



PERMANENT
MEMORANDUM

M-1127

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SUBJECT Program Format for PDP-1 Maintenance Programs
TO PDP Distribution List

ABSTRACT

This is a description of symbol standards and program format for PDP-1 Maintenance programs.

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The need for standization of symbols has arisen due to the large number of persons involved in writing maintenance and checkout programs. Therefore, the following symbols shall be used when writing small routines in FRAP language:

be (xx)	beginning of program
fi (xx)	end of program
eh (xx)	error halt
ph (xx)	program halt*
t (xx)	temporary storage
p (xx)	reference symbol
tb (xx)	beginning of table

*ph (xx) may be defined by fi (xx) if it is end of program.

The following format shall be used at the beginning and end of all diagnostic routines:

```
,name of test
,date
,name
bel      szs 10
        hlt
        ----
        ----
        ----          program
        ----
        ----
        ----
fil      szs 20
        jmp bel
        rpb
        dio c & 3
        spi *
        rpb
        0
        jmp fil
```

Sample program:

,Test for all lac dac idx and addl sas also uses jmp hlt
,9/15/61
,G.B. & S.L.

be2	szs 10
phl	hlt
	lac t1
	dac p2
	cla
	dac t3
	dac t4
	jmp p2
p1	idx t4
	lac t3
	add tb3 & 1
	dac t3
	sas t4
ehl	hlt
	sza *
	jmp p3
p2	sas
	jmp p1
	idx p2
	jmp p1
t3	0
t4	0
tb3	0
	1
	3
	7
	17
	37
	77
	177
	377
	777
	1777
	3777
	7777
	17777
	37777
	77777
	177777
	377777
	777777

```
t1      sas tb3
t2      sas tb3 & 21
p3      lac p2
        sas t2
        hlt
fi2     szs 20
        jmp be2
        rpb
        dio  $\phi$  & 3
        spi *
        rpb
        0
        jmp fi2

end .
```