Subject: Announcing GDL 0.8.4 - now with 2D data visualization (TV)

Posted by marc schellens[1] on Thu, 09 Sep 2004 06:29:22 GMT

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GDL - GNU Data Language, an IDL 6.0 compatible incremental compiler.
Version: 0.8.4

NEWS:

- Images and 2D arrays can be visualized with TV (thanks to Joel Gales)
- Basic HDF5 file support (thanks to Peter Messmer)
- several new important functions and procedures, among them HISTOGRAM,
  SORT, UNIQ and FILE_TEST

HOMEPAGE:

http://gnudatalanguage.sourceforge.net

DOWNLOAD:

http://sourceforge.net/projects/gnudatalanguage/

Gaurav Khanna provides binaries for Mac OS X on his HPC page:
http://hpc.sourceforge.net

For those who haven't heard of GDL before:
FEATURES:

Full syntax compatibility with IDL 6.0

Compiles on Linux and Mac OS X (10.2, 10.3, with g++ 3.3)

All(!) IDL language elements are supported, including:

Pointers, Objects, Structs,
Arrays, System variables,
Common blocks, Assoc variables,
All operators, All data types,
_EXRA and _REF_EXTRA keywords...

The file input output system is fully implemented
(Exception: For formatted I/O the C() sub-codes are not supported yet)

Most image file formats (jpeg, tiff, ...) are supported.

netCDF files are fully supported.
HDF (version 4) and basic HDF5 file support.

Overall more than 210 library routines are implemented (among them the
EXECUTE function). For a list enter HELP,/LIB at the command prompt.

Graphical output is partially implemented. The PLOT and TV commands
(along with WINDOW, WDELETE, SET_PLOT, WSET, TVLCT) works (important
keywords, some !P system variable tags and multi-plots are supported)
for X windows and postscript output.

A GUI (widgets) is not implemeted yet.

Check it out!

marc