Subject: some news from GDL 0.9 pre4
Posted by Alain on Wed, 25 Apr 2007 20:53:00 GMT
View Forum Message <> Reply to Message

Sorry if duplicated message (not very easy to post to usenet in 2007).

FYI, the current GDL CVS version
 http://gnudatalanguage.cvs.sourceforge.net/gnudatalanguage/g dl/
is able to compile and run the famous MPFIT library
http://cow.physics.wisc.edu/~craigm/idl/mpfittut.html
Numerical outputs are OK.

After some tests, on x86, GDL + FFTw for arrays of size 2L^N
with N longer than 13 is faster than IDL 6.2 and 6.3 ;-)

Benchmarking for other operations is not too bad, but is significantly
plateform and GCC version dependant (x86/x86_64, gcc, ...): compared
to same IDL, one operation with last GDL can be from ~10 % to ~50%
slower.

Save/Restore work well if CMSVLIB library present. Does not included
all the options of the IDL ones, but OK for exchanging data.

Please report any trouble in Astron Lib., since the current tests run
without troubles (few x86_64 problems have been solved).

Concerning the compilation of GDL from scratch, if some basic rules
are enforced, all goes smoothly on recent Linux distros (let say less
than one year !), including Debian (Sarge and Etch), Ubuntu, Mandriva
and FC (all on x86 and x86_64). Most of mandatory libraries (readline,
libmagick++, gsl, plplot, ...) are available as debian packets. Using
relocation of libraries with --prefix, you don't need to be "root" to
do it.

The compilation from scratch is a little more complex on Mac OS X
(tgz GDL 0.9pre4 compiles on Mac OS X if plplot and headers OK)
(Intel plateform included), mostly because :
0/ you must have a up-to-date system
1/ plplot 5.6.1 doesn't compile well (5.5.3 does) on Mac OS X (see
plplot discussion list)
2/ some X11 headers/path/links may be broken (symbolic links will
solve)

A list of available intresic pro/functions in GDL 0.9pre4 is here:
 http://aramis.obspm.fr/~coulais/IDL_et_GDL/list_GDL0.9pre4.h tml
It does not means that all the features of the IDL equivalent intresic
pro/functions are available
(I hope to improve this information in next months).

Please report any bugs and crashes on this GDL CVS version.
If so, please use up-to-date softwares, provide as small as possible
examples !
(how to be up-to-date ? See, for ex. the message at Date: 2007-04-22
07:15 on
 http://sourceforge.net/tracker/index.php?func=detail&aid
=1698693&group_id=97659&atid=618686)

If pro/func are missing for you, please indicate which ones (Besel
functions (for integer orders only)
just have been added after request) and prepare to be patient ;-)

I would like to thanks the persons developping GDL because I am using
it smoothly now.

Alain
PS: sorry for my english

PS: non exhaustive obvious missing functionnalities:
-- colors in postscript
-- titles in "plot" with math symbols (!8!E) ...