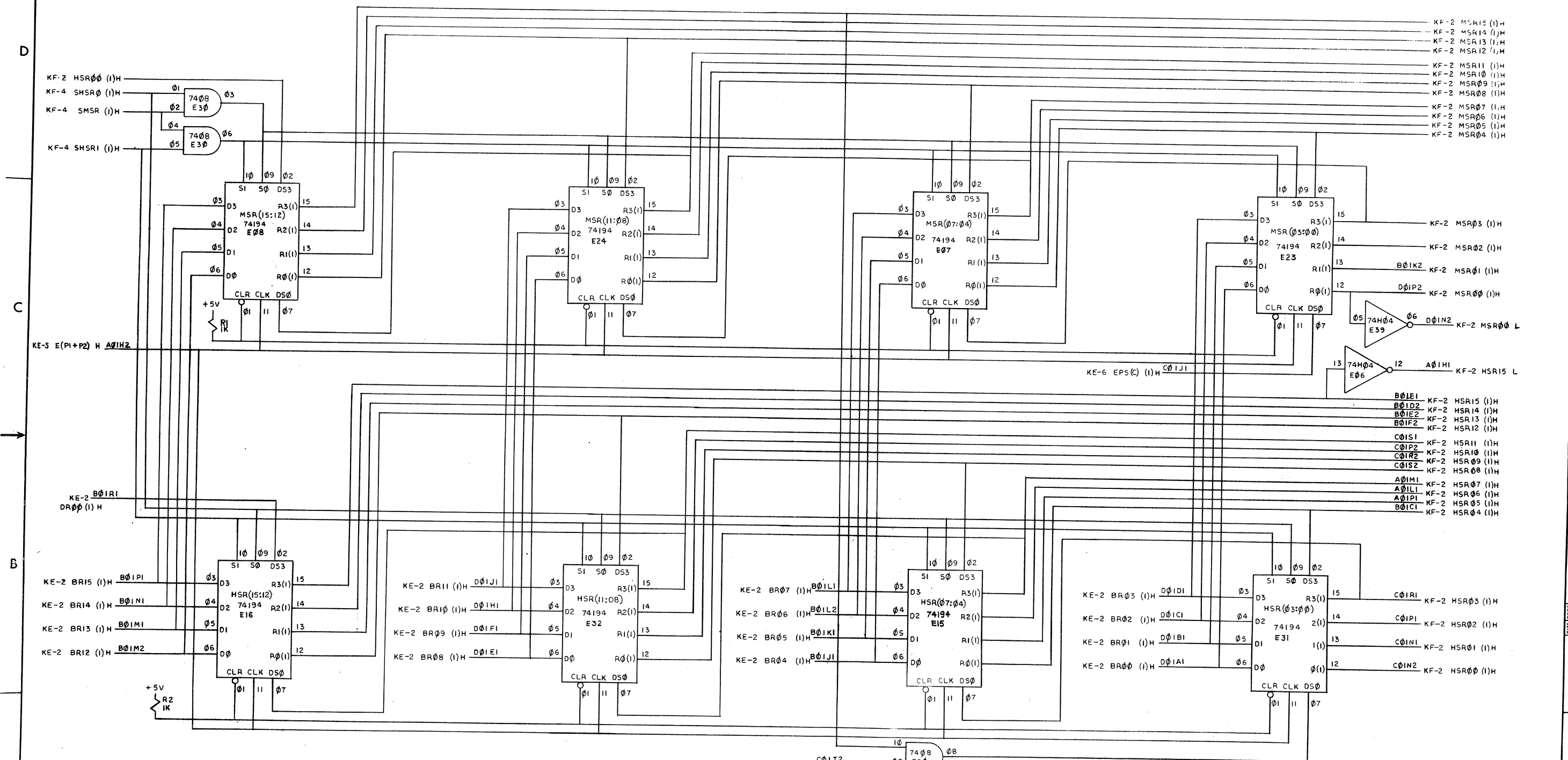


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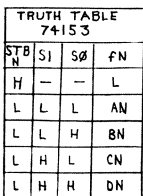


TRUTH TABLE 74194		
SI	S0	FUNCTION
L	L	NO OP
L	H	SHF RIGHT
H	L	SHF LEFT
H	H	LOAD

FIRST USED ON OPTION/MODEL K011-A	QTY.	DESCRIPTION	PART NO.	ITEM NO.
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES				
DECIMALS	ANGLES	PARTS LIST		
XXX = .005	±0° 30'	digital EQUIPMENT CORPORATION MAYNARD MASSACHUSETTS		
XX = .02		TITLE FIS		
X = .1		DATE 4-8-72		
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY		DATE 8-17-72		
MATERIAL		DATE 8-17-72		
NEXT HIGHER ASSY.		HSR & MSR		
KE11-F		KF-2		
SCALE		SIZE CODE D CS		
SHEET 2 OF 12		NUMBER M7239-0-1		
		REV. B		

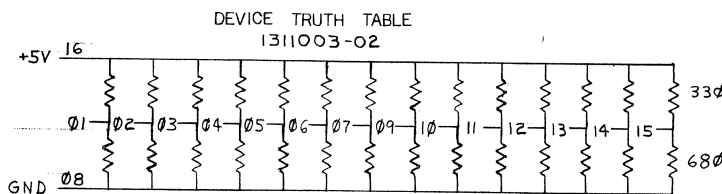
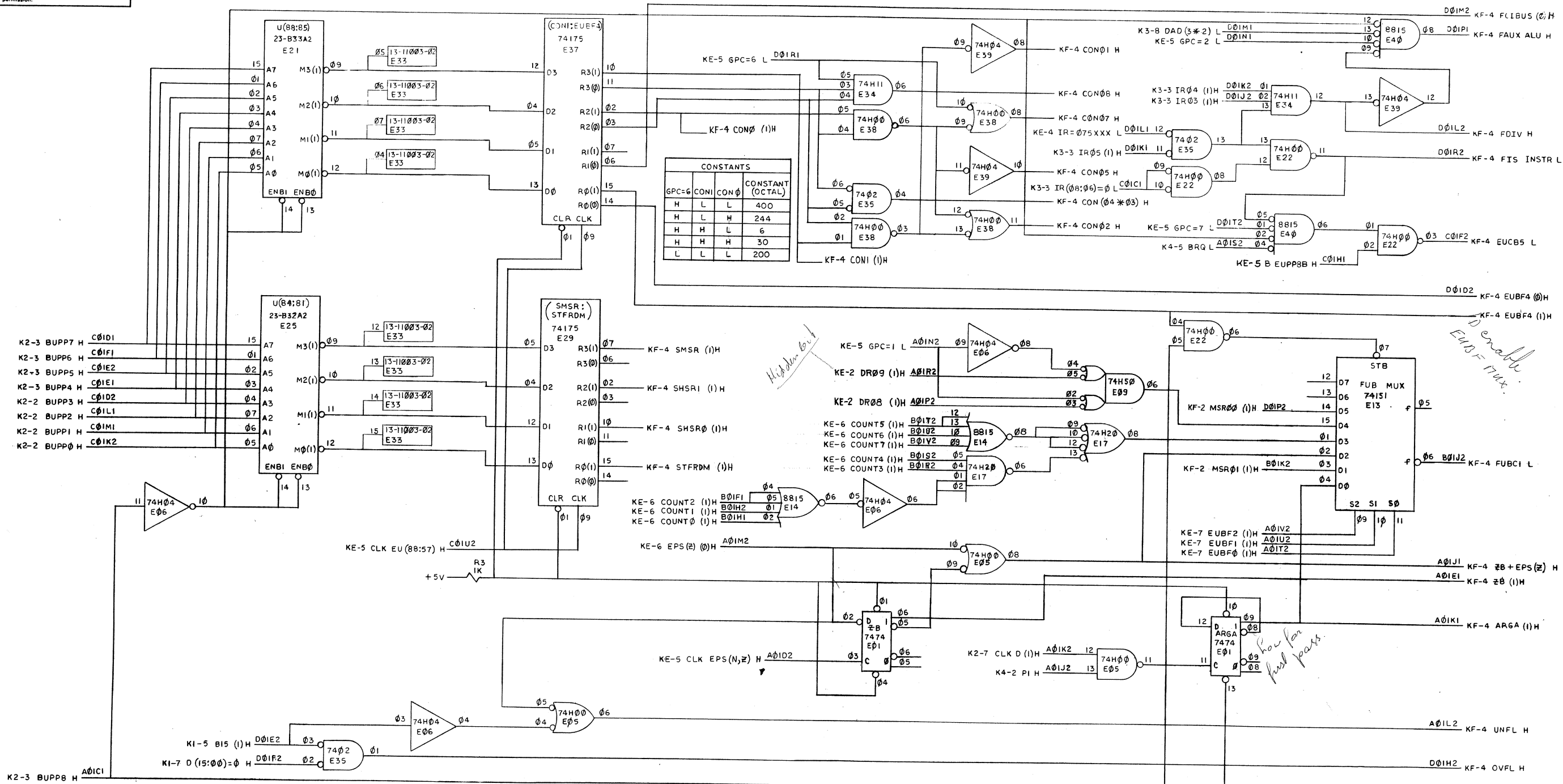
BRUNING 40-522 19840
DEC FORM NO
ORD 102-B

REV	CHANGE NO



A	BRUNING 40-522 13840	
	REVISIONS	
	CHK	CHANGE NO. REV.
DEC FORM NO.		
DRD 102-B		

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FUBC BUT CHART									
EUBC (4:1)									
STB	S2	S1	S0	FN	BUT (FUBC1)				
H	—	—	—	L	—				
L	L	L	L	D0	ARGA				
L	L	L	H	D1	MSR01				
L	L	H	L	D2	ZB+EPS(Z)				
L	L	H	H	D3	COUNT > 30				
L	H	L	L	D4	NORMALIZED				
L	H	L	H	D5	MSR00				
L	H	H	L	D6	—				
L	H	H	H	D7	—				

FIRST USED ON OPTION/MODEL		QTY.	DESCRIPTION	PART NO.	ITEM NO.
K011-A					
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES. TOLERANCES		DATE	PARTS LIST		
DECIMALS		DATE	digital EQUIPMENT CORPORATION		
ANGLES		DATE	MAYNARD MASSACHUSETTS		
XXX - .005		DATE	TITLE		
.XX - .02		DATE	FIS		
.X - .1		DATE	ROM & CONTROL		
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY		DATE	K011-F		
MATERIAL		DATE	SIZE CODE		
FINISH		DATE	NUMBER		
		DATE	REV.		
		DATE	B		

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FLOWS STATE		ADR	CLK	CIR	WR	CB	CD	CBA	BUS	DAD	SPS	ALU	SBC	SBM	SDM	SBA	UBF	SRX	RIF	UPF
E3	MUL7	000	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	00 204
E3	MUL19	001	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	00 133
E3	MUL2	002	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	00 015
E3	MUL4	003	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	01	12 075
F5	FDV1	004	2	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	01	15 006
E3	MUL16	005	4	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	00 011
F5	FDV2	006	6	0	0	1	1	0	0	10	0	06	00	00	2	0	0	0	01	14 160
E3	MUL12	007	4	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	00 016
E3	MUL15	010	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	00 177
E3	MUL18	011	2	0	3	0	0	0	0	0	0	0	0	0	2	0	0	0	11	01 177
E3	MUL14	012	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	00 177
E3	MUL17	013	2	0	3	0	0	0	0	0	0	0	0	0	2	0	0	0	11	01 177
E3	MUL1	014	4	0	0	0	0	1	0	0	10	0	06	00	0	0	0	0	0	00 000
E3	MUL3	015	4	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	10	00 001
E3	MUL13	016	2	0	3	0	0	0	0	0	0	0	0	0	2	0	0	0	11	01 010
F3	ADD23	017	6	0	3	0	1	0	0	0	0	14	00	00	2	0	0	0	01	11 361
E4	DIV20	020	2	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	00 070
E5	DIV23	021	4	0	0	0	1	0	0	0	0	20	00	00	0	0	0	0	11	01 076
E4	DIV4	022	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	00 071
E5	DIV33	023	4	0	0	0	1	0	0	0	0	20	00	00	0	0	0	0	0	00 177
E4	DIV13	024	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	00 103
E5	DIV27	025	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	00 147
E4	DIV7	026	2	0	0	1	0	0	0	0	0	11	00	00	0	0	0	0	0	00 101
E5	DIV31	027	4	0	0	0	1	0	0	10	0	06	00	00	0	0	0	0	0	00 057
E2	ASH2	030	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	00 103
E4	DIV16	031	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	00 177
F5	FDV21	032	2	0	0	1	0	0	14	0	0	0	0	0	2	0	0	0	0	00 065
E4	DIV11	033	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	01	11 372
E2	ASH5	034	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	00 037
E4	DIV19	035	6	0	0	0	0	1	0	0	14	0	0	0	2	0	0	0	0	00 123
E2	ASH3	036	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	00 153
E4	DIV12	037	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	00 063

NOTE:

THE COMPLEMENT OF THE ACTUAL
ROM OUTPUT FOR THE UPF, WR,
SPS (HIGH 2 BITS), BUS (LOW BIT),
AND CLK (LOW BIT) FIELD IS
LISTED FOR CLARITY.

FLOWS STATE ADR CON FC1 FUB MHR FRD ERD SRD SDR CVM NZM CCC GPC CEE CNT EUB CBR

E3	MUL7	000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
E3	MUL19	001	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	1	00	1
E3	MUL2	002	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	01	1
E3	MUL4	003	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	01	1
F5	FDV1	004	0	0	0	0	0	0	0	0	0	2	4	0	0	0	0	0	14	0
E3	MUL16	005	0	0	0	0	0	1	0	1	0	0	1	0	0	0	0	0	0	0
F5	FDV2	006	0	0	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0
E3	MUL12	007	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	04	0
E3	MUL15	010	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0
E3	MUL18	011	0	0	0	0	0	0	0	0	0	3	4	0	0	0	0	0	0	0
E3	MUL14	012	0	0	0	0	0	0	0	0	5	0	1	0	0	0	0	0	0	0
E3	MUL17	013	0	0	0	0	0	0	0	0	5	2	5	0	0	0	0	0	0	0
E3	MUL1	014	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
E3	MUL3	015	0	0	0	0	0	0	0	0	5	0	1	0	0	0	0	0	0	0
E3	MUL13	016	0	0	0	0	0	0	0	0	2	3	6	0	0	0	0	0	0	0
F3	ADD23	017	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0
E4	DIV20	020	0	0	0	0	0	0	0	0	0	3	4	0	0	0	0	0	0	0
E5	DIV23	021	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
E4	DIV4	022	0	0	0	0	0	0	0	0	1	7	0	0	0	0	0	0	0	0
E5	DIV33	023	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
E4	DIV13	024	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
E5	DIV27	025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
E4	DIV7	026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
E5	DIV31	027	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
E2	ASH2	030	0	0	0	0	0	0	0	0	5	2	7	0	0	0	0	0	0	0
E4	DIV16	031	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
F5	FDV21	032	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
E4	DIV11	033	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
E2	ASH5	034	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
E4	DIV19	035	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
E2	ASH3	036	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
E4	DIV12	037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

REVISIONS		CHK
CHANGE NO.	REV.	

DRN	DATE	CHKD.	DATE	ENG.	DATE	PROJ. ENGR.	DATE	GRD.	DATE
<i>G. Endlicher</i>	8-16-72	<i>G. Endlicher</i>	8-12-72	<i>G. Endlicher</i>	8-12-72	<i>G. Endlicher</i>	8-12-72	<i>G. Endlicher</i>	8-12-72
SHEET 5 OF 19									

digital EQUIPMENT CORPORATION WAYNARD, MASSACHUSETTS	
TITLE FIS BOARD	
(ADRS 000-037)	
SIZE CODE C CS	NUMBER M7239-011
REV. B	

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FLOWS STATE		ADR	CLK	CIR	WR	CB	CD	CBA	BUS	DAD	SPS	ALU	SBC	SBM	SDM	SBA	UBF	SRX	RIF	UPF
E2	ASH9	040	4	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	11	01 030
F4	FML4	041	2	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	00	00 150
F5	FDV23	042	2	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	01	13 211
F4	FML3	043	6	0	3	1	1	0	0	0	0	23	00	00	0	2	0	0	01	15 176
E2	ASH16	044	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	00	00 243
E5	DIV25	045	6	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	00	00 053
E2	ASH10	046	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	00	00 223
E5	DIV29	047	4	0	0	0	0	1	0	0	0	11	01	17	0	0	0	0	00	00 104
E5	DIV37	050	4	0	0	0	0	1	0	0	0	20	00	00	0	0	0	0	00	00 106
E5	DIV40	051	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	00	00 054
E5	DIV35	052	4	0	0	0	0	1	0	0	0	11	01	17	0	0	0	0	00	00 105
E5	DIV26	053	2	0	3	0	0	0	0	0	0	0	0	0	2	0	0	10	00	00 177
E5	DIV41	054	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	00	00 037
E4	DIV2	055	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	00	00 231
E5	DIV42	056	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	00	00 177
E4	DIV8	057	6	0	0	0	0	1	0	0	0	06	00	00	2	0	0	0	00	00 060
E4	DIV9	060	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	00	00 061
E4	DIV10	061	2	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	01	12 031
E4	DIV15	062	2	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	01	12 031
E2	ASH4	063	6	0	3	1	1	0	0	0	0	0	0	0	3	0	0	10	00	00 063
F2	ADD3	064	6	0	0	0	0	1	0	0	10	06	00	00	2	0	0	0	00	00 320
E4	DIV17	065	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	00	00 066
E4	DIV18	066	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	00	00 035
E2	ASH14	067	4	0	0	0	0	1	0	0	0	32	00	00	0	0	0	0	00	00 127
E5	DIV34	070	2	0	0	0	1	0	0	0	0	0	0	0	2	0	0	0	00	00 050
E5	DIV24	071	2	0	0	1	0	0	0	0	0	0	0	0	2	0	0	0	00	00 045
F2	ADD17	072	4	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	00	00 301
073			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	00	00 000
E5	DIV39	074	6	0	3	0	1	0	0	0	0	11	01	17	2	0	0	10	00	00 051
E3	MUL5	075	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	00	00 110
E4	DIV6	076	6	0	0	0	1	0	0	0	10	06	00	00	2	0	0	0	00	00 024
E2	ASH13	077	2	0	3	0	0	0	0	0	0	0	0	0	2	0	0	11	01	01 206

NOTE:

THE COMPLEMENT OF THE ACTUAL
ROM OUTPUT FOR THE UPF, WR,
SPS(HIGH 2 BITS), BUS (LOW BIT),
AND CLK (LOW BIT) FIELD IS
LISTED FOR CLARITY.

FLOWS STATE		ADR	CON	FC1	FUB	MHR	FRD	ERD	SRD	SDR	CVM	NZM	CCC	GPC	CEE	CNT	EUB	CBR
E2	ASH9	040	0	0	0	0	0	0	1	3	0	0	0	0	0	0	0	0
F4	FML4	041	0	0	0	0	1	0	3	0	0	0	0	6	0	0	0	0
F5	FDV23	042	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
F4	FML3	043	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
E2	ASH16	044	0	0	0	0	0	0	0	0	0	0	0	0	0	1	10	0
E5	DIV25	045	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	1
E2	ASH10	046	0	0	0	0	0	0	0	0	0	0	0	0	0	1	10	0
E5	DIV29	047	0	0	0	0	0	1	3	0	0	0	0	0	0	0	0	0
E5	DIV37	050	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0
E5	DIV40	051	0	0	0	0	0	0	0	0	5	2	7	0	0	0	0	0
E5	DIV35	052	0	0	0	0	0	1	3	0	0	0	0	0	0	0	0	0
E5	DIV26	053	0	0	0	0	0	0	0	0	5	2	7	0	0	0	0	0
E5	DIV41	054	0	0	0	0	0	0	0	0	1	0	2	0	0	0	0	0
E4	DIV2	055	0	0	0	0	0	0	0	0	0	0	0	0	2	04	1	0
E5	DIV42	056	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
E4	DIV8	057	0	0	0	0	0	0	0	0	3	0	0	4	0	0	0	1
E4	DIV9	060	0	0	0	0	0	0	0	0	0	1	7	0	0	0	0	0
E4	DIV10	061	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0
E4	DIV15	062	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0
E2	ASH4	063	0	0	0	0	0	0	0	0	7	0	1	0	0	1	10	1
F2	ADD3	064	0	0	0	3	0	0	0	0	4	0	1	0	0	0	10	1
E4	DIV17	065	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
E4	DIV18	066	0	0	0	0	0	0	2	0	0	0	0	0	0	1	0	0
E2	ASH14	067	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
E5	DIV34	070	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	1
E5	DIV24	071	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	1
F2	ADD17	072	0	0	0	3	0	0	1	0	0	0	0	0	0	0	0	0
073			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
E5	DIV39	074	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
E3	MUL5	075	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	1
E4	DIV6	076	0	0	0	0	0	0	0	0	0	4	0	1	0	0	10	1
E2	ASH13	077	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0

REVISIONS		CHK
CHANGE NO.	REV.	

digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	
TITLE FIS BOARD	
(ADRS 040 - 077)	
DRN. <i>R. G. Gable</i>	DATE 8-16-72
CHK'D. <i>E. J. Bynum</i>	DATE 8-17-72
ENG. <i>E. J. Bynum</i>	DATE 8-17-72
PROF'G. <i>W. J. Gable</i>	DATE 8-17-72
MOD. <i>H. J. Gable</i>	DATE 8-17-72
SHEET 6 OF 12	DIST.
SIZE CODE CACS	NUMBER M7239-0-1
REV. B	

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FLOWS STATE		ADR	CLK	CIR	WR	CB	CD	CBA	BUS	DAD	SPS	ALU	SBC	SBM	SDM	SBA	UBF	SRX	RIF	UPF
E1	E10	100	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
E5	DIV28	101	2	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
E1	E13	102	2	0	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
E5	DIV32	103	2	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
E5	DIV30	104	2	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
E5	DIV36	105	2	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
E5	DIV38	106	2	0	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
E5	DIV22	107	2	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
E3	MUL6	110	2	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
E3	MUL22	111	4	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
E3	MUL21	112	4	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
E3	MUL23	113	2	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
E3	MUL27	114	2	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
E3	MUL25	115	4	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
E3	MUL24	116	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
E3	MUL24	117	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
F2	ADD0	120	2	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
F1	FP1	121	2	0	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
F2	SUB0	122	6	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
E2	ASH6	123	6	0	3	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0
F4	FML0	124	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
F1	FP2	125	7	0	3	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0
F5	FDV0	126	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
E2	ASH20	127	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
F4	FML1	130	2	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
F1	FP3	131	2	0	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
F4	FML2	132	6	0	3	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
E3	MUL9	133	6	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
F5	FDV20	134	2	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
F1	FP5	135	2	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
F6	NOM6	136	2	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
E3	MUL10	137	4	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0

NOTE:
THE COMPLEMENT OF THE ACTUAL
ROM OUTPUT FOR THE UPF, WR,
SPS (HIGH 2 BITS), BUS (LOW BIT),
AND CLK (LOW BITS) FIELD IS
LISTED FOR CLARITY.

FLOWS STATE ADR CON FC1 FUB MHR FRD ERD SHD SDR CVM NZM CCC GPC CEE CNT EUB CBR

E1	E10	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
E5	DIV28	101	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
E1	E13	102	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
E5	DIV32	103	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
E5	DIV30	104	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
E5	DIV36	105	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
E5	DIV38	106	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
E5	DIV22	107	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
E3	MUL6	110	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
E3	MUL22	111	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
E3	MUL21	112	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
E3	MUL23	113	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
E3	MUL27	114	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
E3	MUL25	115	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
E3	MUL24	116	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
E3	MUL24	117	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
F2	ADD0	120	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
F1	FP1	121	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
F2	SUB0	122	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
E2	ASH6	123	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
F4	FML0	124	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
F1	FP2	125	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
F5	FDV0	126	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
E2	ASH20	127	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
F4	FML1	130	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
F1	FP3	131	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
F4	FML2	132	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
E3	MUL9	133	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
F5	FDV20	134	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
F1	FP5	135	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
F6	NOM6	136	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
E3	MUL10	137	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

REVISIONS		CHK
REV.	CHANGE NO.	

DRN	DATE	8-16-72
CHK'D	DATE	8-17-72
ENG	DATE	8-17-72
PROJ. ENG.	DATE	8-17-72
PROD. MGR.	DATE	8-18-72
SHEET 7 OF 12		

digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS		
FIS BOARD		
(ADRS 100-137)		
TITLE	SIZE CODE	REV.
C	CS	B
NUMBER		
M7239-0-1		

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NOTES

THE COMPLEMENT OF THE ACTUAL ROM OUTPUT FOR THE UPF,WR,SPS(HIGH 2 BITS),BUS(LOW BIT),AND CLK(LOW BIT) FIELD IS LISTED FOR CLARITY.

Flows	State	ADR	CLK	CIR	WR	CB	CD	CBA	BUS	DAD	SPS	ALU	SBC	SBM	SDM	SBA	UBF	SRX	RIF	UPF
F6	NOM14	140	6	0	3	1	1	0	0	00	0	11	01	17	2	0	00	01	15	142
E3	MUL26	141	2	0	3	0	0	0	0	00	0	00	00	00	2	0	00	10	00	177
F6	EX10	142	2	0	0	0	0	0	0	00	0	00	00	00	0	0	00	00	332	
E3	MUL11	143	4	0	0	0	1	0	0	00	0	20	00	00	0	0	00	00	00	005
F1	FP12	144	2	0	3	0	1	0	0	00	0	00	00	00	2	0	00	01	11	244
E1	DST12	145	2	0	3	1	0	0	0	00	0	00	00	00	1	0	00	01	12	275
F1	FP10	146	6	0	3	1	1	0	0	00	0	23	00	00	2	0	00	01	13	252
E4	DIV14	147	2	0	0	0	0	0	0	00	0	00	00	00	0	0	00	10	00	062
F4	FML5	150	6	0	3	0	1	0	0	00	0	06	00	00	2	0	00	01	15	365
F1	FP4	151	6	0	3	0	1	0	0	00	0	11	00	00	2	0	00	01	13	135
152		0	0	0	0	0	0	0	0	00	0	00	00	00	0	0	00	00	000	
E4	DIV20	153	6	0	0	0	1	0	0	14	0	00	00	00	2	0	00	00	00	153
F6	NOM1	154	6	0	3	0	1	0	0	00	0	11	01	17	2	0	00	01	15	324
F1	FP6	155	6	0	3	1	1	0	0	00	0	11	00	00	2	0	00	01	11	175
F6	NOM8	156	6	0	0	0	1	0	0	00	0	11	01	17	2	0	00	00	00	174
E5	DIV21	157	4	0	0	0	0	0	0	00	0	00	00	00	0	0	00	00	00	107
F5	FDV6	160	4	0	0	0	1	0	0	00	0	11	00	00	0	0	00	00	00	344
F6	EX14	161	6	0	0	1	0	0	0	00	0	00	00	00	0	0	00	00	256	
F5	FDV5	162	6	0	3	1	1	0	0	00	0	23	00	00	2	0	00	01	15	176
F2	ADD13	163	4	0	0	0	1	0	0	10	0	06	00	00	0	0	00	00	00	340
F2	ADD5	164	2	0	0	0	1	0	0	00	0	00	00	00	0	0	00	01	11	165
F2	ADD6	165	4	0	0	0	1	0	0	00	0	06	00	00	0	0	00	00	00	202
F5	FDV3	166	4	0	0	0	1	0	0	00	0	00	00	00	0	0	00	00	00	350
E3	MUL20	167	2	0	3	0	0	0	0	00	0	00	00	00	2	0	00	10	00	143
E1	DST4	170	3	0	3	0	0	0	1	00	0	00	00	00	2	0	00	04	00	271
F5	FDV11	171	2	0	0	0	0	0	0	00	0	00	00	00	0	0	00	01	10	042
F4	FML8	172	2	0	0	0	0	0	0	00	0	00	00	00	0	0	00	01	10	210
F5	FDV13	173	6	0	0	0	1	0	0	14	0	00	00	00	2	0	00	00	00	331
F6	NOM9	174	2	0	0	0	0	0	0	00	0	00	00	00	0	0	00	00	00	273
F1	FP7	175	4	0	0	0	1	0	0	00	0	32	00	16	0	0	00	00	00	367
F6	NOM3	176	2	0	0	0	0	0	1	0	06	0	00	00	1	0	00	00	04	00
F2	ASH15	177	6	0	0	0	0	0	0	00	7	00	00	00	0	0	00	00	00	323

Flows	State	ADR	CN	FC1	FUB	MHR	FRD	ERD	SRD	SDR	CVM	NZM	CCC	GPC	CEE	CNT	EUB	C8R
F6	NOM14	140	0	0	0	0	1	0	0	0	1	0	0	0	0	0	00	1
E3	MUL26	141	0	0	0	0	0	0	0	0	1	3	5	0	0	0	00	0
F6	EXI0	142	0	0	0	0	1	0	2	0	0	0	0	0	0	0	00	1
E3	MUL11	143	0	0	0	0	0	1	3	0	2	0	2	0	0	0	04	0
F1	FP12	144	0	0	0	0	0	0	1	0	0	0	0	0	0	0	00	0
E1	DST12	145	0	0	0	0	0	0	0	0	0	0	0	0	0	0	00	0
F1	FP10	146	0	0	1	0	0	0	0	0	0	0	0	0	0	0	00	1
E4	DIV14	147	0	0	0	0	0	0	0	3	0	0	0	0	0	0	00	1
F4	FML5	150	0	0	0	0	0	0	0	0	0	0	0	0	0	0	00	0
F1	FP4	151	0	0	0	0	0	0	0	0	4	0	1	0	0	0	00	0
E4	DIV20	152	0	0	0	0	0	0	0	0	0	0	0	0	0	0	00	0
E4	DIV20	153	0	0	0	0	0	1	2	2	0	0	0	2	0	1	10	1
F6	NOM1	154	0	0	1	0	0	0	0	0	0	0	0	1	0	0	04	0
F1	FP6	155	0	0	0	0	0	0	0	0	0	0	0	4	0	0	10	0
F6	NOM8	156	0	0	0	0	1	0	1	0	4	0	1	0	0	0	00	1
E5	DIV21	157	0	0	0	0	0	1	3	0	0	0	0	0	0	0	12	0
F5	FDV6	160	0	0	0	0	1	0	3	0	0	0	0	6	0	0	00	0
F6	EXI4	161	2	0	0	0	1	0	3	0	1	3	6	0	0	0	00	0
F5	FDV5	162	0	0	0	0	0	0	0	0	0	0	0	0	0	0	00	1
F2	ADD13	163	0	0	0	0	0	0	0	0	2	4	0	0	0	2	00	0
F2	ADD5	164	0	0	0	0	0	0	0	0	0	0	0	0	0	0	00	0
F2	ADD6	165	0	0	0	0	0	0	0	0	0	0	0	4	0	0	00	0
F5	FDV3	166	1	0	0	0	1	0	3	0	1	0	1	0	0	0	00	0
E3	MUL20	167	0	0	0	0	0	0	3	0	0	0	0	0	0	0	05	0
E1	DST4	170	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16	0
F5	FDV11	171	0	0	0	7	0	0	0	0	0	0	0	0	0	0	00	1
F4	FML8	172	0	0	0	0	0	0	0	0	0	0	0	0	0	0	00	1
F5	FDV13	173	0	0	1	0	0	1	1	3	4	1	1	2	0	0	05	1
F6	NOM9	174	0	0	0	3	0	0	1	0	0	0	0	0	0	0	00	0
F1	FP7	175	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	0
F6	NOM3	176	0	1	0	3	0	0	1	3	0	2	4	0	0	0	00	0
F2	ASH15	177	0	0	0	0	0	1	0	0	0	0	0	0	1	0	00	0</

REVISIONS	
CHANGE NO.	REV.

DRN	Q. Budek	DATE	8-16-72
CHKD.	J. Hays	DATE	8-17-72
ENG	J. Hays	DATE	8-17-72
PROD. ENG.	J. Hays	DATE	8-17-72
PROD.	J. Hays	DATE	8-17-72

digital	EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	
	TITLE	
FIS BOARD		
(ADRS 140-177)		
SIZE CODE	NUMBER	REV.
C CS	M 7239 - 0-1	B

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Flows	State	ADR	CLK	CIR	WR	CB	CD	CBA	BUS	DAD	SPS	ALU	SBC	SBM	SDM	SBA	UBF	SRX	RIF	UPF
F2	ADD39	200	2	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	13 072
E3	MUL0	201	6	0	0	0	1	0	0	0	0	32	12	17	2	0	0	0	0	00 014
F2	ADD7	202	2	0	3	0	0	0	0	0	0	0	0	0	2	0	0	0	0	11 300
E4	DIV0	203	6	0	0	0	1	0	0	0	0	32	12	17	2	0	0	0	0	00 303
E3	MUL8	204	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	00 001
E2	ASH0	205	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	00 311
E2	ASH19	206	4	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	11	01 127
E2	ASH7	207	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	01 351
F4	FML9	210	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	00 212
F5	FDV24	211	6	0	0	0	1	0	0	10	0	06	00	00	2	0	0	0	0	00 032
F4	FML10	212	2	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	01 13 213
F4	FML11	213	4	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	00 232
F6	NOM11	214	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	00 216
F2	ADD16	215	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	00 13 200
F6	NOM12	216	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	00 234
F4	FML18	217	6	0	0	0	1	0	0	0	0	0	0	0	2	0	0	0	0	00 330
F6	EX17	220	5	0	0	0	1	0	3	0	0	0	0	0	0	0	0	0	0	00 336
E1	DST15	221	2	0	3	1	0	0	0	0	0	0	0	0	1	0	0	0	0	01 12 241
F6	EX13	222	6	0	0	0	1	0	2	0	0	03	00	00	2	0	0	0	0	00 224
E2	ASH11	223	6	0	3	1	1	0	0	0	0	0	0	0	3	0	0	0	10	00 223
F6	EX112	224	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	00 161
F2	ADD10	225	6	0	0	0	1	0	0	0	0	06	00	00	2	0	0	0	0	00 245
F2	ADD15	226	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	00 215
E2	ASH12	227	4	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	00 077
F4	FML16	230	2	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	11 250
E4	DIV3	231	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	00 020
F4	FML12	232	2	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	00 304
F3	ADD35	233	6	0	0	1	1	0	0	0	0	36	00	00	0	0	0	0	0	00 360
F6	NOM13	234	6	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	15 140
F1	FP9	235	4	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	00 144
F6	EX11	236	4	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	00 254
F3	ADD25	237	2	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	00 341

NOTE:

THE COMPLEMENT OF THE ACTUAL
ROM OUTPUT FOR THE UPF, WR,
SPS (HIGH 2 BITS), BUS (LOW BIT),
AND CLK (LOW BIT) FIELD IS
LISTED FOR CLARITY.

Flows State ADR CON FC1 FUB MHR FRD ERD SRD SDR CVM NZM CCC GPC CEE CNT EUB CBR

F2	ADD39	200	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
E3	MUL0	201	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
F2	ADD7	202	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
E4	DIV0	203	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
E3	MUL8	204	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	1
E2	ASH0	205	0	0	0	0	0	0	0	0	0	0	0	0	0	2	13	0	0	0
E2	ASH19	206	0	0	0	0	0	1	3	0	0	0	0	0	0	0	0	0	0	0
E2	ASH7	207	0	0	0	0	0	0	0	0	2	0	0	0	0	2	13	1	0	0
F4	FML9	210	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	1
F5	FDV24	211	0	0	0	0	0	1	1	3	4	0	1	0	0	0	0	0	0	1
F4	FML10	212	2	0	0	0	0	0	3	3	0	0	0	0	0	0	0	0	0	0
F4	FML11	213	0	0	1	0	0	1	3	0	0	0	0	0	0	1	0	1	0	0
F6	NOM11	214	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0
F2	ADD16	215	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
F6	NOM12	216	0	0	1	0	0	0	0	1	0	0	0	1	0	0	0	0	0	1
F4	FML18	217	0	0	0	0	0	1	1	3	0	0	0	0	0	0	0	0	0	1
F6	EX17	220	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0
E1	DST15	221	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
F6	EX13	222	2	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	1
E2	ASH11	223	0	0	0	0	0	0	0	1	2	0	1	0	0	1	10	1	0	0
F6	EX112	224	2	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	1
F2	ADD10	225	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
F2	ADD15	226	0	0	0	0	1	0	1	0	0	0	0	0	0	2	0	0	0	0
E2	ASH12	227	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0
F4	FML16	230	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
E4	DIV3	231	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
F4	FML12	232	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
F3	ADD35	233	0	0	0	1	1	0	0	0	0	36	00	00	0	0	0	0	0	0
F6	NOM13	234	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1
F1	FP9	235	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
F6	EX11	236	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
F3	ADD25	237	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0

REV	CHANGES NO.	REVISIONS

digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	
TITLE FIS BOARD	
(ADRS 200-237)	
SIZE CODE C	NUMBER M7239-0-1
REV. B	

This drawing and specifications, herein, are the property of Digital Equipment Corporation and shall not be reproduced or copied or used in whole or in part as the basis for the manufacture or sale of items without written permission.

FLOWS STATE		ADR	CLK	CIR	WR	CB	CD	CBA	BUS	DAD	SPS	ALU	SBC	SBM	SDM	SBA	UBF	SRX	RTF	UPF
E1	E12	240	4	0	0	0	1	0	0	0	0	32	00	17	0	0	0	00	00	102
E1	DST16	241	5	0	0	0	0	1	1	0	0	11	00	00	0	0	0	04	00	265
F1	FP0	242	3	0	0	0	0	0	1	1	0	00	00	00	2	1	00	04	00	121
E2	ASH17	243	6	0	3	1	1	1	0	0	0	11	00	00	2	0	00	10	00	243
F1	FP13	244	7	0	3	0	1	1	1	1	0	11	02	17	2	0	00	04	00	121
F2	ADD11	245	2	0	0	1	0	0	0	0	0	00	00	00	0	0	00	01	14	373
F1	FP14	246	2	0	0	1	0	0	0	0	0	00	00	00	0	0	00	00	00	255
F2	ASH18	247	4	0	0	0	1	0	0	0	0	00	00	00	0	0	00	00	00	077
F4	FML17	250	6	0	0	0	1	0	0	0	0	11	00	00	2	0	00	00	00	213
F2	ADD1	251	4	0	0	0	1	0	0	10	0	06	00	00	0	0	00	00	00	300
F1	FP11	252	2	0	3	0	1	0	0	0	0	00	00	00	2	0	00	01	11	244
F4	BRQ2	253	6	0	0	1	0	0	0	0	0	00	00	00	0	0	00	00	00	355
F6	EX12	254	2	0	3	0	0	0	0	0	0	00	00	00	2	0	00	01	14	220
F1	FP15	255	6	0	0	0	1	0	0	0	0	26	00	00	0	0	00	00	00	120
F6	EX15	256	6	0	0	0	0	0	0	0	7	00	00	00	0	0	00	00	00	354
F4	BRQ3	257	6	0	0	1	0	0	0	0	0	00	00	00	0	0	00	00	00	355
E1	DST0	260	4	0	0	0	1	0	0	0	0	00	00	00	0	0	00	04	00	261
E1	DST1	261	2	0	3	1	0	0	0	0	0	00	00	00	2	0	00	01	12	201
E1	DST10	262	3	0	0	0	0	0	1	1	0	00	00	00	0	1	00	04	00	271
F4	FML7	263	2	0	0	0	0	0	0	0	0	00	00	00	0	0	00	01	12	172
E1	DST2	264	4	0	0	0	1	1	0	0	0	11	02	17	0	1	00	04	00	170
E1	DST6	265	2	0	3	1	0	0	0	0	0	00	00	00	1	0	00	01	12	166
E1	DST5	266	7	0	3	0	1	1	1	1	0	11	02	17	2	1	00	04	00	265
F5	FDV10	267	2	0	0	0	0	0	0	0	0	00	00	00	0	0	00	00	00	171
E1	DST3	270	4	0	0	0	1	1	0	0	0	06	01	17	0	0	00	04	00	170
E1	DST8	271	2	0	3	1	0	0	0	0	0	00	00	00	1	0	00	01	12	201
E1	DST9	272	7	0	0	0	1	1	1	1	0	06	01	17	0	0	00	04	00	265
F6	NOM10	273	6	-0	0	0	1	0	0	0	0	11	00	00	2	0	00	00	00	214
E1	DST11	274	7	0	3	0	1	0	1	0	0	11	02	17	2	0	00	01	07	145
E1	DST13	275	5	0	0	0	0	1	1	0	0	11	00	00	0	0	00	04	00	271
E1	DST14	276	7	0	3	0	1	0	1	0	0	11	02	17	2	0	00	01	07	221
F4	FML15	277	6	0	0	0	1	0	0	0	0	11	00	00	2	0	00	00	00	230

NOTE:
THE COMPLEMENT OF THE ACTUAL
ROM OUTPUT FOR THE UPF, WR,
SPS (HIGH 2 BITS), BUS (LOW BIT),
AND CLK (LOW BIT) FIELD IS LISTED
FOR CLARITY.

FLOWS STATE ADR CON FC1 FUB MHR FRD EHD SRD SDR CVM NZM CCC GPC CEE CNT EUB CBR

E1	E12	240	0	0	0	0	0	0	0	0	0	0	0	0	0	0	00	0
E1	DST16	241	0	0	0	0	0	0	0	0	0	0	0	0	0	0	00	0
F1	FP0	242	0	0	0	0	0	0	0	0	0	0	0	0	0	0	00	0
E2	ASH17	243	0	0	0	0	0	0	1	2	3	0	3	3	0	1	10	1
F1	FP13	244	0	0	0	7	0	0	0	0	0	2	4	0	0	0	00	0
F2	ADD11	245	0	0	0	0	0	0	0	3	0	3	4	0	0	0	00	0
F1	FP14	246	0	0	0	0	0	1	1	0	0	0	0	0	0	15	0	0
F2	ASH18	247	0	0	0	0	0	0	1	1	0	0	0	0	0	0	00	0
F4	FML17	250	2	0	0	0	0	1	1	3	0	0	0	4	0	0	00	1
F2	ADD1	251	0	0	0	0	0	0	0	0	4	0	1	0	0	0	00	0
F1	FP11	252	0	0	0	0	0	0	1	0	0	0	0	0	0	0	00	0
F4	BRQ2	253	2	0	0	0	0	1	0	3	0	0	0	0	0	0	00	0
F6	EX12	254	0	1	0	0	0	0	0	0	0	0	0	0	0	0	00	0
F1	FP15	255	0	0	0	1	0	0	0	0	0	0	0	0	0	00	1	0
F6	EX15	256	0	0	0	0	0	1	0	0	0	0	0	0	1	0	00	0
F4	BRQ3	257	2	0	0	0	1	0	3	0	0	0	0	0	0	0	00	0
E1	DST0	260	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16	0
E1	DST1	261	0	0	0	0	0	0	0	0	0	0	0	0	0	0	00	1
E1	DST10	262	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16	0
F4	FML7	263	0	0	0	0	0	0	0	0	0	0	0	0	0	2	00	1
E1	DST2	264	0	0	0	0	0	0	0	0	0	0	0	0	0	0	00	0
E1	DST6	265	3	0	0	0	0	0	0	0	0	0	0	0	0	0	00	0
E1	DST5	266	0	0	0	0	0	0	0	0	0	0	0	0	0	0	00	0
F5	FDV10	267	0	0	0	0	0	0	0	3	0	0	0	0	0	0	00	1
E1	DST3	270	0	0	0	0	0	0	0	0	0	0	0	0	0	0	00	0
E1	DST8	271	0	0	0	0	0	0	0	0	0	0	0	0	0	0	00	0
E1	DST9	272	0	0	0	0	0	0	0	0	0	0	0	0	0	0	00	0
F6	NOM10	273	0	0	0	0	0	0	1	0	0	0	0	4	0	0	10	1
E1	DST11	274	0	0	0	0	0	0	0	0	0	0	0	0	0	0	00	0
E1	DST13	275	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16	0
E1	DST14	276	0	0	0	0	0	0	0	0	0	0	0	0	0	0	00	0
F4	FML15	277	0	0	0	0	0	0	1	3	4	0	1	0	0	0	00	0

REVISIONS		CHANGE NO.	REV.

DRN	<i>P. Paul</i>	DATE	6-16-72
CHWD	<i>P. Bygones</i>	DATE	8-12-72
ENG	<i>P. Bygones</i>	DATE	8-12-72
PROD	<i>P. Bygones</i>	DATE	8-12-72

digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	
TITLE FIS BOARD	
(ADRS 240-277)	
SIZE CODE C CS	NUMBER M7239-0-1
REV. B-3	

This drawing and specifications herein, are the property of Digital Equipment Corporation and shall not be reproduced or copied or used in whole or in part as the basis for the manufacture or sale of items without written permission.

FLOWS STATE		ADR	CLK	CIR	WH	CH	CD	CBA	BUS	DAD	SPS	ALU	SBC	SBM	SDM	SBA	UBF	SRX	RIF	UPF
F2	ADD2	300	2	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
F2	ADD18	301	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
F2	ADD4	302	6	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
E4	DIV1	303	4	0	0	0	0	1	0	0	0	32	0	0	0	0	0	0	0	0
F4	FML13	304	2	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
F6	NOM7	305	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
F4	FML14	306	2	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
F6	NOM5	307	4	0	0	0	0	1	0	0	0	06	0	0	0	0	0	0	0	1
F2	ADD21	310	2	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
E2	ASH1	311	6	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0
F5	FDV19	312	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
F3	ADD27	313	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
F3	ADD33	314	2	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
F3	ADD32	315	6	0	0	0	0	1	0	0	0	11	0	0	0	0	0	0	0	0
F5	FDV16	316	6	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
F3	ADD30	317	6	0	0	0	0	1	0	0	0	11	0	0	0	0	0	0	0	0
F2	ADD8	320	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
F2	ADD19	321	2	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
F2	ADD9	322	2	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
E2	ASH21	323	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
F6	NOM4	324	2	0	0	0	0	0	1	0	06	0	0	0	0	0	0	0	0	0
F2	ADD20	325	4	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
F6	NOM2	326	6	0	3	1	1	0	0	0	0	23	0	0	0	0	0	0	0	0
F6	NOM0	327	2	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
F4	FML19	330	2	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
F5	FDV14	331	2	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
F6	EX114	332	4	0	0	0	1	0	0	0	0	32	0	0	0	0	0	0	0	0
F5	FDV12	333	2	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
F3	ADD34	334	6	0	0	0	1	0	0	10	0	06	0	0	0	0	0	0	0	0
F3	ADD37	335	2	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
F6	EX18	336	2	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
F5	FDV17	337	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

NOTE:
THE COMPLEMENT OF THE
ACTUAL ROM OUTPUT FOR THE
UPF, WR, SPS (HIGH 2 BITS), BUS
(LOW BIT), AND CLK (LOW BIT)
FIELD IS LISTED FOR CLARITY.

FLOWS STATE ADR CON FC1 FUB MHR FRD ERD SRD SDR CVM NZM CCC GPC CEE CNT EUB CBR

F2	ADD2	300	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
F2	ADD18	301	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
F2	ADD4	302	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
E4	DIV1	303	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
F4	FML13	304	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
F6	NOM7	305	0	0	0	1	0	0	1	1	0	0	0	0	0	0	0	0	0	0
F4	FML14	306	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
F6	NOM5	307	0	0	1	2	0	0	0	2	0	0	0	0	0	0	0	0	0	0
F2	ADD21	310	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
E2	ASH1	311	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0
F5	FDV19	312	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
F3	ADD27	313	2	0	0	1	0	0	1	1	0	0	0	0	0	0	0	0	0	0
F3	ADD33	314	0	0	0	0	1	0	1	3	0	2	4	0	0	0	0	0	0	0
F3	ADD32	315	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
F5	FDV16	316	0	0	0	6	0	1	2	2	0	0	0	0	0	0	0	0	0	0
F3	ADD30	317	0	0	0	0	1	0	1	0	4	0	1	0	0	0	0	0	0	0
F2	ADD8	320	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
F2	ADD19	321	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0
F2	ADD9	322	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
E2	ASH21	323	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
F6	NOM4	324	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
F2	ADD20	325	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
F6	NOM2	326	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
F6	NOM0	327	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
F4	FML19	330	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
F5	FDV14	331	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
F6	EX114	332	0	0	0	0	0	0	0	0	5	2	5	0	0	0	0	0	0	0
F5	FDV12	333	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
F3	ADD34	334	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
F3	ADD37	335	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
F6	EX18	336	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
F5	FDV17	337	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

REVISIONS		CHK
REV	CHANGE NO.	

DRN	DATE	8-16-72
CHKD	DATE	8-17-72
ENG	DATE	8-17-72
PROD. ENG.	DATE	8-18-72
PROD. MGR.	DATE	8-18-72
PROG.	DATE	8-18-72
SHEET 11 OF 12		

digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	
TITLE FIS BOARD	
(ADRS 300-337)	
SIZE CODE C	NUMBER M7239-0-1
CS	REV. B
DIST. 1	

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FLOWS STATE		ADR	CLK	CIR	WR	CB	CD	CBA	BUS	DAD	SPS	ALU	SBC	SBM	SDM	SBA	UBF	SRX	RIF	UPF
F3	ADD22	340	6	0	0	1	1	0	0	0	0	14	00	00	2	0	00	01	13	017
F3	ADD26	341	2	0	0	0	0	0	0	0	0	00	00	00	0	0	00	00	00	313
F2	ADD14	342	2	0	0	0	0	0	0	0	0	00	00	00	2	0	00	00	00	226
F3	ADD28	343	2	0	0	0	0	0	0	0	0	00	00	00	0	0	00	00	00	317
F5	FDV7	344	2	0	3	0	0	0	0	0	0	00	00	00	2	0	00	01	15	346
F4	FML6	345	0	0	0	0	0	0	0	0	0	00	00	00	0	0	00	00	00	000
F5	FDV8	346	6	0	0	0	1	0	0	0	0	11	02	17	2	0	00	00	00	564
F3	ADD31	347	2	0	0	1	0	0	0	0	0	00	00	00	0	0	00	01	11	315
F5	FDV4	350	2	0	3	0	0	0	0	0	0	00	00	00	2	0	00	01	14	222
E2	ASH8	351	6	0	0	1	1	0	0	0	0	00	00	00	2	0	00	10	00	040
F5	FDV18	352	2	0	0	0	0	0	0	0	0	00	00	00	0	0	00	00	00	312
F3	BRQ0	353	2	0	0	1	0	0	0	0	0	00	00	00	0	0	00	00	00	355
F6	EXI6	354	6	0	3	0	1	0	0	10	0	06	00	00	2	0	00	04	00	007
F4	BRQ4	355	6	0	3	0	1	0	0	10	0	06	00	00	2	0	00	04	00	375
F6	EXI9	356	6	0	3	0	1	1	0	06	0	06	01	17	2	0	00	04	00	374
F3	BRQ1	357	2	0	0	1	0	0	0	0	0	00	00	00	0	0	00	00	00	355
F3	ADD38	360	2	0	0	0	0	0	0	0	0	00	00	00	0	0	00	00	00	327
F3	ADD24	361	2	0	0	0	0	0	0	0	0	00	00	00	0	0	00	00	00	237
F3	ADD36	362	6	0	0	1	1	0	0	0	0	06	00	00	2	0	00	00	00	335
F3	ADD29	363	2	0	0	0	0	0	0	0	0	00	00	00	2	0	00	00	00	314
F5	FDV9	364	2	0	0	0	0	0	0	0	0	00	00	00	0	0	00	01	12	267
F4	FML6	365	6	0	0	0	0	0	0	0	0	00	00	00	0	0	00	00	00	263
E1	DST7	366	3	0	0	0	0	1	0	0	0	00	00	00	0	1	00	01	12	271
F1	FP8	367	2	0	3	0	0	0	0	0	0	00	00	00	2	0	00	01	15	235
F5	FDV15	370	6	0	0	0	1	0	0	0	0	11	00	00	2	0	00	00	00	316
F5	BRQ6	371	6	0	0	1	0	0	0	0	0	00	00	00	0	0	00	00	00	355
F5	FDV22	372	6	0	0	0	1	0	0	0	0	06	00	00	2	0	00	00	00	316
F2	ADD12	373	6	0	0	1	1	0	0	10	0	06	00	00	2	0	00	01	15	163
F6	EXI10	374	5	0	0	0	1	0	1	00	0	32	00	00	0	0	00	00	00	376
F6	BRQ5	375	6	0	3	0	1	0	0	0	0	06	01	17	2	0	00	01	07	017
F6	EXI11	376	2	0	0	0	0	0	0	0	0	00	00	00	0	0	00	00	00	177
E1	EI1	377	2	0	0	0	0	0	0	0	0	00	00	00	0	0	00	00	00	240

NOTE:
THE COMPLEMENT OF THE
ACTUAL ROM OUTPUT FOR
THE UPF, WR, SPS (HIGH 2 BITS),
BUS (LOW BIT), AND CLK
(LOW BIT) FIELD IS LISTED
FOR CLARITY.

FLOWS STATE ADR CON FC1 FUB MHR FRD ERD SRD SDR CVM NZM CCC GPC CEE CNT EUB CBR

F3	ADD22	340	0	0	1	0	0	0	0	0	0	4	0	0	0	1	03	1		
F3	ADD26	341	0	0	0	0	0	0	0	0	0	0	0	0	0	1	10	0		
F2	ADD14	342	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	1		
F3	ADD28	343	0	0	0	2	0	0	1	2	0	0	0	5	0	0	00	0		
F5	FDV7	344	3	0	0	0	0	0	3	0	0	0	0	0	0	0	10	0		
F4	FML6	345	0	0	0	0	0	0	0	0	0	0	0	0	0	0	00	0		
F5	FDV8	346	3	0	0	0	1	0	3	0	0	0	0	0	0	0	00	1		
F3	ADD31	347	0	0	0	3	0	0	1	0	0	0	0	0	0	0	00	0		
F5	FDV4	350	0	0	0	0	0	0	1	0	0	0	0	0	0	0	00	0		
E2	ASH8	351	0	0	0	0	0	0	3	3	0	0	0	0	0	0	1	00	1	
F5	FDV18	352	0	0	0	0	0	0	3	0	0	0	0	0	0	0	00	0		
F3	BRQ0	353	2	0	0	0	0	1	0	3	0	0	0	0	0	0	00	0		
F6	EXI6	354	0	0	0	0	0	0	0	0	0	0	0	0	0	0	00	0		
F4	BRQ4	355	0	0	0	0	0	0	0	0	0	0	0	0	0	0	00	0		
F6	EXI9	356	0	1	0	0	0	0	0	0	0	0	0	0	0	0	00	0		
F3	BRQ1	357	2	0	0	0	0	1	0	3	0	0	0	0	0	0	00	0		
F3	ADD38	360	0	0	0	0	0	0	0	1	0	0	0	0	0	0	00	0		
F3	ADD24	361	0	0	1	0	0	1	2	0	0	0	0	0	0	0	02	1		
F3	ADD36	362	0	0	0	3	0	0	1	0	0	0	0	4	0	0	00	1		
F3	ADD29	363	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	1		
F5	FDV9	364	0	0	0	0	0	0	0	0	0	0	0	0	0	0	00	1		
F4	FML6	365	3	0	0	0	0	1	3	0	0	0	0	0	0	0	00	1		
E1	DST7	366	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16	0		
F1	FP8	367	0	0	0	0	0	0	3	0	0	2	4	0	0	0	04	0		
F5	FDV15	370	0	0	0	0	0	1	3	4	0	1	4	0	0	0	10	1		
F5	BRQ6	371	2	0	0	0	1	0	3	0	0	0	0	0	0	0	00	0		
F5	FDV22	372	0	0	0	0	1	0	3	4	0	1	4	0	0	0	10	1		
F2	ADD12	373	0	0	0	0	0	0	0	0	0	0	0	0	0	0	01	1		
F6	EXI10	374	0	0	0	0	0	0	0	0	0	0	0	0	0	0	00	0		
F6	BRQ5	375	0	0	0	0	0	0	0	0	0	0	0	0	0	0	00	0		
F6	EXI11	376	0	0	0	0	0	0	0	0	5	2	7	0	0	0	00	0		
E1	EI1	377	0	0	0	0	0	0	0	0	0	0	0	0	0	0	00	0		

REVISIONS		CHANGE NO	REV

digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	
TITLE FIS BOARD	
(ADRS 340-377)	
SIZE CODE C	NUMBER M7239-0-1
REV. CS	REV. B
SHEET 12	OF 12
DATE 8-16-72	DATE 8-16-72
CHK'D J. K. [Signature]	DATE 8-16-72
ENG. J. K. [Signature]	DATE 8-16-72
PROG. MGR. J. K. [Signature]	DATE 8-16-72
PROG. [Signature]	DATE 8-16-72

[illegible]

DEC FORM DEC 16--(325)--1031--N870
DRA 110