

SLS Controls Computing Infrastructure

SLS File Server

The File Server (at present a SPARC10 with two Ethernet connections - one on the general network pss060.psi.ch and another on the controls network sls060.sls.psi.ch) will only provide file services. No applications or development tools will be installed or supported. User login will not be possible to this machine. The following file structure will be exported from the file server:

- Export
 - Home
 - pss060
 - sls
 - hunt
 - dohan
 - rivkin
 -
 - pss121
 - Soft
 - DOME2-3
 - beta
 - epics
 - frame
 - gnu
 - gnu_solaris
 - imap-4.1.BETA
 - linux
 - bin
 - epics_wish
 - ca_repeater
 - lib
 - libca.so
 - libepics.so
 - libcdev.so
 - libtcl.so
 - libtk.so
 - libBLT.so
 - ...
 - rh-5.0

- p3
- reflection4
- taco
- tracy
- wind
- boot
 - vxworks
 - Crate1
 - Crate2
 - Crate3
- tools
 - linux
 - nt
 - solaris

Console Computers

Console computers will have only the required software installed to operate the machine. This will include the following packages:

- Java/JclassChart
- Tcl/Tk/TclX/BLT
- JDM/JAM
- Oracle Client (JDBC ?)
- vi/rcs/.....
- PvWave
- PAW ?
- Telnet/FTP/mail-client/News

These standard packages will be locally installed in the normal locations, on each machine. SLS maintained applications and libraries (such as Epics libraries and applications), will be located on the file server and accessed in the following manner:

- (Linux) A copy all files in 060:/export/soft/linux/lib in /usr/local/lib
- (Linux) A copy all files in 060:/export/soft/linux/bin in /usr/local/bin
- (NT) mount pss060://export/soft/NT to G:\

Local access to console computers will not require a login/password. Access to other services will therefore require remote access to other, typically development or general purpose machines.

Development Computers

In addition to all software that is installed on the Console computers, development computers will have C++, and Java development tools, as well as full EPICS installations needed to

develop and test applications. Users will log into the development computers using their own login ID's. No shared logins will be allowed.

Central Computers (pss100 ?)

Packages used infrequently, by a small number of specialists, or those not supported by the controls group will be located and run from the PSI central computers. These will typically be design codes, or off-line data analysis packages. This class of program includes:

- MAD
- Tracey
- ANSYS

Users home directories will be (auto)mounted from the SLS file server when they login to a central computer. This will reduce the large amounts of data that would otherwise have to be duplicated on both the SLS file server and the central computers, and also often copied.

Real-Time Computers

Each vxWorks crate will have a directory on the file-server which will contain all boot, configuration and application files required by that crate. This will reside on the file server in directory: "pss060:/export/boot/vxworks/crate.name" but will be downloaded to a directory on each local console from which the vxWorks crates will be booted.