Subject: EPICS Test Installation
Posted by Brand on Mon, 07 Jun 2004 11:40:30 GMT

Hello,

IŽd like to present my planned roadmap to provide an EPICS test installation at GSI.
Refer to the EPICS Homepage, http://www.aps.anl.gov/epics/index.php for details information about EPICS.

Download of software
Download of software to the GSI Linux Cluster and unzip.
Build for targets and create a IOC demo application

vxWorks
I have an ELTEC e7 available in a VME crate in out lab to run the IOC with vxWorks.
The combination of vxWorks on ELTEC e7 is used in the HDAES experiment. There are a lot of application running. Refer to http://www-hades.gsi.de/scs for details.
Linux
We could use our Linux group server to run an IOC with Linux.
Windows
We could use our Lab-PC to run an IOC with Windows.
RTEMS
We have to select a supported board to start with RTEMS. Later we would try to run it on ELTEC e7, too.

Create coresponding host applications

Graphical User interface

Motif Editor and Display Manager, MEDM
Exeed, a commercial Motif library, is needed to used MEDM also with Windows.
LabVIEW
The LabVIEW Shared Memory Interface to EPICS IOC is recommened, since the ActiveX Interface is depricated.

Alarm Handler, ADT, ALH
Archiver, AR
Buckup and Restore, BURT
IOC Database Management Tools
Orcale DB Interface

This test installation could then later be used as starting point for real experiment controls.

Regards Holger