What problem are we trying to solve?

We support users in the scientific community, but we are finding it increasingly difficult to provide good quality support for aging legacy systems.

Collaboration

LROSE is an Open Source project. Cost reduction and efficiency will be achieved through collaboration with other organizations.

What is LROSE?

LROSE is an NSF-backed project to develop common software for the UNIDATA, RADIAR, and PROFILER communities.

Supporting legacy applications: solo3

Native 64-bit compatible

VHDL code, ported to level languages

Will read/write CfRadial natively

Core suite displays

View and edit grid data

Upgrade to Com. Bug fixes

Initial development

Prototypeing

Modern profiler plotting package

Open source in Python

Data exchange formats (EOL/UNIDATA)

Files and data streams in standardized formats

Algorithms and analysis tools (Community)

Analysis, research, generating derived products

Data visualization, and editing as appropriate.

Support for profilers

Example: EMERALD – a solo-like application implemented in Matlab

Leveraging existing displays through collaboration - IDV

The UNIDATA Integrated Display Viewer is a sophisticated 0-to-100 display.

Many person-year effort has been spent on developing EMID.

Core suite algorithms

Web-enabled portable integrating displays - Jazz

Jazz is a suite of web-based display tools, and will replace the legacy IDV data integration display (see below).

LROSE would support many of the LAOF instruments

Support for high-level languages

Example: EMERALD – a solo-like application implemented in Matlab

Prototype using legacy displays - CIDD

CIDD (CARTeas) is an integrated data display tool that replaces the legacy IDV data integration display (see below).

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