Texas Instruments

TXDS Reference Data

Microprocessor Series™

List of Commands and Special Keys/Characters

COMMAND SYNTAX	DESCRIPTION
	SETUP COMMANDS
SL	Start Line Numbers (SL) command causes line numbers to be printed with each line of text
SN	Stop Line Numbers (SN) comman causes line numbers not to be printed
SP	Set Print Margin (SP) command sets the right boundary for print display
SM	Set Margin (SM) for Find command sets the left and right boundaries for the Find command
ST	Set Tabs (ST) command sets up to five tab stops
	PRINTER-MOVEMENT COMMANDS
D	Down (D) command moves the pointer down toward the bottom of the buffer
U	Up (U) command moves the pointer up towards the first line in the buffer
T	Top (T) command moves the pointer to the first line in the buffer
B	Bottom (B) command moves the pointer to the last line in the buffer
	EDIT CDMMANDS
C	Change (C) command removes lines from the buffer and inserts new ones in their place The new lines are input from the terminal
I	Insert (I) command takes input from the terminal and places the new lines into the buffer
M	Move (M) command moves lines from one place in the buffer to another
R	Remove (R) command deletes lines from the buffer
F	Find string (F) command searches for the first occurrence of a character string in a line and replaces it with another string of characters
	PRINT COMMANDS
L	Limits (L) command causes the first line and the last line to be displayed
P	Print (P) command displays lines of text
	OUTPUT COMMANDS
K	Keep (K) command takes lines of text out of the buffer and puts them in the output file
Q	Quit (Q) command takes lines of text out of the buffer or the input files and puts them in the output file
E	An (E) command terminates without writing an EOF to the output file
	TERMINATE-SEQUENCE COMMANDS
T or C	Allows the user to make multiple single directional editing passes on a source or object program
	SPECIAL KEYS/CHARACTERS
CTRL-H	Pressing the control key and the H key simultaneously on the hard copy terminal causes the terminal to backspace a character to enable rewriting over an entered character-error
RUB OUT	The RUB OUT key causes the line just entered to be deleted so that a new line can replace it
CTRL-I	Pressing the control (CTRL) key and the I key simultaneously on a hard-copy terminal causes a tab stop to be entered in the input string, although only one space will be echoed on the terminal
ESC/RESET	Pressing the ESCape or RESET key on the system console causes a display to be aborted
position keys	When using a VDT, only the left position key (←) and the right (→) position key are recognized The up and down position keys cause garbage to be entered into the input string The left position key causes characters to be deleted from the character string, a right position key causes whatever was under the cursor to be entered
DELETE LINE	DELETE LINE on a VDT acts the same as a RUB OUT on a hardcopy terminal
TAB	A SPACE character is echoed The TAB is interpreted by the text editor and spaces are inserted to fill the text line to the next TAB setting

TXMIRA Options

OPTION	DESCRIPTION
Mnnnnn	Overrides memory size default, default is 2400 bytes
X	Produce cross-reference
L	Produce assembly listing
T	Expand TEXT code on listing
S	Produce sorted symbol list
C	Produce compressed object output where n is a decimal digit

TXLINK Options

OPTION	DESCRIPTION
Mnnnnn	Override default memory size, default is 11800 bytes
C	Compressed object output
Iaaaaaaaa	IDT for linked object
P	Partial link desired
L	Print load map and symbol list

Note n is a decimal digit and a is an alphanumeric character

TXCCAT Dptions

OPTION	DESCRIPTION
TRnnnn	Truncate record to length nnnn
FLnnnn	Fix records to size nnnn by padding with blanks or by truncation
SKnnnn	Skip nnnn input records, prior to output
LFnn	List file, page length = nn, default = 55
SLnn	Space lines on listing, nn = space count, default = 0
NL	Number lines on listing
RI	Do not rewind input on open
RO	Do not rewind output on open

Note n is a decimal digit and the maximum field size is given by the number of n's

TXDBUG Keyboard Commands

DEBUG Commands

IC	Inspect Communications Register Unit (CRU)
IM	Inspect Memory
IR	Inspect AU Register (WP, PC, ST)
IS	Inspect Snapshot
IW	Inspect Workspace Registers
MC	Modify Communications Register Unit (CRU)
MM	Modify Memory
MR	Modify Registers
MW	Modify Workspace Registers
SB	Set Breakpoint
SP	Set H/W Write Protect Option
SR	Set Trace Region
SS	Set Snapshot
ST	Set Trace
CB	Clear Breakpoint
CP	Clear H/W Write Protect Option
CR	Clear Trace Region
CS	Clear Snapshot

INPUT OPTIONS

string-var	Prompt with colon and input character data Example INPUT $A
,	Delimit expressions Example A, B
;	Suppress prompting or CR LF if at end of line Examples: INPUT ;A INPUT A,
#exp	Allow a maximum of exp characters to be entered Example INPUT #1"Y or N"$1
%exp	*Must enter exactly exp number of characters Example. INPUT %4"CODE"C
?<ln>	*Upon an invalid input or entry of a control character, a GOSUB is performed to the line # SYS(0) will be equal to -1 if there was an invalid input Otherwise, SYS(0) will equal the decimal equivalent of the control character Example INPUT ?100,A

OUTPUT OPTIONS

;	Delimit exp s or suppress CR LF if at end of line Examples •. A,B | •. A,
,	Tab to next print field Example PRINT A, B
TAB <(exp)>	Tab to exp column Example PRINT TAB (50),A
string	Print string or string-var Example PRINT "HI",$A(0)
#exp	*Print exp as hexadecimal in free format Example PRINT # 123
#,exp	*Print exp as hexadecimal in byte format Example PRINT # ,50
#,exp	*Print exp as hexadecimal in word format Example PRINT # ,A
<hex value>	*Direct output of ASCII codes Example PRINT "<OD> <OA>"
#string	•Print under specified format where PRINT #"9999"I 9 = digit holder PRINT #"000-00-0000"SS 0 = digit holder or force 0 PRINT #"$$$,$$$ 00"DLR $ = digit holder and floats $ PRINT #"SSS 0000"4*ATN1 S = digit holder and floats sign PRINT #"<<< 00>"I < = digit holder and float on negative >number PRINT #"990 99E"N E = sign holder after decimal PRINT #"990 99"N = decimal point specifier PRINT #"999,990 99"N , = suppressed if before significant digit PRINT #"999,990Λ00"I Λ = translates to decimal point PRINT #"HI=99"I any other character is printed

ERROR CODES

1 - SYNTAX ERROR
2 - UNMATCHED PARENTHESIS
3 - INVALID LINE NUMBER
4 = ILLEGAL VARIABLE NAME
5 - TOO MANY VARIABLES
6 - ILLEGAL CHARACTER
7 - EXPECTING OPERATOR
8 = ILLEGAL FUNCTION NAME
9 = ILLEGAL FUNCTION ARGUMENT
10 - STORAGE OVERFLOW
11 - STACK OVERFLOW
12 STACK UNDERFLOW
13 NO SUCH LINE NUMBER
14 = EXPECTING STRING VARIABLE
15 - INVALID SCREEN COMMAND
16 - EXPECTING DIMENSIONED VARIABLE
17 - SUBSCRIPT OUT OF RANGE
18 - TWO FEW SUBSCRIPTS
19 - TOO MANY SUBSCRIPTS
20 - EXPECTING SIMPLE VARIABLE
21 - DIGITS DUT OF RANGE (0 < # of digits <12)
22 EXPECTING VARIABLE
23 - READ OUT OF DATA
24 - READ TYPE DIFFERS FROM DATA TYPE
25 - SQUARE ROOT OF NEGATIVE NUMBER
26 - LOG OF NON-POSITIVE NUMBER
27 - EXPRESSION TOO COMPLEX
28 - DIVISION BY ZERO
29 - FLOATING POINT OVERFLOW
30 - FIX ERROR
31 - FOR WITHOUT NEXT
32 - NEXT WITHOUT FOR
33 - EXP FUNCTION HAS INVALID ARGUMENT
34 - UNNORMALIZED NUMBER
35 - PARAMETER ERROR
36 MISSING ASSIGNMENT OPERATOR
37 = ILLEGAL DELIMITER
38 - UNDEFINED FUNCTION
39 = UNDIMENSIONED VARIABLE
40 = UNDERFINED VARIABLE
41 = EXPANSION EPROM NOT INSTALLED
42 - INTERRUPT W/O TRAP
43 = INVALID BAUD RATE
44 - TAPE READ ERROR
45 = EPROM VERIFY ERROR
46 - INVALID DEVICE NUMBER