

A Flexible DAQ System on Real Time Linux

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Nov. 15, 1999, IHEP, Beijing

Commercial Real Time VME Operating System

- VMEexec: The major RT-OS of BES online, but it stop developing since 90s .
- OS9: Generally, it was used in slow control .The developing environment and GUI are not friendly.
- VxWorks: The most popular RT-OS in the experiment of High Energy Physics, but it's expensive.

RT-Linux +PCI-VME

- Real time Linux
- PCI-VME Adapter: SBS-Bit3, Model 616,617,618,620 etc.

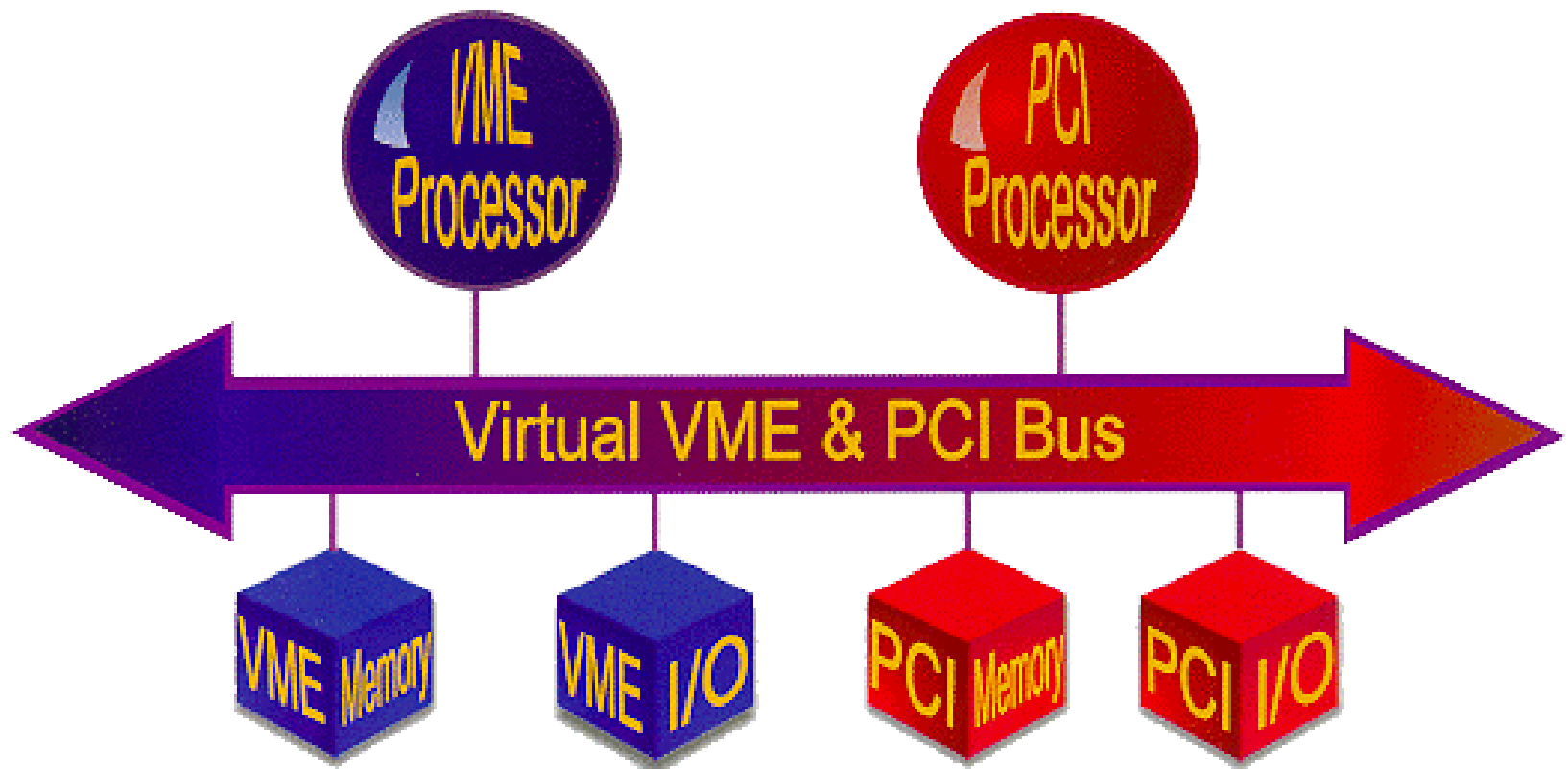
See

<http://www.sbs-bit3.com>

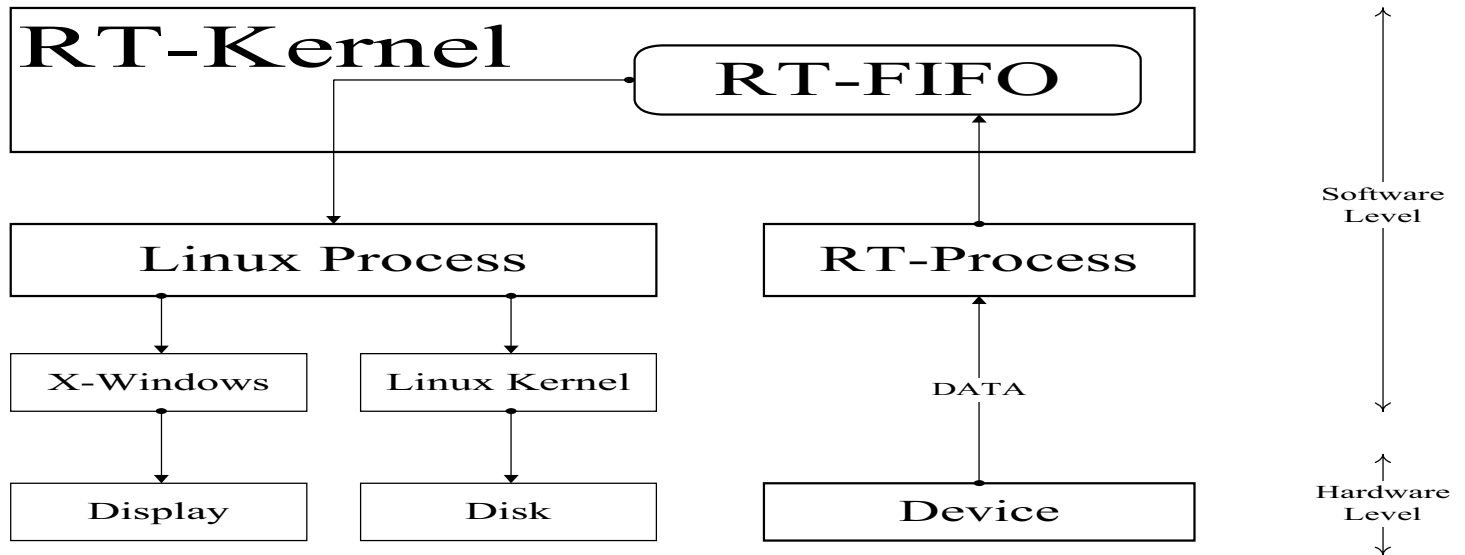
for detail information of these adapters.

- KEK, CEBAF, CERN

PCI-VME connectivity

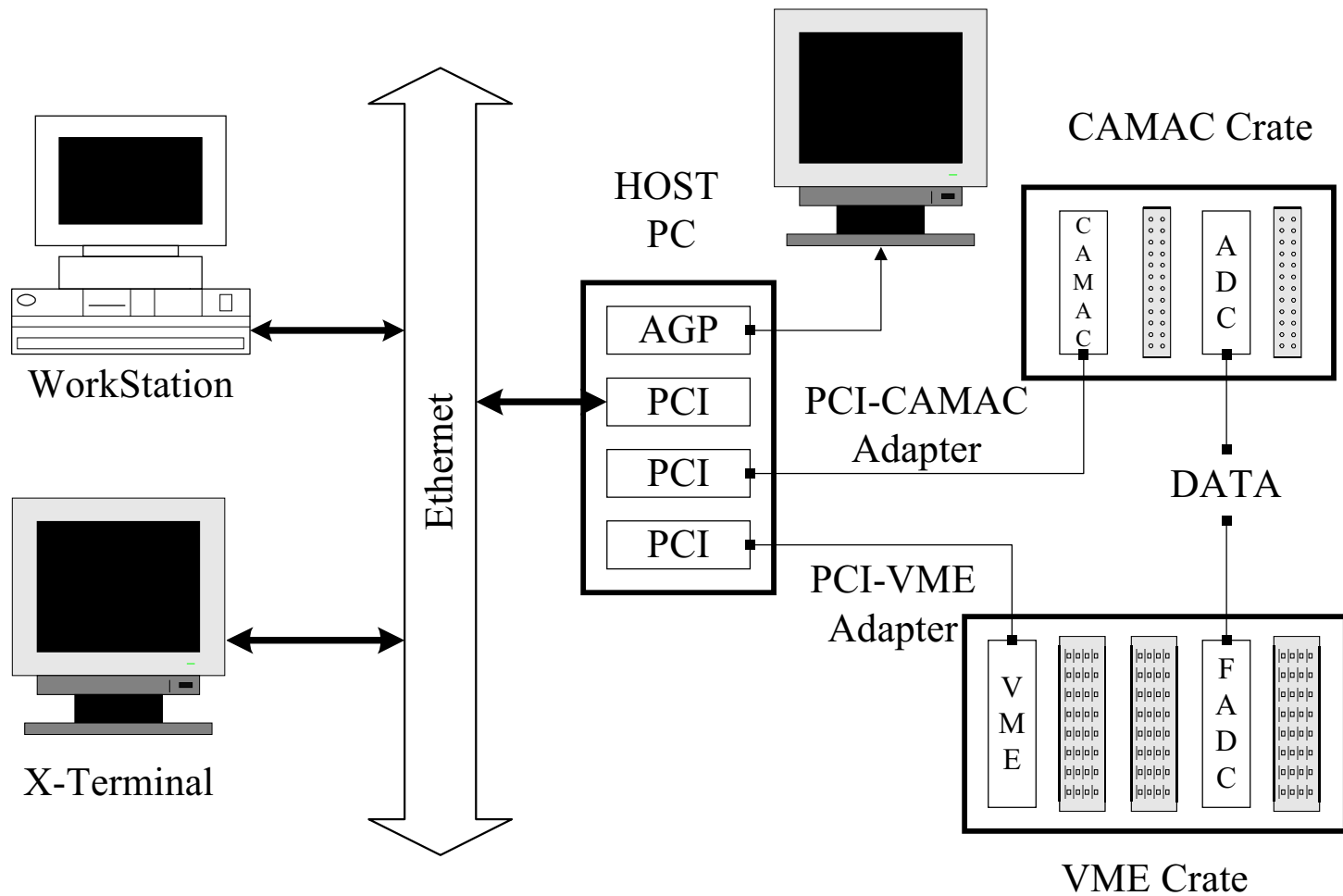


Real Time Linux



Linux Offers

- X-Windows, TCL/TK, Forms Library, Mesa(OpenGL) , root etc
- Networking
- Compilers(C, C++, Fortran)
- GNU utilities
- Database and Web servers
- Great Support and source code
- Rapid development and big user base



System Configuration