

PDP-6 instructions

	--0	--1	--2	--3	--4	--5	--6	--7
00-								
01-								
02-								
03-								
04-	CALL	INIT						
05-								
06-	SETSTS	STATO	GETSTS	STATZ	INBUF	OUTBUF	INPUT	OUTPUT
07-	CLOSE	RELEAS	MTAPE	UGETF	USETI	USETO	LOOKUP	ENTER
10-								
11-								
12-								
13-			FSC	IBP	ILDB	LDB	IDPB	DPB
14-	FAD	-L	-M	-B	FADR	-L	-M	-B
15-	FSB	-L	-M	-B	FSBR	-L	-M	-B
16-	FMP	-L	-M	-B	FMPR	-L	-M	-B
17-	FDV	-L	-M	-B	FDVR	-L	-M	-B
20-	MOVE	-I	-M	-S	MOVS	-I	-M	-S
21-	MOVN	-I	-M	-S	MOVNM	-I	-M	-S
22-	IMUL	-I	-M	-B	MUL	-I	-M	-B
23-	IDIV	-I	-M	-B	DIV	-I	-M	-B
24-	ASH	ROT	LSH		ASHC	ROTC	LSHC	
25-	EXCH	BLT	AOBJP	AOBNJ	JRST	JFCL	XCT	
26-	PUSHJ	PUSH	POP	POPJ	JSR	JSP	JSA	JRA
27-	ADD	-I	-M	-B	SUB	-I	-M	-B
30-	CAI	-L	-E	-LE	-A	-GE	-N	-G
31-	CAM	-L	-E	-LE	-A	-GE	-N	-G
32-	JUMP	-L	-E	-LE	-A	-GE	-N	-G
33-	SKIP	-L	-E	-LE	-A	-GE	-N	-G
34-	AOJ	-L	-E	-LE	-A	-GE	-N	-G
35-	AOS	-L	-E	-LE	-A	-GE	-N	-G
36-	SOJ	-L	-E	-LE	-A	-GE	-N	-G
37-	SOS	-L	-E	-LE	-A	-GE	-N	-G
40-	SETZ	-I	-M	-B	AND	-I	-M	-B
41-	ANDCA	-I	-M	-B	SETM	-I	-M	-B
42-	ANDCM	-I	-M	-B	SETA	-I	-M	-B
43-	XOR	-I	-M	-B	IOR	-I	-M	-B
44-	ANDCB	-I	-M	-B	EQV	-I	-M	-B
45-	SETCA	-I	-M	-B	ORCA	-I	-M	-B
46-	SETCM	-I	-M	-B	ORCM	-I	-M	-B
47-	ORCB	-I	-M	-B	SETO	-I	-M	-B
50-	HLL	-I	-M	-S	HRL	-I	-M	-S
51-	HLLZ	-I	-M	-S	HRLZ	-I	-M	-S
52-	HLL0	-I	-M	-S	HRLO	-I	-M	-S
53-	HLL1	-I	-M	-S	HRLE	-I	-M	-S
54-	HRR	-I	-M	-S	HLR	-I	-M	-S
55-	HRRZ	-I	-M	-S	HLRZ	-I	-M	-S
56-	HRRO	-I	-M	-S	HLRO	-I	-M	-S
57-	HRRE	-I	-M	-S	HLRE	-I	-M	-S
60-	TRN	TLN	TRNE	TLNE	TRNA	TLNA	TRNN	TLNN
61-	TDN	TSN	TDNE	TSNE	TDNA	TSNA	TDNN	TSNN
62-	TRZ	TLZ	TRZE	TLZE	TRZA	TLZA	TRZN	TLZN
63-	TDZ	TSZ	TDZE	TSZE	TDZA	TSZA	TDZN	TSZN
64-	TRC	TLC	TRCE	TLCE	TRCA	TLCA	TRCN	TLCN
65-	TDC	TSC	TDCE	TSCE	TDCA	TSCA	TDCN	TSCN
66-	TRO	TLO	TROE	TLOE	TROA	TLOA	TRON	TLON
67-	TDO	TSO	TDOE	TSOE	TDOA	TSOA	TDON	TSON

7- INPUT - OUTPUT INSTRUCTIONS

- 7- --00--BLKI the device number is inserted in bits 3 to 9
- 7- --04--DATAI of each I/O instruction.
- 7- --10--BLKO
- 7- --14--DATAO
- 7- --20--CONO
- 7- --24--CONI
- 7- --30--CONSZ
- 7- --34--CONSO

KA10 instructions

	--0	--1	--2	--3	--4	--5	--6	--7
00-	(ILLEGAL)							
01-								
02-								
03-								
04-	CALL	INIT						
05-	OPEN	TTCALL						
06-	SETSTS	STATO	GETSTS	STATZ	INBUF	OUTBUF	IN	CALLI
07-	CLOSE	RELEAS	MTAPE	UGETF	USETI	USETO	INPUT	OUT
							LOOKUP	OUTPUT
								ENTER
10-	UJEN							
11-								
12-								
13-	UFA	DFN	FSC	IBP	ILDB	LDB	IDPB	DPB
14-	FAD	-L	-M	-B	FADR	-I	-M	-B
15-	FSB	-L	-M	-B	FSBR	-I	-M	-B
16-	FMP	-L	-M	-B	FMPR	-I	-M	-B
17-	FDV	-L	-M	-B	FDVR	-I	-M	-B
20-	MOVE	-I	-M	-S	MOVS	-I	-M	-S
21-	MOVN	-I	-M	-S	MOVNM	-I	-M	-S
22-	IMUL	-I	-M	-B	MUL	-I	-M	-B
23-	IDIV	-I	-M	-B	DIV	-I	-M	-B
24-	ASH	ROT	LSH	JFFO	ASHC	ROTC	LSHC	
25-	EXCH	BLT	AOBJP	AOBNJ	JRST	JFCL	XCT	
26-	PUSHJ	PUSH	POP	POPJ	JSR	JSP	JSA	JRA
27-	ADD	-I	-M	-B	SUB	-I	-M	-B
30-	CAI	-L	-E	-LE	-A	-GE	-N	-G
31-	CAM	-L	-E	-LE	-A	-GE	-N	-G
32-	JUMP	-L	-E	-LE	-A	-GE	-N	-G
33-	SKIP	-L	-E	-LE	-A	-GE	-N	-G
34-	AOJ	-L	-E	-LE	-A	-GE	-N	-G
35-	AOS	-L	-E	-LE	-A	-GE	-N	-G
36-	SOJ	-L	-E	-LE	-A	-GE	-N	-G
37-	SOS	-L	-E	-LE	-A	-GE	-N	-G
40-	SETZ	-I	-M	-B	AND	-I	-M	-B
41-	ANDCA	-I	-M	-B	SETM	-I	-M	-B
42-	ANDCM	-I	-M	-B	SETA	-I	-M	-B
43-	XOR	-I	-M	-B	IOR	-I	-M	-B
44-	ANDCB	-I	-M	-B	EQV	-I	-M	-B
45-	SETCA	-I	-M	-B	ORCA	-I	-M	-B
46-	SETCM	-I	-M	-B	ORCM	-I	-M	-B
47-	ORCB	-I	-M	-B	SETO	-I	-M	-B
50-	HLL	-I	-M	-S	HRL	-I	-M	-S
51-	HLLZ	-I	-M	-S	HRLZ	-I	-M	-S
52-	HLL0	-I	-M	-S	HRLO	-I	-M	-S
53-	HLL1	-I	-M	-S	HRLE	-I	-M	-S
54-	HRR	-I	-M	-S	HLR	-I	-M	-S
55-	HRRZ	-I	-M	-S	HLRZ	-I	-M	-S
56-	HRRO	-I	-M	-S	HLRO	-I	-M	-S
57-	HRRE	-I	-M	-S	HLRE	-I	-M	-S
60-	TRN	TLN	TRNE	TLNE	TRNA	TLNA	TRNN	TLNN
61-	TDN	TSN	TDNE	TSNE	TDNA	TSNA	TDNN	TSNN
62-	TRZ	TLZ	TRZE	TLZE	TRZA	TLZA	TRZN	TLZN
63-	TDZ	TSZ	TDZE	TSZE	TDZA	TSZA	TDZN	TSZN
64-	TRC	TLC	TRCE	TLCE	TRCA	TLCA	TRCN	TLCN
65-	TDC	TSC	TDCE	TSCE	TDCA	TSCA	TDCN	TSCN
66-	TRO	TLO	TROE	TLOE	TROA	TLOA	TRON	TLON
67-	TDO	TDOE	TDOE	TDOE	TDOA	TDOA	TDON	TSON

7- INPUT - OUTPUT INSTRUCTIONS

- 7- --00--BLKI the device number is inserted in bits 3 to 9
- 7- --04--DATAI of each I/O instruction.
- 7- --10--BLKO
- 7- --14--DATAO
- 7- --20--CONO
- 7- --24--CONI
- 7- --30--CONSZ
- 7- --34--CONSO

KL10 instructions

	--0	--1	--2	--3	--4	--5	--6	--7
00-	(ILLEGAL)							
01-								
02-	USER DEFINED UO _s							
03-	(UNIMPLEMENTED USER OPERATIONS)							
00-		[CMPSL]	[CMPSE]	[CMPSLE]	[EDIT]	[CMPSGE]	[CMPSN]	[CMPSG]
01-	[CVTDBO]	[CVTDBT]	[DVTBDO]	[CVTDBT]	[MOVSO]	[MOVST]	[MOVSLJ]	[MOVSRJ]
02-	[XBLT]	[GSNGL]	[GDBLE]	[GDFIX]	[GFIX]	[GDFIXR]	[GFIXR]	[DGFLTR]
03-	[GFLTR]	[GFSC]						
04-	CALL	INIT	LEFT FOR SPECIAL MONITORS					CALLI
05-	OPEN	TTCALL	RESERVED FOR DEC		RENAME	IN	OUT	
06-	SETSTS	STATO	GETSTS	STATZ	INBUF	OUTBUF	INPUT	OUTPUT
07-	CLOSE	RELEAS	MTAPE	UGETF	USETI	USETO	LOOKUP	ENTER
10-	UJEN		[GFAD]	[GFSB]		ADJSP	[GFMP]	[GFDV]
11-	DFAD	DFSB	DFMP	DFDV	DADD	DSUB	DMUL	DDIV
12-	DMOVE	DMOVN	FIX	EXTEND	DMOVEM	DMOVNM	FIXR	FLTR
13-	UFA	DFN	FSC	IBP/ADJBP	ILDB	LDB	IDPB	DPB
14-	FAD	-L	-M	-B	FADR	-I	-M	-B
15-	FSB	-L	-M	-B	FSBR	-I	-M	-B
16-	FMP	-L	-M	-B	FMPR	-I	-M	-B
17-	FDV	-L	-M	-B	FDVR	-I	-M	-B
20-	MOVE	-I	-M	-S	MOVS	-I	-M	-S
21-	MOVN	-I	-M	-S	MOVNM	-I	-M	-S
22-	IMUL	-I	-M	-B	MUL	-I	-M	-B
23-	IDIV	-I	-M	-B	DIV	-I	-M	-B
24-	ASH	ROT	LSH	JFFO	ASHC	ROTC	LSHC	
25-	EXCH	BLT	AOBJP	AOBJN	JRST	JFCL	XCT	MAP
26-	PUSHJ	PUSH	POP	POPJ	JSR	JSP	JSA	JRA
27-	ADD	-I	-M	-B	SUB	-I	-M	-B
30-	CAI	-L	-E	-LE	-A	-GE	-N	-G
31-	CAM	-L	-E	-LE	-A	-GE	-N	-G
32-	JUMP	-L	-E	-LE	-A	-GE	-N	-G
33-	SKIP	-L	-E	-LE	-A	-GE	-N	-G
34-	AOJ	-L	-E	-LE	-A	-GE	-N	-G
35-	AOS	-L	-E	-LE	-A	-GE	-N	-G
36-	SOJ	-L	-E	-LE	-A	-GE	-N	-G
37-	SOS	-L	-E	-LE	-A	-GE	-N	-G
40-	SETZ	-I	-M	-B	AND	-I	-M	-B
41-	ANDCA	-I	-M	-B	SETM	-I/XMOVEI	-M	-B
42-	ANDCM	-I	-M	-B	SETA	-I	-M	-B
43-	XOR	-I	-M	-B	IOR	-I	-M	-B
44-	ANDCB	-I	-M	-B	EQV	-I	-M	-B
45-	SETCA	-I	-M	-B	ORCA	-I	-M	-B
46-	SETCM	-I	-M	-B	ORCM	-I	-M	-B
47-	ORCB	-I	-M	-B	SETO	-I	-M	-B
50-	HLL	(X)-I	-M	-S	HRL	-I	-M	-S
51-	HLLZ	-I	-M	-S	HRLZ	-I	-M	-S
52-	HLL0	-I	-M	-S	HRLO	-I	-M	-S
53-	HLL0	-I	-M	-S	HRLE	-I	-M	-S
54-	HRR	-I	-M	-S	HLR	-I	-M	-S
55-	HRRZ	-I	-M	-S	HLRZ	-I	-M	-S
56-	HRRO	-I	-M	-S	HLRO	-I	-M	-S
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66-	TRO	TLO	TROE	TLOE	TROA	TLOA	TRON	TLON
67-	TDO	TSO	TDOE	TSOE	TDOA	TSOA	TDON	TSON
7-	INPUT - OUTPUT INSTRUCTIONS							
	7--00—BLKI		7--04—DATAI		the device number is inserted in bits 3 to 9			
	7--10—BLKO		7--14—DATAO		of each I/O instruction.			
	7--20—CONO		7--24—CONI		7--30—CONSZ		7--34—CONSO	