

Lamont Data System (LDS)

1987 - 2009

(aka: DAQCS & RVDAS among others)

UNOLS RVTEC
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Design Drivers

- As simple as possible
- Up 24 x 7 x 365.....
- Reliably capture & log what comes out of the devices (no missing data)
- Accurate time stamping
- Standard protocols

Implementation

- Unix-based OS
- C & Perl
- Single process per “device”
- Real-time access to data w/o risk
- Distributed (network) logging devices
- Command-line interface

History

- 📌 1987 (Conrad) Masscomp/RTU 4
- 📌 SGI/IRIX 1990 (Ewing)
- 📌 Sun/SunOS (4.1) (Ewing)
- 📌 Sun/Solaris (Ewing/Langseth)
- 📌 Linux (Palmer, Gould, Healy, SCICEX...)

New/recent

- 📌 Web cameras & SB2112 (real-time)
- 📌 (Relatively) elaborate data documentation (formats, calcs. etc.)
- 📌 Refactor metadata unmanageable MS Word file(s) to DocBook xml source w/ version control and build
- 📌 Displays

(near) Future plans

- 🔩 Integration of EM122
- 🔩 Precision timed camera image capture
- 🔩 GUI (control) wrapper (someday, maybe)
- 🔩 Enhanced automatic event logging
- 🔩 Consider “Formal” open source?

Contributors

(an incomplete list)

William J. Robinson

Dale Chayes

Dave Caplan

Rob Blaes

Stephanus Budhypramono

Dave Brock

Jeff Turmelle

Greg Vseolozhsky

Steve Roberts

Anthony Johnson

Peter Lemmond

Val Schmidt

Ethan Gold

Bob Arko

Questions?

