CHAPTER 5   Support Commands

Commands in this category carry out secondary operations, such as input/output, and defining trigonometric units. Examples of commands are READ, WRITE, and DEGREES. The commands in this category are:

On-line help

BUGS	List known bugs.
EXPERT [not working]	Invoke the expert subsystem.
HELP	Print (on-line) short documentation for a given command.
MAIL	Print a message from the DATAPLOT service organization.
NEWS	Print a description of new commands.
QUERY (or MESSAGE) [obsolete]	Send a message to the DATAPLOT service organization.
STATUS	Print the status of all lines, characters, variables, and parameters.

Input and Output (these are documented in a separate chapter)

COLUMN LIMITS	Specify column limits for the READ and SERIAL READ commands.
END OF DATA	Terminate reading data.
READ	Read variables.
READ FUNCTION	Read one line of functions (= READ STRING).
READ PARAMETER	Read parameters.
READ STRING	Read one line of strings (= READ FUNCTION).
READ MATRIX	Read a matrix.
ROW LIMITS	Specify row limits for the READ and SERIAL READ commands.
SERIAL READ	Read variables serially.
SKIP	Specify the number of header lines to skip for subsequent READ commands.
WRITE (or PRINT)	Write variables, parameters, matrices, or functions to either the terminal or a file.

Re-executing previous commands and terminal control

PAUSE	Wait for a carriage return before continuing execution.
PROMPT	Specify whether a DATAPLOT prompt is printed before reading the next command.
REPEAT	Re-execute one or more of the last 20 commands.
SAVE	Save one or more listed commands.
/	Re-execute the saved commands.

Saving, re-directing, and printing output

CAPTURE	Re-direct alphanumeric output to a file.

END OF CAPTURE	Re-direct alphanumeric output back to the terminal.
PP [host dependent]	Send a copy of the most recent plot to the printer.
PRINTER TYPE [not working]	Specify whether alphanumeric printer output is in ASCII or Postscript format.
/ PRINTER [host dependent]	Re-execute the saved commands and send the alphanumeric output to the printer.
/ PSPRINTER [host dependent]	Re-execute the saved commands and send the alphanumeric output to a Postscript printer.
/ <file> [host dependent]	Re-execute the saved commands and send the alphanumeric output to the named file.

Listing

COLUMN RULER	Prints out a column header denoting columns 1 through 80.
LIST	Print the contents of a file or list the last 20 commands.
NLIST	List the contents of a file with line numbers.

Feedback

ECHO	Specify automatic echo of command lines (ON/OFF).
FEEDBACK	Allow/suppress all feedback printing (ON/OFF).
PRINTING	Allow/suppress all analysis printing (ON/OFF).

Re-initializing/exiting

EXIT	Exit from DATAPLOT (synonyms are STOP, END, HALT, QUIT, BYE).
RESET	"Zero-out" all variables, parameters, functions, etc.
RESTORE MEMORY	Restore all saved variables, parameters, and functions from mass storage.
SAVE MEMORY	Dump all variables, parameters, and functions to a mass storage file.

Workspace

DIMENSION	Specify the dimensions of internal data storage.

Modifying variables

APPEND	Append one variable to the end of another variable.
DELETE	Delete variables or elements of a variable.
EXTEND	Extend one variable by attaching another variable to the end of it.
NAME	Assign (equate) additional names to variables.
RETAIN	Retain variables or elements of a variable.

Comments

COMMENT	Insert a comment line in code.
. (period)	Insert a comment line in code.
COMMENT CHARACTER	Define the comment character for data files.
COMMENT CHECK	Check data files for comment characters (ON/OFF).

Macros and programming structures

BREAK LOOP	Terminate a loop before the last iteration.
CALL	Execute a DATAPLOT subprogram stored in a file.
CREATE	Echo DATAPLOT commands to a file.
END OF CREATE	End echoing of commands to a file.

END OF LOOP	Terminate a loop.
END OF IF	Define the end of a conditionally-executed code.
IF	Define the start of a conditionally-executed code.
LOOP	Initiate a loop.

Trigonometric units

ANGLE UNITS	Specify which type of trigonometric units to use.
DEGREES	Specify degrees for subsequent trigonometric calculations.
GRADS	Specify grads for subsequent trigonometric calculations.
RADIANS	Specify radians for subsequent trigonometric calculations.

Accessing internal DATAPLOT parameters

PROBE	Dump the contents of an internal DATAPLOT parameter.
SET	Set the contents of an internal DATAPLOT parameter.

Searching and editing files

COPY	Copy all or part of one file to another file.
EDIT (or FED)	Edit a file with a line mode editor.
SEARCH	Search a file for the first (or all) occurrence of a string.

Defining special strings and characters

CONTINUE CHARACTER	Specify the continuation character.
DEFINE	Define general ASCII string commands (useful for sending escape codes to a device). The DEFINE POSTHELP, DEFINE PREHELP, DEFINE POSTPLOT, and DEFINE PREPLOT are special cases for preceding and succeeding strings for the HELP and PLOT commands.
SUBSTITUTE CHARACTER	Specify the substitution character.
TERMINATOR CHARACTER	Specify the termination character.

Plot support

ANDREWS INCREMENT	Specify the horizontal axis increment for the ANDREWS PLOT command.
ANOP LIMITS	Specify the upper and lower bounds for a "success" in an ANOP plot.
CLASS LOWER	Specify the class lower limit for the HISTOGRAM and related commands.
CLASS UPPER	Specify the class upper limit for the HISTOGRAM and related commands.
CLASS WIDTH	Specify the class width for the HISTOGRAM and related commands.
COPY DELAY	Specify the delay factor after a hardcopy.
CURSOR COORDINATES	Specify the cursor coordinates position after a plot.
CURSOR SIZE	Specify the cursor size after a plot.
END OF MULTIPLOT	Terminate MULTIPLOT mode.
ERASE DELAY	Specify the delay factor after a screen erase.
EYE COORDINATES	Specify the eye position for 3D plots.
FENCE	Specify whether or not fences are drawn on box plots.
FRACTAL ITERATIONS	Specify the number of points to generate for a fractal plot.
FRACTAL TYPE	Specify the type of input data for a fractal plot.
HORIZONTAL SWITCH	Specify whether plots are horizontaly or verticaly.

NEGATE	Specify whether or not the vertical axis variable is negated.
VECTOR ARROW	Specify the attributes for the arrow on a VECTOR PLOT command.
VECTOR FORMAT	Specify the data format for a VECTOR PLOT command.

Switches for analysis commands

BOOTSTRAP SAMPLE SIZE	Set the sample size for subsequent bootstrap plots.
DEMODULATION FREQUENCY	Specify the frequency for complex demodulation.
FILTER WIDTH	Specify the filter width for SMOOTH.
FIT CONSTRAINTS [not working]	Specify constraints for the FIT and PRE-FIT commands.
FIT ITERATIONS	Specify the upper bound on iterations for the FIT command.
FIT POWER [not working]	Specify the fit criterion power for the PRE-FIT and FIT commands.
FIT STANDARD DEVIATION	Specify the lower bound on the residual standard deviation for the FIT command.
KNOTS	Specify the knots variable for the SPLINE FIT command.
LOWESS DEGREE	Specifies whether the LOWESS command performs linear or quadratic fitting.
LOWESS FRACTION	Set the interval for a LOWESS SMOOTH (as a fraction).
LOWESS PERCENT	Set the interval for a LOWESS SMOOTH (as a percent).
PRINCIPAL COMPONENTS TYPE	Specify the type of input data for the PRINCIPAL COMPONENTS command.
POLYNOMIAL DEGREE	Specify the polynomial degree for certain variations of the FIT, SMOOTH, and SPLINE FIT commands.
ROOT ACCURACY	Specify the accuracy tolerance for the ROOTS command.
SEED	Specify the seed for random number generation.
WEIGHTS	Specify the weights variable for the FIT, PRE-FIT, and related commands.
YATES PRINT	Specify the printing options for the YATES ANALYSIS command.
YATES CUTOFF	Specify the convergence criterion for the YATES ANALYSIS command.

Host communications

BAUD RATE	Specify the baud rate.
HOST	Specify the host computer.
HOST LINK	Specify the link (phone, network, etc.) to the host.
OPERATOR [not working]	Send a message to the host console operator.
SYSTEM [host dependent]	Send a command to the host operating system.

Miscellaneous

EXECUTE STRING [obsolete]	Execute a command line with string substitutions.
IMPLEMENT [obsolete]	Activate local change to the DATAPLOT implementation.
TIME [host dependent]	Display the time and date.
TRANSLATE	Define an automatic translation of graphic strings.