



EPAC'06 Computing

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Needs Lots of Computer Hardware

- 53 PCs (15 proceedings, 29 café, 4 registration, 5 paper reception)
- 50 19" PC Monitors (15 could rotate portrait<->landscape)
- 3 15" PC monitors
- 3 Macintosh G5 (1 proceedings, 1 café, 1 spare)
- 4 large printers (2 proceedings, 1 café, 1 spare)
- 1 small printer/scanner/photocopier (registration)
- 2 local file/print servers (main, backup)
- Printer ink and spare maintenance kit
- Network switches, CAT-5 ethernet cable, electric extension leads, cable covers
- 2 laptops and 15 metre VGA cables (Speaker presentation)

Presentation Laptops and MACs hired; all other equipment loaned by CCLRC ISIS facility, Rutherford Appleton Lab

PC Specification

35 PC's had Mini Tower cases (Café), 15 Small Form Factor (Proceedings).

- Intel P4 (3GHz, 800 MHz FSB, 2MB L2 cache)
 - 1GB Memory, 160GB SATA hard drive
 - 19" Monitor (15 able to rotate portrait/landscape)
 - DVD +/-RW Drive
 - USB connectors (2 front, 5 or 8 back)
 - No floppy disk drive
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Local File / Print Server

- Provide network file storage for editors and print queues for all
 - 2.4 GHz Intel Xeon, 1GB memory
 - RAID 5 disk array, UPS
 - Backed up to USB disk and second server
 - Restricted access to proceedings office network shares and print queues
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Main Printers

- 4 Xerox Phaser 8500/ADN duplex colour printers
 - 2 in proceedings, 1 café, 1 spare
- Restricted access to proceeding printer
- Café printer also shared via wireless

External Network

- Need fast, reliable network link for paper download/upload
 - Leased 20 Mbit line into conference centre
 - Also separate 5Mbit line for wireless
 - EICC had additional network providers + ADSL lines for emergency use (network outage)
 - 100 Mbit room-to-room links within EICC
 - Private network (NAT routed)
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Local Network

- Arranged in Workgroup
 - One café and one editor user account
- Central file server and network share
 - Editors saved work to central area
 - No local PC backups

Software

- Windows XP Professional (SP2) with firewall enabled
- Internet Explorer 6
- Secure FTP 2.5
- Secure CRT 5.1
- Windows Defender
- Adobe Acrobat 7
- GSView 4.7
- Ghostscript 8.51
- Mozilla Firefox 1.5.0.4
- Adobe Acrobat Distiller 7
- Coffee Cup Free FTP
- Enfocus PitStop pro 6.53
- jEdit 4.2
- MikTeX + JacCOW style files
- Openoffice 2.0
- RealVNC 4
- WinEdt 5.4
- Sophos antivirus
- Microsoft Office 2003 (Word, Excel, Access)
- Hummingbird Exceed 10

The WinEDT licences were purchased by EPAC, Adobe Acrobat and Enfocus PitStop by JACoW and the others courtesy of CCLRC

Installation and testing

- Cloned master computers (Symantec Ghost, Microsoft sysprep)
 - Assembled a Mini café and proceedings office with central server and printers attached
 - Tested via Remote desktop from CERN
 - Also checked for simultaneous licence conflicts (e.g. with Enfocus PitStop)
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Internet Café Setup

- Only space for 34 user stations
 - 29 had a PC, 5 just network (for laptops)
 - One Xerox 8500/ADN printer
 - Additional chairs
 - “UK visitor” power adaptors
 - Single unprivileged user account
 - PC’s had subset of editor software
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Extras to Bring

- Spares essentials
 - backup file/print server needed at EPAC06
- Portable UPS and USB external hard drives
- Adjustable chairs for editors
- PAT (electrical safety) testing
 - Your conference centre may required it

Paper Upload server

- Remotely accessed for paper upload/download by editors and delegates
 - Must be highly reliable
 - Used Redhat Enterprise Cluster
 - 3 nodes, shared GFS iSCSI storage
 - UPS and networked backup facilities
 - ~12GB data / 10000 files
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More Information

- “Computing Hardware and Software at EPAC06” document
- Contact me (F.A.Akeroyd@rl.ac.uk)

Acknowledgements

- Alan Grace (EICC)
 - Hywel Owen (ASTEC)
 - John Thomason (CCLRC)
 - Michael Carter (LANL)
 - Nick Fielden (CCLRC)
 - Sharon Hauxwell (EICC)
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