HEPAX Module

Quick Reference Card

File System Functions

Function	Description
HAPPCHR	Appends the characters in the
	ALPHA register at the end of the
	record at the pointer in the current
	HEPAX text file.
HAPPREC	Appends the contents of the ALPHA
	register as a new record at the end
	of the current HEPAX text file.
HARCLRC	Appends the record at the pointer in
	the current HEPAX text file to the
	ALPHA register.
HASROOM	Returns the number of characters
	left in a HEPAX text file.
HCLFL	Clears the contents of a HEPAX
	data or text file. The file is not
	deleted.
HCRFLAS	Creates a HEPAX text file.
HCRFLD	Creates a HEPAX data file.
HDELCHR	Deletes a number of characters from
	the current HEPAX text file, star-
	ting at the pointer.
HDELREC	Deletes the record at the pointer
	from the current HEPAX text file.
HEPDIR	Lists all files in the HEPAX file
	system.
HEPDIRX	Lists one file in the HEPAX file
	system.
HEPROOM	Returns the number of registers
	available in the HEPAX file system.
HFLSIZE	Returns the size of a HEPAX file.
HGETA	Recalls the contents of entire calcu-
	lator main memory from a HEPAX

"write-all" file.

	pointer in the current HEPAX text
	file.
HGETRX	Recalls the contents of a block of
	main memory data registers from a
	HEPAX data file.
HGETX	Recalls the contents of the X
	register from a HEPAX data file at
	the pointer.
HINSCHR	Inserts the characters in the ALPHA
	register at the pointer in the cur-
	rent HEPAX text file.
HINSREC	Inserts the contents of the ALPHA
	register as a new record before the
	record at the pointer in the current
	HEPAX text file.
HPOSFL	Returns the location of the first
	occurence of the string in the
	ALPHA register after the pointer in
	the current HEPAX text file.
HPURFL	Purges (deletes) a HEPAX file.
HRCLPT	Recalls the pointer(s) from the cur-
	rent HEPAX data or text file.
HRCLPTA	Recalls the pointer(s) from any
	HEPAX data or text file, or the file
	size of any other file type.
HREADFL	Read a HEPAX file from Mass
MENANE	Storage.
HRENAME	Renames a HEPAX file.
"HRESZFL"	FOCAL program that resizes data or
	text files. Program listing on page 30 in the Owner's Manual.
	30 in the Owner's Manual.

Recalls system key assignments from a HEPAX key assignment file.

memory data registers from a

Replaces the contents of the ALPHA

the record at the

Recalls the contents of all

HEPAX data file.

register with

HGETK

HGETR

HGETREC

HSAVEA	Saves the contents of entire calculator main memory in a HEPAX "write-all" file.
HSAVEK	Saves system key assignments in a HEPAX key assignment file.
HSAVEP	Saves a program in main memory in HEPAX memory.
HSAVER	Saves the contents of all main memory data registers in a HEPAX data file.
HSAVERX	Saves the contents of a block of main memory data registers in a HEPAX data file.
HSAVEX	Saves the contents of the X register in the current HEPAX data file.
HSEC	Secures a HEPAX file against accidental loss.
HSEKPT	Sets the pointer(s) in the current HEPAX data or text file.
HSEKPTA	Sets the pointer(s) in any HEPAX data or text file.
HUNSEC	Unsecures a HEPAX file.

The Extended Functions Multi-function

Storage.

Writes a HEPAX file to Mass

Makes a program in HEPAX private.

HWRTFI.

PRIVATE

To execute an Extended Functions Multi-function, execute the XF function and enter the multi-function number or execute the XFA function and press ALPHA, enter the multi-function name and press ALPHA.

Name ALENG	Number 000	Description Returns the length of the
7 IDDI (O	000	string in ALPHA.
ANUM	001	Converts the string in ALPHA to a numerical value in X.

AROT	002	Rotates contents of ALPHA.
ATOX	003	Converts a character in ALPHA to a character code
CLVEVE	004	in X.
CLKEYS CLRGX	004 005	Clears all key assignments.
CLRGA	003	Clears registers as specified by X.
GETKEY	006	Gets keycode depending on
-		key pressed.
GETKEYX	007	Gets keycode within time
		specified by X.
PASN	800	Programmable assignment.
PCLPS	009	Programmable clear programs.
POSA	010	Finds position of string or
		character in ALPHA.
PSIZE	011	Programmable SIZE.
RCLFLAG	012	Recalls the status of user
		flags 00-43.
REGMOVE	013	Moves a block of main mem-
		ory data registers.
REGSWAP	014	Swaps two blocks of main
_		memory data registers.
Σ REG?	015	Returns the location of the
		statistical registers.
SIZE?	016	Returns the current SIZE.
STOFLAG	017	Restores the status of user
	040	flags 00-43.
X <> F	018	Exchanges the status of user
	0.10	flags 0-7 with the X register.
XTOA	019	Convert character code in
		the X register to a character
	000	in the ALPHA register.
X = NN?	020	Compares X with indirect Y.
X≠NN?	021	Compares X with indirect Y.
X <nn?< td=""><td>022</td><td>Compares X with indirect Y.</td></nn?<>	022	Compares X with indirect Y.
X < = NN?	023	Compares X with indirect Y.
X>NN? X>=NN?	024 025	Compares X with indirect Y.
$\Lambda > = ININ!$	023	Compares X with indirect Y.

HEPAX Advanced Functions

Description

Clears a whole or part of a 4K

block of HEPAX memory.

Function

CLRAM

WRTROM

CODE	Codes the hexadecimal string in the
	ALPHA register and places result in
CODYDON	the X register.
COPYROM	Copies a whole or part of a 4K
	block of system memory to HEPAX
	RAM.
DECODE	Decodes the contents of the X
	register and places result in the
	ALPHA register.
DECODYX	Decodes a number of nybbles as
	DECODE.
DISASM	Disassembles HP-41 M-code.
"DISSST"	FOCAL program that disassembles
	HP-41 M-code line by line. Program
	listing on page 67 in the Owner's
	Manual.
HEXEDIT	Edits HEPAX memory word by word.
HPROMPT	Prompts for a number of hexadeci-
	mal digits.
"JUMP"	FOCAL program that calculates HP-
	41 M-code absolute jump instruc-
	tions. Program listing on page 127 in
	the Owner's Manual.
RAMTOG	Toggles write protection status of a
	ROM image.
READROM	Reads a number of ROM images from
	Mass Storage.

Writes a number of ROM images to

Mass Storage.

The HEPAX Multi-function

To execute a HEPAX multi-function, execute the HEPAX function and enter the multi-function number or execute the HEPAXA function and press ALPHA, enter the multi-function name and press ALPHA.

Name	Number	Function
AND	001	Logical X AND Y.
BCAT	002	Block catalog.
BCD-BIN	003	Converts number in X from
		BCD to binary.
BIN-BCD	004	Converts number in X from
		binary to BCD.
CTRAST	005	Sets display contrast
		("Halfnut" calculators only).
DELETE	006	Works like DELETE of the
		hexadecimal editor.
INSERT	007	Works like INSERT of the
		hexadecimal editor.
NOT	008	Complement of X.
OR	009	Logical X OR Y
ROTYX	010	Rotates Y register X nybbles.
SHIFTYX	011	Shifts Y register X bits.
XOR	012	Logical X exclusive-or Y
X + Y	013	Bitwise addition
X-\$	014	Converts X register to alpha
		string
Y-X	015	Ritwise subtraction



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