Subject: ftp site with IDL routines
Posted by sterner on Wed, 26 Jun 1991 23:51:08 GMT
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An anonymous ftp site is now available containing about
300 IDL routines which may be of general interest.
These routines have not been tested for PV-WAVE.

The routines are available as compressed tar files for unix,
and compressed backup files for VMS (a decompress utility for
VMS is also available from this site).

The routines mostly fall into the following broad categories:
Text Files, Text strings, Date & time routines, Information,
Plotting/Graphics, Imaging, Array processing, Math routines,
Programming routine, Miscellanious, FITS image routines.
Many of the routines should work on any computer system, some
require X windows, some require Postscript printers. Many have
been run on VAX VMS, SUNOS, HP-UX, and MSDOS.

Accessing the ftp site
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ftp 128.244.147.14 (fermi.jhuapl.edu)
For Name type: anonymous
For Password type anything.
Do the following ftp commands:

Command	Comment
cd idl-pvwave/jhuapl	Change to IDL library directory.
get README	Get the site description file.
get cat.one	Optional. One line description of each routine.
bye	

Here is a sample extract from the one line descriptions file, cat.one:
getwrd = Return the n'th word from a text string.
wordarray = Convert a text string or string array into a 1-d array of words.
date2ymd = Date text string to the numbers year, month, day.
jd2ymd = Find year, month, day numbers from julian day number.
timeaxis = Plot a time axis.
ymd2jd = From Year, Month, and Day compute Julian Day number.
set_isoxy = Set data window with equal x & y scales.
psinit = Redirect plots and images to postscript printer.
makez = Make simulated 2-d data. Useful for software development.
imgunder = Display image in same area as last plot.
topo = Make a monochrome shaded relief view of a surface.
binbound = For binary image return array with boundary points set to 1.
radon = Compute the Radon Transform using the FFT method.
kurf = Computes kurtosis inside a moving window.

skewf = Computes skew inside a moving window.
varf = Computes variance inside a moving window.
ave2d = Average rows or columns of a 2-d array.
factor = Find prime factors of a given number.
nicenumber = Find a nice number close to the given number.
polrec = Convert 2-d polar coordinates to rectangular coordinates.
recpol = Convert 2-d rectangular coordinates to polar coordinates.
rot_3d = Rotate 3-d coordinate system.
skewint = Give the near-intersection point for two skew lines.
opfit2d = Calculate orthonormal polynomial fit for 2-d data.
convexhull = Return the convex hull of a polygon.
prime = Return an array with the specified number of prime numbers.
mandelbrot = Compute Mandelbrot images
filename = File names with system independent symbolic directories.
sun = Computes geocentric physical ephemeris of the sun.

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