psi46 Software Status



Jose Lazo-Flores







psi46 Software: Status

N

- Unified software package now public
 - Platform independent
 - Works on SL4,5,6, Ubuntu, OS X and other linux distributions
- Available at CERN svn
 - Read access to all CERN users
 - svn co <u>svn+ssh://svn.cern.ch/reps/psi46expert/trunk</u> psi46expert
 - Use <u>username@svn.cern.ch</u> if your CERN username differs from your local one
 - Write access will only be granted to developers
 - Let me know if you need write access
- Hypernews email list for software related topics
 - Subscribe to "Pixel psi46 Testboard" under the "Pixel Detector" category
 - If you do not have HN account, go to
 - https://hypernews.cern.ch/HyperNews/CMS/add-member.pl



psi46 Software: Compilation

- Compilation now easier than before
 - Included script checks for dependencies and makes configuration file
- Compilation needs the following packages:
 - D2xx drivers and USB libraries
 - ROOT -- use the latest stable release, go to:
 - http://root.cern.ch/drupal/content/downloading-root
 - ROOT compilation should be comparable to your architecture
 - You do not need to compile it locally
 - Install the compiled libraries and executables for your platform
 - Go to trunk/ directory and execute autogen.sh script to construct the configuration script -- ./autogen.sh
- Run the configuration script and compile
 - ./configure
 - make
- Optional: install executables centrally
 - make install (needs root access)



psi46 Software: Issues



- This version needs to be stress tested
 - We have tested some functionality but not all
 - Check all programs within psi46expert
 - Pretest, Fulltest, pixelMap, Dac-dac, SCurve, etc...
 - Run takeData with and without external trigger input
 - psi46hvOn, psi46hvRead and psi46hvOff only work with keithley 2400 series power supplies
- Works with module, single ROC and plaquettes
 - Template configuration files included for all three setups
 - Look in data/
 - Let me know if these setting do not work
- Report all bugs to the HN emailing list
 - Objective is to get help from all of the users
- Please help to document the software
 - One you learn how a function works, write it down and post it on HN
 - We want to compile a psi46 software document