

Mnemonic	Code	Function	Time (μsec.)
The following instructions are used in the PDP-8 mode.			
<b>BASIC INSTRUCTIONS</b>			
AND	0000	Logical AND	3.2
TAD	1000	2's complement add	3.2
ISZ	2000	increment and skip if zero	3.2
DCA	3000	deposit and clear AC	3.2
DMS	4000	jump to subroutine	3.2
JMP	5000	jump	1.6
IOT	6000	in/out transfer	4.25
OPR	7000	operate	1.6

**GROUP 1 OPERATE MICROINSTRUCTIONS**

NOP	7000	no operation	1.6
IAC	7001	increment AC	1.6
RAL	7004	rotate AC and link left one	1.6
RTL	7006	rotate AC and link left two	1.6
RAR	7010	rotate AC and link right one	1.6
RTR	7012	rotate AC and link right two	1.6
CML	7020	complement link	1.6
CMA	7040	complement AC	1.6
CLL	7100	clear link	1.6
CLA	7200	clear AC	1.6

**GROUP 2 OPERATE MICROINSTRUCTIONS**

HLT	7402	halts the program	1.6
OSR	7404	inclusive OR, switch register with AC	1.6
SKP	7410	skip unconditionally	1.6
SNL	7420	skip on non-zero link	1.6
SZL	7430	skip on zero link	1.6
SZA	7440	skip on zero AC	1.6
SNA	7450	skip on non-zero AC	1.6
SMA	7500	skip on minus AC	1.6
SPA	7510	skip on plus AC	1.6
CLA	7600	clear AC	1.6

Mnemonic	Code	Function	Time (μsec.)
<b>COMBINED OPERATE MICROINSTRUCTIONS</b>			
CIA	7041	complement and increment AC	1.6
LAS	7604	load AC with switch register	
STL	7120	set link (to 1)	
GLK	7204	get link (put link in AC bit 11)	
CLA	CLL 7300	clear AC and link	
CLA	IAC 7201	set AC = 1	
CLA	CMA 7240	set AC = -1	
CLL	RAR 7110	shift positive number one right	
CLL	RAL 7104	shift positive number one left	
CLL	RTL 7106	clear link, rotate 2 left	
CLL	RTR 7112	clear link, rotate 2 right	
SZA	CLA 7640	skip if AC = 0, then clear AC	
SZA	SNL 7460	skip if AC = 0 or link is 1, or both	
SNA	CLA 7650	skip if AC ≠ 0, then clear AC	
SMA	CLA 7700	skip if AC > 0, then clear AC	
SMA	SZA 7540	skip if AC < 0	
SMA	SNL 7520	skip if AC > 0 or link is 1, or both	
SPA	SNA 7550	skip if AC < 0	
SPA	SZL 7530	skip if AC < 0, and if the link is 0	
SPA	CLA 7710	skip if AC > 0, then clear AC	
SNA	SZL 7470	skip if AC > 0 and link = 0	

**TTY KYBD/READER**

KSF	6031	skip if flag is set
KCC	6032	clear AC and flag
KRS	6034	KYBD/reader buffer → AC
KRB	6036	clear AC, KYBD/reader buffer → AC, clear flag

**TTY PRINTER/PUNCH**

TSF	6041	skip if flag is set
TCF	6042	clear flag
TPC	6044	AC → printer/punch buffer, print
TLS	6046	AC → printer/punch buffer, print, clear flag

**RANDOM ACCESS DISC FILE TYPE DF32**

**DCMA	6601	clear disk memory address register, & disc flags	4.25 if executed from 8-mode. 5.9 if executed from LINC-mode.
**DMAR	6603	load disk memory address register & read	
**DMAW	6605	load disk memory address register and write	
**DCEA	6611	clear disk extended address register and memory address extension	
**DSAC	6612	skip on address confirmed flag	
**DEAL	6615	load disk extended address and memory address extension	
**DEAC	6616	read disk extended address register	
**DFSE	6621	skip on zero error flag	
**DFSC	6622	skip on data completion flag	
**DMAC	6626	read disk memory address register	