

# Building EPICS Software

Andrew Johnson and Tim Mooney  
AES/SSG

# Outline

- Build Base 3.14.12.5
  - Architectures: Linux, VxWorks
  - Test by creating the makeBaseApp example
- Build Extensions
  - Build msi, MEDM, StripTool
- Build Support Modules
  - Sequencer, Asyn
- Build synapps 5.8
- Build xxx as separate top



# Base 3.14.12.5

- Actually Base 3.14.12.5-rc1 since the final release is not yet out
- Website: <http://www.aps.anl.gov/epics/base/R3-14/12.php>
- Download: <http://www.aps.anl.gov/epics/download/base/baseR3.14.12.5-rc1.tar.gz>
- Prerequisites: GNU Make, Perl, C and C++ compilers (GCC)
  - Many Linux distributions install these by default or as a single
  - Optional: GNU readline developer package, recommended
    - RPM: readline-devel DEB: libreadline-dev



# Extensions

## ■ Extensions Configure files (R3.14)

- Website: <http://www.aps.anl.gov/epics/extensions/configure/index.php>
- Download:  
[http://www.aps.anl.gov/epics/download/extensions/extensionsTop\\_20120904.tar.gz](http://www.aps.anl.gov/epics/download/extensions/extensionsTop_20120904.tar.gz)
- Prerequisites: EPICS Base

## ■ MSI – Macro Substitution and Include

- Website: <http://www.aps.anl.gov/epics/extensions/msi/index.php>
- Download: <http://www.aps.anl.gov/epics/download/extensions/msi1-6.tar.gz>
- Prerequisites: Extensions Configure



# Extensions: Motif Clients

## ■ MEDM

- Website: <http://www.aps.anl.gov/epics/extensions/medm/index.php>
- Download: [http://www.aps.anl.gov/epics/download/extensions/medm3\\_1\\_9.tar.gz](http://www.aps.anl.gov/epics/download/extensions/medm3_1_9.tar.gz)
- Prerequisites: Developer packages for OpenMotif, libXmu, libXp, libXpm, libXext, libX11
  - DEB: libmotif-dev, x11proto-print-dev, libxmu-dev, libxp-dev, libxpm-dev, xfonts-100dpi
  - RPM: libXmu-devel, libXp-devel, libXpm-devel, libXt-devel, ...

## ■ StripTool

- Website: <http://www.aps.anl.gov/epics/extensions/StripTool/index.php>
- Download: [http://www.aps.anl.gov/epics/download/extensions/StripTool2\\_5\\_16\\_0.tar.gz](http://www.aps.anl.gov/epics/download/extensions/StripTool2_5_16_0.tar.gz)
- Prerequisites: As MEDM



# Stand-Alone Modules

## ■ Sequencer (Version 2.1.x)

- Website: <http://www-csr.bessy.de/control/SoftDist/sequencer-2-1/index.html>
- Download: <http://www-csr.bessy.de/control/SoftDist/sequencer/releases/seq-2.1.18.tar.gz>
- Prerequisites: re2c, EPICS Base

## ■ Asyn

- Website: <http://www.aps.anl.gov/epics/modules/soft/asyn/index.html>
- Download: <http://www.aps.anl.gov/epics/download/modules/asyn4-26.tar.gz>
- Prerequisites: EPICS Base
- Optional: libusb, EPICS Ipac



# Synapps 5.7

- Contains copies of the Sequencer, Asyn, Ipac etc.
- Website: <http://www.aps.anl.gov/bcda/synApps/index.php>
- Download: [http://www.aps.anl.gov/bcda/synApps/tar/synApps\\_5\\_7.tar.gz](http://www.aps.anl.gov/bcda/synApps/tar/synApps_5_7.tar.gz)
- Prerequisites: EPICS Base, MSI, re2c

