

# 06-08 Dec2011 General Lab Information

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EPICS asyn and areaDetector Class and Labs: Dec. 6, 7, and 8 2011

The labs will be run on lcls-dev1 linux server.  
Each user shall have a bash login with appropriate unix file permissions.

So, first log into lcls-dev1  
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After obtaining a bash shell, you must source the following file and export a few ENV variables for java:  
source /afs/slac/g/cd/swe/rhel5/tools/script/ENVS\_swe.bash  
export JAVAVER=1.7.0\_01  
export JAVA\_HOME=/afs/slac/g/cd/swe/rhel5/package/java/jdk1.7.0\_01  
export ASYN\_CLASS=/afs/slac/g/cd/swe/rhel5/epics/Training/asynClass  
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Now, you should be ready.

During this class there will be 3 labs.  
The Lab will have 4 groups with two people in each group.  
Lab 1: asynPortDriver for Tektronix Scope Lab 2: areaDetector Simulation Lab 3: GigE Camera with areaDetector

cd \$ASYN\_CLASS  
Enter your group and begin your work.

Group5 is reserved for Lab TAs and serves as a reference.  
You are also allowed to use it as your reference.

Within each Group there are two IOC application tops.  
One of the Application Tops will be used for the Tektronix scope lab exercise. The other application top will be used for the areaDetector labs 2 and 3

- ◦ ApplicationTop 1 = ScopeTestX, where X is the Group No.
- ◦ ApplicationTop 2 = areaDetTestX, where X is the Group No.  
Note that the 2nd application top will consist of two applications each with its own IOC. The first application will be used for the areaDetector simulator. The second application will be used for a real hardware detector (i.e. prosilica GigE Camera)

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# The Tektronix TDS 3000 Series Scopes assignment follows:

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scop-b34-cd01: 134.79.218.46 ==> Group1  
scop-b34-cd02: 134.79.218.47 ==> Group2  
scop-b34-cd03: 134.79.218.48 ==> Group3  
scop-b34-cd04: 134.79.218.49 ==> Group4  
# =====

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# The Prosilica Camera assignment follows:

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camr-b34-ls01: 134.79.218.51 ==> Group1  
camr-b34-ls02: 134.79.218.52 ==> Group2  
camr-b34-ls03: 134.79.218.55 ==> Group3  
camr-b34-ls04: 134.79.218.56 ==> Group4  
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Note: For any questions please ask the Lab TAs and/or Instructor.

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