Subject: JHU/APL/S1R IDL Library update.
Posted by sterner on Thu, 11 May 1995 07:00:00 GMT
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JHU/APL/S1R IDL anonymous ftp site update notice
The latest update was made on 1995 May 11.
The last update was made on 1995 Jan 20.

fermi.jhuapl.edu IDL library ftp site description

Purpose of this ftp site

This ftp site contains several JHU/APL/S1R IDL libraries.

The library routines fall into the following broad categories:
Text Files, Text strings, Date & time routines, Information,
Plotting/Graphics, Imaging, Array processing, Math, Programming,
Widget tools, Library maintenance and documentation, and Miscellanious.
One demonstration library is currently included for the eqv routine.

Accessing the ftp site (Make sure you use ftp, not telnet)
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ftp fermi.jhuapl.edu (128.244.147.18)
For Name type: anonymous
For Password enter: your email address (ex: sterner@tesla.jhuapl.edu).
Change directory by entering: cd pub/idl
Set the correct transfer type: ascii (for README, cat.one, doc_guide.txt)
or binary (for the *.Z files).
To get a file enter: get filename
When finished enter: bye.

Get the ascii file README (~7.2k byte) for a guide to this ftp site.
You may also want to get the one line description file cat.one (~32kb).

What's New in the May 1995 JHU/APL/S1R IDL library update

Besides the usual minor upgrades and small bug fixes are the following.

The document IDLDOC/idl_psprinters.doc has some notes on the
changes to psinit to support color PostScript.
PRWINDOW is a new routine to do a screen dump from current IDL window to
color PS printer (by default). Used by the XVIEW color print button.
XVIEW has a new button: Color Print which sends the image in the current
graphics window to a color PostScript printer. Several one-time
conditions must be met: first you must have a color PS printer,
you must have the new routine PRWINDOW (in the same library), and
you must have correctly added the color printer to the IDL_PSPRINTERS
file (see IDLDOC/idl_psprinters.doc for more details).

PSINIT has been upgraded for color PostScript support. Three new
keywords were added for this support:
/COLOR means do color PostScript (def is B&W).
/AUTOCOLOR means automatically set color mode for a
color PS printer. Must have the word color in the
printer description line.
CFLAG=flag Returned color flag: 0=B&W, 1=Color mode.
The IDL_PSPRINTERS file must be correctly updated for this to work.
PSINIT also has a new method of selecting which printer to use.
The previous printer number still works.
See IDLDOC/idl_psprinters.doc for a few more details.
MOVLABELS is a new routine intended to interactively help find positions
for labels of points. See the release notes (IDLUSR/release_notes.txt)
for a description of this routine. This was made when I was afraid I
wouldn't be able to get my automatic label placement to work. I did
get it to work so this routine was not extensively exercised. The
label autoplacement algorithm is quite application specific, I haven't
been able to generalize it into a useful standalone routine.
TICKLEN is a new routine that solves the problem of different tick
lengths on the X and Y axes. Desired tick lengths are specified in
pixels. Make sure you use the keywords POSITION and DEVICE if
needed, otherwise strange results will occur.
GETSTR is a new routine to pick off strings delimited by ' or ". The other
kind of quote may be embedded in the string. Works with text strings
or string arrays. Useful for handling lists of date/time strings.
For example:
'28 Jun 1994 20:00', '29 jun 1994 4:00'
might be a start and stop time (comma and whitespace between strings
is optional), and it is convenient to keep such pairs together.
JSPLOT had a bug fixed with /OVER that prevented correct operation in
some cases.
XCURVE has had added rubber-banding so you can see just where the next line
segment of the curve will occur before adding it. XOR plot mode is
used which doesn't always show up as well as one might like. A few
artifacts still seem to show up in some cases, not sure just why,
but it's still pretty useful.
XMERGE is a new routine to merge multiple color images into one.
Each component image may have its own color table. The resulting image
will show all the images with a new color table. Images may be
interactively added, moved, or dropped. Supported image formats are GIF,
TIFF, and JPEG. Transparent backgrounds may optionally be defined for
each image (for any of the above formats).
XTXTIN has had optional buttons added for common selections. Specify these
selections using the MENU keyword to give a string or string array.
Also may give position of these buttons, above or below text entry
field. This should save user typing.
ELLFIT is a new routine to fit an ellipse to a 2-d probability distribution.
GENELLIPSE is a new routine to display the results of the fitted ellipse

found by ellfit.
DT_TM_MAK has had i$ format code added at the suggestion of Michael J. Carter.
MAKES is a new routine to generate a string array of integers. The values
do not have leading or trailing spaces and are useful for creating
arrays of file names with embedded numbers. Some examples:
'F'+makes(18,0,2)+'.tif' gives F0.tif, F2.tif, ..., F18.tif
'F'+makes(18,0,-2)+'.tif' gives F18.tif, F16.tif, ..., F0.tif.
PUT_SCALE is a new routine to embed scaling in current image. This is useful
for XY or Contour plots. It places the screen and data windows into
the first 90 pixels of the bottom image line. This routine is
simply called after making a plot and before saving it. The inverse
routine, SET_SCALE, can read this info and restore the original scaling.
This is very useful since previously saved images may be later loaded
and measured with XCURSOR, CROSSI, VERI, or HORI. XVIEW has
been modified to call SET_SCALE after loading an image. If the scaling
info is not available no new scaling is set. This technique will not
work with lossy image formats such as JPEG.
SET_SCALE is a new routine to restore the original scaling of the currently
displayed image. This is possible if the scaling info has been embedded
in the image using PUT_SCALE before saving it.
XLINE is a new routine for an interactive line on image display.
It works in any of the 3 coordinate systems: device, normal, data.
It allows one line point to be specified when calling and optionally
returns the other point. The points are connected using XOR.
XCYPH is a new routine to interactively determine a period length to
to use in making a cycle/phase image of periodic data. Does the
same processing as cyph, but using interactive widgets.

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