

GRAPHICS SUMMARY

COLOR codes

0 - White	4 - Magenta
1 - Green	5 - Blue
2 - Yellow	6 - Blue-green
3 - Red	7 - Black

Draw arguments

Output Arguments --

D - Down.	H	U	E
E - 45 degree angle.	.	.	.
F - 135 degree angle.	.	.	.
G - 225 degree angle.	.	.	.
H - 315 degree angle.	L	.	R
L - Left.	.	.	.
R - Right.	.	.	.
U - Up.	.	.	.
M - Move to specified point.	G	D	F

Output Modifier Arguments --

B - Blank (Don't draw line, update DRAW position).
 N - No update (Draw line, don't update graphics position).
 Z - Zero (Erase line rather than draw it).

Mode Arguments --

A - Angle (0-3, default = 0).
 C - Color (0-7, default = COLOR).
 S - Scale (1-255, default = 4).

Miscellaneous Arguments --

X - Execute string as DRAW argument.

MODE codes

0 - 128 X 48 (low resolution black & white).
 1 - 480 X 192 (high resolution black & white).
 2 - 127 X 192 (low resolution color).
 3 - 480 X 192 (high resolution color).

QUICKKEY DEFINITIONS

AUTO	- A	KILL	- K	READ	- Y
CHR\$(	- 4	LEFT\$(	- 1	RESET(	- Q
CLEAR	- Z	LIST	- L	RETURN	- H
CLOSE	- J	LOAD	- B	RIGHT\$(	- 3
CMD	- C	MEM	- M	RUN <ENTER>	- R
DATA	- D	MID\$(	- 2	SAVE	- S
DIM	- U	MKD\$(	- 8	SET(	- W
ELSE	- E	MKI\$(	- 9	STR\$(	- 6
FOR	- F	MKS\$(	- 0	STRING\$(	- 7
GOSUB	- G	NEXT	- N	THEN	- T
GOTO	- X	OPEN	- O	VARPTR(	- V
INKEY\$(	- 5	PEEK(	- P	blank:blank	- :
INPUT	- I	POKE	- @		

LNWBASIC COMMAND SUMMARY

HIMEM address Sets last byte usable by BASIC.
 "address is hex-constant, int-expression, lsb-msb expression, or pos-expression
 HIMEM &HFFFF HIMEM X HIMEM0,254 HIMEM +65000

LCASE Switches lower case enable on / off.

LINE X1, Y1, X2, Y2, {RE}SET {,shape} Sets or resets line, box, or filled box. "shape" is "B" (box), "BF" (filled box), or not used (line).
 LINE 0,0,127,47,SET,BF LINE0,0,479,192,RESET,B

LOADKEY filespec Loads disk file of defined keys.
 LOADKEY "APL/KEY" LOADKEY"ALTSET2/KYS" LOADKEY A\$

LOC. {search str} Locates "search str" in BASIC program text. "search str" is a string constant optionally delimited by double quotes.
 LOC."LOCATE" LOC.PRINT LOC. LOC.GOSUB 1000

MODE mode code Sets graphics mode. "mode code" is int-expression (0-3).
 MODE 3 MODE X MODE 0

LNWBASIC COMMAND SUMMARY

BLINK Switches blinking cursor on / off.

CALL address -- Executes machine language program. "address" is hex-constant, int-expression, lsb,msb expression, or pos-expression.
 CALL &HE000 CALL X CALL 25,251 CALL+52021

CIRCLE X-center, Y-center, X-radius, {Y-radius} {,start-angle} {,end-angle} {,rotation-angle} Draws a
 CIRCLE 100,50,50 CIRCLE 50,50,20,10,120,310,45

COLOR color code Sets color for mode 2 graphics. "color code" is int-expression (0-7).
 COLOR 0 COLOR RND(8)-1

CONV value Displays value in different representations. "value" is hex-constant, int-expression, lsb,msb expression, pos-expression, "A", or "AA".
 CONV &H400 CONV X*Y+1 CONV 200,234 CONV "ms"

DEFKEY old char, {new char}, definition Modifies definition of defined key.
 DEFKEY "0","ZERO" DEFKEY "a","k",,"KILL",+CHR\$(34)

DISKEY Displays defined keys on screen.

DLOAD filespec Loads object file from disk.
 DLOAD "FILE/LNW" DLOAD A\$ DLOAD"TEST2"

DO...UNTIL(condition) Forms program loop executed until "condition" is true (-1).
 DO : ... : UNTIL (A=B) DO : ... : UNTIL(A\$<>"")

DRAW string Draws line(s) on screen.
 DRAW "B,M100,50,R10,D10" DRAW"XHM\$,A3,S2,C5,XFIG\$"

DRUN filespec Exits LNWBASIC and executes disk object program.
 DRUN "BASIC/CMD" DRUN FN\$ DRUN"CHESS/CMD"

EXIT Exits LNWBASIC and returns to DOS.

FLS {char} Fills text screen with char. "char" is int-expression (0-255) or "A".
 FLS FLS ":" FLS " " FLS X FLS C*9+64

GOSUB line Transfers program control to specified subroutine.
 GOSUB 40000 GOSUB X*10 GOSUB #"DELAY"

GTO line Transfers program control to specified line.
 GTO 9999 GTO #"QUIT" GTO X=1000

LNWBASIC COMMAND SUMMARY

REST line restores DATA pointer to specified line.
 REST10 RST X REST#"NAMES" REST#"ADDRESSES"

RS232 Initializes RS-232C interface.

RSIN {,R} Turns on {off} input from RS-232C to keyboard.

RSOUT {,R} Turns on {off} output from RS-232C from printer.

SAVEKEY filespec Saves defined keys to disk file.
 SAVEKEY "DEFKEY/KEY" SAVEKEY"KEYS/KEY" SAVEKEY F\$

SOUND freq, dur, {wave} Outputs tone of requested frequency, duration, and waveform. Arguments are int-expressions (0-255).
 SOUND 200,100,25 SOUND FR,DU,18 SOUND FR,75

SPOOLOFF Turns off spooling of printer output.

SPOOLON Turns on spooling of printer output

NTROFF Turns off new trace facility.

NTRON {line range,} {expr} {, expr} ... {,expr} Turns on new trace facility.
 NTRON A\$ NTRON (100:),X NTRON(:500) NTRON(5)

PCLS {value} Fills graphics screen with value. "value" is int-expression ()-7).
 PCLS PCLS0 PCLS 7 PCLS RND(8)-1 PCLS X

PLOAD filespec {,MERGE} Loads disk file into graphics memory
 PLOAD "BOX3D/GRF" PLOAD"MNTN/GRA",MERGE

POFF Turns off the video to printer echo.

PON Turns on the video to printer echo.

PRESET X,Y Resets specified point.
 PRESET0,0 PRESET X,Y PRESET 400,192

PSET X,Y Sets specified point.
 PSET X,Y PSET 450,0 PSET 100,Y

PSAVE filespec Saves graphics screen to disk file.
 PSAVE"GRAPHICS1/GRF" PSAVE FIL\$+"/GRA" PSAVE"PIC"

QUICKEY Switches <control> key entries on / off.

REPEAT Switches keyboard repeat & beep on / off.

to disk file.
 SPOOLON"REPORT/SPL" SPOOLON "SESSION1"

XSTR\$(string) Executes string as BASIC statement.
 XSTR\$(FN\$) XSTR\$("PRINT A\$,B\$") XSTR\$("GSUB #I

GLOSSARY OF TERMS

filespec String consisting of filename (up to 8 characters), with optional extension, password, and driv number.

hex-constant Integer constant expressed in hex notation, preceded by "&H".

int-expression Expression whose value lies between -32768 and +32767. Non-integer values are rounded.

line Numeric constant, variable, expression (0-65529), or #"label;".

lsb,msb expression Least significant byte (0-255), most significant byte (0-255) integer expression.

pos-expression Expression preceded by "+" whose value lies between 0 and 65529. Non-integer values are rounded.

string String variable, expression, or constant (up t 255 characters).