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DIM Dimensions one or more arrays.

DIM X\$(4) DIM X(5)

DMS Converts decimal degrees into degrees,

END Ends program execution, Abbreviations: E. EN.

FOR . . TO . . STEP/NEXT Opens program loop.

GCURSOR position Selects Display start position

(0-155), Abbreviations: GCU, GCUR, GCURS,

GOTO Transfers program control to the specified line.

SOTO 180 SOTO A GO, "A" GOT, AR

GOSUB Transfers program control to the specified

GRELLE 750 GRS. A. GRSH. "A" GRSHE AS

GPRINT nattern delimiter nattern delimiter . . . Sets

graphic dots on the Display, pattern is between

0-127; delimiter is a comma (blank space) or semi-

colon (no space), Abbrevaitions: GP, GPR, GPRI,

GCUR. 75

Abbreviations: F. FO, STE, N. NE, NEX,

FOR I = 1 TO 100 STEP 10...NEXT I

Abbreviations: GL, GLC, GLCU, GLCUR,

GLCURSOR (x, y) Positions Printer pen.

Counter variable range -32768 through +32767

minutes and seconds Abbreviations: DM

EXP n Computes natural antilog. (en)

Abbreviations: D. DI.

decimal degrees.

DEG 32.2513

DMS 32.2513

Y = FYP Y

GCURSOR 100

GLCURS GLCURSO

GLCURSOR(100,100)

GP. "7F4949497F"

Abbreviations: G. GO. GOT.

line, Abbreviations: GOS. GOSU.

Abbreviations: EX

DEGREE

Pocket Computer

Model PC-2 Quick Reference Card

Catalog Number 26-3601

www. PC-1500 .INFO

Note: Shaded information applied to the PC-2 Printer/ Cassette Interface (26-3605) only.

Statements and Functions

Argument ranges are indicated below by special letters:

- x: numeric expression between +2047 and -2048 v: numeric expression between +2047 and -2048
- n: (-9.999999999 E-99, +9.999999999 E99)
- c: (0-255) str: string argument var: variable name
- ABS n Computes absolute value. Abbreviations: AB. Y = ABS X
- ACS n Computes arccosine. Abbreviations: AC. A = ACS .102
- AND Logical comparison.
- IF M= 9 AND Y= 14 THEN 100
- AREAD var Assigns Display contents to variable, Must be used with a Definable Key label, Abbreviations: A. AR. ARE, AREA. "9" AREAD X
- ARUN Automatic execution on power-up. Must be the first instruction in the first line in a program, Abbreviations: ARU. ARUN ARU.
- ASC str. Returns ASCII code of first character in
- A = ASC"ASHER" ASN n Computes arcsine. Abbreviations: AS.
- 9 = 98N (YZT)
- ATN n Computes arctangent. Abbreviations: AT. Y = ATN 45
- BEEP switch Turns tone feature on or off BEEP ON BEEP OFF
- BEEP number, frequency, duration Sounds tone for specified number (0-65535) of times, frequency (0-255), and duration (0-65279) of each tone, Abbreviations: B. BEEP 25,45,14 B.150
- CALL address, var Calls the machine-language routine stored at specified entry address and will use specified optional variable values to execute.
- Abbreviations: CA. CAL. CALL 82000 CALL 35423, A

CHAIN -1 "filename", line number Allows execution of a segmented program. Program statement only. Abbreviations: CHA, CHAI, 100: CHAIN"PROG1", 30 IOD: CHAIN "PROGO" . A

CHR\$ c Convers ASCII decimal code form 0 through 127 to equivalent character string.

- Abbreviations: CH. CHR. P#=CHR# T
- CLEAR Clears all data, resets variables to zero, and erases DIMensioned arrays. Strings are not set to zero but to null. Abbreviations: CL. CLE. CLEA. CLEAR
- CLOAD -1 "filename" Loads program from cassette. Abbreviations: CLO. CLOA CLOST CLOST PROG"
- CLOAD? -1 "filename" Compares program on cassette to resident program Abbreviations: CLO.? CLOA?
- CLUAD? CLUAD?"PRUG" CLS Erases Display
- COLOR pen Rotates pen holder to specified pen position (0-3). Abbreviations: COL. COLO.
- CONT Continues execution after BREAK or STOP.
- Abbreviations: C. CO. CON
- COS n Computes cosine. Y = CDS
- CSAVE -1 "filename" Saves program on cassette. Abbreviations: CS. CSA CSAV. CSAVE "PROG"
- CSIZE size Sets the printing character size (1-9). Abbreviations: CSI, CSIZ,
- CSIZE 3 CURSOR position Display printing will start at one of the 26 (0-25) Display positions specified by nosition. Abbreviations: CU. CUB. CUBS. CUBSO.
- CURSOR 13 CUR. 20 DATA expression Stores data to be accessed by a READ statement. Abbreviations: DA. DAT. DATA "LINCOLN, A.", 1861, "ILLINOIS"
- GRAD Sets Angle Calculation to gradients. GRAPH Enters GRAPH Mode either immediately or from a program line, Abbreviation: GRAP, 10:GRAPH

GPRINT 10,100 GPRI. %F; 82C

DEG Converts degree minutes and seconds to

DEGREE Sets Angle Calculation to degrees INKEYS Gets keyboard character if available. Abbreviations: DE, DEG, DEGR, DEGRE, Abbreviations: INK, INKE, INKEY

OF=THEFY#

IF . . . THEN Tests conditional expression.

Abbreviations: T. TH. THE.

IF P = 0 THEN 200

INPUT Inputs data from keyboard, Abbreviations: I. IN INP INPU INPUT "WHAT IS THE SCORE";S IN. "NAME": N#

INPUT # (-1) "filename", variable, ... Transfers data from cassette to memory. Abbreviations: 1,# IN.# INP.# INPU.# IN. #, "PROG" 100: INPUT#"PROG", A, B

INT n Returns largest whole number not greater than Y = INT Y

LCURSOR position Positions pen. (TEXT Mode only.) Abbreviations: LC. LCU. LCUR. LCURS. LCURSO LCURSOR 6

LEFTS str. c Returns left portion of string. Abbreviations: LEF, LEFT DESIGNATION OF THE PRESENTANTAL 3

- LEN str Returns the number of characters in a string. YELEN SENS
- LET Assigns value to variable (optional). Abbreviations: LE. LET X = 10
- LF length Line feed. Reverse paper movement cannot be greater than 10.24 cm. LF 8 LF As
- LINE (x1, y1)-(x2, y2)-...(x7, x7), line style, color, B Draws a line (or lines). (x1, y1) is optional: if omitted the current startpoint is used Abbreviation: LIN. LINE(50,50)-(100,100),3,1,B LINE -(50,75)-(125,100),1,1
- LIST line Lists first program line or specified line. Abbreviations: L. LI. LIS. LIST 100 L.75 L.

LLIST startline, endline Lists program lines to Printer, Abbreviation: LL. LLI, LLIS. LLIST LLIST600 LLIST600,900

I.N n Computes natural logarithm (base e).

LOCK Locks the PC-2 in current Operation Mode. Abbreviations: LOC LICK LIC.

Y=IN X

LOG n Computes logarithm to base 10. Abbreviations: LO.

Y=LBG X I PRINT item delimeter item delimeter ... Prints an item, Abbreviation: LP, LPR, LPRI, LPRIN.

LPRINT"FF",66 LPRINT AS; B; C

Abbreviations: M. ME. MEM M. MERCE _1 "filename" Merges (appends) cassette program with resident program.

MEM Finds amount of free memory.

Abbreviations: MFR MFRG MERGE"PROG" MIDS (str. position, length) Takes a character(s) beginning at position of the specified string.

Abbreviations: MI. MID. PRINT MID#(A#,3,3) NEW Erases current program from memory and clears

variables.

Erases current program and resets the Computer NENO

NOT Logical comparison. IF NOT THEN 400

ON FRROR GOTO Sets up an error-handling routing. Abbreviations: O. ER. ERR. ERRO. ON ERROR GOTO 210

ON . . . GOSLIB Multi-way branch to specified subroutines Abbreviations: O. GOS. GOSU. TN Y GOSLIR 50, 100, 150, 200

ON . . . GOTO Multi-way branch to specified lines. Abbreviations: O. G. GO. GOT. DN X GDTD 190, 200, 210

OR Logical comparison. IF X < > 10 DR Y < > 10 THEN 200

PAUSE Print message and continue execution. Abbreviations: PA. PAU. PAUS. PAUSE

PEEK address Gets value in specified address from Primary memory buffer PEEK 34223 PEEK \$2000 PEEK # address Gets value in specified address from

Alternate memory buffer. Abbreviations: PE. PEE. PEEK# 53990 PEEK# 8A45

PI π Returns value of PI (3.141592654)

POINT position Test dot pattern of specified column (0-155) on Display. Abbreviations: POI, POIN. A = POINT 100

POKE address, value Puts value (0-255) into specified memory address (0-65535) of Primary memory buffer. PEKE 3422,22

POKE# address, value Puts value (0-255) into specified memory address (0-65535) of Alternate memory buffer. Abbreviations: PO. POK. PEKE# 3422,22 PD. &50,&1

PRINT# (-1) "filename": variable. . . Transfers data from memory to cassette. Abbreviations: P.# PR # PRI # 10:PR.#"PRDG" P.#"PRDG", A.B.C

PRI.# PRINT# PRINT#"PROG" PRINT Prints an item or list of items on the Display. Abbreviations: P PR PRI PRIN

PRINT A# PR. 100 PRI. A PRINT USING Formats strings and numbers for printing. The width of a numeric field must always

be one more than the width of the data. # Formats numbers PRINT USING "####":66.2

* Specifies Asterisk Fill of the specified positions

nositions of a numbering field which do not contain data. PRINT USING "***##";Y

· Decimal point

PRINT USING "mann. nun": 58.76 . Displays a comma to the left of every third digit

left of the decimal point. An extra # is required for each comme. PRINT USING "mmmmm, mmm"; 246813

 Exponential format, Displays numbers in scientific notation.

PRINT USING "###.^";3.14

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Error

 Prints a + sign in the first position if the specified number is positive number; a minus sign (-) if the specified number is negative. (0 is assumed 	ROTATE direction Sets printing direction (0-3) on printer, ROTATE2		
to be positive.) PRINT USING "+mmm":66.2 PRINT USING "+mmm":-74.1 & Specifies a character field.	RUN Executes program from beginning or from a specified line number or program label. Abbreviations: R. RU. RUN R. 100		
PRINT USING "&&&&"; "JACKSUN" RADIAN Sets Angle Calculation to radians. Abbreviations: RAD. RADI. RADIA. RADIAN RAD.	SGN n Returns a value indicating sign of number: -1,0,1, if n is negative, zero, positive. Abbreviations: SG. ⋈ = SGN(⊕FE)		
RANDOM Reseeds the random number generator. Abbreviations: RA, RAN, RAND, RANDO.	SIN n Computes sine. Abbreviations: SI. Y = SIN X		
RANDOM READ Reads value (s) from a DATA statement. Abbreviations: REA.	SORGN Sets origin on Printer. Abbreviations: SO. SOR. SORG. SDRGN		
READ T READ T\$ REA. NM\$, AGE :REM Remark; instructs the PC-2 to ignore the rest of the line. :REM	SQR n√ Computes square root. Abbreviations: SQ. Y = SQR(A+B) STATUS number Checks the current memory status. number returns 0 = program steps available; 1 = program steps used; 2 = address + 1 of location of end of program; 3 = address of the end of variable storage area; 4 = line number of program when execution was halted. Abbreviations: STA, STAT, STATUS. STATUS STATUS 1		
RESTORE Resets data pointer to the first item in the data line, Abbreviations: RES, REST, RESTO, RESTORE RESTORE 100 RESTORE "A"			
RETURN Returns from the subroutine to the next statement after GOSUB. Abbreviations: RE. RET. RETUR. RETURN			
RIGHTS (str. length) Returns the right portion of string. Abbreviations: RI. RIG. RIGH. RIGHT. 21F\$=RIGHT\$(AD\$.5)	STOP Stops program execution. Abbreviations: S. ST. STO. STOP		
RLINE (x1, y1)-(x2, y2) (x7, y7), line style, color, B Draws line from relative origin. (x1, y1) is optional; if omitted, the current start point is	STR\$ n Converts a numeric expression to a string, Abbreviations: STR. S\$ = STR\$ X		
used. Abbreviation: RL.	TAB position Positions pen.		

Ab	str Converts a string to a number. breviations: V. VA. UAL "100 DDLLARS"
be mu Ab	delay Specifies duration of PRINT. delay can from 0 to 65535. If delay is not specified, you storess [Emitter] to go to next program step. breviations: W. WA, WAI, IT 100 N.500 MA. 10 MAI.
Err	or Codes
Error Code	Explanation
Code 1	Explanation Syntax Error, Incorrectly typed statement,
Code 1 2	
Code 1 2 4	Syntax Error. Incorrectly typed statement. NEXT statement without a FOR. READ statement without a DATA.
1 2 4 5	Syntax Error. Incorrectly typed statement. NEXT statement without a FOR. READ statement without a DATA. Array variable already exists.
1 2 4 5 6	Syntax Error. Incorrectly typed statement. NEXT statement without a FOR. READ statement without a DATA. Array variable already exists. Array specified without first DIMensioning it.
1 2 4 5 6 7	Syntax Error. Incorrectly typed statement. NEXT statement without a FOR. READ statement without a DATA. Array variable already exist. Array specified without first DIMensioning it. Illegal variable name.
1 2 4 5 6 7 8	Syntax Error. Incorrectly typed statement. NEXT statement without a FOR. READ statement without a DATA. Array variable already exists. Array specified without first DIMensioning it. Illegal variable name.
1 2 4 5 6 7	Syntax Error. Incorrectly typed statement. NEXT statement without a FOR. READ statement without a DATA. Array variable already exists. Array specified without first DIMensioning it. Illiegal variable name. DIMensioned array has more than two levels. Array subscript exceeds size of array specified
1 2 4 5 6 7 8 9	Syntax Error. Incorrectly typed statement. NEXT statement without a FOR. READ statement without a DATA. Array variable already exists. Array specified without first DIMensioning it. Illegal variable name. DIMensioned array has more than two levels. Array subscript exceeds size of array specified in DIM statement.
1 2 4 5 6 7 8 9 10	Syntax Error, Incorrectly typed statement, NEXT statement without a FOR, READ statement without a DATA. Array variable already exists, Array specified without first DIMensioning it, Iliegal variable name. More than the properties of the properties of Array subscript exceeds size of array specified in DIM statement.
1 2 4 5 6 7 8 9 10 11	Syntax Error. Incorrectly typed statement. NEXT statement without a FOR. READ statement without a DATA. Array variable already exists. Array specified without first DIMensioning it. Illegal variable name. DIMensioned array has more than two levels. Array subscript exceeds size of array specified in DIM statement. Out of memory. Program line does not exist.
1 2 4 5 6 7 8 9 10 11 12	Syntax Error, Incorrectly typed statement. NEXT statement without a FOR. READ statement without a FOR. Array variable already exists. Array specified without first DIMensioning it. Illegal variable name. DIMensioned array has more than two levels. DIMensioned array has more dan two levels. Out of memory. Program line does not exist. Incorrect format for PRINT USING statement.
1 2 4 5 6 7 8 9 10 11	Syntax Error. Incorrectly typed statement. NEXT statement without a FOR. READ statement without a DATA. Array variable already exists. Array specified without first DIMensioning it. Illegal variable name. DIMensioned array has more than two levels. Array subscript exceeds size of array specified in DIM statement. Out of memory. Program line does not exist.

Turn program trace on. Abbreviations: TR.

has been locked. Abbreviations: UN. UNL. UNLO.

Unlocks the PC-2 operation Mode after it

TROFF Turn program trace off,

TRIT.

Abbreviations: TROF

TROFF TROF.

TRON

UNLOC.

TIME DOM:

Code	Explanation	Code	Explanation
15	GOSUB nested to deeply and stack area has	44	Checksum error.
	been exceeded or the string buffer size has been	70	Pen has exceeded or reached the limit of the
	exceeded by the character strings while parsing	71	coordinate range (-2048, +2047).
	an expression. Specified value is greater than 1 E100 or less	/1	Paper has receded or reached the reverse line feed limit of 10.24 cm.
16	than -1 E-100 or the hexadecimal value is	72	Value given is inappropriate for the value of
	greater than 65535 decimal.	/2	TAB or LCURSOR.
	Data type is inappropriate for calculation	73	Wrong Printer Mode (GRAPH or TEXT) for
	expression.		command issued.
	Number of arguments is inappropriate for	74	Number of commas in LINE or RLINE is too
	expression.		large.
9	Specified numeric value is outside permitted	76	Results cannot be printed on a single line in
	range.		TEXT Mode with LPRINT.
@\$ when fixed memory array variables w	There is not a left parentheses following @ or	78	Pens are in the process of being changed or
		79	a low battery condition exists.
	specified.	80	Color signal has not been given. Low battery.
	Required variable is not in the expression.	177-	THE TAXABLE OF U.S. O. S. A. S. D. S. D. D. D. D. D. D. D. D. S. D. S. D. D. S. D.
22	There is not enough memory available to load the program that is loading.	181	Program has overwritten the data area.
	TIME is incorrectly typed in.	224-	Incorrect input data during the execution of an
	Command cannot be executed in the current	241	INPUT or AREAD command,
	mode.		
	There is not a program which corresponds to	CHECK	
	the specified label.	NEWO?	: CHECK6 Printer is not fully charged.
28	INPUT or AREAD statements have been used		
	as variables or a command has been inserted		
	within quotation marks.	A William Committee	
0	Line number is greater than 65535. Graphic cursor is between Columns 152-155		
32	during execution of input commands. The		
	input code cannot be displayed.		
4	Specified optional device is not attached.		
35	The optional device specified in the PRINT# or		
00	INPUT# expression is not consistent or the	One	erators
	specified optional device cannot handle input/	ope	latuis
	output commands according to the given		
	syntax.	R .	
6	Inappropriate PRINT USING format.	^	Exponentiation
37	Calculation results are greater than	-,+	Unary negative, positive

Order of Mathematical Operations

- 1. () Any values enclosed in parentheses will be evaluated first. 2. Retrieval of values from variables (PI, MEM, TIME,
- etc.) are considered. 3. Trigonometric functions (such as SIN, COS, TAN,
- etc.) will be evaluated next.
- Exponentiation (^) is evaluated next.
- 5. Logical Arithmetic operations (+, -) are performed
- Multiplication (*) and Division (/) are next.
- Addition and subtraction is then performed. 8. Comparison operators (<,>,=,>=,<=,<>) are
- 9. Logical operators (AND, OR, NOT) are the last to he evaluated

Operations of equal precedence are evaluated left to

decimal codes to generate the following graphic

The seven rows are divided into a lower group of three

rows and an upper group of four rows. Each group is

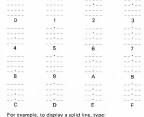
Because the lower group has only three rows, the range

Of the two hexadecimal digits required, the first digit

numbered, from top to bottom, by powers of two.

of allowable digits for this group will be from 0-7.

characters



SPRINT "ZE"

Graphic Characters WWW. Use GPRINT with the appropriate two-digit hexa-

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RADIO SHACK, A DIVISION OF TANDY CORPORATION

U.S.A. FORT WORTH, TEXAS 76102 CANADA BARRIE ONTARIO LAM AWS.

280 DE VICTORIA ESAS PARC NEXISTREL DE NAVINAL BUCTOR ROAD ATOMISE ETY STORE WERE MERE STORE STORE STORE BERTHAN

will represent the lower group and the second digit will upper group.

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RLINE (50,50)-(100,100),1,1,8

RMT switch Disables/enables remote switch, (REM 1

RND n Generates a pseudo-random number between

RMT DN

1 and n if n > 1, or between 0 and 1 if n = 0.

only.) Abbreviations: RM, OF, RMTOF, RM.O.

BMTO

RLINE-(200,200)

Abbreviations: RN.

Y=RND(100)

TIME=123014.3030 TIME

LPRINT TAB 6:7 LPRINT TAB 5: "PROGRAM"

TEXT Enters Printer TEXT Mode. Abbreviation:

Sets or returns the current time in 24-hour time,

10: TEXT

TAN n Computes tangent, Abbreviations: TA.

TEST Printer self-test. Abbreviation: TE, TES.

TIME month day hour · minutes seconds

Abbreviations: TI, TIM,

X = TAN Y

TEST

TEX.

TEXT

TIM.

nested too deeply and stack capacity has been exceeded.

the ROM area. Cassette file data is too large for memory. Data which is being verified with CLOAD? does not match file format.

9.99999999 E99

An illogical calculation has been attempted

Inappropriate specification for expression.

CSAVE and CLOAD have been specified for

Division by zero.

Unary negative, positive Multiplication, division +, -Addition and concatenation. subtraction <,=,>,<=,>=,<> Relational tests

NOT AND

OR

Note that the lower group must be specified before the

represent the upper group.