HP 82180A Extended Functions/Memory Module Quick Reference Card

While the HP 82180A Extended Functions/Memory Module is plugged into the calculator, the following functions are available for your use. This module also provides you with 127 registers of extended memory and enables you to utilize one or two HP 82181A Extended Memory Modules to increase the size of extended memory.

h = 1 --- -+1 = - f +1 = -+--!--

Extended Functions

ALENG	ALPHA register to the X-register.
ANUM	Searches the ALPHA register for an ALPHA-formatted number and returns the numerical value to the X-register. (The X-register is unaffected if there is no number in the ALPHA register.)
AROT	Rotates the contents of the ALPHA register by the number of characters indicated by the number in the X-register. Rotates left for positive numbers, right for negative.
ATOX	Moves leftmost character out of the ALPHA register and places its charac- ter code in the X-register. (Refer to back page, Displayable Characters and Their Corresponding Codes.)
CLKEYS	Clears all key assignments.
GETKEY	Halts program execution until either a key is pressed or approximately 10 seconds elapse. Puts keycode in X-register if key is pressed; puts zero in X-register if no key is pressed within the time period.

PASN

POSA

RCLFLAG

Assigns function or program name to specified key. Requires function or program name in the ALPHA register, keycode in the X-register.

PCLPS Clears program named in the ALPHA register (or current program if the ALPHA register is empty) and all programs that follow.

Scans the ALPHA register for the character or characters in the X-register. If the X-register contains a numeric character code, a single character is searched for. If the X-register contains ALPHA data, that string is searched for. Returns position of first character to the X-register, or -1 if no match is found. (Refer to back page, Displayable Characters and Their Corresponding Codes.)

PSIZE Allocates registers to data storage. Requires number of data registers in the X-register.

Recalls data representing the status of flags 00 through 43 to the X-register.

REGMOVE Copies *nnn* main memory registers in block starting at register *sss* to block starting at register *ddd*. Requires index in form *sss.dddnnn* in X-register.

REGSWAP Swaps *nnn* main memory registers beginning at register *sss* with *nnn* registers beginning at register *ddd*. Requires index in form *sss.dddnnn* in X-register.

SIZE? Returns the number of data storage registers in main memory to the X-register.

 STOFLAG
 Uses data in X-register from

 RCLFLAG to restore flags 00 through 43, or the flag data in Y-register to restore a block of flags specified by a number in the form bb.ee in the X-register.



XTOA

Exchanges the contents of the Xregister with the status of flags 0-7. Converts the character code in the X-register to the corresponding character and appends the character to the ALPHA register. (Refer to back page, Displayable Characters and Their Corresponding Codes.)

Extended Memory

APPCHR	Appends contents of the ALPHA				
	register at the end of the current record				
	in the working ASCII file.				
APPREC	Appends contents of the ALPHA				
	register to the working ASCII file as a				
	new record.				
ARCLREC	Appends a record or portion of a record				
	from the working file to the contents of				
	the ALPHA register. Stops when the				
	ALPHA register is full or when the end				
	of the record is reached.				
CLFL	Clears a data file or ASCII file.				
	Requires file name in the ALPHA				
	register.				
CRFLAS	Creates an ASCII file. Requires file				
	name in the ALPHA register and file				
	length (registers) in the X-register.				
CRFLD	Creates a data file. Requires file name				
	in the ALPHA register and file length				
	in the X-register.				
DELCHR	Deletes the number of characters				
	indicated by the X-register from the				
	current record, starting from the char-				
	acter pointer.				
DELREC	Deletes the current record in the				
	working ASCII file.				
EMDIR	Displays a list of the files in extended				
	memory and returns the number of				
	registers that remain unused.				

FLSIZE Returns the number of registers in a file. Requires file name in the ALPHA register.

- GETAS Copies an ASCII file from an HP-IL mass storage device to extended memory. Requires the source file name and (if different) the destination file name, in the ALPHA register.
- GETP Replaces the last program in main memory with the contents of the program file named in the ALPHA register.

GETRCopies an entire data file into main
memory, beginning with register 00.GETRECClears the ALPHA register and copies
up to 24 characters from the current
record in the working ASCII file to the
ALPHA register.

- GETRX Copies registers from the working data file to a block of main memory specified by a number in the form bbb.eee in the X-register.
- GETSUB Copies the program file named in the ALPHA register to the end of program storage in main memory.

GETX Copies the current register in the working data file to the X-register.

INSCHR

INSREC

PURFL

Inserts the contents of the ALPHA register into the current record ahead of the current character position.

Inserts the contents of the ALPHA register ahead of the current record as a new record.

POSFLScans the working ASCII file for a
match with the string in the ALPHA
register. Returns pointer index (*rrr.eee*)
to the X-register if a match is found,
-1 if no match is found.

Purges the file named in the ALPHA register.

RCLPT Recalls the pointer index from the working file to the X-register. The pointer index is in the form *rrr* (register number) for data files, *rrr.ccc* (record number and character position) for ASCII files, or *bbbb* (number of bytes) for length of program file.

- RCLPTA Recalls the pointer index or length of program from the file named in the ALPHA register to the X-register.
- SAVEAS Copies an ASCII file from extended memory to an HP-IL mass storage device. Requires the source file name and (if different) the destination file name in the ALPHA register.
- SAVEP Copies the program named in the ALPHA register to extended memory.
- SAVER Copies all the data registers in main memory to the data file named in the ALPHA register.
- SAVERX Copies the block of main memory data registers specified by the number in the X-register (*bbb.eee*) to the working data file, starting at the current pointer position.

SAVEX Copies the contents of the X-register to the working file at the current pointer position.

SEEKPT Positions the pointer or pointers in the working file using an index number in the X-register. Requires index in the form *rrr* (register number) for data files or *rrr.ccc* (record number and character position) for ASCII files.

SEEKPTA Positions the pointer or pointers in the file named in the ALPHA register using an index number in the X-register. Requires index in the form *rrr* (register number) for data files or *rrr.ccc* (record number and character position) for ASCII files.

Displayable Characters and Their Corresponding Codes

Char.	Code	Char.	Code	Char.	Code
-	0	3	51	N	78
¥	1	4	52	0	79
Y	4	5	53	Р	80
Ţ	5	6	54	Q	81
Ţ	6	7	55	R	82
μ	12	8	56	S	83
4	13	9	57	Т	84
≠	29	:	58	U	85
space	32	;	59	v	86
1	33	<	60	w	87
"	34	=	61	х	88
#	35	>	62	Y	89
\$	36	?	63	Z	90
%	37	@	64	[91
&	38	А	65	N	92
'	39	В	66]	93
(40	С	67	1	94
)	41	D	68	_	95
*	42	E	69	т	96
+	43	F	70	а	97
,	44	G	71	b	98
-	45	н	72	с	99
	46	1	73	d	100
1	47	J	74	е	101
0	48	к	75	Σ	126
1	49	L	76	<i>}</i> −	127
2	50	м	77		



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