

PDP-6 summary

UUO

0	0	0	X					
0	1	2	3	4	5	6	7	8

FSC AND BYTE

0	0	1	0	1	1	OP		
0	1	2	3	4	5	6	7	8

OP: 2/FSC, 3/IBP, 4/ILDB, 5/LDB, 6/IDPB, 7/DPB

FLOAT

0	0	1	1	OP		R	M2	
0	1	2	3	4	5	6	7	8

OP: 00/FAD, 01/FSB, 10/FMP, 11/FDV

R: 0/—, 1/ROUND

FULL WORD TRANSFER

0	1	0	0	0	OP		M3	
0	1	2	3	4	5	6	7	8

OP: 00/MOVE, 01/MOVS, 10/MOVN, 11/MOVM

MULTIPLY/DIVIDE

0	1	0	0	1	DV	FX	M1	
0	1	2	3	4	5	6	7	8

DV: 0/MUL, 1/DIV

FX: 0/INTEGER, 1/FIXED POINT

SHIFT/ROTATE

0	1	0	1	0	0	C	OP	
0	1	2	3	4	5	6	7	8

C: 0/SINGLE AC, 1/COMBINED

OP: 00/ASH, 01/ROT, 10/LSH

MISC

0	1	0	1	0	1	OP		
0	1	2	3	4	5	6	7	8

OP: 0/EXCH, 1/BLT, 2/AOBJP, 3/AOBNJ

4/JRST, 5/JFCL, 6/XCT

STACK AND SUBROUTINES

0	1	0	1	1	0	OP		
0	1	2	3	4	5	6	7	8

OP: 0/PUSHJ, 1/PUSH, 2/POP, 3/POPJ

4/JSR, 5/JSP, 6/JSA, 7/JRA

ADD/SUBTRACT

0	1	0	1	1	1	SB	M1	
0	1	2	3	4	5	6	7	8

SB: 0/ADD, 1/SUBTRACT

ARITHMETIC TESTING AND MODIFICATION

0	1	1	OP		M	N	E	L
0	1	2	3	4	5	6	7	8

OP: 0/ACCP, 1/MEMAC, 2/MEMAC+1, 3/MEMAC-1

M: 0/NO MEM; CAI-JUMP, 1/MEM; CAM-SKIP

N: NEGATE CONDITION

E: SKIP/JUMP IF EQUAL TO ZERO

L: SKIP/JUMP IF LESS THAN ZERO

BOOLEAN

1	0	0	T				M1	
0	1	2	3	4	5	6	7	8

T: TRUTH TABLE

HALF WORD TRANSFER

1	0	1	R	OH	S	M3		
0	1	2	3	4	5	6	7	8

R: DST: 0/LEFT, 1/RIGHT

OH: OTHER HALF: 00/—, 01/ZERO, 10/ONE, 11/S.EXT

S: SWAP SRC

LOGICAL TESTING AND MODIFICATION

1	1	0	X	D	N	E	S	
0	1	2	3	4	5	6	7	8

X: MASKED BITS: 00/—, 01/ZERO, 10/COMP, 11/ONE

D: 0/IMMEDIATE, 1/DIRECT

N: NEGATE CONDITION

E: SKIP IF EQUAL TO ZERO

S: SWAP SRC

IO TRANSFER

1	1	1	DEV							OP		
0	1	2	3	4	5	6	7	8	9	10	11	12

OP: 000/BLKI, 001/DATAI, 010/BLKO, 011/DATAO

100/CONO, 101/CONI, 110/CONSZ, 111/CONSO

M1: 00/TO AC

01/IMM, TO AC

10/TO MEM

11/TO BOTH

M2: 00/TO AC

01/TO AC, AC+1

10/TO MEM

11/TO BOTH

M3: 00/MEM TO AC

01/IMM TO AC

10/AC TO MEM

11/MEM TO MEM