Update on IBM Hardware with OS/2 Support and OS/2 Device Drivers

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Community Leader Enterprise Warp & Workspace Services
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Agenda

- IBM Hardware with OS/2 Support
  - Thinkpads
  - NetVista Desktops
  - eServer xSeries
- OS/2 SWChoice & Fixpacks
- OS/2 Device Driver updates
- Other interesting stuff
IBM ThinkPad Family for 2002/2003

**Xtreme / Ultraportable**
- extreme thin, very light
- 12.1" TFT, 1.6 kg
- X24 / X30

**Travel**
- perfect balance of mobility and performance
- 14.1" TFT, 2.2 kg
- T23 / T30

**Ready to Run**
- your mobile entry
- 13.3 & 14.1" TFT, 2.4 kg
- R32

**Desktop Alternative**
- High-performance desktop-alternative
- 14.1" & 15.0" TFT, 3.3 kg
- A31 / A31p
IBM ThinkPad T30 features

- Kensington lockup
- Metal-hinges
- Shockabsorbing harddrive bay
- Built-in Wireless Antennas
- Infrared
- New Design of ThinkPad Buttons and volume control
- Bluetooth display
- Internet navigations keys
- UltraNav (Touchpad and TrackPoint)
- Ethernet LED
- Colored Audio-interfaces
- Colored interfaces
## Comparsion ThinkPad T23 and T30

<table>
<thead>
<tr>
<th>Specifications</th>
<th>ThinkPad T23 (April Announce) Workhorse</th>
<th>ThinkPad T30 Workhorse</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>TFT Display</strong></td>
<td>14.1&quot; XGA</td>
<td>14.1&quot; XGA</td>
<td></td>
</tr>
<tr>
<td><strong>Max. Resolution</strong></td>
<td>1024x768, 16M (XGA)</td>
<td>1024x768, 16M (XGA)</td>
<td></td>
</tr>
<tr>
<td><strong>Graphics Chipset / VRAM</strong></td>
<td>S3Graphics SuperSavage IXC, 16MB</td>
<td>ATI Mobility Radeon 7500, 16MB</td>
<td>ATI chip set provides better scaling</td>
</tr>
<tr>
<td><strong>Processor</strong></td>
<td>Pentium III-M - 1.2GHz</td>
<td>Mobile Pentium 4 - M - 1.8/2.0GHz</td>
<td></td>
</tr>
<tr>
<td><strong>System Memory / Max</strong></td>
<td>256MB / 1GB</td>
<td>256MB / 1GB</td>
<td>DDR memory can process two calculations per clock cycle</td>
</tr>
<tr>
<td><strong>Memory Type</strong></td>
<td>PC 133 (133MHz)</td>
<td>PC 2100 DDR (266 MHz)</td>
<td></td>
</tr>
<tr>
<td><strong>HDD</strong></td>
<td>40GB</td>
<td>40GB</td>
<td></td>
</tr>
<tr>
<td><strong>Optical Drive</strong></td>
<td>8X DVD</td>
<td>8X DVD</td>
<td></td>
</tr>
<tr>
<td><strong>10/100 Ethernet</strong></td>
<td>Yes (CDC Slot)</td>
<td>Yes (Soldered on Planar)</td>
<td>Soldering on planar frees up the CDC for Bluetooth</td>
</tr>
<tr>
<td><strong>Modem</strong></td>
<td>V.92 Designed</td>
<td>V.92 Designed</td>
<td></td>
</tr>
<tr>
<td><strong>Integrated 802.11b Wireless</strong></td>
<td>Select Models</td>
<td>Select Models</td>
<td>T30 is available with Intel or Cisco 802.11b</td>
</tr>
<tr>
<td><strong>Integrated Bluetooth</strong></td>
<td>Yes</td>
<td>Available via special bid</td>
<td>T30 Wireless leadership model comes with Bluetooth standard</td>
</tr>
<tr>
<td><strong>Dimensions</strong></td>
<td>12&quot; x 9.8&quot; x 1.3&quot;</td>
<td>12&quot; x 9.8&quot; x 1.4&quot;</td>
<td>T30 is slightly thicker to allow for higher-wattage Pentium 4 Processor</td>
</tr>
<tr>
<td><strong>Weight (Trvl / CD or DVD)</strong></td>
<td>4.6lbs / 5.0lbs</td>
<td>5.0 lbs / 5.4lbs*</td>
<td></td>
</tr>
<tr>
<td><strong>System Battery Type / battery life</strong></td>
<td>6 cell Li-Ion / 3.5 hrs</td>
<td>6 cell Li-Ion / 2.5 hrs*</td>
<td>T30 does not support WorkPad charging in the Ultrabay cradle</td>
</tr>
<tr>
<td><strong>Ultrabay Plus</strong></td>
<td>Yes</td>
<td>Yes</td>
<td></td>
</tr>
<tr>
<td><strong>PC Card Slots</strong></td>
<td>2 TII or 1 TIII</td>
<td>2 TII or 1 TIII</td>
<td></td>
</tr>
<tr>
<td><strong>Chipset</strong></td>
<td>Intel 830MP</td>
<td>Intel 845MP</td>
<td>New Intel 845MP core chip set</td>
</tr>
<tr>
<td><strong>FSB Speed</strong></td>
<td>133 MHz</td>
<td>400 MHz</td>
<td>Improved bus speed</td>
</tr>
<tr>
<td><strong>Parallel/2 USB/VGA/Serial/S-Video Out/PS-2</strong></td>
<td>Yes/Yes/Yes/Yes/Yes</td>
<td>Yes/Yes/Yes/Yes/Yes/No</td>
<td>No PS/2 port on system. PS/2 supported via dock and port rep</td>
</tr>
<tr>
<td><strong>RJ11/RJ45</strong></td>
<td>Yes / Yes</td>
<td>Yes / Yes</td>
<td>T30 RJ45 has LED indicators</td>
</tr>
<tr>
<td><strong>Audio (head ph/mic/line-in) / Infrared</strong></td>
<td>Yes / Yes</td>
<td>Yes / Yes</td>
<td></td>
</tr>
<tr>
<td><strong>UltraPort</strong></td>
<td>Yes</td>
<td>No</td>
<td>No UltraPort on T30</td>
</tr>
<tr>
<td><strong>ThinkLight</strong></td>
<td>Yes</td>
<td>Yes</td>
<td></td>
</tr>
<tr>
<td><strong>UltraNav Dual Pointing System</strong></td>
<td>No</td>
<td>Select Models</td>
<td>New Feature for T30</td>
</tr>
<tr>
<td><strong>IBM HDD Shock Absorber</strong></td>
<td>No</td>
<td>Yes</td>
<td>New Feature for T30</td>
</tr>
<tr>
<td><strong>Floppy Drive in Ship Group</strong></td>
<td>Yes</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td><strong>DVI</strong></td>
<td>No</td>
<td>Supported through Dock and Port Replicator</td>
<td>T30 supports via Dock and Port Rep</td>
</tr>
<tr>
<td><strong>ThinkPad Button</strong></td>
<td>Yes + volume cntrl</td>
<td>Yes + volume cntrl</td>
<td></td>
</tr>
<tr>
<td><strong>Port Rep / Dock Support</strong></td>
<td>Yes</td>
<td>Yes</td>
<td></td>
</tr>
<tr>
<td><strong>Security Subsystem</strong></td>
<td>No</td>
<td>TCPA-Compliant (On Wireless Models)</td>
<td>Available via special bid on all models. Standard on T30 Leadership and Wireless Workhorse models</td>
</tr>
</tbody>
</table>
## IBM Thinkpad T23 Driver Support

<table>
<thead>
<tr>
<th>Feature</th>
<th>Chip</th>
<th>PCD</th>
<th>optional</th>
</tr>
</thead>
<tbody>
<tr>
<td>Video</td>
<td>S3 SuperSavage IXC</td>
<td>S3 Driver</td>
<td>SDD/se 7.10 Snap 2.0</td>
</tr>
<tr>
<td>Sound</td>
<td>Crystal Audio AC97 CS4399</td>
<td>Crystal Driver 5.01</td>
<td></td>
</tr>
<tr>
<td>Ethernet</td>
<td>Intel PCI 10/100</td>
<td>e100b.os2 V4.35 (APM Problems)</td>
<td>cust. e100b.os2</td>
</tr>
<tr>
<td>PCMCIA</td>
<td>TI PCI1420</td>
<td>none</td>
<td>DDPak</td>
</tr>
<tr>
<td>USB</td>
<td>UHCI</td>
<td>none</td>
<td>DDPak</td>
</tr>
<tr>
<td>Modem</td>
<td>WinBond &quot;Scorpio&quot;</td>
<td>none</td>
<td>none</td>
</tr>
<tr>
<td>DVD/UDF</td>
<td>Matshita</td>
<td>none</td>
<td>DDPak</td>
</tr>
<tr>
<td>InfraRed</td>
<td>2Mb</td>
<td>none</td>
<td>DDPak</td>
</tr>
<tr>
<td>Trackpoint</td>
<td>TP4</td>
<td>none</td>
<td>merged DD on DDPak</td>
</tr>
<tr>
<td>Bluetooth</td>
<td>no info</td>
<td>none</td>
<td>none</td>
</tr>
<tr>
<td>Firewire</td>
<td>not implemented</td>
<td>NA</td>
<td>NA</td>
</tr>
<tr>
<td>Wireless</td>
<td>mPCI (Prism)</td>
<td>none</td>
<td></td>
</tr>
</tbody>
</table>

All OS/2 Support from PCD is on Thinkpads: [http://www.pc.ibm.com/qtechinfo/TPAD-MATRIX.htm](http://www.pc.ibm.com/qtechinfo/TPAD-MATRIX.htm)
## IBM Thinkpad T30 Driver Support

<table>
<thead>
<tr>
<th>Feature</th>
<th>Chip</th>
<th>PCD</th>
<th>optional</th>
</tr>
</thead>
<tbody>
<tr>
<td>Video</td>
<td>ATI Rage Mobility Radeon 7500</td>
<td>SDD 7.0.9 based</td>
<td>SDD/se 7.10 Snap 2.0</td>
</tr>
<tr>
<td>Sound</td>
<td>Analog Devices ICH SoundMax Digital</td>
<td>AD Driver 3.07a</td>
<td></td>
</tr>
<tr>
<td>Ethernet</td>
<td>Intel PCI 10/100</td>
<td>e100b.os2 V4.35 (APM Problems)</td>
<td>cust. e100b.os2</td>
</tr>
<tr>
<td>PCMCIA</td>
<td>TI PCI1520</td>
<td>none</td>
<td>DDPak</td>
</tr>
<tr>
<td>USB</td>
<td>EHCI</td>
<td>none</td>
<td>DDPak</td>
</tr>
<tr>
<td>Modem</td>
<td>WinBond &quot;Scorpio&quot;</td>
<td>none</td>
<td>none</td>
</tr>
<tr>
<td>DVD/UDF</td>
<td>Matshita</td>
<td>none</td>
<td>DDPak</td>
</tr>
<tr>
<td>InfraRed</td>
<td>2Mb</td>
<td>none</td>
<td>DDPak</td>
</tr>
<tr>
<td>Trackpoint</td>
<td>TP4</td>
<td>none</td>
<td>merged DD on DDPak</td>
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<td>Bluetooth</td>
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<tr>
<td>Firewire</td>
<td>not implemented</td>
<td>NA</td>
<td>NA</td>
</tr>
<tr>
<td>Wireless</td>
<td>mPCI (Prism or Intel)</td>
<td>none</td>
<td></td>
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IBM ThinkPad Options

**UltraPort Connector**
A great location to attach options like:
- IBM UltraPort Camera II
- IBM UltraPort Compact Flash Reader
- IBM UltraPort Digital Array Microphone
- Bluetooth UltraPort Module by IBM

**Ultrabay 2000**
Shared options across X, T, R and A Series:
- ThinkPad CD-RW/DVD Combo II Drive
- ThinkPad Ultrabay 2000 Li-Ion Battery (only on A & T Series)
- ThinkPad SuperDisk (LS-240)
- ThinkPad Zip 250MB Ultrabay 2000
- ThinkPad 2nd HDD Adapter with choice of 20GB, 40GB or High Speed 60GB HDD’s

**Integrated Wireless**
- The IBM High Rate Wireless LAN Access Point 500 rounds out your integrated wireless solution.
- IBM High Rate Wireless LAN PC Card III
- IBM High Rate Wireless mPCI Card

**PC Card Slots**
- Bluetooth PC Card II from IBM
- IBM 16/4 Token -Ring CardBus Adapter
- ThinkPad USB 2.0 CardBus Adapter

**IBM Memo**
- Boost your systems performance by adding PC2100 DDR SDRAMM SoDIMMs to T30 and A31 Series notebooks

**Ultrabay Plus**
Additional expansion capability:
- ThinkPad Ultrabay Plus Device Carrier (required to use keypad and cradle)
- ThinkPad Ultrabay Plus Numeric Keypad
- ThinkPad Ultrabay Plus Cradle for the WorkPad c500 Series

**Ultraportable Storage**
Stay connected with a variety of options:
- IBM USB 2.0 Portable CD-RW Drive
- IBM Portable 20GB USB 2.0 Hard Disk Drive
- IBM Memory Keys

**IBM Data/Video Projectors**
Now everyone in the room can see what's on your ThinkPad
- IBM iLM300 MicroPortable Data/Video Projector
- IBM iLV200 ValueBased Data/Video Projector
- IBM iLC200 Conference Room Data/Video Projector
- Spare lamps

**Flexible Expansion Options**
- ThinkPad Port Replicator
- ThinkPad Dock
- UltraBase X2 media slice

**Carrying Cases**
- ThinkPad Nylon Carrying Case (US & CAN)
- ThinkPad Premiere Leather Carrying Case (US, CAN & EMEA)

☑ IBM offers a complete line of options for its ThinkPad family
☑ Compatibility tested and supported on ThinkPad notebooks
Latest News on Thinkpad Options

➤ Portable USB 2.0 CD-RW-drive
  - 24/8/4-speed read/write/rewrite on USB 2.0
  - 6/4/2-speed read/write/rewrite on USB 1.1

➤ USB 2.0 CardBus-Adapter (no OS/2 support planned)
  - 2 Connectors for USB 2.0 and USB 1.1
  - support for Low Speed/Full Speed/High Speed (1.5/12/480 MBit/s)
  - Typ II CardBus-Schnittstelle

➤ USB 2.0 Hard drive (no OS/2 support planned)
  - 20 GB hard drive
  - Rapid Restore Software on protected area of drive
  - no power supply needed
  - Highspeed Datentransfer on USB 2.0, compatible with USB 1.1

➤ 128 MB USB Memory Key
IBM NetVista Desktops

- Today, NetVista M-Series systems are supported by OS/2.
  - NetVista M41 with nVidia 16MB Vanta graphics AGP 4x adapter (Small Form Factor, Desktop and Micro Tower)
  - NetVista M42 with integrated graphics only (Mini Desktop, Small Form Factor, Desktop, Micro Tower)
- For this product family OS/2 support is a MUST REQUEST!
NetVista M41 Hardware

- Pentium 4, 1.4 GHz - 2GHz
- Intel 845 chip, 4x 100MHz FSB, Proc->MemBus
- 256KB L2-Cache
- 133MHz SDRAM, max. 1.5 GB, 3 DIMMs
- 20/40 GB Harddrive U-IDE 100
- AGP 4x slot
- no on-board graphics, but nVidia Vanta
- 16MB PCI card
- Integrated Ethernet Controller 10/100
- Integrated Audio Chip
- Integrated speaker
- 2 serial, 1 parallel interfaces
- 4 USB-interfaces (2 front, 2 back)
- Wake on USB, Wake on LAN, PXE
- 3 PCI full length
- CD 48x speed
- Line-In, Line-Out and Mic
- Software Selection CD
- OS/2 support
- Lotus SmartSuite Licence
- Support for LCCM, SMA, SDA and UMS
# IBM NetVista M41 Driver Support

<table>
<thead>
<tr>
<th>Feature</th>
<th>Chip</th>
<th>PCD</th>
<th>optional</th>
</tr>
</thead>
<tbody>
<tr>
<td>Video</td>
<td>ATI Radeon or nVidia</td>
<td>none for ATI, old IBMGRADD for nVidia</td>
<td>SDD/se 7.10, Snap 2.0</td>
</tr>
<tr>
<td>Sound</td>
<td>ADI SoundMAX</td>
<td>SoundMAX 3.1.1</td>
<td></td>
</tr>
<tr>
<td>Ethernet</td>
<td>Intel PCI 10/100</td>
<td>e100b.os2 V4.35 (APM Problems)</td>
<td>cust. e100b.os2</td>
</tr>
<tr>
<td>USB 1.1</td>
<td>OHCI</td>
<td>none</td>
<td>DDPak</td>
</tr>
<tr>
<td>Modem</td>
<td>Conexant Winmodem</td>
<td>none</td>
<td>none</td>
</tr>
<tr>
<td>Scrollpoint</td>
<td>Scrollpoint</td>
<td>Scrollpoint 2.01</td>
<td>merged mouse-driver on DDPak / CP2</td>
</tr>
</tbody>
</table>

All OS/2 Support from PCD is on NetVista:
NetVista M42 Hardware

- Pentium 4-2,0/2,2/2,4Ghz
- Intel 845G chip 400/533 MHz FSB
- 512KB L2-Cache
- 266MHz DDR, max. 2,0 GB, 2 DIMMs
- 40 GB Harddrive U-IDE 100 (7.200rpm)
- AGP 4x slot
- Integrated graphics
- Integrated Ethernet Controller, with Gigabit on selected models
- Integrated Audio Chip
- Integrated speaker
- 2 serial, 1 parallel interfaces
- 6 USB-interfaces, USB 2.0 (2 front, 4 back)
- CD 48x speed
- Line-In, Line-Out and Mic
- XP Pro preinstalled
- OS/2 support
- Lotus Notes Client License
- Lotus SmartSuite License
- RDM, SMA, SDA and Director Agent supported
- Available as:
  - Ultra small
  - small
  - desktop
  - micro tower
## IBM NetVista M42 Driver Support

<table>
<thead>
<tr>
<th>Feature</th>
<th>Chip</th>
<th>PCD</th>
<th>optional</th>
</tr>
</thead>
<tbody>
<tr>
<td>Video</td>
<td>ATI Radeon or Intel Extreme</td>
<td>none for ATI, Intel GRADD 2.19</td>
<td>SDD/se 7.10 Snap 2.0</td>
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<tr>
<td>Sound</td>
<td>ADI SoundMAX</td>
<td>SoundMAX 3.1.1</td>
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<tr>
<td>Ethernet</td>
<td>Intel PCI 10/100VE</td>
<td>e100b.os2 V4.35 (APM Problems)</td>
<td>cust. e100b.os2</td>
</tr>
<tr>
<td>USB 2.0</td>
<td>EHCl</td>
<td>none</td>
<td>DDPak</td>
</tr>
<tr>
<td>Modem</td>
<td>Conexant SoftK56</td>
<td>none</td>
<td>none</td>
</tr>
<tr>
<td>Scrollpoint</td>
<td>Scrollpoint</td>
<td>Scrollpoint 2.01</td>
<td>merged mouse-driver on DDPak / CP2</td>
</tr>
</tbody>
</table>

All OS/2 Support from PCD is on NetVista:
IBM eServer xSeries

- OS/2 is supported on selected models
  - Small: x220, future x225
  - Medium: x232, future x235

- Support is for "legacy mode", means that new features might not be supported or might be supported only in emulation mode. Examples include, but are not limited to:
  - 32 bit emulation mode on an IA-64 bit system
  - 4 GB usable memory limitation on a system capable of greater than 4 GB
  - PCI compatibility mode operation on a PCI-X machine
IBM eServer xSeries Support for OS/2

A "√" means the operating system is supported by IBM.

However, a "√" does not imply that the network operating system will work under all combinations of hardware and software.

### IBM Operating Systems

<table>
<thead>
<tr>
<th>Model</th>
<th>x440-8687</th>
<th>x380-8683</th>
<th>x370-8681</th>
<th>x360-8686</th>
<th>x350-8682</th>
<th>x345-8670</th>
<th>x342-8669</th>
<th>x335-8676</th>
<th>x330-8674</th>
<th>x330-8675</th>
<th>x305-8685</th>
<th>x255-8665</th>
<th>x235-8671</th>
<th>x232-8668</th>
<th>x220-8645</th>
<th>x205-8480</th>
<th>x200-8481</th>
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<tbody>
<tr>
<td>4690 Operating System</td>
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<td>OS/2 Warp Server for e-business</td>
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<tr>
<td>OS/2 Warp Server Advanced V4 - SMP</td>
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<tr>
<td>OS/2 Warp Server Advanced V4</td>
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</tr>
</tbody>
</table>
IBM xSeries delivers a broad choice of universal platforms for small business, departmental and distributed computing workloads!

**x205 Uni**
Cost Optimized for small business and retail

- Uni P4
- 2GB SDRAM
- 32-bit PCI
- Fixed Drive Models
  - IDE/SCSI
- Hot Swap Drive Models -3
- Basic Systems Management
- Diagnostic LEDs

**x220 2-way**
Value performance for small and medium business

- Dual PIII Processors
- 4 GB SDRAM
- 64-bit PCI
- Hot Swap Bays - 3
- Ultra 160 SCSI
- Basic Systems Management
- Diagnostic LEDs

**x235 2-way**
Features to support mainstream business applications

- Dual Xeon Processors
- 6 GB DDR Memory
- Hot Swap Bays - 9
- Full Height Removable Bay
- Active PCI
- Dual Channel Ultra 320 SCSI & int. RAID 1, low cost RAID 5
- Hot Swap/Red. Cooling & Power
- Integrated Service Processor
- Light Path Diagnostics

**x255 4-way**
Highly expandable for mission critical applications

- 4-Way Xeon MP Processors
- 12GB Chipkill RAM
- Hot Swap Bays - 12
- Active PCI
- Dual Channel Ultra-2 SCSI
- Gigabit Ethernet
- Hot Swap/Redundant Power
- Integrated Service Processor
- Light Path Diagnostics
- 7U form factor

**Uni to 4-way Universal/Tower Product Offerings**
x220 Feature Overview

Power
- Intel PIII 2-Way SMP (Up to 1.4Ghz)
- Optional ServeRAID-4 Support
- Integrated 10/100 Ethernet

Scalability
- 128MB ECC Memory (up to 4GB)
- Up to 293GB SCSI Internal Storage
- 7 Bays: 2x3.5", 5x5.25"
- 5 PCI Slots: 3x64-bit/33Mhz, 2x32-bit/33Mhz

Availability/Manageability
- Hot Swap Drive Models
- Remote Supervisor Adapter Support
- Diagnostic LEDs
- ASR, WOL, IBM Director, ServerGuide
- Tower to Rack Option
# IBM eServer xSeries x220 Driver Support

<table>
<thead>
<tr>
<th>Feature</th>
<th>Chip</th>
<th>PCD</th>
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<td>ATI Driver</td>
<td>SDD/se 7.10 Snap 2.0</td>
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<tr>
<td>Drives</td>
<td>Ultra160 1channel</td>
<td>Ultra160 driver</td>
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<td>ServeRaid driver</td>
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</table>
x235 Feature Overview

Power
- Intel Xeon 2-way SMP support (up to 2.4Ghz)
- Supports up to 12GB PC2100 DDR ECC SDRAM
- Integrated RAID 1 with Dual Channel Ultra320 SCSI enabled
- Integrated 10/100/1000 Ethernet

Scalability
- Up to 12GB ECC
- Up to 657GB of disk in 9SL hot-swap bays
- 9 Drive Bays (6 standard + 3-pack option)
- 6 PCI Slots: 3x64-bit 100MHz, and 2x64-bit 33MHz (hot plug) and 1 32-bit PCI slot

Availability/Manageability
- Integrated RAID 1 mirroring capability
- Hot-swap redundant power / cooling models
- PFA on CPUs, VRMs, memory, power supplies, disks, and fans
- Light-Path Diagnostics?
- Active PCI-X
- Advanced Systems Management Processor

Leadership Performance

Price/Performance
#1 TPC 2-way
Raw Performance
#1 NotesBench 2-way

Flexible Xeon 2-Way SM server offering mainstream capabilities: that can grow to maximum availability and performance
<table>
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<tr>
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<td>Add on to Ultra320</td>
<td>ServeRaid driver</td>
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</table>
IBM ServeRaid Adapters - all with OS/2 support

- **ServeRAID-4Lx**
  - 32MB ECC
  - Single U160 SCSI Channel
  - 66MHz Host bus speed
  - Supports up to 14 drives
  - 1 channel
  - US$ 659

- **ServeRAID-4Mx**
  - 64MB Battery Backed up ECC Cache
  - Dual U160 SCSI Channel
  - 66MHz Host bus speed
  - Supports up to 28 drives
  - US$ 999

- **ServeRAID-4H**
  - 128MB Battery Backed up ECC Cache
  - Four U160 SCSI Channel
  - Supports up to 56 drives
  - High Performance
  - US$ 2,439

- **System Feature (Luigi)**
  - RAID 1 with Hot Spare
  - ServeRAID configurator
  - Raid 1 on Motherboard
  - US$ 529

- **ServeRAID-5i**
  - 128MB ECC
  - 66MHz Host bus speed
  - Battery Backup
  - ServeRAID Functions
  - Low Cost Raid
  - US$ 529
Server consolidation on x440

- Consolidate separate Servers to single box
- Manage resource allocations dynamically for workload or maintenance
- Take advantage of new I32 Server technology, where some legacy server operating systems don't support them
- Concentrate Server in regional or central Data Centers

- Problem: x440 with VMWare does not support OS/2!

- Solution: Certify Connectix VirtualServer on x440
  - Customer demand for OS/2 support
  - xSeries brand considers ServerProven
  - Raleigh is testing......
Agenda

- IBM Hardware with OS/2 Support
  - Thinkpads
  - NetVista Desktops
  - eServer xSeries

- OS/2 SWChoice & Fixpacks

- OS/2 Device Driver updates

- Other interesting stuff
OS/2 2002 Deliverables

- IBM Web Browser for OS/2 1.1
- IBM Web Browser for OS/2 1.2
- Java 1.3.1 Plug-In for IWB for OS/2
- Java Netscape for OS/2
- IBM HTTP Server for OS/2 1.3.20
- Java 1.3.1
- Java 1.3.1 Web Start for OS/2
- TCP/IP 4.3.2 Client & Server
- Primary Logon Client for Windows XP
- Java 1.3.1 XML Parser for OS/2
- CD ROM Feature Rollup for OS/2
- IBM Web Browser for OS/2 2.0
- IBM Web Browser for OS/2 1.1
- IBM Web Browser for OS/2 1.2
- Java 1.3.1 Plug-In for IWB for OS/2
- Java Netscape for OS/2
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- Java 1.3.1 XML Parser for OS/2
- CD ROM Feature Rollup for OS/2
- IBM Web Browser for OS/2 2.0

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OS/2 Base Fixpacks

* Released as controlled for Service Extension Customers only!
MPTS Fixpack WR_8706

- **WR_8706 major fixes (see WR08706.INF for full list)**
  - IBMTOKCS works again (incl. LAA)
  - TRAP000E WHEN EXITING PPP OR INJOY DIALER
  - Killing a rpc-client while waiting for server-response, results in a sys3175 in rpc32dll.dll.
  - TRAP 0008 OCCURS WHEN ATTEMPTING TO RUN AN APPLICATION THAT RESIDES ON A REMOTE SERVER, AND CONNECTION PROTOCOL IS TCPBEUI
  - USING 1GIG ETHERNET ADAPTER AND IS TRYING TO ACHIEVE AN MTU SIZE OF 9000.
  - SOCKSIFIED DHCP CLIENT TAKES MORE TIME TO GET IP ADDRESS OR TRAPS
  - WEBSERVER STOPS ACCEPTING TCP/IP CONNECTIONS AFTER ABOUT 1.5 MILLION TRANSACTIONS WHICH RESULTS IN TIMEOUTS AT CLIENTS
  - DHCP CLIENT NOT RELEASING THE ADDRESS FROM DHCPMON.
  - USING DHCP CLIENT, AND WHEN THE DHCP ADDRESS EXPIRES SYSTEM TRAPS WITH A TRAP000E IN AFINETK.SYS
TCP/IP Fixpack UN_2206

- UN_2206 major fixes (see UN02206.INF for full list)
  - SYS3175 on IPFORMAT -x
  - FTPD denied requests
  - Problems with Windows Clients connecting to FTPD
  - Password in clear text in FTPD logfile
  - changed LPR printing timeouts to speed up
  - Telnet codepage problems
  - LPRPORTD hungs in misc. circumstances
  - Fixed connection problems with multihomed FTPD
  - Misc problems with NFS connections to non-OS/2 hosts
  - NFSD failed on creating > 64k entries in directory

- FTP, FTPD & FTPPM refresh (post UN2206)
  - supports files >2GB
Agenda

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- Other interesting stuff
Device Driver Web Pages

http://service.software.ibm.com/os2ddpak

Shipped Base Device Support

- PCI Serial Combo Card Support
- PCI Parallel Combo Card Support
- USB 2.0 Enhanced Host Controller Interface (EHCI) Support
- USB Memory Key Support
- UDF File System Version 2.0/2.01 Support
- ICH4 and ICH4M IDE Support
- PCCard 5.0 Updates for Thinkpad T2x and T30
- Gigabit Fiber Ethernet Adapter Support
- Gigabit Copper Ethernet Adapter Support
Shipped Base Device Support

- Universal Audio Support (ALSA based)
- Infrared Support for Thinkpad T2x and T30
- Thinkpad T30 Trackpad Support
- Single Mouse Support (Standard/Scroll/TrackPad/TrackPoint)
- TCP/IP Printer Support
- Yamaha YMF754 Audio Support
- Creative Labs Ensoniq CT5880 PCI Audio Support
- SCSI Geometry Filter
Shipped Video Support

✓ SciTech GM9
  • ATI Radeon Mobility M6
  • ATI Radeon
  • ATI Radeon LE
  • ATI Radeon VE
  • ATI Radeon Mobility M7
  • ATI Radeon 7500
  • ATI Radeon 8500

✓ SciTech GM10
  • Matrox G-550
  • NVidia GeForce3
  • Trident Blade3D for VIA 8601

✓ Scitech GM11
  • ATI Radeon 8500DV
  • Intel 845
  • NVIDIA GeForce2 Integrated GPU
  • NVIDIA GeForce2 Ti
  • NVIDIA GeForce2 MX 100/200 (separated from MX 400)
  • NVIDIA GeForce4 MX 420
  • NVIDIA GeForce4 MX 440/460
  • NVIDIA GeForce4 Ti
  • S3 ProSavage (VIA PM133)
  • S3 ProSavage (VIA KM133)
Shipped Print Support

Printer Pak 20

✔ Omni
  ▪ Canon S600

✔ Laserjet
  ▪ Brother
    ▪ HL-1440, HL-2460
  ▪ Kyocera
    ▪ FS-1010, FS-1050
  ▪ Lexmark
    ▪ C750, C910, E322

✔ Postscript
  ▪ Kyocera
    ▪ FS-10, FS-1050, FS-1800+, FS-1900, FS-6750, FS-9100DN, FS-9500DN
  ▪ Lexmark
    ▪ C750, C910, E322
  ▪ Oki
    ▪ C7200, C7400, C9200, C9400, Oki Okipage 14i, Okipage 8C/8C plus
  ▪ Xerox Phaser 5400
Shipped Print Support

Printer Pak 21

✓ Omni
  ■ Canon Bubble Jet
    ■ S100, S300, S500, S630, S6300
  ■ HP DeskJet
    ■ 920, 930, 935, 940, 950, 960, 980, 995

✓ Laserjet
  ■ Brother
    ■ HL-1850, HL-1870N
  ■ HP Business Inkjet
    ■ 2230, 2280/2280tn, w2600
  ■ HP LaserJet 4600
  ■ Kyocera
    ■ FS-8000C, FS-9100DN, FS-9500DN, KM-3530

✓ Postscript
  ■ Brother
    ■ HL-1850, HL-1870N
  ■ HP Business Inkjet
    ■ 2280/2280tn, w2600
  ■ HP LaserJet 4600
  ■ Kyocera KM-3530
  ■ Minolta/QMS
    ■ Magicolor 2210, 3100, 6110
  ■ Xerox
    ■ Phaser 6200B, 6200DP, 6200DX 6200N
    ■ Phaser 8200B, 8200DP, 8200DX 8200N
Shipped Print Support

Printer Pak 22

✓ Omni
- Canon
  - S520, S750, S820D, S900, S9000
- HP Business InkJet
  - 2230, 2280
- OKI
  - OkiPos 425D, 425S
- Epson Stylus
  - C60, C70, C80

✓ LaserJet
- HP
  - LaserJet 2500c, 5500c
- OKI
  - C7200, C7400, C9200, C9400
  - Okipage 14i, 14ex, 24, 24dx, 8p+
- Xerox
  - Phaser 5400

✓ Postscript
- HP LaserJet
  - 2500c, 5500c
- Xerox
  - Phaser 4400B, 4400DT, 4400DX, 4400N
Future Drivers and Support

★ Compatibility Test Select Mobile, Desktop, and Server Systems
★ Selected Support for:
  ★ Storage Devices
  ★ USB Devices
  ★ Printer Devices for Leading Manufacturers
  ★ Video Chipsets for Leading Graphics Manufacturers
  ★ Network Interface Adapters
  ★ AC ’97 Audio CODECs

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Support through Generic Drivers

- **IBM SDD/se or SciTech Display Doctor / SNAP 2.0**
  - currently > 200 Chips
    - latest is I845G (SDD/se 7.10)
  - open to discuss additional drivers

- **"Universal Audio Driver" (released this week)**
  - initial drop supports:
    - Sound Blaster Live!
    - Cirrus Logic CS4281 (X2x)
    - Avance Logic ALS4000
    - C-Media CMI8738
    - Intel ICH (T2x & T3x)
We are planning to continue OS/2 print device driver support for commercial printers during the year.

This will include a range of PostScript, PCL (Laserjet), and Omni drivers for the new and popular printers supported by the major printer manufacturers.

We will continue our current plan to release updates for our OS/2 print drivers to the on-line OS/2 DDPak.

Additionally we will entertain requests for specific printer support, beyond the normal printer support of low and middle-end printers, on a fee basis.
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- Other interesting stuff
OS/2 LanAPIs

- .... were incorporated into the OS/2 Toolkit before they were removed from the LAN part of the product.

- The LAN headers and library files are included in the OS/2 Toolkit that's on the Convenience Pak Installation CD (for both version 1 and 2). They are available under the category Headers and Libraries. The header files are in the subcategory IBM Peer Services Headers, and the library files are included in the Libraries subcategory. The library files are the net*.lib and the upm*.lib files.

- They are not separated out from the base libraries now.
SmartSuite for OS/2

"Our Development Team will continue to provide quality improvements to SmartSuite 9.7 for Windows and 1.7 for OS/2, while preserving the functionality and user interface as they exist in the current releases. We are currently planning 2002 updates to SmartSuite and we look forward to delivering high quality products in 2002 and beyond."

(Powell Smith, SmartSuite Product Manager)

- SmartSuite 1.7.1 release in 11/2002
- 1-2-3 opens and saves Microsoft Excel 2000 and Excel XP files.
- Word Pro opens and saves Microsoft Word 2000 and Word XP files.
- Over 30 customer-related issues fixed.
- SmartSuite base level will remain 1.7x with update fixpacks released based on demand.
IBM Global Services Germany and Siemens AG are now working jointly together on biometric access integration into OS/2 operating systems.

In a first step Siemens biometric division realized a connectivity for their ID-Mouse with OS/2. Using this solution, Login to OS/2 systems and related applications will change from Name/Password or personal access Code (PINs) to easy finger tip.

Flexible integration to existing environment is possible.