

Experience with Concurrent CPU

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<http://www.hep.ph.qmw.ac.uk/~landon/talks>

QMW Configuration

- Concurrent Technologies VP PSE/P34: 850MHz, 256Mb (cost about £2500 + VAT, delivery 6 weeks)
- Linux RedHat 6.2 plus installation workarounds and graphics fix (from Concurrent via Jürgen)

Software

- Both Hannappel and VMELinux.org drivers work...
- ...need reconfiguration and reboot to swap between them
- Both now incorporated into HDMC:
<http://www.hep.ph.qmw.ac.uk/~landon/l1soft/vme>
- Hannappel allows memory mapped access, but bus errors are not reported
- VMELinux reports bus errors but doesn't implement memory mapped access. Only one process at a time :-)
- I think CERN use Hannappel driver on their VMICs?
- Concurrent intend to provide their own driver...
- ...at the moment they provide a patched version of the VMELinux driver to permit hardware byte swapping

To do...

- Test hardware byte swapping; network booting
- Order 3 more for UK