


highlights 

- pa-8700 processors -
  - increase performance
  - A/N class only
- new storage -
  - native fibre channel
  - hp SureStore disk arrays: XP48, XP128, XP1024, XP512
- mpe/ix release 7.5 -
  - interex SIB enhancements
  - more bundled

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PA 8700 processor

- performance:
  - 100% improvement in low-end (A class)
    - 4.8 – 11 performance units
  - 60-100% improvement at mid-end (N class)
    - 15 – 65 performance units
  - 35% improvement at high-end (N class)
    - 79 – 100 performance units
  
- free hardware conversion kit:
  - A class → rp24xx
  - N class → N4000 or rp7400

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- Secure Web Console integrated on core I/O--saves added hardware costs--on A-Class frees up I/O slot in addition; simplifies setup and reduces maintenance costs, resulting in a lower cost of ownership

storage

- native 2Gb fibre channel adaptor i/o card
- hp SureStore xp 128 / xp 1024 (high-end)
- hp SureStore virtual array 7110 (mid-end)
- FC 8/16 Brocade 1Gb/2Gb switches
- ultra 160 SCSI cards
- hp SureStore tape array 5300
- hp SureStore disk system (DS2300)
- cluster/iX supported, now with "heartbeat" feature
- HAFO not yet released

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- Native fibre channel eliminates the need for the HP SCSI-FC router, reducing the cost to customers who are deploying fibre channel based storage solutions. Native 2GB Fibre Channel Adapter supports VA7100 and XP48/XP512 and XP128/XP1024. This adapter card provides the ability to connect a fibre channel device directly to the HP e3000 system using fibre channel cables. Prior to MPE/iX 7.5, HP e3000 systems supported connectivity to Fibre Channel devices through the HP SCSI-Fibre Channel Router, which was connected to a PCI-SCSI adapter card. The router will continue to be available for those customers who choose to remain on MPE/iX 7.0 or MPE/iX 6.5.
- Support for mid-range disk array VA7100; provides array technology at mid-range prices; replaces Autoraid 12h 7110 not yet officially announced, but expected "real soon".
- HP Surestore Tape Array 5300. The HP Surestore Tape Array 5300 is a 3U rack enclosure that will hold a variety of full-height and half-height tape drives (DDS3, DDS4 and DLT8000), providing a truly flexible storage solution for use in a variety of different data storage situations. This device is also supported on MPE/iX 7.0 Express 1.
- HP Surestore Disk System 2300 (DS2300). The HP DS2300 is a 3U, 14-LP-disk, Ultra160 enclosure. Redundant hot-swappable components ensure system uptime. Mixed disk environment support, flexible deployment options, and upgradability to Ultra320 protect your investment. This device is also supported on MPE/iX 7.0 Express 1
- New FC 8B/16B 1Gb/2Gb switches for creating the core SAN infrastructure. Benefits: lower cost, higher performance over older switches. Supported on MPE/iX 7.0 Exp 1.
- Cluster/iX is an add-on product – not part of FOS. Cluster/iX "heartbeat" feature helps to automate scripts. If you already have Cluster/iX call HP to get the latest version of the product.
- Native FC HAFO not yet released, but expected to be ready Summer '03.

mpe/ix release 7.5

- interex SIB requests completed:
  - LDEV-1 disk space utilized beyond 1<sup>st</sup> 4 Gb
  - sendmail bundled in FOS and supported
  - UPS monitor can invoke a script on powerfail
  - new :SHUTDOWN CI command with RESTART option
- WebWise bundled in FOS and supported
- IMAGE support of native large files
- increase in the number of open files/sockets per process

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- Release timelines:

Mar 2001:	7.0 base release
Sep 2001:	7.0 Express 1
Jan 2002:	6.5 PowerPatch 3
Sep 2002:	7.5 base release

- PLFD expansion allows 4096 (up from 1024) files or sockets to be opened per process. Out of a max of 4096, subtract 9 for the reserved systems files (\$stdin, \$stdlist, temp, directory, etc.), and subtract one more for each library that a process links to.
- Other expansions in 7.5 include:
  - Min thread stack size is 393,216 (vs. 131,072 in 7.0)
  - Max thread stack size is 4,194,304 (vs. 1,048,576 in 7.0)
  - VS b-tree entries now 21,620 (vs. 5,405 in 7.0). Implies a limit of 691,840 open objects on a 7.5 system

