Setting UP Open XAL

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Configuration Items

- Software Prerequisites
- Application Documents and Persistent Logging
- Default Accelerator
- EPICS Channel Access
- Database
Software Prerequisites

- Java JDK 7 (soon Java JDK 8)
- Apache Ant 1.9
- JRuby 1.7
- Jython 2.7
Get and Build Open XAL

> git clone https://YourID@git.code.sf.net/p/xaldev/openxal
> cd openxal
> ant
Documents Directory

- Directory containing all Open XAL documents
- Subdirectory for each application
Setting Documents Directory

1. Launch any document based application
2. Press the “Documents…” button on file browser
3. Select “New Document”
4. File -> Open
5. Press “Default Folder” and answer “Yes”
6. Select the directory to be the Documents Directory
7. Press “Make Default”
Persistent Logging

• Standard Output and Standard Error are logged under root: ~/.xal/logs
• Logs organized by year and application name
Enable Persistent Logging

> java -Dxal.admin=true -jar demo.jar

- Launch Application
- Select View -> Console
- Check box to enable persistent logging
Set Default Accelerator

1. Launch and accelerator based application
2. Press “New Empty”
3. Press “Use Default Accelerator”
4. Press “Browse” and navigate to optics file (e.g. main.xal)
5. Press “Make Default” and “Close”
Copy JCALibrary.properties file to ~/.JCALibrary/
EPICS Channel Access
Native Channel Access

• Download and Build EPICS
• Build and Install jca JNI library
• Set Java Preference for xal.plugin.jca:
  ➡ Context = gov.aps.jca.jni.ThreadSafeContext
Database Configuration

1. Install appropriate database plugin
2. Create dbconfig file
3. Launch DB Browser application
4. Select “New Empty”
5. Select “Configure…”
6. Browse to dbconfig file
7. Select “Make Default”