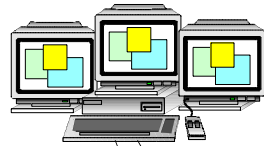


- | | |
|--------------------------------|--|
| • LANL | LEDA, LANSCE*, AFEL |
| • ANL | APS, 25 of 37 beamlines, IPNS |
| • JLAB | CEBAF, FEL, Halls A.B.C. |
| • LBL | ALS, BaBar, Heavy ion Fusion, Gammasphere, |
| • SLAC | PEP II*, NLC** |
| • ORNL | SNS, HRIBF |
| • KEK | KEKB, PFAR, JHF** |
| • BESSY | BESSY II |
| • DESSY | Facility Control |
| • SACLAY | TTF Injector, ARC, Antares, IPHI, Compass, W7X |
| • PSI | SLS |
| • BNL | RHIC Detectors, RHIC uses cdev clients |
| • FNAL | D0 detector |
| • IHEP Beijing | Upgrade** |
| • SSRL | Light Source |
| • RIKEN | RIBF* |
| • Duke University | FEL, Mark III |
| • William Keck Observatory | KECK I, KECK II |
| • Princeton Plasma Physics Lab | NSTX |
| • Caltech | LIGO (Wa. And La.) |
| • TRIUMF | ISAC |
| • University of Saskatoon | CLS** |

*Partial control by EPICS

** Selected EPICS for future use

**EPICS Utilities
Channel Access
Clients / Servers**



Network

**EPICS CORE
Channel Access
And
Database**



**EPICS
Extensions
Drivers, Record
Support**



**Interfaces
to I/O**

- EDM – extendible motif display manager (ORNL)
- Striptool – archive data fetch, log scale (ANL/JLAB)
- ARCHIVER – data management (LANL)
- SNL – Entry/Exit Actions (KECK/SLAC)
- MEDM - new edit features (ANL)
- DM2K – sub-displays (BESSY)
- ALH – Extensions (BNL)
- Python Interface (KEK)
- Corba Interface (SLAC)
- Tcl/TK Interface (LANL)
- SAD Interface (KEK)
- JPT Plotting (IHEP)

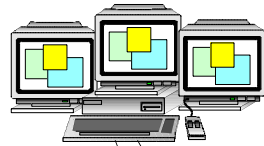
- Database Configuration (PSI)
- JAVA Display Manager (LANL)
- JAVA Interface (LANL,ANL)
- CMLOG ()
- IDL Server (LANL)

- Gateway reliability issues (BESSY)
- Port database to UNIX (ANL,KEK)
- Port EPICS core to RTEMS (CLS)
- Port channel access to multi-threaded (LANL)

- | | |
|--------------------|----------------------|
| Canbus (BESSY) | Vector (FNAL) |
| Yokogawa WE (KEK) | PID (JLAB) |
| Modbus (SLAC) | Buffer Record (DESY) |
| Modbus (LANL) | BPM, PwrSup (JLAB) |
| Industry Pac (ANL) | |

* All labs add some drivers and some record support

**EPICS Utilities
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**Interfaces
to I/O**

EDM – add features available in EDD/DM to this display manager (blink)
- provide documentation and training
ARCHIVER – network access to archive data
Client Interface – provide standard middleware for client interface

Support large arrays in channel access
Support multi-priority servers from the real time environment
Support larger names
Replace the gateway data object with a faster implementation
Time library that supports many external time sources
Online addition of new database channels
New Link support for changing addresses dynamically
Variable length string support (large strings)
Channel access diagnostics as EPICS channels

Control Logix over ethernet (LANL)