\IBMLDAPJavaBer.jar                42096  3630654657   33650
%LDAPHome%\bin\IDSproxyDll.dll                   24830   488599706   12694
%LDAPHome%\bin\IDSproxyExe.exe                   21362  2225577090   65017
%LDAPHome%\bin\SHSMP.DLL                        116432  3186840877   27703
%LDAPHome%\bin\SHSMPd.DLL                       190976  1173065809   21358
%LDAPHome%\bin\SchemaMigrate.jar                 42862  2138958268   61327
%LDAPHome%\bin\bulkload.exe                     334484  4031925182   58397
%LDAPHome%\bin\cfgmodify.exe                     43739   346869558   29479
%LDAPHome%\bin\db2ldif.exe                      230191  2415812189   44941
%LDAPHome%\bin\dbback.exe                        34972  3082272397   14402
%LDAPHome%\bin\dbrestore.exe                     35239  1917919054   31163
%LDAPHome%\bin\ibmdiradm.exe                    198627  1728340992   04374
%LDAPHome%\bin\ibmdirctl.exe                     33411   254328483   25099
%LDAPHome%\bin\ibmldapcfg.dll                   305672   188160637   46561
%LDAPHome%\bin\ibmmultiadd.exe                   62312  3703280127   15706
%LDAPHome%\bin\ibmslapd.exe                     719741  3169153476   40194
%LDAPHome%\bin\ldacfg.dll                        73214  3624678388   21210
%LDAPHome%\bin\ldamsg.exe                        20143  3018251038   45713
%LDAPHome%\bin\ldap.dll                         395441  4278716211   47979
%LDAPHome%\bin\ldap_ph.dll                       58896  3280165042   49885
%LDAPHome%\bin\ldap_plugin_ibm_gsskrb.dll        31873  3040551721   44039
%LDAPHome%\bin\ldap_plugin_sasl_cram-md5.dll     23198  1272331507   39154
%LDAPHome%\bin\ldap_plugin_sasl_digest-md5.dll   40745  3073325131   14726
%LDAPHome%\bin\ldapadd.exe                       56275  1076214132   08098
%LDAPHome%\bin\ldapbp.jar                        49437   199784888   33729
%LDAPHome%\bin\ldapcfg.exe                       22775   753506561   28699
%LDAPHome%\bin\ldapchangepwd.exe                 30562   271209757   60502
%LDAPHome%\bin\ldapdelete.exe                    30227  1002209522   19321
%LDAPHome%\bin\ldapdiff.exe                      22776  1394788086   32275
%LDAPHome%\bin\ldapdiff.jar                     133567  2980547972   39663
%LDAPHome%\bin\ldapexop.exe                      79448  3718129678   39498
%LDAPHome%\bin\ldapjrt.dll                       31668  3131963304   19429
%LDAPHome%\bin\ldapmodify.exe                    56275  1076214132   08098
%LDAPHome%\bin\ldapmodrdn.exe                    34627  3194369571   56836
%LDAPHome%\bin\ldapsearch.exe                    60363  3750480120   11282
%LDAPHome%\bin\ldaptrace.exe                     34350  2848014221   22922
%LDAPHome%\bin\ldapucfg.exe                      22776  1980470550   58130
%LDAPHome%\bin\ldapxcfg.exe                      22776  2843571837   21787
%LDAPHome%\bin\ldif.exe                          26872  1302434083   12792
%LDAPHome%\bin\ldif2db.exe                      191535  4178695196   51438
%LDAPHome%\bin\ldtrc.exe                         68020  2915560442   39605
%LDAPHome%\bin\ldtrcd.exe                        20037  1704535119   30302
%LDAPHome%\bin\libDSP.dll                        36111   259034971   33668
%LDAPHome%\bin\libDigest.dll                     67501  1229046212   07810
%LDAPHome%\bin\libback-config.dll                89531  3196600851   47686
%LDAPHome%\bin\libback-rdbm.dll                1394363  2488268962   47269
%LDAPHome%\bin\libcl.dll                         46960  3847365937   45613
%LDAPHome%\bin\libdbadmin.dll                   177300   280687166   02139
%LDAPHome%\bin\libevent.dll                      52283  1373344811   65146
%LDAPHome%\bin\libldapaudit.dll                  43375  3215424595   05906
%LDAPHome%\bin\libldapiconv.dll                  23946  3289139455   28354
%LDAPHome%\bin\libldapkrb.dll                    47767   568586171   13660
%LDAPHome%\bin\libldaprepl.dll                  371233  4191142257   43553
%LDAPHome%\bin\libloga.dll                       41718  1664255510   50080
%LDAPHome%\bin\libmessage.dll                    99350  2006620437   43030
%LDAPHome%\bin\libmsgs.dll                       86016  3396738132   45929
%LDAPHome%\bin\libslapi.dll                     153691  2131638686   62161
%LDAPHome%\bin\libtranext.dll                    35692   353958606   43346
%LDAPHome%\bin\libtransys.dll                   158554  2597469044   46183
%LDAPHome%\bin\libtrc.dll                        40541  1721296336   29931
%LDAPHome%\bin\libutils.dll                    1379470  1473099135   53050
```

```
%LDAPHome%\bin\libutlsa.dll                     41723  3919496964  22990
%LDAPHome%\bin\ltou.exe                         20216    20995915  60994
%LDAPHome%\bin\runstats.exe                    165172  4206500918  45819
%LDAPHome%\bin\utol.exe                         20220  3371438064  05900
%LDAPHome%\config\IDSConfig.jar               2059429  2482208413  25348
%LDAPHome%\examples\getopt.c                     1590  2090084485  20165
%LDAPHome%\examples\ldapchangepwd.c             35682  4205320871  59673
%LDAPHome%\examples\ldapdelete.c                30375  3420861261  57941
%LDAPHome%\examples\ldapexop.c                 146997   719625620  62822
%LDAPHome%\examples\ldapmodify.c                60008   178445060  39924
%LDAPHome%\examples\ldapmodrdn.c                31448  2534638156  52535
%LDAPHome%\examples\ldapsearch.c                63248  1319681194  56347
%LDAPHome%\examples\makefile.ex                  4164  3773856574  26300
%LDAPHome%\include\audit-plugin-list.h           3205  1088798553  58947
%LDAPHome%\include\audit-plugin.h               13643  3348734374  50721
%LDAPHome%\include\lber.h                        1690  2601408596  07655
%LDAPHome%\include\ldap.h                       56351   854341946  57785
%LDAPHome%\include\ldaplocale.h                  5333  1610832070  23402
%LDAPHome%\include\ldapssl.h                    18249  3056274632  51552
%LDAPHome%\include\ldif.h                        4476  1531774735  54751
%LDAPHome%\include\slapi-plugin.h               12363  1388291967  36103
%LDAPHome%\lib\ldap.lib                        250894  3223540739  51334
%LDAPHome%\lib\ldapstatic.lib                 1316352  1394987415  25265
%LDAPHome%\lib\libldapiconv.lib                  6186  3369418620  57957
%LDAPHome%\lib\libldapiconvstatic.lib            7202  3349926222  15205
%LDAPHome%\lib\libldif.lib                      30842   950026334  20684
%LDAPHome%\lib\libmsg.lib                      119908  1530169006  53970
%LDAPHome%\lib\libmsgs.lib                      33478  1033499879  22052
%LDAPHome%\lib\libslapi.lib                     83612  2640659783  09326
```

Applying the fix pack

You can apply this fix pack on the following platforms:
- AIX
- HP-UX
- Linux s390
- Linux pSeries
- Linux i386
- Solaris
- Windows

Go to the appropriate section for your platform:
- "Applying the fix pack on UNIX or Linux platforms"
- "Applying the fix pack on Windows platforms" on page 23

Applying the fix pack on UNIX or Linux platforms

Do the following to apply the fix pack:
1. Stop all IBM Tivoli Directory Server client or server processes, including the LDAP server, Admin Daemon, and custom LDAP applications. Programs and libraries cannot be replaced while they are in use. Run **ldtrc off** to turn off tracing, if tracing is enabled.
2. Extract the tar file to a directory with free space as defined in the following table:

Platforms	Storage requirements	Tar file	Subdirectory
AIX	55 MB free space	5.2.0-TIV-ITDS-AIX-FP0002.tar	5.2.0-TIV-ITDS-AIX-FP0002

HP-UX	57 MB free space	5.2.0-TIV-ITDS-HPUX-FP0002.tar	5.2.0-TIV-ITDS-HPUX-FP0002
Linux i386	29 MB free space	5.2.0-TIV-ITDS-Linux32-FP0002.tar	5.2.0-TIV-ITDS-Linux32-FP0002
Linux pSeries	22 MB free space	5.2.0-TIV-ITDS-Linuxip32-FP0002.tar	5.2.0-TIV-ITDS-Linuxip32-FP0002
Linux s390	23 MB free space	5.2.0-TIV-ITDS-Linuxz31-FP0002.tar	5.2.0-TIV-ITDS-Linuxz31-FP0002
Solaris	42 MB free space	5.2.0-TIV-ITDS-Solaris-FP0002.tar	5.2.0-TIV-ITDS-Solaris-FP0002

This creates a new subdirectory named 5.2.0-TIV-ITDS-*<Multi>*-FP0002, where *<Multi>* is the operating system designator:

- AIX – AIX
- HPUX – HP-UX
- Linux32 – Linux i386
- Linuxip32 – Linux pSeries
- Linuxz31 – Linux s390
- Solaris – Solaris

The new directory contains the following files and subdirectory:

```
install_update.sh
uninstall_update.sh
data/
```

3. Log in as root.
4. Run the following command from the 5.2.0-TIV-ITDS-*<Multi>*-FP0002 subdirectory:

```
./install_update.sh
```

> **Note:** The install_update script saves a backup of your previous version of IBM Tivoli Directory Server in the data subdirectory. Do not remove the data subdirectory if you intend to uninstall the update.

5. After installation, confirm the following files:
   - /usr/ldap/bin/5.2.0-TIV-ITDS-AIX-FP0002.txt (AIX)
   - /usr/IBMldap/bin/5.2.0-TIV-ITDS-HPUX-FP0002.txt (HP-UX)
   - /usr/ldap/bin/5.2.0-TIV-ITDS-Linux32-FP0002.txt (Linux i386)
   - /usr/ldap/bin/5.2.0-TIV-ITDS-Linuxip32-FP0002.txt (Linux pSeries)
   - /usr/ldap/bin/5.2.0-TIV-ITDS-Linuxz31-FP0002.txt (Linux s390)
   - /opt/IBMldapc/bin/5.2.0-TIV-ITDS-Solaris-FP0002.txt (Solaris)

contain the following information:

```
IBM Directory    Release: aus52ldap  Build: 041206a
```

Applying the fix pack on Windows platforms

Do the following to apply the fix pack:

1. Extract the patch file to a directory with at least 22 MB free space. This creates a new subdirectory named 5.2.0-TIV-ITDS-Windows-FP0002 containing the following files and subdirectory:

```
install_update.bat
uninstall_update.bat
data\
```

2. Stop all IBM Tivoli Directory Server client or server processes, including the LDAP server, Admin Daemon, and custom LDAP applications. Programs and libraries cannot be replaced while they are in use. Run **ldtrc off** to turn off tracing, if tracing is enabled.

3. Run the following command from the 5.2.0-TIV-ITDS-Windows-FP0002 subdirectory:

```
./install_update.bat
```

> **Note:** The install_update script saves a backup of your previous version of IBM Tivoli Directory Server in the data subdirectory. Do not remove the data subdirectory if you intend to uninstall the update.

4. After installation, confirm the file *<LDAPHOME>*\bin\5.2.0-TIV-ITDS-Windows-FP0002.txt (Windows) contains the following information:

```
IBM Directory    Release: aus52ldap  Build: 041206a
```

Uninstalling the fix pack

Do the following to uninstall the fix pack on each platform:

Uninstalling the fix pack on UNIX or Linux platforms

To uninstall the fix pack:

1. Log in as root.

2. Stop all IBM Tivoli Directory Server client and server processes including the LDAP server, Admin Daemon and custom LDAP applications. Programs and libraries cannot be replaced while they are in use.

3. Run the following command from the 5.2.0-TIV-ITDS-*<Multi>*-FP0002 subdirectory:

```
./uninstall_update.sh
```

Uninstalling the fix pack on Windows platforms

To uninstall the fix pack:

1. Stop all IBM Tivoli Directory Server client and server processes including the LDAP server, Admin Daemon and custom LDAP applications. Programs and libraries cannot be replaced while they are in use.

2. Run the following command:

```
5.2.0-TIV-ITDS-Windows-FP0002\uninstall_update.bat
```

Functionality/Behavior Impact

Changes in the functionality or behavior of IBM Tivoli Directory Server after upgrading to this fix pack:

APAR	Impact			Description
	Low	Medium	High	
IR53988	✔			(Solaris only) Allow LDAP client plugins to resolve symbols from those identified as global of the parent loader.
IR54007	✔			A search using the ibmallGroups operational attribute may not return all the groups of which the base entry is a dynamic member.

IR54084	✔			A search of base cn=monitor always returns total_ssl_connections=0 and total_tls_connections=0.
IR54085	✔			Members of the Administration Group do not have the same search size and time limits as the Administrator.
IR54086		✔		Client will leak memory resolving a referral to to an entry which is also a referral
IR54087			✔	Server may return incorrect results or ABEND if network capacity is saturated
IR53741		✔		Replacing the V3.modifiedschema file causes the replication que to disappear without replicating nor schema errors.
IR54069		✔		Server Hang occurs when performance Run Stat Tool is running.
IR54124		✔		Memory leaks replicating adds, deletes and searches.
IR54443		✔		Client API ldap_parse_pwdpolicy_responce can crash client.
IR54445	✔			Not able to generate a core file on Red Hat Linux 3.0
IR54446		✔		Incorrect transaction processing for Password Policy operational attributes
IR54268	✔			chlog: firstchangenumber and lastchangenumber not incrementing
IR54428			✔	Server cores w/tracing on and old slapd.cat file.
IR54063	✔			Changes to the FD_SETSIZE for BPM
IR54466		✔		Server may core if ibmslapdAllowAnon=false
IR54762		✔		Timeout client connections on SSL port which do not promptly initiate handshake
IR54785		✔		Server leaks memory in ldapsearch operations
IR54787	✔			aclsource and ownersource operational attributes may be corrupted by ModifyDN operation
IR54788	✔			ldapexop utility returns exit code 0 on LDAP error
IR54789	✔			ldapchangepwd utility returns exit code 0 on LDAP error
IR54791			✔	Server crashes on readlog exop with start line=0 and endline=0
IR54792		✔		Authentication failure using digest MD5 returns LDAP error 1 (Operations error)
IR54793		✔		Bulkload may not detect file system full errors during parse phase
IR54795			✔	Certain ldap searches looking for acls can core the ldap server with fix IR53383 (delievered in 5.2 fix pack 1)
IR54519			✔	solaris Funtion localtime_r() causes ldap server crash.

IR54804		✔		Now free SQL handles in password policy as required
IR54212		✔		LDAP does not observe matching rules by names
IR54267	✔			"Skip Blocking Entry" button does not function properly in Webadmin [2part fix requires both webadmin and IDS server updates]
IR54519	✔			Remove all ctime() and localtime() and replace with MTSAFE functions
IR54881	✔			ldapsearch fails with ssl error 406 or 420 if server is on AIX w/P520A01Db
IR54901	✔			ldapsearch e shows SDK version 510
IR54902		✔		Boolean values ("true" | "false") are not enforced in audit configuration
IR54954		✔		Do not delete pwdFailureTime attribute on Readonly replica
IR54958		✔		ldapmodify of pwdchangetime with invalid date doesn't fail
IR54959			✔	LDAPMODIFY Replace PWDReset with no values crashes server
IR54960		✔		pwdchangetime in year 2100 results in expired password
IR54986			✔	Possible LDAP server crashes upon receiving bad BER.
IR55018	✔			Log effective ulimits at server startup.
IR55034		✔		incorrect and missing attr in diradm rootDSE
IR54509		✔		Crebind on referrals should be sync not async
IR55035		✔		Kerberos enabled ldapsearch failed when allowAnon is set.
IR55090		✔		SSL Connection not working correctly when only sending 64 bytes of data
IR55107		✔		APAR fixes errors found in IR54958 with ldapmodify of PWDCHANGETIME

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