C-PLOT™ COMMAND REFERENCE

Version 4.0

Handling Data

2d — Select 2D mode
3d — Select 3D mode
eb [**x**|**y**|**z**] [**0**|**1**] [**?**] — Select error-bar modes
gd [*mode*] [*file*|**.**] [**+***skip*] [**=***total*] [**&**] [**@**] — Get data points
lc [**0**|**1**] — Select line-control mode
np [**x**][**y**][**z**] — Reset axes for new points
sa [[**-b**] *file* [**a**|**w**]] — Save current data
ra [**x**][**y**][**z**] [*ranges* ...] — Select axis range
ro [**x**][**y**][**z**] — Select axis range options

Low-Resolution PseudoGraphics Plotting

gr [*term* [*character_set*]] — Select terminal type
v — Draw plot
va — Draw axes
vb [**0**|**1**] — Select inclusion of axes
vp — Draw points
vt [**0**|**1**] — Select automatic drawing

High-Resolution Plotting

p commands write to pen plotters; **z** to graphics filters.

pa|**za** — Draw axes
pb|**zb** — Draw error bars
pd|**zd** — Draw date in corner
pk|**zk** [*h v* | *xbox ybox zbox*] — Draw key
pl|**zl** — Draw axis labels
pn|**zn** [*h v*] [*file*] — Draw annotation text, 2D
pn|**zn** [*xbox ybox zbox*] [*file*] — Draw annotation text, 3D
pp|**zp** — Draw points
pt|**zt** — Draw title
pz|**zz**|**p**|**z** — Draw complete plot

Special Pen Plotter Commands

in [**m**] [*device*] [*baud*] — Open and initialize plotter
pv [*velocity*|**-1**] — Select pen velocity
pw — Do not move pen off page
px|**ps** — Move pen off page
p*#* — Select pen (*#* is an integer)
rp — Release exclusive use of plotter

Special Filter Commands

sc [*short_side long_side*] — Select filter scaling factors
z*#* — Select "pen" (*#* is an integer)
ze — Erase old filter plot
zE — Erase current window
zf, zf1, zf2 — Select filter
zi [*filter* [*file*|*@spool_opts* ...] [*filter_opts* ...]] — Initialize a filter program
zq — Do not echo text to screen
zs — Close filter and pause
zw — Do not close filter
zx — Close filter

Plot Formatting

bo [*xbox*|**.** *ybox*|**.** *zbox*|**.**] — Set 3D box edges
cs [**t**|**l**|**n**|**s**|**k**|**d** [*height* [*ratio* [*slant*]]]] — Set character sizes
ft [*code*] — Select font
gk — Enter key symbols and text
lo [*llx lly urx ury*] — Locate plot
re — Reset program for new plot
se [**dash** [*lgth*] | **spacing** [*vert*] | **tl** [*%*] | **xtl** [*%*] | **ytl** [*%*] | **ztl** [*%*] | **do_dir** [*dir*] | **gd_dir** [*dir*] | **fn_dir** [*dir*]] — Set various parameters
st [*code*] — Select plot style
sw [*angle*] — Swivel plot
sy [*symbol*] — Select plotting symbol
tu [**0**|**1**] — Turn plot by 90 degrees
tw — Tweak plot orientation
tx [**t**|**x**|**xu**|**y**|**yu**|**z**|**zu** [*text* ...]] — Enter title and axis labels
ty [[[**+**|**-**]*type*]|**.** ...] — Set plot types (see other side)
vi [[*x*|**.** *y*|**.** *z*|**.**]|*r*] — Set 3D viewpoint
wi [*code*|[[*horz_off*] *vert_off*] *width height*] — Select window size and location
yg [**0**|*#*] — Set gap between ***y***-axis and label

Utility Commands for Plotting and Fitting

cd [*directory*] — Change directory
er — Erase the video screen
ex — Exit the program
h [*command*] — Get on-line help
u [*command*] — Create a subshell
^C *(interrupt character)* — Return to command level of program
^D *(eof character)* — Exit program or data-entry procedure
^ *(quit character)* — Terminate processes, return to shell

Command Files

ch [**p**|**z**|**0**] — Change drawing command target
do [*cmd_file*|**.**] — Take commands from a file
em — End making command file
mk *cmd_file* — Make command file
sf [*filename*] — Save format
w — Wait for user to enter <return>

User-Function Commands

fn|**f1**|**f2**|**f3** [**.**|*name.#*[**.c**] [*start end numb*] [*args* ...]] — Run user function
fn|**f1**|**f2**|**f3 c**|**e**|**k**|**?** — Compile, edit, kill, query user functions

Standard User Functions

calc.4 — General purpose data calculator
chaos.1 — Generates data that bifurcates
contour.4 — Generates contour plots
curves.2 — Generates geometric curves
fft.4 — Does fast Fourier transforms
fitpar.4 — Plots parameter files from fits
hist.4 — Makes a histogram
psych.4 — Generates psychedelic curves
shell.4 — Runs external program to filter data
smooth.4 — Smooths data using boxcar average
sort.4 — Sorts data
spline.4 — Interpolates data using cubic spline

Fit-Package Commands

ch [**p***#*=*val* ...] — Calculate chi squared
fc — Set fit criteria and fit options
fi [*#* ...] [**p***#*=*val* ...] [**L***#*=*val* ...] [**U***#*=*val* ...] [**n**=*val*] [**f***#*=*val*] [**t***#*=*val*] — Fit the data points*
gd [*options*] — Get data points
gp — Get parameters values
lm [*#* [*low high*]] — Set constraints on parameters
md [*#*][**o**][**p***#*=*val* ...] — Make data
mr [*#*][**/**][**p***#*=*val* ...] — Make residuals
pg [*#*] — Get points from plot
ps [*#*] — Send points to plot
ra [**0**|*#*] — Select range of data to fit
rp [*file*|**.**] — Read parameters from a file
sa [*file* [**a**|**w**]] — Save data points*
sA [*file* [**a**|**w**]] — Save plot points*
sf [*file* [**a**|**w**]] — Save full parameters*
sF [*file* [**a**|**w**]] — Save full parameters and errors*
sp [*file* [**a**|**w**]] — Save parameters*
sP [*file* [**a**|**w**]] — Save parameters and errors*
vp — Select parameters to vary
wt [**i**|**s**|**n**|**u**] — Select how to weight data points

* Use **>***file*, **>** **.** or **>>***file* to also sent output to file.

Plot and fit commands are one- or two-letter mnemonics. Parameters shown in boldface are to be typed literally. Parameters shown in italics are to be replaced with the appropriate characters for the desired instruction. Optional parameters appear in square brackets following the mnemonics. When several parameters are shown separated by vertical lines, you use only one of them with the command.

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