DAWB Architecture for Design of Experiments
Currently being tested for mxv2, id14-4 and plans for testing on other beamlines.

Client, \( n \)  Workbench Layer
(\( n \) is small)

User Interface  (based on rich client platform)

Using JMX

Work Flow Engine  (based on Ptolemy II)

Hardware Monitoring  Hardware Work Flow  Image Monitoring  Data Analysis Work Flow

Tango, \( m \),
(usually 1)

Hardware Layer, \( x \)-devices
where \( x \) is large

Data Acquisition
- Spec Motors and Macros
- Taco Devices
- (Hardware Repository?)
- Detectors

Images to disk

Data Analysis
- Edna plugins
- Workbench actors
- External codes (where not edna)
  C / Fortran / etc.
- Python numpy
- Other work flow actors,
  KNIME and Kepler etc

“ Able to drive analysis and complete logic to design experiments which can be run automatically or with user interaction”

Current design for linking data analysis and acquisition in a user or beamline scientist configurable way.