Subject: Announcing GDL 0.8.10
Posted by marc schellens[1] on Sun, 10 Jul 2005 16:31:03 GMT
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GDL - GNU Data Language, the free IDL clone.
(IDL 6.0 compatible incremental compiler capable
of running programs written in IDL)
Version: 0.8.10

Due to some internal changes, the interpreter works now much faster
(4-5 times - that is the interpreter itself, most well programmed
programs
spend the vast amount of time in library subroutines or in
(array-)operations).

GDL can now be build as a python module, allowing GDL routines to be
called
from python (see INSTALL and PYTHON.txt for details). This is still in
early
beta stage.

GDL now supports strided indices (array[start:end:stride]) and compiles
with gcc 4.0

New routine (overall more than 250 subroutines are implemented):

INTERPOLATE

For a sorted list of all implemented subroutines enter HELP,/LIB at
the command prompt.

FEATURES:

FULL syntax compatibility with IDL 6.0

ALL IDL language elements are supported, including:
    _EXRA, _REF_EXTRA and _STRICT_EXTRA keywords,
    Objects, Pointers, Structs,
    Common blocks, Assoc variables,
    Arrays, System variables,
    All operators, All data types...

Compiles on Linux and Mac OS X (10.2, 10.3, and 10.4)

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 file support.
Basic HDF5 file support.
READFITS and WRITEFITS from the IDL-Astrolib are working.

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

A GUI (widgets) is not implemeted yet.

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

Check it out!

marc
