



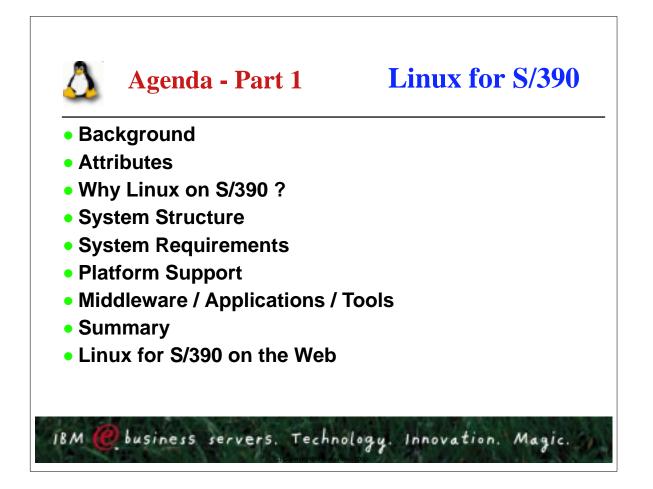
# *Linux for S/390 - It's cool Part 1*

Gen 1B1 - VM/VSE Technical Conference June 2000, La Hulpe / Belgium

Ingo Adlung adlung@de.ibm.com

Linux Contact Linux390@de.ibm.com Copyright IBM Corporation, 2000

Linux is a registered trademark of Linus Torvalds and others S/390 is a registered trademark of the IBM Corporation



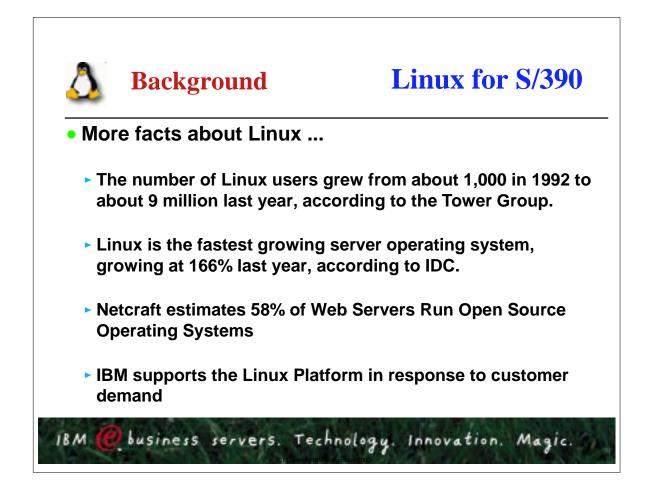


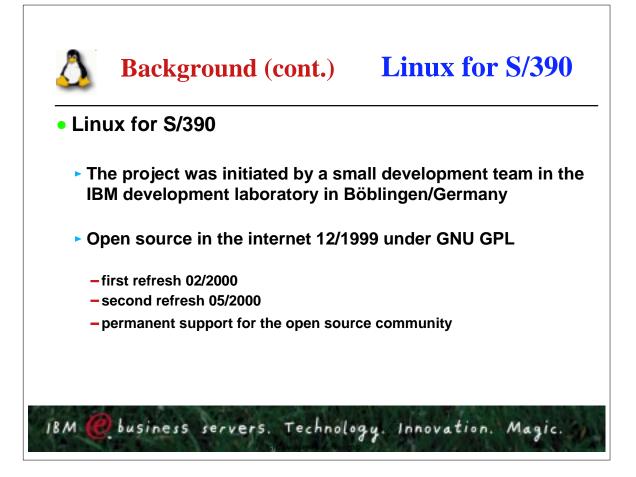
### Background

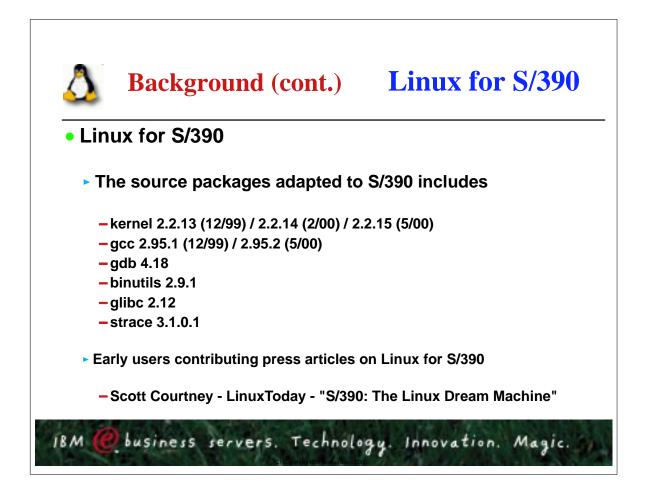
#### • What is Linux ?

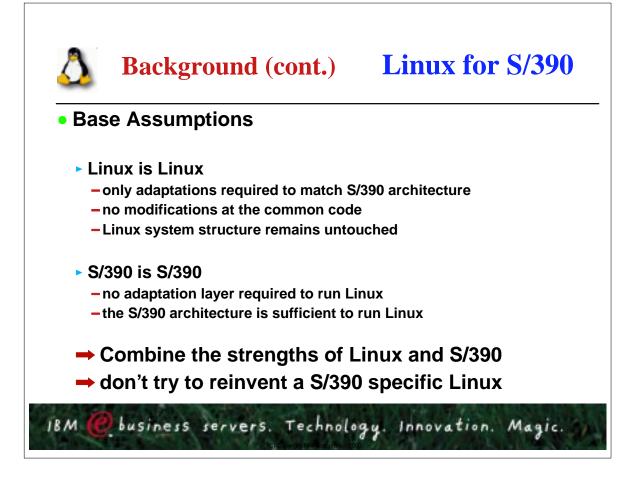
- A popular UNIX system, developed by Linus Torvalds in 1991
- Portable, with support for numerous hardware platforms
- Available in source code, under GNU General Public License (GNU GPL)
- A very stable operating system, developed and tested by 1000s of programmers world wide
- Fast reaction to market requirements
- Lots of different distributions, like Red Hat, SuSE, Caldera, Turbo Linux, Debian, and many others

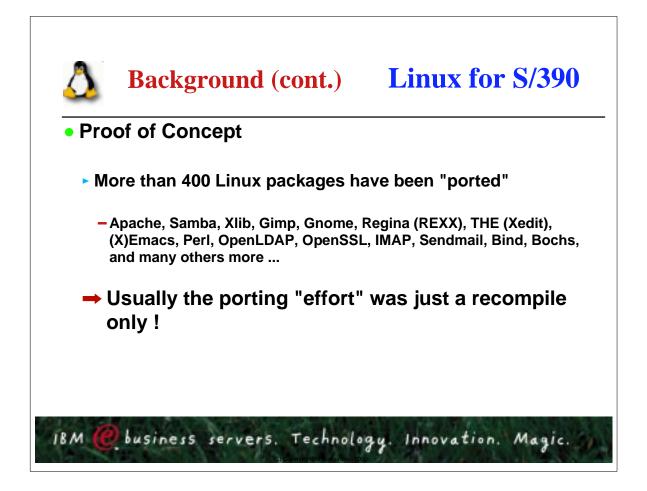


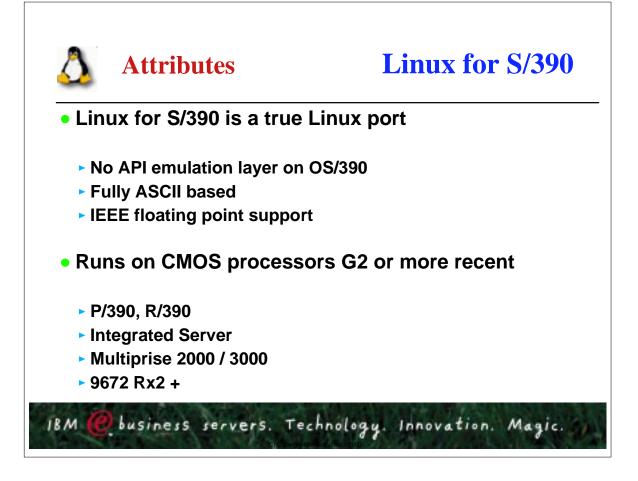


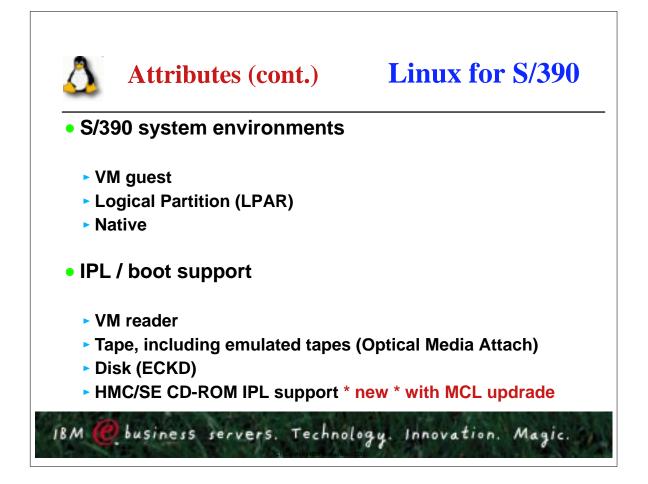


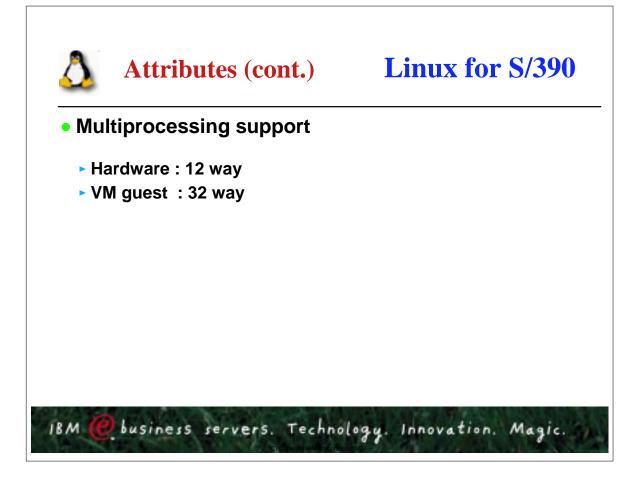


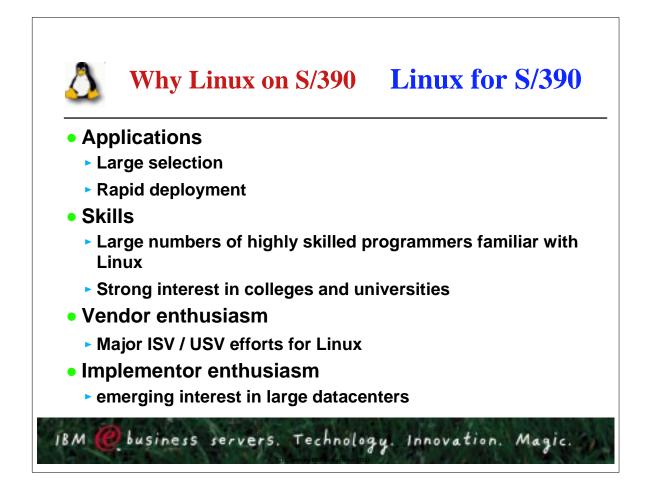














## Why Linux on S/390 Linux for S/390

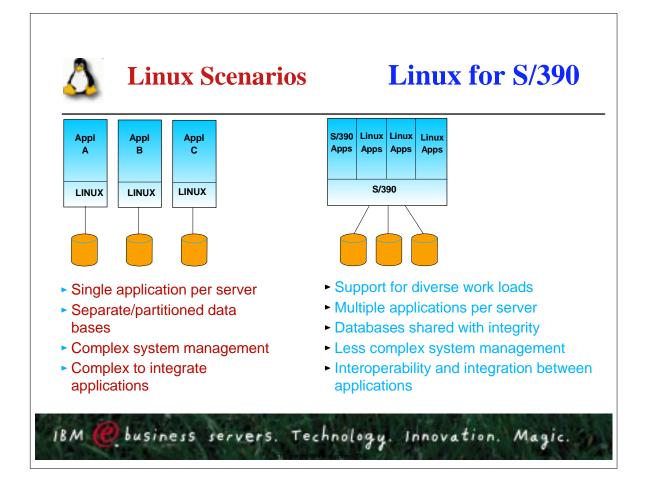
#### Reliability

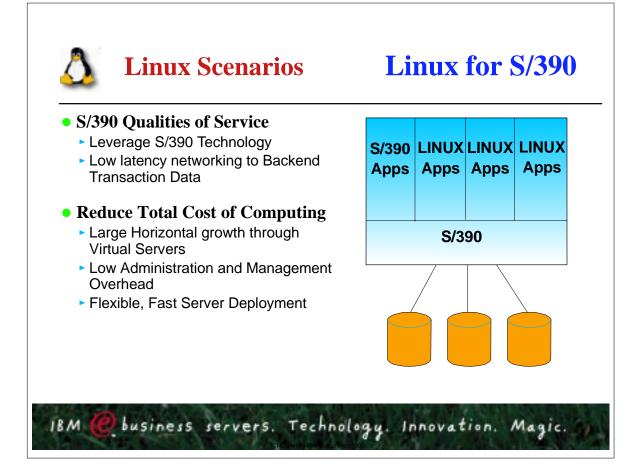
- The most reliable hardware platform available. Period.
- Over 35 years of constant improvements

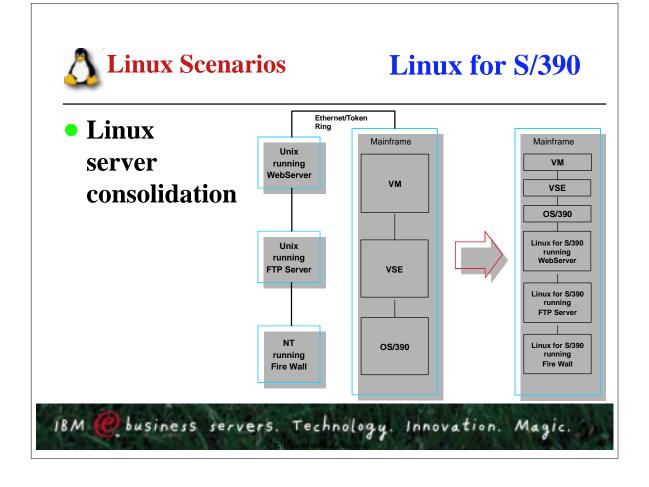
#### Scalability

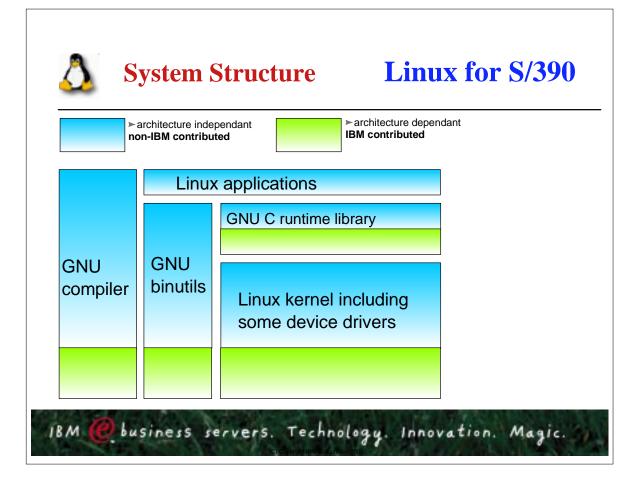
- 15 Linux images possible on native hardware
- Virtually unlimited Linux images possible with VM/ESA
- Manageability
  - Centralized Linux systems easier to manage / duplicate
  - Use management functions from S/390 operating systems for Linux (e.g. backup, autostart, etc.)
  - Simplified management One server versus many

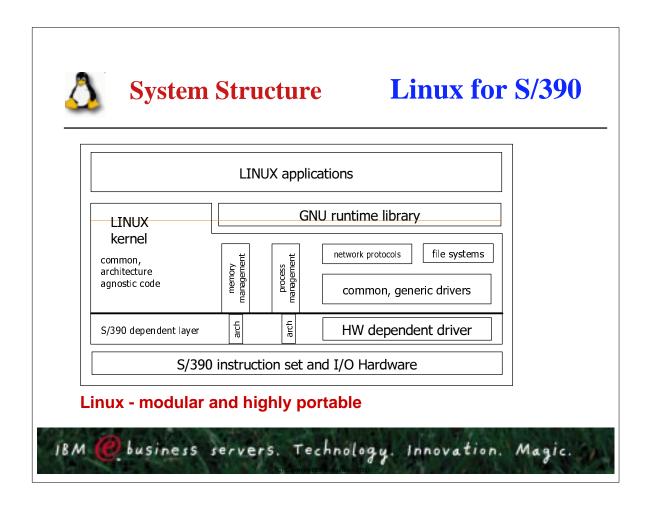




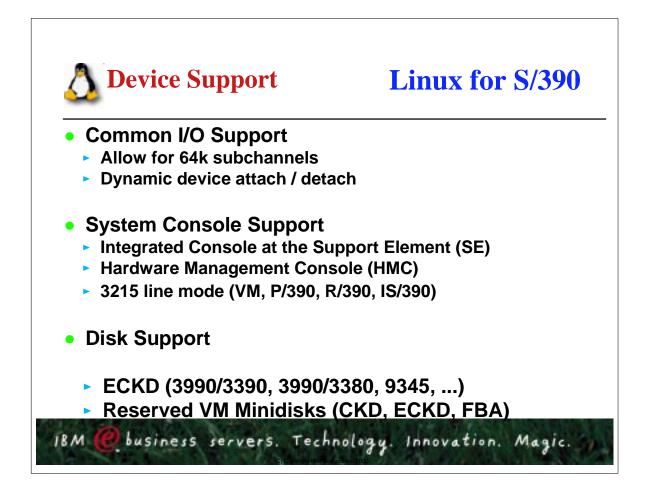








xample for net	work support		
TCP/IP			<ul> <li>Common Linux</li> </ul>
Ethernet	Token Ring	CTC Device	<ul> <li>Linux for S/390 architecture</li> </ul>
LCS Device D	river	Driver	specific code
do_IO( CCW Chain )	Int.Handler ( devic	e status block )	
Common I/O Support Routines			S/390 Hardware
sscн S/390 Hardwa		O Interrupts	





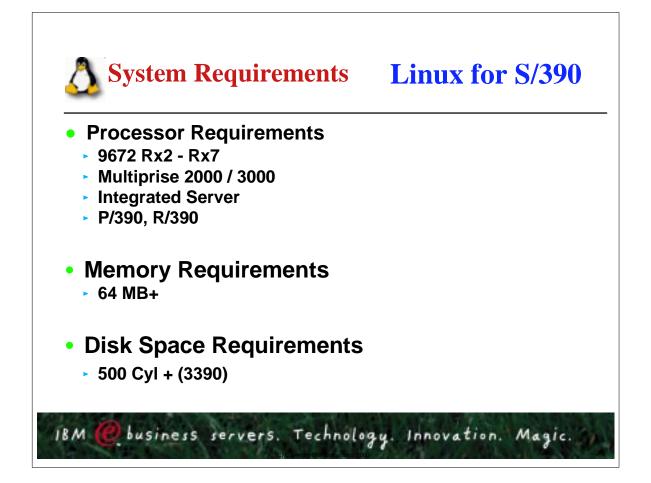
#### Network Support

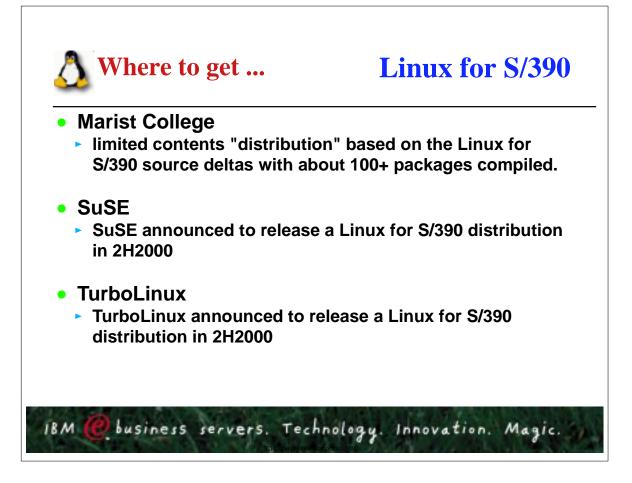
- Ethernet, Token Ring, Fast Ethernet (FE), ATM LAN Emulation (ATM LE)
- IUCV (VM)
- ESCON, and parallel CTCA (incl. VCTCA VM)
- OSA-2 (EnTr, FE, ATM LE)
- LAN Channel Station (LCS) protocol
- OSA Express Fast Ethernet (LCS)
- 3172 real, emulated (LCS)
- IBM 2216 Router (LCS ESCON connected)

#### Tape Support

3480/3490 (in development)

business servers. Technology. Innovation. Magic. 1BM





BM		
Product / Package	Availability	
DB2 Connect / DB2 UDB	Beta 3Q00 / Avail. 4Q00	
IMS Connect	Beta 3Q00 / Avail. 4Q00	
Webspere 3.5 on JVM 1.2.2	Beta 3Q00 / Avail. 4Q00	
MQSeries	Beta 3Q00 / Avail. 4Q00	
CICS Transaction Gateway	Beta 3Q00 / Avail. 4Q00	
Software AG Tamino XML Informat	tion Server	



