

IDENTIFICATION

Product Code: MAINDEC-9A-D02A-D

Product Name: Instruction Test Part II

Date: November 30, 1967

Maintainer: Diagnostic Group

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1 ABSTRACT

The following machine functions, DZM, DAC, ISZ, JMP, JMS, XCT, AUTOINDEX, INDIRECT, TIME CLOCK, DBR, INTERRUPT are tested. Individual error halts are used to describe the failing tests.

2 REQUIREMENTS

2.1 Equipment

PDP-9

2.2 Storage

8K core storage minimum.

2.3 Preliminary Programs

Previous run of PDP-9 Instruction Test, Part 1 (MAINDEC 09-D000-D).

3 LOADING PROCEDURE

3.1 Method

HRI tape - Starting address  $22_8$

HS paper-tape reader

4 STARTING PROCEDURE

4.1 Control Switch Settings

Data switch settings equal the complement number of complete program passes between bells.

4.2 Starting Address or Addresses

Starting address  $6265_8$

Restart address  $6265_8$

4.3 Program and/or Operator Action

(Reference 4.1)

5 OPERATING PROCEDURE

(Reference 4.1)

6 ERRORS

6.1 Error Halts and Description

Reference symbol table for the address of the individual error halt address (EXXXX).

DZM	E1106	E1139
DAC	E1140	E1168
ISZ	E1169	E1304
JMP	E1305	E1362
CAL	E1363	E1366
JMS	E1367	E1407
XCT	E1408	E1452
FALSE AUTOINDEX	E1452A	E1452J
INDIRECT	E1453	E1493
TRUE AUTOINDEX	E1494	E1542
TIME CLOCK	E1543	E1547
PI	E1548	E1567
DBR	E1568	E1571

7 RESTRICTIONS

None

8 MISCELLANEOUS

8.1 Execution Time

5 M.S./Pass

MAINDEC-9A-D02A-D

/TEST, TEST TAPE 11 DZM, DAC, ISZ

PART 2,	LAC KHALT DZM 0 LAC 0 SZ A HALT	/TEST DZM 0, AC=740040 /AC=740040 /ADDRESS 0
F1106,	HALT	/ERROR; MA 0 NOT 0, DZM FAILED
	LAC KHALT DZM 1 LAC 1 SZ A HALT	/TEST DZM 1, AC=740040 /AC=740040 /ADDRESS 1
F1107,	HALT	/ERROR; MA 1 NOT 0 DZM FAILED
	LAC KHALT DZM 2 LAC 2 SZ A HALT	/TEST DZM 2, AC=740040 /AC=740040 /ADDRESS 2
E1108,	HALT	/ERROR; MA 2 NOT 0, DZM FAILED
	LAC KHALT DZM 4 LAC 4 SZ A HALT	/TEST DZM 4, AC=740040 /AC=740040 /ADDRESS 4
F1109,	HALT	/ERROR; MA 4 NOT 0, DZM FAILED
	LAC KHALT DZM 10 LAC 10 SZ A HALT	/TEST DZM 10, AC=740040 /AC=740040 /ADDRESS 10
E1110,	HALT	/ERROR; MA 10 NOT 0, DZM FAILED
	LAC KHALT DZM 20 LAC 20 SZ A HALT	/TEST DZM 20, AC=740040 /AC=740040 /ADDRESS 20
F1111,	HALT	/ERROR; MA 20 NOT 0 DZM FAILED
	LAC KHALT DZM 10040 LAC 10040 SZ A HALT	/TEST DZM 10040, AC=740040 /AC=740040 /ADDRESS 10040
F1112,	HALT	/ERROR; MA 10040 NOT 0, DZM FAILED
	LAC KHALT DZM 10100 LAC 10100 SZ A HALT	/TEST DZM 10100, AC=740040 /AC=740040 /ADDRESS 10100
F1113,	HALT	/ERROR; MA 10100 NOT 0, DZM FAILED
		/TEST DZM 10200, AC=740040

F1114,	LAC KHALT DZM 10200 LAC 10200 SZA HALT	/AC=740040 /ADDRESS 10200	/ERROR; MA 10200 NOT 0, DZM FAILED
		/TEST DZM 10400, AC=740040 /AC=740040 /ADDRESS 10400	
F1115,	LAC KHALT DZM 10400 LAC 10400 SZA HALT		/ERROR; MA 10400 NOT 0, DZM FAILED
		/TEST DZM 11000, AC=740040 /AC=740040 /ADDRESS 11000	
F1116,	LAC KHALT DZM 11000 LAC 11000 SZA HALT		/ERROR; MA 11000 NOT 0, DZM FAILED
		/TEST DZM 12000, AC=740040 /AC=740040 /ADDRESS 12000	
F1117,	LAC KHALT DZM 12000 LAC 12000 SZA HALT		/ERROR; MA 12000 NOT 0, DZM FAILED
		/TEST DZM 14000, AC=740040 /AC=740040 /ADDRESS 14000	
F1118,	LAC KHALT DZM 14000 LAC 14000 SZA HALT		/ERROR; MA 14000 NOT 0, DZM FAILED
		/TEST DZM 10000, AC=740040 /AC=740040 /ADDRESS 10000	
F1119,	LAC KHALT DZM 10000 LAC 10000 SZA HALT		/ERROR; MA 10000 NOT 0, DZM FAILED
		/TEST DZM 20000, AC=740040 /AC=740040 /ADDRESS 20000	
F1120,	LAC KHALT DZM 20000 LAC 20000 SZA HALT		/ERROR; MA 20000 NOT 0, DZM FAILED
		/TEST DZM 17777, AC=740040 /AC=740040 /ADDRESS 17777	
F1121,	LAC KHALT DZM 17777 LAC 17777 SZA HALT		/ERROR; MA 17777 NOT 0, DZM FAILED
		/TEST DZM 7777, AC=740040	

F1122,	LAC KHALT DZM 7777 LAC 7777 SZA HALT	/AC=740040 /ADDRESS 7777
		/TEST DZM 13777, AC=740040
F1123,	LAC KHALT DZM 13777 LAC 13777 SZA HALT	/AC=740040 /ADDRESS 13777
		/ERROR; MA 13777 NOT 0, DZM FAILED
E1124,	LAC KHALT DZM 15777 LAC 15777 SZA HALT	/AC=740040 /ADDRESS 5777
		/TEST DZM 15777, AC=740040
		/ERROR; MA 15777 NOT 0, DZM FAILED
E1125,	LAC KHALT DZM 16777 LAC 16777 SZA HALT	/AC=740040 /ADDRESS 16777
		/TEST DZM 16777, AC=740040
		/ERROR; MA 16777 NOT 0, DZM FAILED
F1126,	LAC KHALT DZM 17377 LAC 17377 SZA HALT	/AC=740040 /ADDRESS 17377
		/TEST DZM 17377, AC=740040
		/ERROR; MA 17377 NOT 0, DZM FAILED
F1127,	LAC KHALT DZM 17577 LAC 17577 SZA HALT	/AC=740040 /ADDRESS 17577
		/TEST DZM 17577, AC=740040
		/ERROR; MA 17577 NOT 0, DZM FAILED
E1128,	LAC KHALT DZM 17677 LAC 17677 SZA HALT	/AC=740040 /ADDRESS 17677
		/TEST DZM 17677, AC=740040
		/ERROR; MA 17677 NOT 0, DZM FAILED
F1129,	LAC KHALT DZM 17737 LAC 17737 SZA HALT	/AC=740040 /ADDRESS 17737
		/TEST DZM 17737, AC=740040
		/ERROR; MA 17737 NOT 0, DZM FAILED
		/TEST DZM 17757, AC=740040
	LAC KHALT DZM 17757 LAC 17757 SZA	/AC=740040 /ADDRESS 17757

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E1130,      HALT                /ERROR; MA 17757 NOT 0, DZM FAILED

                                /TEST DZM 17767, AC=740040
                                /AC=740040
                                /ADDRESS 17767
LAC KHALT
DZM 17767
LAC 17767
SZA
E1131,      HALT                /ERROR; MA 17767 NOT 0, DZM FAILED

                                /TEST DZM 17773, AC=740040
                                /AC=740040
                                /ADDRESS 17773
LAC KHALT
DZM 17773
LAC 17773
SZA
E1132,      HALT                /ERROR; MA 17773 NOT 0, DZM FAILED

                                /TEST DZM 17775, AC=740040
                                /AC=740040
                                /ADDRESS 17775
LAC KHALT
DZM 17775
LAC 17775
SZA
E1133,      HALT                /ERROR; MA 17775 NOT 0, DZM FAILED

                                /TEST DZM 17776, AC=740040
                                /AC=740040
                                /ADDRESS 17776
LAC KHALT
DZM 17776
LAC 17776
SZA
E1134,      HALT                /ERROR; MA 17776 NOT 0, DZM FAILED

                                /TEST AC AFTER A DZM
                                /AC=ONES
                                /ADDRESS 17777
LAC K7S
DZM 17777
CMA
SZA
E1135,      HALT                /ERROR; AC NOT ONES AFTER DZM

                                /TEST AC, LINK, ADDR, 17777 AFTER
                                /A DZM, AC=ONES, L=0
                                /AC=ONES
                                /ADDRESS 17777
LAC K7S
DZM 17777
CMA
SZA
E1136,      HALT                /ERROR; AC NOT ONES AFTER A DZM

                                /ERROR; LINK NOT A ZERO AFTER A DZM
LAC 17777
SZA
E1137,      HALT                /ERROR; MA 17777 NOT 0, DZM FAILED

                                /TEST DZM SERIES
                                /AC=ONES
                                /ADDRESS 12525
                                /ADDRESS 15252
                                /ADDRESS 17777
                                /ADDRESS 10000
LAC K7S
DZM 12525
DZM 15252
DZM 17777
DZM 10000
CMA
CLA!SZA

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E1138,	HALT TAD 12525 TAD 5252 TAD 17777 TAD 10000 SZA HALT	/ERROR; AC NOT ONES AFTER DZM SERIES
E1139,	HALT  LAC K0 DAC 0 SAD 0 SKP HALT	/ERROR; DZM FAILED; ADDRESSES /NOT 0  /TEST DAC 0, AC=0 /AC=0 /ADDRESS 0
E1140,	HALT  LAC K1 DAC 1 SAD 1 SKP HALT	/ERROR; DAC ADDRESS CONTENTS NOT /EQUAL TO THE AC, DAC FAILED  /TEST DAC 1, AC=1 /AC=1 /ADDRESS 1
E1141,	HALT  LAC K2 DAC 2 SAD 2 SKP HALT	/ERROR; DAC ADDRESS CONTENTS NOT /EQUAL TO THE AC, DAC FAILED  /TEST DAC 2, AC=2 /AC=2 /ADDRESS 2
E1142,	HALT  LAC K4 DAC 4 SAD 4 SKP HALT	/ERROR; DAC ADDRESS CONTENTS NOT /EQUAL TO THE AC, DAC FAILED  /TEST DAC 4, AC=4 /AC=4 /ADDRESS
E1143,	HALT  LAC K10 DAC 10 SAD 10 SKP HALT	/ERROR; DAC ADDRESS CONTENTS NOT /EQUAL TO THE AC DAC FAILED  /TEST DAC 10, AC=10 /AC=10 /ADDRESS
E1144,	HALT  LAC K20 DAC 20 SAD 20 SKP HALT	/ERROR; DAC ADDRESS CONTENTS NOT /EQUAL TO THE AC, DAC FAILED  /TEST DAC 20, AC=20 /AC=20 /ADDRESS 20
E1145,	HALT	/ERROR; DAC ADDRESS CONTENTS NOT /EQUAL TO THE AC, DAC FAILED  /TEST DAC 10040, AC=10040

	LAC K10040	/AC=10040
	DAC 10040	/ADDRESS 10040
	SAD 10040	
	SKP	
E1146,	HALT	/ERROR; DAC ADDRESS CONTENTS NOT /EQUAL TO THE AC, DAC FAILED
		/TEST DAC 10100, AC=10100
	LAC K100	/AC=10100
	DAC 10100	/ADDRESS 10100
	SAD 10100	
	SKP	
E1147,	HALT	/ERROR; DAC ADDRESS CONTENTS NOT /EQUAL TO THE AC, DAC FAILED
		/TEST DAC 10200, AC=10200
	LAC K200	/AC=10200
	DAC 10200	/ADDRESS 10200
	SAD 10200	
	SKP	
E1148,	HALT	/ERROR; DAC ADDRESS CONTENTS NOT /EQUAL TO THE AC, DAC FAILED
		/TEST DAC 10400, AC=10400
	LAC K400	/AC=10400
	DAC 10400	/ADDRESS 10400
	SAD 10400	
	SKP	
E1149,	HALT	/ERROR; DAC ADDRESS CONTENTS NOT /EQUAL TO THE AC, DAC FAILED
		/TEST DAC 11000, AC=11000
	LAC K11K	/AC=11000
	DAC 11000	/ADDRESS 11000
	SAD 11000	
	SKP	
E1150,	HALT	/ERROR; DAC ADDRESS CONTENTS NOT /EQUAL TO THE AC, DAC FAILED
		/TEST DAC 12000, AC=12000
	LAC K12K	/AC=12000
	DAC 12000	/ADDRESS 12000
	SAD 12000	
	SKP	
E1151,	HALT	/ERROR; DAC ADDRESS CONTENTS NOT /EQUAL TO THE AC, DAC FAILED
		/TEST DAC 14000, AC=14000
	LAC K14K	/AC=14000
	DAC 14000	/ADDRESS 14000
	SAD 14000	
	SKP	
E1152,	HALT	/ERROR; DAC ADDRESS CONTENTS NOT /EQUAL TO THE AC, DAC FAILED
		/TEST DAC 10000, AC=10000
	LAC K10K	/AC=10000
	DAC 10000	/ADDRESS 10000
	SAD 10000	
	SKP	

F1153,	HALT	/ERROR; DAC ADDRESS CONTENTS NOT /EQUAL TO THE AC, DAC FAILED
	LAC M10K	/TEST DAC 17777, AC=M10K
	DAC 17777	/AC=76777
	SAD 17777	/ADDRESS 17777
	SKP	
F1154,	HALT	/ERROR; DAC ADDRESS CONTENTS NOT /EQUAL TO THE AC, DAC FAILED
	LAC M4K	/TEST DAC 13777, AC=M4K
	DAC 13777	/AC=773777
	SAD 13777	/ADDRESS 13777
	SKP	
E1155,	HALT	/ERROR; DAC ADDRESS CONTENTS NOT /EQUAL TO THE AC, DAC FAILED
	LAC M2K	/TEST DAC 35777, AC=M2K
	DAC 15777	/AC=775777
	SAD 15777	/ADDRESS 15777
	SKP	
F1156,	HALT	/ERROR; DAC ADDRESS CONTENTS NOT /EQUAL TO THE AC, DAC FAILED
	LAC M1K	/TEST DAC 36777, AC=776777
	DAC 16777	/AC=776777
	SAD 16777	/ADDRESS 16777
	SKP	
E1157,	HALT	/ERROR; DAC ADDRESS CONTENTS NOT /EQUAL TO THE AC, DAC FAILED
	LAC M400	/TEST DAC 17377, AC=M400
	DAC 17377	/AC=777377
	SAD 17377	/ADDRESS 17377
	SKP	
E1158,	HALT	/ERROR; DAC ADDRESS CONTENTS NOT /EQUAL TO THE AC, DAC FAILED
	LAC M200	/TEST DAC 17577, AC=M200
	DAC 17577	/AC=777577
	SAD 17577	/ADDRESS 17577
	SKP	
E1159,	HALT	/ERROR; DAC ADDRESS CONTENTS NOT /EQUAL TO THE AC, DAC FAILED

E1160,	LAC M100 DAC 17677 SAD 17677 SKP HALT	/TEST DAC 17677, AC=M100 /AC=777677 /ADDRESS 17677  /ERROR; DAC ADDRESS CONTENTS NOT /EQUAL TO THE AC, DAC FAILED
E1161,	LAC M40 DAC 17737 SAD 17737 SKP HALT	/TEST DAC 17737, AC=M40 /AC=777737 /ADDRESS 17737  /ERROR; DAC ADDRESS CONTENTS NOT /EQUAL TO THE AC, DAC FAILED
E1162,	LAC M20 DAC 17757 SAD 17757 SKP HALT	/TEST DAC 17757, AC=M20 /AC=777757 /ADDRESS 17757  /ERROR; DAC ADDRESS CONTENTS NOT /EQUAL TO THE AC, DAC FAILED
E1163,	LAC M10 DAC 17767 SAD 17767 SKP HALT	/TEST DAC 17767, AC=M10 /AC=777767 /ADDRESS 17767  /ERROR; DAC ADDRESS CONTENTS NOT /EQUAL TO THE AC, DAC FAILED
E1164,	LAC M4 DAC 17773 SAD 17773 SKP HALT	/TEST DAC 17773, AC=M4 /AC=777773 /ADDRESS 17773  /ERROR; DAC ADDRESS CONTENTS NOT /EQUAL TO THE AC, DAC FAILED
E1165,	LAC M2 DAC 17775 SAD 17775 SKP HALT	/TEST DAC 17775, AC=M2 /AC=777775 /ADDRESS 17775  /ERROR; DAC ADDRESS CONTENTS NOT /EQUAL TO THE AC, DAC FAILED
E1166,	LAC M1 DAC 17776 SAD 17776 SKP HALT	/TEST DAC 17776, AC=M1 /AC=777776 /ADDRESS  /ERROR; DAC ADDRESS CONTENTS NOT /EQUAL TO THE AC, DAC FAILED

/TEST DAC SERIES, L=0

	CLL	
	LAC K7S	/AC=ONES
	DAC 12525	/ADDRESS 12525
	DAC 15252	/ADDRESS 15252
	DAC 17777	/ADDRESS 17777
	DAC 11000	/ADDRESS 11000
	CMA	/AC=0
E1167,	CLA!SZA	
	HALT	/ERROR; AC NOT ONES AFTER DAC SERIES
	ADD 12525	/ONES
	ADD 15252	/ONES
	ADD 17777	/ONES
	ADD 11000	/ONES
	CMA	/AC=0
E1168,	SZA	
	HALT	/ERROR; DAC FAILED, ADDRESSES NOT /ONES
	LAC K0	/TEST ISZ 0, (0)=0 /AC=0
	DAC 0	
	ISZ 0	/ADDRESS =0
F1169,	SKP!CLA!CMA	/AC=ONES
	HALT	/ERROR; ISZ SKIPPED
	AND K1	/AC=1
	SAD 0	/ADDRESS=0
E1170,	SKP	
	HALT	/ERROR; (0) NOT 1, ISZ /FAILED
	LAC K1	/TEST ISZ 0, (0)=1 /AC=1
	DAC 0	
	ISZ 0	/ADDRESS=0
F1171,	SKP!CLA!CMA	/AC=ONES
	HALT	/ERROR; ISZ SKIPPED
	AND K2	/AC=2
	SAD 0	/ADDRESS=0
E1172,	SKP	
	HALT	/ERROR; (0) NOT 2 ISZ /FAILED
	LAC K3	/TEST ISZ 0, (0)=3 /AC=3
	DAC 0	
	ISZ 0	/ADDRESS=0
E1173,	SKP!CLA!CMA	/AC=ONES
	HALT	/ERROR; ISZ SKIPPED
	AND K4	/AC=4
	SAD 0	/ADDRESS=0
E1174,	SKP	
	HALT	/ERROR; (0) NOT 4, ISZ /FAILED

	LAC K7	/TEST ISZ 0, (0)=7
	DAC 0	/AC=7
	ISZ 0	/ADDRESS=0
E1175,	SKP:CLA:ICMA	/AC=ONES
	HALT	/ERROR; ISZ SKIPPED
	AND K10	/AC=10
	SAD 0	/ADDRESS=0
	SKP	
F1176,	HALT	/ERROR; (0) NOT 10, ISZ
		/FAILED
		/TEST ISZ 0, (0)=17
	LAC K17	/AC=17
	DAC 0	
	ISZ 0	/ADDRESS=0
E1177,	SKP:CLA:ICMA	/AC=ONES
	HALT	/ERROR; ISZ SKIPPED
	AND K20	/AC=20
	SAD 0	/ADDRESS=0
	SKP	
F1178,	HALT	/ERROR; (0) NOT 20, ISZ
		/FAILED
		/TEST ISZ 0, (0)=37
	LAC K37	/AC=37
	DAC 0	
	ISZ 0	/ADDRESS=0
E1179,	SKP:CLA:ICMA	/AC=ONES
	HALT	/ERROR; ISZ SKIPPED
	AND K40	/AC=40
	SAD 0	/ADDRESS=0
	SKP	
E1180,	HALT	/ERROR; (0) NOT 40, ISZ
		/FAILED
		/TEST ISZ 0, (0)=77
	LAC K77	/AC=77
	DAC 0	
	ISZ 0	/ADDRESS=0
E1181,	SKP:CLA:ICMA	/AC=ONES
	HALT	/ERROR; ISZ SKIPPED
	AND K100	/AC=100
	SAD 0	/ADDRESS=0
	SKP	
F1182,	HALT	/ERROR; (0) NOT 100, ISZ
		/FAILED
		/TEST ISZ 0 (0)=177
	LAC K177	/AC=177
	DAC 0	
	ISZ 0	/ADDRESS=0
E1183,	SKP:CLA:ICMA	/AC=ONES
	HALT	/ERROR; ISZ SKIPPED
	AND K200	/AC=200
	SAD 0	/ADDRESS=0
	SKP	
F1184,	HALT	/ERROR; (0) NOT 200, ISZ
		/FAILED

	LAC K377	/TEST ISZ 0, (0)=377
	DAC 0	/AC=377
	ISZ 0	/ADDRESS=0
F1185,	SKP:CLA:CMA	/AC=ONES
	HALT	/ERROR; ISZ SKIPPED
	AND K400	/AC=4000
	SAD 0	/ADDRESS=0
	SKP	
E1186,	HALT	/ERROR; (0) NOT 4000, ISZ
		/FAILED
	LAC K777	/TEST ISZ 0, (0)=777
	DAC 0	/AC=777
	ISZ 0	/ADDRESS=0
F1187,	SKP:CLA:CMA	/AC=ONES
	HALT	/ERROR; ISZ SKIPPED
	AND K1K	/AC=1000
	SAD 0	/ADDRESS=0
	SKP	
E1188,	HALT	/ERROR; (0) NOT 1000, ISZ
		/FAILED
	LAC K1777	/TEST ISZ 0, (0)=1777
	DAC 0	/AC=1777
	ISZ 0	/ADDRESS=0
F1189,	SKP:CLA:CMA	/AC=ONES
	HALT	/ERROR; ISZ SKIPPED
	AND K2K	/AC=2000
	SAD 0	/ADDRESS=0
	SKP	
E1190,	HALT	/ERROR; (0) NOT 2000, ISZ
		/FAILED
	LAC K3777	/TEST ISZ 0, (0)=3777
	DAC 0	/AC=3777
	ISZ 0	/ADDRESS=0
F1191,	SKP:CLA:CMA	/AC=ONES
	HALT	/ERROR; ISZ SKIPPED
	AND K4K	/AC=4000
	SAD 0	/ADDRESS=0
	SKP	
E1192,	HALT	/ERROR; (0) NOT 4000, ISZ
		/FAILED
	LAC K7777	/TEST ISZ 0, (0)=7777
	DAC 0	/AC=7777
	ISZ 0	/ADDRESS=0
F1193,	SKP:CLA:CMA	/AC=ONES
	HALT	/ERROR; ISZ SKIPPED
	AND K1K	/AC=1000
	SAD 0	/ADDRESS=0
	SKP	
E1194,	HALT	/ERROR; (0) NOT 1000, ISZ
		/FAILED
		/TEST ISZ 0, (0)=17777

	LAC K17777	/AC=17777
	DAC 0	
	ISZ 0	/ADDRESS=0
E1195,	SKP:CLA:CMA	/AC=ONES
	HALT	/ERROR; ISZ SKIPPED
	AND K20K	/AC=20K
	SAD 0	/ADDRESS=0
E1196,	SKP	
	HALT	/ERROR; (0) NOT 20K, ISZ
		/FAILED
		/TEST ISZ 0, (0)=37777
	LAC K37777	/AC=37777
	DAC 0	
	ISZ 0	/ADDRESS=0
E1197,	SKP:CLA:CMA	/AC=ONES
	HALT	/ERROR; ISZ SKIPPED
	AND K40K	/AC=40K
	SAD 0	/ADDRESS=0
E1198,	SKP	
	HALT	/ERROR; (0) NOT 40K, ISZ
		/FAILED
		/TEST ISZ 0, (0)=77777
	LAC K77777	/AC=77777
	DAC 0	
	ISZ 0	/ADDRESS=0
E1199,	SKP:CLA:CMA	/AC=ONES
	HALT	/ERROR; ISZ SKIPPED
	AND K100K	/AC=100K
	SAD 0	/ADDRESS=0
E1200,	SKP	
	HALT	/ERROR; (0) NOT 100K, ISZ
		/FAILED
		/TEST ISZ 0, (0)=177777
	LAC M600K	/AC=177777
	DAC 0	
	ISZ 0	/ADDRESS=0
E1201,	SKP:CLA:CMA	/AC=ONES
	HALT	/ERROR; ISZ SKIPPED
	AND K200K	/AC=200K
	SAD 0	/ADDRESS=0
E1202,	SKP	
	HALT	/ERROR; (0) NOT 200K, ISZ
		/FAILED
		/TEST ISZ 0, (0)=377777
	LAC M400K	/AC=377777
	DAC 0	
	ISZ 0	/ADDRESS=0
E1203,	SKP:CLA:CMA	/AC=ONES
	HALT	/ERROR; ISZ SKIPPED
	AND K400K	/AC=400K
	SAD 0	/ADDRESS=0
E1204,	SKP	
	HALT	/ERROR; (0) NOT 400K, ISZ
		/FAILED
START		



/INST TEST TAPE 12

	LAC M1	/TEST ISZ 17777, (17777)=777776
	DAC 17777	/AC=777776
	ISZ 17777	/ADDRESS=17777
F1205,	SKP:CLA:CMA	/AC=ONES
	HALT	/ERROR; ISZ SKIPPED
	AND R7S	/AC=777777
	SAD 17777	/ADDRESS=17777
F1206,	SKP	/ERROR; (17777) NOT 777777, ISZ
	HALT	/FAILED
	LAC M2	/TEST ISZ 17777, (17777)=777775
	DAC 17777	/AC=777775
	ISZ 17777	/ADDRESS=17777
F1207,	SKP:CLA:CMA	/AC=ONES
	HALT	/ERROR; ISZ SKIPPED
	AND M1	/AC=777776
	SAD 17777	/ADDRESS=17777
F1208,	SKP	/ERROR; (17777) NOT 777776 ISZ
	HALT	/FAILED
	LAC M4	/TEST ISZ 17777, (17777)=777773
	DAC 17777	/AC=777773
	ISZ 17777	/ADDRESS=17777
F1209,	SKP:CLA:CMA	/AC=ONES
	HALT	/ERROR; ISZ SKIPPED
	AND M3	/AC=777774
	SAD 17777	/ADDRESS=17777
F1210,	SKP	/ERROR; (17777) NOT 777774, ISZ
	HALT	/FAILED
	LAC M10	/TEST ISZ 17777, (17777)=777767
	DAC 17777	/AC=777767
	ISZ 17777	/ADDRESS=17777
F1211,	SKP:CLA:CMA	/AC=ONES
	HALT	/ERROR; ISZ SKIPPED
	AND M7	/AC=777770
	SAD 17777	/ADDRESS=17777
F1212,	SKP	/ERROR; (17777) NOT 777770, ISZ
	HALT	/FAILED
	LAC M20	/TEST ISZ 17777, (17777)=777757
	DAC 17777	/AC=777757
	ISZ 17777	/ADDRESS=17777
F1213,	SKP:CLA:CMA	/AC=ONES
	HALT	/ERROR; ISZ SKIPPED
	AND M17	/AC=777760
	SAD 17777	/ADDRESS=17777
F1214,	SKP	/ERROR; (17777) NOT 777760, ISZ
	HALT	/FAILED

		/TEST ISZ 17777, (17777)=777737
	LAC M4E	/AC=777737
	DAC 17777	
	ISZ 17777	/ADDRESS=17777
E1215,	SKP:CLA:CMA	/AC=ONES
	HALT	/ERROR; ISZ SKIPPED
	AND M37	/AC=777740
	SAD 17777	/ADDRESS=17777
	SKP	
E1216,	HALT	/ERROR; (17777) NOT 777740, ISZ
		/FAILED
		/TEST ISZ 17777, (17777)=777677
	LAC M100	/AC=777677
	DAC 17777	
	ISZ 17777	/ADDRESS=17777
E1217,	SKP:CLA:CMA	/AC=ONES
	HALT	/ERROR; ISZ SKIPPED
	AND M77	/AC=777700
	SAD 17777	/ADDRESS=17777
	SKP	
E1218,	HALT	/ERROR; ISZ SKIPPED
		/FAILED
		/TEST ISZ 17777, (17777)=777577
	LAC M200	/AC=777577
	DAC 17777	
	ISZ 17777	/ADDRESS 17777
E1219,	SKP:CLA:CMA	/AC=ONES
	HALT	/ERROR; ISZ SKIPPED
	AND M177	/AC=777600
	SAD 17777	/ADDRESS=17777
	SKP	
E1220,	HALT	/ERROR; (17777) NOT 77760, ISZ
		/FAILED
		/TEST ISZ 17777, (17777)=777377
	LAC M400	/AC=777377
	DAC 17777	
	ISZ 17777	/ADDRESS=17777
E1221,	SKP:CLA:CMA	/AC=ONES
	HALT	/ERROR; (17777) NOT 77760, ISZ
	AND M377	/AC=777400
	SAD 17777	/ADDRESS=17777
	SKP	
E1222,	HALT	/ERROR; (17777) NOT 777400, ISZ
		/FAILED
		/TEST ISZ 17777, (17777)=776777
	LAC M1K	/AC=776777
	DAC 17777	
	ISZ 17777	/ADDRESS=17777
E1223,	SKP:CLA:CMA	/AC=ONES
	HALT	/ERROR; ISZ SKIPPED
	AND M777	/AC=777000
	SAD 17777	/ADDRESS=17777
	SKP	
E1224,	HALT	/ERROR; (17777) NOT 777000, ISZ
		/FAILED
		/TEST ISZ 17777, (17777)=775777

	LAC M2K	/AC=775777
	DAC 17777	
	ISZ 17777	/ADDRESS=17777
E1225,	SKP!CLA!CMA	/AC=ONES
	HALT	/ERROR; (17777) NOT 776000, ISZ
	AND M1777	/AC=776000
	SAD 17777	/ADDRESS = 17777
	SKP	
E1226,	HALT	/ERROR; (17777) NOT 776000, ISZ
		/FAILED
		/TEST ISZ 17777, (17777)=773777
		/AC=773777
	LAC M4K	
	DAC 17777	
	ISZ 17777	/ADDRESS=17777
E1227,	SKP!CLA!CMA	/AC=ONES
	HALT	/ERROR; ISZ SKIPPED
	AND M3777	/AC=774000
	SAD 17777	/ADDRESS=17777
	SKP	
E1228,	HALT	/ERROR; (17777) NOT 774000, ISZ
		/FAILED
		/TEST ISZ 17777, (17777)=767777
		/AC=767777
	LAC M10K	
	DAC 17777	
	ISZ 17777	/ADDRESS=17777
E1229,	SKP!CLA!CMA	/AC=ONES
	HALT	/ERROR; ISZ SKIPPED
	AND M7777	/AC=770000
	SAD 17777	/ADDRESS=17777
	SKP	
E1230,	HALT	/ERROR; (17777) NOT 770000, ISZ
		/FAILED
		/TEST ISZ 17777, (17777)=757777
		/AC=757777
	LAC M20K	
	DAC 17777	
	ISZ 17777	/ADDRESS=17777
E1231,	SKP!CLA!CMA	/AC=ONES
	HALT	/ERROR; (17777) NOT 770000, ISZ
	AND M17777	/AC=760000
	SAD 17777	/ADDRESS=17777
	SKP	
E1232,	HALT	/ERROR; (17777) NOT 760000, ISZ
		/FAILED
		/TEST ISZ 17777, (17777)=737777
		/AC=737777
	LAC M40K	
	DAC 17777	
	ISZ 17777	/ADDRESS=17777
E1233,	SKP!CLA!CMA	/AC=ONES
	HALT	/ERROR; (17777) NOT 760000, ISZ
	AND M37777	/AC=740000
	SAD 17777	/ADDRESS=17777
	SKP	
E1234,	HALT	/ERROR; (17777) NOT 740000, ISZ
		/FAILED

	LAC #100K	/TEST ISZ 17777, (17777)=677777
	DAC 17777	/AC=677777
	ISZ 17777	/ADDRESS=17777
E1235,	SKP!CLA!CMA	/AC=ONES
	HALT	/ERROR; ISZ SKIPPED
	AND #77777	/AC=700000
	SAD 17777	/ADDRESS=17777
E1236,	SKP	
	HALT	/ERROR; (17777) NOT 700000, ISZ
		/FAILED
		/TEST ISZ 17777, (17777)=57777
	LAC #200K	/AC=577777
	DAC 17777	
	ISZ 17777	/ADDRESS=17777
E1237,	SKP!CLA!CMA	/AC=ONES
	HALT	/ERROR; ISZ SKIPPED
	AND #600K	/AC=600000
	SAD 17777	/ADDRESS=17777
E1238,	SKP	
	HALT	/ERROR; (17777) NOT 600000, ISZ
		/FAILED
		/TEST ISZ 17777, (17777)=37777
	LAC #400K	/AC=177777
	DAC 17777	
	ISZ 17777	/ADDRESS=17777
F1239,	SKP!CLA!CMA	/AC=ONES
	HALT	/ERROR; ISZ SKIPPED
	AND #400K	/AC=400000
	SAD 17777	/ADDRESS=17777
E1240,	SKP	
	HALT	/ERROR; (17777) NOT 400000, ISZ
		/FAILED
		/TEST ISZ 0, (0)=ONES
	CLA	/AC=0
	XOR #7S	/AC=ONES
	DAC 0	
	ISZ 0	/ADDRESS=0
F1241,	HALT	/ERROR; ISZ FAILED TO SKIP
	LAC 0	/ADDRESS=0
E1242,	SZA	
	HALT	/ERROR; (0) NOT 0, ISZ FAILED
		/TEST ISZ 1, (1)=ONES
	CLA	/AC=0
	XOR #7S	/AC=ONES
	DAC 1	
	ISZ 1	/ADDRESS=1
E1243,	HALT	/ERROR; ISZ FAILED TO SKIP
	LAC 1	/ADDRESS=1
E1244,	SZA	
	HALT	/ERROR; (1) NOT 0, ISZ FAILED
		/TEST ISZ 2, (2)=ONES

	CLA	/AC=0
	XOR K7S	/AC=ONES
	DAC 2	
	ISZ 2	/ADDRESS=2
E1245,	HALT	/ERROR; ISZ FAILED TO SKIP
	LAC 2	/ADDRESS=2
	SZA	
F1246,	HALT	/ERROR; (2) NOT 0, ISZ FAILED
		/TEST ISZ 4, (4)=ONES
	CLA	/AC=0
	XOR K7S	/AC=ONES
	DAC 4	
	ISZ 4	/ADDRESS=4
E1247,	HALT	/ERROR; ISZ FAILED TO SKIP
	LAC 4	/ADDRESS=4
	SZA	
F1248,	HALT	/ERROR; ISZ FAILED TO SKIP
		/TEST ISZ 10, (10)=ONES
	CLA	/AC=0
	XOR K7S	/AC=ONES
	DAC 10	
	ISZ 10	/ADDRESS=10
E1249,	HALT	/ERROR; ISZ FAILED TO SKIP
	LAC 10	/ADDRESS=10
	SZA	
E1250,	HALT	/ERROR; (10) NOT 0, ISZ FAILED
		/TEST ISZ 20, (20)=ONES
	CLA	/AC=0
	XOR K7S	/AC=ONES
	DAC 20	
	ISZ 20	/ADDRESS=20
E1251,	HALT	/ERROR; ISZ FAILED TO SKIP
	LAC 20	/ADDRESS=20
	SZA	
F1252,	HALT	/ERROR; (20) NOT 0, ISZ FAILED
		/TEST ISZ 10040=ONES
	CLA	/AC=0
	XOR K7S	/AC=ONES
	DAC 10040	
	ISZ 10040	/ADDRESS=10040
E1253,	HALT	/ERROR; ISZ FAILED TO SKIP
	LAC 10040	/ADDRESS=10040
	SZA	
F1254,	HALT	/ERROR; (10040) NOT 0; ISZ FAILED
		/TEST ISZ 10100=ONES

```

          CLA                               /AC=0
          XOR *75                           /AC=ONES
          DAC 10100
          ISZ 10100                         /ADDRESS=10100
E1255,   HALT                             /ERROR; ISZ FAILED TO SKIP
          LAC 10100                         /ADDRESS=10100
          SZA
E1256,   HALT                             /ERROR; 10100 NOT 0, ISZ FAILED

          /TEST ISZ 10200=ONES
          CLA                               /AC=0
          XOR *75                           /AC=ONES
          DAC 10200
          ISZ 10200                         /ADDRESS=10200
E1257,   HALT                             /ERROR; ISZ FAILED TO SKIP
          LAC 10200                         /ADDRESS=10200
          SZA
E1258,   HALT                             /ERROR; 10200 NOT 0, ISZ FAILED

          /TEST ISZ 10400=ONES
          CLA                               /AC=0
          XOR *75                           /AC=ONES
          DAC 10400
          ISZ 10400                         /ADDRESS=10400
E1259,   HALT                             /ERROR; ISZ FAILED TO SKIP
          LAC 10400                         /ADDRESS=10400
          SZA
E1260,   HALT                             /ERROR; 10400 NOT 0, ISZ FAILED

          /TEST ISZ 11000=ONES
          CLA                               /AC=0
          XOR *75                           /AC=ONES
          DAC 11000
          ISZ 11000                         /ADDRESS=11000
E1261,   HALT                             /ERROR; ISZ FAILED TO SKIP
          LAC 11000                         /ADDRESS=11000
          SZA
E1262,   HALT                             /ERROR; ISZ FAILED TO SKIP

          /TEST ISZ 12000=ONES
          CLA                               /AC=0
          XOR *75                           /AC=ONES
          DAC 12000
          ISZ 12000                         /ADDRESS=12000
E1263,   HALT                             /ERROR; ISZ FAILED TO SKIP
          LAC 12000                         /ADDRESS=12000
          SZA
E1264,   HALT                             /ERROR; (12000) NOT 0, ISZ FAILED

          /TEST ISZ 14000=ONES
          CLA                               /AC=0
          XOR *75                           /AC=ONES
          DAC 14000
          ISZ 14000                         /ADDRESS=14000
E1265,   HALT                             /ERROR; ISZ FAILED TO SKIP
          LAC 14000                         /ADDRESS=14000
          SZA
E1266,   HALT                             /ERROR; (14000) NOT 0, ISZ FAILED

          /TEST ISZ 10000, (10000)=ONES

```

	CLA	/AC=0
	XOR K7S	/AC=ONES
	DAC 2	
	ISZ 2	/ADDRESS=2
E1245,	HALT	/ERROR; ISZ FAILED TO SKIP
	LAC 2	/ADDRESS=2
	SZA	
E1246,	HALT	/ERROR; (2) NOT 0, ISZ FAILED
		/TEST ISZ 4, (4)=ONES
	CLA	/AC=0
	XOR K7S	/AC=ONES
	DAC 4	
	ISZ 4	/ADDRESS=4
E1247,	HALT	/ERROR; ISZ FAILED TO SKIP
	LAC 4	/ADDRESS=4
	SZA	
E1248,	HALT	/ERROR; ISZ FAILED TO SKIP
		/TEST ISZ 10, (10)=ONES
	CLA	/AC=0
	XOR K7S	/AC=ONES
	DAC 10	
	ISZ 10	/ADDRESS=10
E1249,	HALT	/ERROR; ISZ FAILED TO SKIP
	LAC 10	/ADDRESS=10
	SZA	
E1250,	HALT	/ERROR; (10) NOT 0, ISZ FAILED
		/TEST ISZ 20, (20)=ONES
	CLA	/AC=0
	XOR K7S	/AC=ONES
	DAC 20	
	ISZ 20	/ADDRESS=20
E1251,	HALT	/ERROR; ISZ FAILED TO SKIP
	LAC 20	/ADDRESS=20
	SZA	
E1252,	HALT	/ERROR; (20) NOT 0, ISZ FAILED
		/TEST ISZ 10040=ONES
	CLA	/AC=0
	XOR K7S	/AC=ONES
	DAC 10040	
	ISZ 10040	/ADDRESS=10040
E1253,	HALT	/ERROR; ISZ FAILED TO SKIP
	LAC 10040	/ADDRESS=10040
	SZA	
E1254,	HALT	/ERROR; (10040) NOT 0; ISZ FAILED
		/TEST ISZ 10100=ONES

	CLA	/AC=0
	XOR *75	/AC=ONES
	DAC 10100	
	ISZ 10100	/ADDRESS=10100
E1255,	HALT	/ERROR; ISZ FAILED TO SKIP
	LAC 10100	/ADDRESS=10100
	SZA	
E1256,	HALT	/ERROR; 10100 NOT 0, ISZ FAILED
		/TEST ISZ 10200=ONES
	CLA	/AC=0
	XOR *75	/AC=ONES
	DAC 10200	
	ISZ 10200	/ADDRESS=10200
E1257,	HALT	/ERROR; ISZ FAILED TO SKIP
	LAC 10200	/ADDRESS=10200
	SZA	
E1258,	HALT	/ERROR; 10200 NOT 0, ISZ FAILED
		/TEST ISZ 10400=ONES
	CLA	/AC=0
	XOR *75	/AC=ONES
	DAC 10400	
	ISZ 10400	/ADDRESS=10400
E1259,	HALT	/ERROR; ISZ FAILED TO SKIP
	LAC 10400	/ADDRESS=10400
	SZA	
E1260,	HALT	/ERROR; 10400 NOT 0, ISZ FAILED
		/TEST ISZ 11000=ONES
	CLA	/AC=0
	XOR *75	/AC=ONES
	DAC 11000	
	ISZ 11000	/ADDRESS=11000
E1261,	HALT	/ERROR; ISZ FAILED TO SKIP
	LAC 11000	/ADDRESS=11000
	SZA	
E1262,	HALT	/ERROR; ISZ FAILED TO SKIP
		/TEST ISZ 12000=ONES
	CLA	/AC=0
	XOR *75	/AC=ONES
	DAC 12000	
	ISZ 12000	/ADDRESS=12000
E1263,	HALT	/ERROR; ISZ FAILED TO SKIP
	LAC 12000	/ADDRESS=12000
	SZA	
E1264,	HALT	/ERROR; (12000) NOT 0, ISZ FAILED
		/TEST ISZ 14000=ONES
	CLA	/AC=0
	XOR *75	/AC=ONES
	DAC 14000	
	ISZ 14000	/ADDRESS=14000
E1265,	HALT	/ERROR; ISZ FAILED TO SKIP
	LAC 14000	/ADDRESS=14000
	SZA	
E1266,	HALT	/ERROR; (14000) NOT 0, ISZ FAILED
		/TEST ISZ 10000, (10000)=ONES



	CLA	/AC=0
	XOR K7S	/AC=ONES
	DAC 10000	
	ISZ 10000	/ADDRESS=10000
E1267,	HALT	/ERROR; (4000) NOT 0, ISZ FAILED
	LAC 10000	/ADDRESS=10000
	SZA	
E1268,	HALT	/ERROR; (10000) NOT 0, ISZ FAILED
		/TEST ISZ 17777, (17777)=ONES
	CLA	/AC=0
	XOR K7S	/AC=ONES
	DAC 17777	
	ISZ 17777	/ADDRESS=17777
E1269,	HALT	/ERROR; ISZ FAILED TO SKIP
	LAC 17777	/ADDRESS=17777
	SZA	
E1270,	HALT	/ERROR; (17777) NOT 0, ISZ FAILED
		/TEST ISZ 7777, (7777)=ONES
	CLA	/AC=0
	XOR K7S	/AC=ONES
	DAC 7777	
	ISZ 7777	/ADDRESS=7777
E1271,	HALT	/ERROR; ISZ FAILED TO SKIP
	LAC 7777	/ADDRESS=7777
	SZA	
E1272,	HALT	/ERROR; ISZ FAILED TO SKIP
		/TEST ISZ 13777, (13777)=ONES
	CLA	/AC=0
	XOR K7S	/AC=ONES
	DAC 13777	
	ISZ 13777	/ADDRESS=13777
E1273,	HALT	/ERROR; ISZ FAILED TO SKIP
	LAC 13777	/ADDRESS=13777
	SZA	
E1274,	HALT	/ERROR; (13777) NOT 0, ISZ FAILED
		/TEST ISZ 15777, (15777)=ONES
	CLA	/AC=0
	XOR K7S	/AC=ONES
	DAC 15777	
	ISZ 15777	/ADDRESS=15777
E1275,	HALT	/ERROR; ISZ FAILED TO SKIP
	LAC 15777	/ADDRESS=15777
	SZA	
E1276,	HALT	/ERROR; (15777) NOT 0, ISZ FAILED
		/TEST ISZ 16777, (16777)=ONES
	CLA	/AC=0
	XOR K7S	/AC=ONES
	DAC 16777	
	ISZ 16777	/ADDRESS=16777
E1277,	HALT	/ERROR; ISZ FAILED TO SKIP
	LAC 16777	/ADDRESS=16777
	SZA	
E1278,	HALT	/ERROR; (16777) NOT 0, ISZ FAILED

```

/TEST ISZ 17377, (17377)=ONES
CLA /AC=0
XOR K7S /AC=ONES
DAC 17377
ISZ 17377 /ADDRESS=17377
E1279, HALT /ERROR; ISZ FAILED TO SKIP
LAC 17377 /ADDRESS=17377
SZA
F1280, HALT /ERROR; (17377) NOT 0, ISZ FAILED

/TEST ISZ 17577, (17577)=ONES
CLA /AC=0
XOR K7S /AC=ONES
DAC 17577
ISZ 17577 /ADDRESS=17577
E1281, HALT /ERROR; ISZ FAILED TO SKIP
LAC 17577 /ADDRESS=17577
SZA
F1282, HALT /ERROR; (17577) NOT 0, ISZ FAILED

/TEST ISZ 17677, (17677)=ONES
CLA /AC=0
XOR K7S /AC=ONES
DAC 17677
ISZ 17677 /ADDRESS=17677
E1283, HALT /ERROR; ISZ FAILED TO SKIP
LAC 17677 /ADDRESS=17677
SZA
F1284, HALT /ERROR; (17677) NOT 0, ISZ FAILED

/TEST ISZ 17737, (17737)=ONES
CLA /AC=0
XOR K7S /AC=ONES
DAC 17737
ISZ 17737 /ADDRESS=17737
E1285, HALT /ERROR; ISZ FAILED TO SKIP
LAC 17737 /ADDRESS=17737
SZA
F1286, HALT /ERROR; (17737) NOT 0, ISZ FAILED

/TEST ISZ 17757, (17757) =ONES
CLA /AC=0
XOR K7S /AC=ONES
DAC 17757
ISZ 17757 /ADDRESS=17757
E1287, HALT /ERROR; ISZ FAILED TO SKIP
LAC 17757 /ADDRESS=17757
SZA
F1288, HALT /ERROR; (17757) NOT 0, ISZ FAILED

/TEST ISZ 17767, (17767)=ONES
CLA /AC=0
XOR K7S /AC=ONES
DAC 17767
ISZ 17767 /ADDRESS=17767
E1289, HALT /ERROR; ISZ FAILED TO SKIP
LAC 17767 /ADDRESS=17767
SZA
F1290, HALT /ERROR; (17767) NOT 0, ISZ FAILED
/TEST ISZ 17773, (17773)=ONES

```

	CLA	/AC=0
	XOR R7S	/AC=ONES
	DAC 17773	
	ISZ 17773	/ADDRESS=17773
E1291,	HALT	/ERROR; ISZ FAILED TO SKIP
	LAC 17773	/ADDRESS=17773
	SZA	
E1292,	HALT	/ERROR; (17773) NOT 0, ISZ FAILED
		/TEST ISZ 17775, (17775)=ONES
	CLA	/AC=0
	XOR R7S	/AC=ONES
	DAC 17775	
	ISZ 17775	/ADDRESS=17775
E1293,	HALT	/ERROR; ISZ FAILED TO SKIP
	LAC 17775	/ADDRESS=17775
	SZA	
E1294,	HALT	/ERROR; (17775) NOT 0, ISZ FAILED
		/TEST ISZ 17776, (17776) =ONES
	CLA	/AC=0
	XOR R7S	/AC=ONES
	DAC 17776	
	ISZ 17776	/ADDRESS=17776
E1295,	HALT	/ERROR; ISZ FAILED TO SKIP
	LAC 17776	/ADDRESS=17776
	SZA	
E1296,	HALT	/ERROR; (17776) NOT 0, ISZ FAILED
		/TEST ISZ 15252=ONES
	CLA	/AC=0
	XOR R7S	/AC=ONES
	DAC 15252	
	ISZ 15252	/ADDRESS=15252
E1297,	HALT	/ERROR; ISZ FAILED TO SKIP
	LAC 15252	/ADDRESS=15252
	SZA	
E1298,	HALT	/ERROR; (15252) NOT 0, ISZ FAILED
		/ISZ SERIES TEST, SKIP
	LAC R7S	/AC=ONES
	DAC 12525	
	DAC 15252	
	DAC 17777	
	DAC 11000	
	ISZ 12525	/ADDRESS=12525
	SKP	
	ISZ 15252	/ADDRESS=15252
	SKP	
	ISZ 17777	/ADDRESS=17777
	SKP	
	ISZ 11000	/ADDRESS=11000
E1299,	HALT	/ERROR; ISZ FAILED TO SKIP
	ADD 12525	
	ADD 15252	
	ADD 17777	
	ADD 11000	
	CMA	
	SZA	
E1300,	HALT	/ERROR; ALL ADDRESS NOT 0

```

/ISZ SERIES TEST, NO-SKIP
/AC=377777
LAC M400K
DAC 12525
DAC 15252
DAC 17777
DAC 11000
ISZ 12525 /ADDRESS=12525
ISZ 15252 /ADDRESS=15252
ISZ 17777 /ADDRESS=17777
ISZ 11000 /ADDRESS=11000
CLA
ADD 12525 /((12525)=400K
ADD 15252 /((15252)=400K
ADD 17777 /((17777)=400K
ADD 11000 /((11000)=400K
XOR K2 /RESULT=2
SZA
E1301, HALT /ERROR; ALL ADDRESSES NOT 400K
/TEST ISZ-SKP, SKIP
/AC=ONES
LAC K7S
DAC 15252 /ADDRESS=15252
ISZ 15252
SKP
E1302, SKP
HALT /ERROR; ISZ-SKP FAILED TO SKIP
/TEST SKP-ISZ, SKIP
/AC=ONES
LAC K7S
DAC 15252
SKP
NOP
E1303, ISZ 15252 /ADDRESS=15252
HALT /ERROR; SKP-ISZ FAILED TO SKIP
/TEST SKP-ISZ, NO-SKIP
/AC=0
LAC K0
DAC 15252
SKP
NOP
E1304, ISZ 15252 /ADDRESS=15252
SKP
HALT /ERROR; SKP-ISZ SKIPPED
START

```

/PPP-9 INSTRUCTION TEST PART 2 - TAPE 13

	LAC JMPRET	
	SZA	
EX,	HALT	/ERROR; JMP.-7 FAILED (INIT4K)
INIT4K,	LAC JMP22	/INITIATE UPPER 4K TO JMP22
	DAC JMPRET	/ERROR TABLE ADDRESS
	LAC K10K	/SA = 10000
	DAC RJCNT	/ADDRESS REGISTER
	SKP	
	DZM JMPRET	/CLEAR JMP.-7 ERROR TABLE
	LAC JMP22	
	DAC I RJCNT	/STORE JMP22
	ISZ RJCNT	/+1 TO ADDRESS REG
	LAC RJCNT	
	SAD K17777	/BA = 17777
	SKP	
	JMP .-7	/JMP .-7
	LAC JMPRET	
	SZA	
EXX,	HALT	/ERROR; JMP .-7 FAILED IN ABOVE
	LAC MOD	/ ROUTINE
MONX,	DAC FX-2	/PRESS CONTINUE TO DETERMINE JMP
	NOP	/ FAILURE
		/TEST JMP 0, RJMP0,
		/JMP TABLE ERROR ADDRESS
E1305,	LAC J0	
	SZA	
	HALT	/ERROR; JMP 0 OR RJMP0 FAILED
	LAC RJ0	
	DAC J0	/STORE JMP ADDRESS IN TABLE
	DAC "	/STORE RJMP INSTRUCTION
	JMP 0	/JMP TO 0
	SKP	
RJMP0,	DZM J0	/CLEAR J0 ERROR ADDRESS
		/TEST JMP 1, RJMP1,
		/JMP TABLE ERROR ADDRESS
E1306,	LAC J1	
	SZA	
	HALT	/ERROR; JMP 1 OR RJMP1 FAILED
	LAC RJ1	
	DAC J1	/STORE JMP ADDRESS IN TABLE
	DAC 1	/STORE RJMP INSTRUCTION
	JMP 1	/JMP TO 1
	SKP	
RJMP1,	DZM J1	/CLEAR J1 ERROR ADDRESS
		/TEST JMP 2, RJMP2,
		/JMP TABLE ERROR ADDRESS
E1307,	LAC J2	
	SZA	
	HALT	/ERROR; JMP 2 OR RJMP2 FAILED
	LAC RJ2	
	DAC J2	/STORE JMP ADDRESS IN TABLE
	DAC 2	/STORE RJMP INSTRUCTION
	JMP 2	/JMP TO 2
	SKP	
RJMP2,	DZM J2	/CLEAR J2 ERROR ADDRESS
		/TEST JMP 4, RJMP3,
		/JMP TABLE ERROR ADDRESS
	LAC J4	
	SZA	

E1308,	HALT	/ERROR; JMP 4 OR RJMP3 FAILED
	LAC RJ3	
	DAC J4	/STORE JMP ADDRESS IN TABLE
	DAC 4	/STORE RJMP INSTRUCTION
	JMP 4	/JMP TO 4
	SKP	
RJMP3,	DZM J4	/CLEAR J4 ERROR ADDRESS
	LAC J10	/TEST JMP 10, RJMP4,
	SZA	/JMP TABLE ERROR ADDRESS
E1309,	HALT	/ERROR; JMP 10 OR RJMP4 FAILED
	LAC RJ4	
	DAC J10	/STORE JMP ADDRESS IN TABLE
	DAC 10	/STORE RJMP INSTRUCTION
	JMP 10	/JMP TO 10
	SKP	
RJMP4,	DZM J10	/CLEAR J10 ERROR ADDRESS
	LAC J20	/TEST JMP 20, RJMP5,
	SZA	/JMP TABLE ERROR ADDRESS
E1310,	HALT	/ERROR; JMP 20 OR RJMP5 FAILED
	LAC RJ5	
	DAC J20	/STORE JMP ADDRESS IN TABLE
	DAC 20	/STORE RJMP INSTRUCTION
	JMP 20	/JMP TO 20
	SKP	
RJMP5,	DZM J20	/CLEAR J20 ERROR ADDRESS
	LAC J40	/TEST JMP 10040, RJMP6
	SZA	/JMP TABLE ERROR ADDRESS
E1311,	HALT	/ERROR; JMP 10040 OR RJMP6 FAILED
	LAC RJ6	
	DAC J40	/STORE JMP ADDRESS IN TABLE
	DAC 10040	/STORE RJMP INSTRUCTION
	JMP 10040	/JMP TO 10040
	SKP	
RJMP6,	DZM J40	/CLEAR J40 ERROR ADDRESS
	LAC J100	/TEST JMP 10100, RJMP7,
	SZA	/JMP TABLE ERROR ADDRESS
E1312,	HALT	/ERROR; JMP 10100 OR RJMP7 FAILED
	LAC RJ7	
	DAC J100	/STORE JMP ADDRESS IN TABLE
	DAC 10100	/STORE RJMP INSTRUCTION
	JMP 10100	/JMP TO 10100
	SKP	
RJMP7,	DZM J100	/CLEAR J100 ERROR ADDRESS
	LAC J200	/TEST JMP 10200, RJMP8,
	SZA	/JMP TABLE ERROR ADDRESS
E1313,	HALT	/ERROR; JMP 10200 OR RJMP8 FAILED
	LAC RJ8	
	DAC J200	/STORE JMP ADDRESS IN TABLE
	DAC 10200	/STORE RJMP INSTRUCTION
	JMP 10200	/JMP TO 10200
	SKP	

```

RJMPE,      DZM J200      /CLEAR J200 ERROR ADDRESS

                                /TEST JMP 10400, RJMP9
                                /JMP TABLE ERROR ADDRESS
E1314,      LAC J400
            SZA
            HALT          /ERROR; JMP 10400 OR RJMP9 FAILED
            LAC RJ9       /AC=400
            DAC J400      /STORE JMP ADDRESS IN TABLE
            DAC 10400     /STORE RJMP INSTRUCTION
            JMP 10400     /JMP TO 10400
            SKP
RJMPE9,     DZM J400      /CLEAR J400 ERROR ADDRESS

                                /TEST JMP 11000, RJMP 10,
                                /JMP TABLE ERROR ADDRESS
E1315,      LAC J1K
            SZA
            HALT          /ERROR; JMP 11000 OR RJMP10 FAILED
            LAC PJ10
            DAC J1K       /STORE JMP ADDRESS IN TABLE
            DAC 11000     /STORE RJMP INSTRUCTION
            JMP 11000     /JMP TO 11000
            SKP
RJMPE10,    DZM J1K      /CLEAR J1K ERROR ADDRESS
                                /TEST JMP 12000, RJMP11,
                                /JMP TABLE ERROR ADDRESS
E1316,      LAC J2K
            SZA
            HALT          /ERROR; JMP 12000 OR RJMP11 FAILED
            LAC RJ11
            DAC J2K       /STORE JMP ADDRESS IN TABLE
            DAC 12000     /STORE RJMP INSTRUCTION
            JMP 12000     /JMP TO 12000
            SKP
RJMPE11,    DZM J2K      /CLEAR J2K ERROR ADDRESS

                                /TEST JMP 14000, RJMP12,
                                /JMP TABLE ERROR ADDRESS
E1317,      LAC J4K
            SZA
            HALT          /ERROR; JMP 14000 OR RJMP12 FAILED
            LAC RJ12
            DAC J4K       /STORE JMP ADDRESS IN TABLE
            DAC 14000     /STORE RJMP INSTRUCTION
            JMP 14000     /JMP TO 14000
            SKP
RJMPE12,    DZM J4K      /CLEAR J4K ERROR ADDRESS

                                /TEST JMP 10000, RJMP 13,
                                /JMP TABLE ERROR ADDRESS
E1318,      LAC J10K
            SZA
            HALT          /ERROR; JMP 10000 OR RJMP13 FAILED
            DZM J10K      /CLEAR J10K TO CONTINUE AFTER ERROR
            LAC PJ13
            DAC J10K      /STORE JMP ADDRESS IN TABLE
            DAC 10000     /STORE RJMP INSTRUCTION
            JMP 10000     /JMP TO 10000
            SKP
RJMPE13,    DZM J10K     /CLEAR J10K ERROR ADDRESS

                                /TEST JMP 7777, RJMP14,
                                /JMP TABLE ERROR ADDRESS
            LAC JM10K
            SZA

```

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E1319,      HALT                /ERROR; JMP 7777 OR RJMP14 FAILED
            LAC RJ14
            DAC JM10K          /STORE JMP ADDRESS IN TABLE
            DAC 7777          /STORE RJMP INSTRUCTION
            JMP 7777          /JMP TO 7777
            SKP
RJMP14,     DZM JM10K          /CLEAR JM10K ERROR ADDRESS
            LAC JM4K          /TEST JMP 13777, RJMP15
            SZA                /JMP TABLE ERROR ADDRESS
E1320,     HALT                /ERROR; JMP 13777 OR RJMP15 FAILED
            LAC RJ15
            DAC JM4K          /STORE JMP ADDRESS IN TABLE
            DAC 13777        /STORE RJMP INSTRUCTION
            JMP 13777        /JMP TO 13777
            SKP
RJMP15,     DZM JM4K          /CLEAR JM4K ERROR ADDRESS
            LAC JM2K          /TEST JMP 15777, RJMP16
            SZA                /JMP TABLE ERROR ADDRESS
E1321,     HALT                /ERROR; JMP 15777 OR RJMP16 FAILED
            LAC RJ16
            DAC JM2K          /STORE JMP ADDRESS IN TABLE
            DAC 15777        /STORE RJMP INSTRUCTION
            JMP 15777        /JMP TO 15777
            SKP
RJMP16,     DZM JM2K          /CLEAR JM2K ERROR ADDRESS
            LAC JM1K          /TEST JMP 16777, RJMP17,
            SZA                /JMP TABLE ERROR ADDRESS
E1322,     HALT                /ERROR; JMP 16777 OR RJMP17 FAILED
            LAC RJ17
            DAC JM1K          /STORE JMP ADDRESS IN TABLE
            DAC 16777        /STORE RJMP INSTRUCTION
            JMP 16777        /JMP TO 16777
            SKP
RJMP17,     DZM JM1K          /CLEAR JM1K ERROR ADDRESS
            LAC JM400        /TEST JMP 17377, RJMP18,
            SZA                /JMP TABLE ERROR ADDRESS
E1323,     HALT                /ERROR; JMP 17377 OR RJMP18 FAILED
            LAC RJ18
            DAC JM400        /STORE JMP ADDRESS IN TABLE
            DAC 17377        /STORE RJMP INSTRUCTION
            JMP 17377        /JMP TO 17377
            SKP
RJMP18,     DZM JM400        /CLEAR J ERROR ADDRESS

```



		/TEST JMP 17577, RJMP19,	
	LAC JM200	/JMP TABLE ERROR ADDRESS	
	SZA		
F1324,	HALT	/ERROR; JMP17577 OR RJMP19 FAILED	
	LAC RJ19		
	DAC JM200	/STORE JMP ADDRESS IN TABLE	
	DAC 17577	/STORE RJMP INSTRUCTION	
	JMP 17577	/JMP TO 17577	
	SKP		
RJMP19,	DZM JM200	/CLEAR JM200 ERROR ADDRESS	
		/TEST JMP17677, RJMP 20,	
	LAC JM100	/JMP TABLE ERROR ADDRESS	
	SZA		
E1325,	HALT	/ERROR; JMP 17677 OR RJMP20 FAILED	
	DZM JM100	/CLEAR JM100 TO CONTINUE AFTER ERROR	
	LAC RJ20		
	DAC JM100	/STORE JMP ADDRESS IN TABLE	
	LAC RJ20	/JMP RJMP20	
	DAC 17677	/STORE RJMP INSTRUCTION	
	JMP 17677	/JMP TO 17677	
RJMP20,	DZM JM100	/CLEAR JM100 ERROR ADDRESS	
		/TEST JMP17737, RJMP21	
	LAC JM40	/JMP TABLE ERROR ADDRESS	
	SZA		
E1326,	HALT	/ERROR; JMP 17737 OR RJMP21 FAILED	
	LAC RJ21		
	DAC JM40	/STORE JMP ADDRESS IN TABLE	
	DAC 17737	/STORE RJMP INSTRUCTION	
	JMP 17737	/JMP TO 17737	
	SKP		
RJMP21,	DZM JM40	/CLEAR JM40 ERROR ADDRESS	
		/TEST JMP 17757, RJMP22	
	LAC JM20	/JMP TABLE ERROR ADDRESS	
	SZA		
E1327,	HALT	/ERROR; JMP 17757 OR RJMP22 FAILED	
	LAC RJ22		
	DAC JM20	/STORE JMP ADDRESS IN TABLE	
	DAC 17757	/STORE RJMP INSTRUCTION	
	JMP 17757	/JMP TO 17757	
	SKP		
RJMP22,	DZM JM20	/CLEAR JM20 ERROR ADDRESS	
		/TEST JMP 17767, RJMP23	
	LAC JM10	/JMP TABLE ERROR ADDRESS	
	SZA		
E1328,	HALT	/ERROR; JMP 17767 OR RJMP23 FAILED	
	LAC RJ23		
	DAC JM10	/STORE JMP ADDRESS IN TABLE	
	DAC 17767	/STORE RJMP INSTRUCTION	
	JMP 17767	/JMP TO 17767	
	SKP		
RJMP23,	DZM JM10	/CLEAR JM10 ERROR ADDRESS	
		/TEST JMP 17773, RJMP24,	
	LAC JM4	/JMP TABLE ERROR ADDRESS	
	SZA		

```

E1329,      HALT                /ERROR; JMP 17773 OR RJMP24 FAILED
            LAC RJ24
            DAC JM4              /STORE JMP ADDRESS IN TABLE
            DAC 17773           /STORE RJMP INSTRUCTION
            JMP 17773           /JMP TO 17773
            SKP
RJMP24,     DZM JM4              /CLEAR JM4 ERROR ADDRESS

            /TEST JMP 17775, RJMP25
            LAC JM2              /JMP TABLE ERROR ADDRESS
            SZA
E1330,     HALT                /ERROR; JMP 17775 OR RJMP25 FAILED
            LAC RJ25
            DAC JM2              /STORE JMP ADDRESS IN TABLE
            DAC 17775           /STORE RJMP INSTRUCTION
            JMP 17775           /JMP TO 17775
            SKP
RJMP25,     DZM JM2              /CLEAR JM2 ERROR ADDRESS

            /TEST JMP 17776, RJMP26
            LAC JM1              /JMP TABLE ERROR ADDRESS
            SZA
E1331,     HALT                /ERROR; JMP 17776 OR RJMP26 FAILED
            LAC RJ26
            DAC JM1              /STORE JMP ADDRESS IN TABLE
            DAC 17776           /STORE RJMP INSTRUCTION
            JMP 17776           /JMP TO 17776
            SKP
RJMP26,     DZM JM1              /CLEAR JM1 ERROR ADDRESS

            /TEST JMP 17777, RJMP27
            LAC JM0              /JMP TABLE ERROR ADDRESS
            SZA
E1332,     HALT                /ERROR; JMP 17777 OR RJMP27 FAILED
            LAC RJ27
            DAC JM0              /STORE JMP ADDRESS IN TABLE
            DAC 17777           /STORE RJMP INSTRUCTION
            JMP 17777           /JMP TO 17777
            SKP
RJMP27,     DZM JM0              /CLEAR JM0 ERROR ADDRESS

            /TEST JMP 12525, RJMP28
            LAC J12525           /JMP TABLE ERROR ADDRESS
            SZA
E1333,     HALT                /ERROR; JMP 12525 OR RJMP28 FAILED
            LAC RJ28
            DAC J12525          /STORE JMP ADDRESS IN TABLE
            DAC 12525           /STORE RJMP INSTRUCTION
            JMP 12525           /JMP TO 12525
            SKP
RJMP28,     DZM J12525          /CLEAR J12525 ERROR ADDRESS

            /TEST JMP 15252 RJMP29
            LAC J15252           /JMP TABLE ERROR ADDRESS
            SZA

```

E1334,	HALT	/ERROR; JMP 15252 OR RJMP29 FAILED
	LAC RJ29	
	DAC J15252	/STORE JMP ADDRESS IN TABLE
	DAC 15252	/STORE RJMP INSTRUCTION
	JMP 15252	/JMP TO 15252
	SKP	
RJMP29,	DZM J15252	/CLEAR J15252 ERROR ADDRESS
		/TEST JMP COMPLIMENTS
	LAC JC0	/JMP TABLE ERROR ADDRESS
	SZA	
E1335,	HALT	/ERROR; JMP 0 TO 17777, TO RJC0
	LAC K777	
	DAC JC0	/STORE ERROR CODE; K777
	LAC RJ0C	
	DAC 17777	/STORE JMP RJC0
	LAC RJ0CX	
	DAC 0	/STORE JMP 17777
	JMP 0	/JMP 0
	SKP	
RJC0,	DZM JC0	/CLEAR JC0 ERROR ADDRESS
		/TEST JMP COMPLIMENTS
	LAC JC1	/JMP TABLE ERROR ADDRESS
	SZA	
E1336,	HALT	/ERROR; JMP 1, TO 17776 TO RJC1
	LAC K1	
	DAC JC1	/STORE ERROR CODE; K1
	LAC RJ1C	
	DAC 17776	/STORE JMP RJC1
	LAC RJ1CX	
	DAC 1	/STORE JMP 17776
	JMP 1	/JMP 1
	SKP	
RJC1,	DZM JC1	/CLEAR JC1 ERROR ADDRESS
		/TEST JMP COMPLIMENTS
	LAC JC2	/JMP TABLE ERROR ADDRESS
	SZA	
E1337,	HALT	/ERROR; JMP 2, TO 17775 TO RJC2
	LAC K2	
	DAC JC2	/STORE ERROR CODE; K2
	LAC RJ2C	
	DAC 17775	/STORE JMP RJC2
	LAC RJ2CX	
	DAC 2	/STORE JMP 17775
	JMP 2	/JMP 2
	SKP	
RJC2,	DZM JC2	/CLEAR JC2 ERROR ADDRESS
		/TEST JMP COMPLIMENTS
	LAC JC4	/JMP TABLE ERROR ADDRESS
	SZA	

```

E1338,      HALT                               /ERROR; JMP 4, TO 17773 TO RJC3
             LAC K4
             DAC JC4                           /STORE ERROR CODE; K4
             LAC RJ3C
             DAC 17773                         /STORE JMP RJC3
             LAC RJ3CX
             DAC 4                             /STORE JMP 17773
             JMP 4                             /JMP 4
             SKP
RJC3,       DZM JC4                           /CLEAR JC4 ERROR ADDRESS
             /TEST JMP COMPLEMENTS
             /JMP TABLE ERROR ADDRESS
             LAC JC10
             SZA
E1339,      HALT                               /ERROR; JMP 10, TO 17767 TO RJC4
             LAC K10
             DAC JC10                         /STORE ERROR CODE; K10
             LAC RJ4C
             DAC 17767                         /STORE JMP RJC4
             LAC RJ4CX
             DAC 10                           /STORE JMP 17767
             JMP 10                           /JMP 10
             SKP
RJC4,       DZM JC10                         /CLEAR JC10 ERROR ADDRESS
             /TEST JMP COMPLEMENTS
             /JMP TABLE ERROR ADDRESS
             LAC JC20
             SZA
E1340,      HALT                               /ERROR; JMP 20, TO 17757, TO RJC5
             LAC K20
             DAC JC20                         /STORE ERROR CODE; K20
             LAC RJ5C
             DAC 17757                         /STORE JMP RJC5
             LAC RJ5CX
             DAC 20                           /STORE JMP 17757
             JMP 20                           /JMP 20
             SKP
RJC5,       DZM JC20                         /CLEAR JC20 ERROR ADDRESS
             /TEST JMP COMPLEMENTS
             /JMP TABLE ERROR ADDRESS
             LAC JC40
             SZA
E1341,      HALT                               /ERROR; JMP 10040, TO 17737 TO RJC6
             LAC K40
             DAC JC40                         /STORE ERROR CODE; K40
             LAC RJ6C
             DAC 17737                         /STORE JMP RJC6
             LAC RJ6CX
             DAC 10040                         /STORE JMP 17737
             JMP 10040                        /JMP 10040
             SKP
RJC6,       DZM JC40                         /CLEAR JC40 ERROR ADDRESS

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```

                                /TEST JMP COMPLEMENTS
                                /JMP TABLE ERROR ADDRESS
E1342,   LAC JC100
          SZA
          HALT                                /ERROR; JMP 10100, TO 17677 TO RJC7
          LAC K100
          DAC JC100                            /STORE ERROR CODE; K100
          LAC RJ7C
          DAC 17677                            /STORE JMP RJC7
          LAC RJ7CX
          DAC 10100                            /STORE JMP 17677
          JMP 10100                            /JMP 10100
          SKP
RJC7,    DZM JC100                            /CLEAR JC100 ERROR ADDRESS

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```

                                /TEST JMP COMPLEMENTS
                                /JMP TABLE ERROR ADDRESS
E1343,   LAC JC200
          SZA
          HALT                                /ERROR; JMP 10200, TO 17577, TO RJC8
          LAC K200
          DAC JC200                            /STORE ERROR CODE; K200
          LAC RJ8C
          DAC 17577                            /STORE JMP RJC8
          LAC RJ8CX
          DAC 10200                            /STORE JMP 17577
          JMP 10200                            /JMP 10200
          SKP
RJC8,    DZM JC200                            /CLEAR JC200 ERROR ADDRESS

```

```

                                /TEST JMP COMPLEMENTS
                                /JMP TABLE ERROR ADDRESS
E1344,   LAC JC400
          SZA
          HALT                                /ERROR; JMP 10400, TO 17377 TO RJC9
          LAC K400
          DAC JC400                            /STORE ERROR CODE; K400
          LAC RJ9C
          DAC 17377                            /STORE JMP RJC9
          LAC RJ9CX
          DAC 10400                            /STORE JMP 17377
          JMP 10400                            /JMP 10400
          SKP
RJC9,    DZM JC400                            /CLEAR JC400 ERROR ADDRESS

```

```

                                /TEST JMP COMPLEMENTS
                                /JMP TABLE ERROR ADDRESS
E1345,   LAC JC1K
          SZA
          HALT                                /ERROR; JMP 11000, TO 16777 RJC10
          LAC K1K
          DAC JC1K                            /STORE ERROR CODE; K1K
          LAC RJ10C
          DAC 16777                            /STORE JMP RJC10
          LAC RJ10CX
          DAC 11000                            /STORE JMP 16777
          JMP 11000                            /JMP 11000
          SKP
RJC10,   DZM JC1K                            /CLEAR JC1K ERROR ADDRESS

```

```

                                /TEST JMP COMPLEMENTS
                                /JMP TABLE ERROR ADDRESS
          LAC JC2K
          SZA

```

```

E1346,      HALT                               /ERROR; JMP 12000, TO 15777, TO RJC11
             LAC K2K
             DAC JC2K                          /STORE ERROR CODE; K2K
             LAC RJ11C
             DAC 15777                          /STORE JMP RJC11
             LAC RJ11CX
             DAC 12000                          /STORE JMP 15777
             JMP 12000                          /JMP 12000
             SKP
RJC11,      DZM JC2K                          /CLEAR JC2K ERROR ADDRESS

             /TEST JMP COMPLEMENTS
             /JMP TABLE ERROR ADDRESS

E1347,      LAC JC4K
             SZA
             HALT                               /ERROR; JMP 14000, TO 13777, TO RJC12
             LAC K4K
             DAC JC4K                          /STORE ERROR CODE; K4K
             LAC RJ12C
             DAC 13777                          /STORE JMP RJC 12
             LAC RJ12CX
             DAC 14000                          /STORE JMP 13777
             JMP 14000                          /JMP 14000
             SKP
RJC12,      DZM JC4K                          /CLEAR JC4K ERROR ADDRESS

             /TEST JMP COMPLEMENTS
             /JMP TABLE ERROR ADDRESS

E1348,      LAC JC10K
             SZA
             HALT                               /ERROR; JMP 10000, TO 7777, TO RJC13
             LAC K10K
             DAC JC10K                          /STORE ERROR CODE; K10K
             LAC RJ13C
             DAC 7777                          /STORE JMP RJC13
             LAC RJ13CX
             DAC 10000                          /STORE JMP 7777
             JMP 10000                          /JMP 10000
             SKP
RJC13,      DZM JC10K                          /CLEAR J10K ERROR ADDRESS
START

```

/PDP-9 INST. TEST. TAPE 14

	LAC JCM0	/TEST JMP COMPLIMENTS
	SZA	/JMP TABLE ERROR ADDRESS
E1349,	HALT	/ERROR; JMP 17777, TO 0, TO RJC14
	LAC K777K	/STORE ERROR CODE; K777K
	DAC JCM0	/STORE JMP RJ14C
	LAC RJ14C	
	DAC 0	/STORE JMP 0
	LAC RJ14CX	/JMP 17777
	DAC 17777	
	JMP 17777	
	SKP	
RJC14,	DZM JCM0	/CLEAR JCM0 ERROR ADDRESS
		/TEST JMP COMPLIMENTS
	LAC JCM1	/JMP TABLE ERROR ADDRESS
	SZA	
E1350,	HALT	/ERROR; JMP 17776 TO 1, TO RJC15
	LAC M1	/STORE ERROR CODE; M1
	DAC JCM1	/STORE JMP RJC15
	LAC RJ15C	
	DAC 1	/STORE JMP 1
	LAC RJ15CX	/JMP 17776
	DAC 17776	
	JMP 17776	
	SKP	
RJC15,	DZM JCM1	/CLEAR JCM1 ERROR ADDRESS
		/TEST JMP COMPLIMENTS
	LAC JCM2	/JMP TABLE ERROR ADDRESS
	SZA	
E1351,	HALT	/ERROR; JMP 17775, TO 2, TO RJC16
	LAC M2	/STORE ERROR CODE; M2
	DAC JCM2	/STORE JMP RJC16
	LAC RJ16C	
	DAC 2	/STORE JMP 2
	LAC RJ16CX	/JMP 17775
	DAC 17775	
	JMP 17775	
	SKP	
RJC16,	DZM JCM2	/CLEAR JCM2 ERROR ADDRESS
		/TEST JMP COMPLIMENTS
	LAC JCM4	/JMP TABLE ERROR ADDRESS
	SZA	
E1352,	HALT	/ERROR; JMP 17773, TO 4, TO RJC17
	LAC M4	/STORE ERROR CODE; M4
	DAC JCM4	/STORE JMP RJC17
	LAC RJ17C	
	DAC 4	/STORE JMP 4
	LAC RJ17CX	/JMP 17773
	DAC 17773	
	JMP 17773	
	SKP	

```

RJC17,      DZM JCM4          /CLEAR JCM4 ERROR ADDRESS
              /TEST JMP COMPLEMENTS
              /JMP TABLE ERROR ADDRESS
              /JMP TABLE ERROR ADDRESS
E1353,      LAC JCM10
              SZA
              HALT          /ERROR; JMP 17767, TO 10, TO RJC18
              LAC M10
              DAC JCM10      /STORE FRROR CODE; M10
              LAC RJ18C
              DAC 10         /STORE JMP RJC18
              LAC RJ18CX
              DAC 17767      /STORE JMP 10
              JMP 17767      /JMP 17767
              SKP

RJC18,      DZM JCM10        /CLEAR JCM10 ERROR ADDRESS
              /TEST JMP COMPLEMENTS
              /JMP TABLE ERROR ADDRESS
              /JMP TABLE ERROR ADDRESS
E1354,      LAC JCM20
              SZA
              HALT          /ERROR; JMP 17757, TO 20, TO RJC19
              LAC M20
              DAC JCM20      /STORE FRROR CODE; M20
              LAC RJ19C
              DAC 20         /STORE JMP RJC19
              LAC RJ19CX
              DAC 17757      /STORE JMP 20
              JMP 17757      /JMP 17757
              SKP

RJC19,      DZM JCM20        /CLEAR JCM20 ERROR ADDRESS
              /TEST JMP COMPLEMENTS
              /JMP TABLE ERROR ADDRESS
              /JMP TABLE ERROR ADDRESS
E1355,      LAC JCM40
              SZA
              HALT          /ERROR; JMP 17737, TO 10040, TO RJC20
              LAC M40
              DAC JCM40      /STORE FRROR CODE; M40
              LAC RJ20C
              DAC 10040      /STORE JMP RJC20
              LAC RJ20CX
              DAC 17737      /STORE JMP 10040
              JMP 17737      /JMP 17737
              SKP

RJC20,      DZM JCM40        /CLEAR JCM40 ERROR ADDRESS
              /TEST JMP COMPLEMENTS
              /JMP TABLE ERROR ADDRESS
              /JMP TABLE ERROR ADDRESS
E1356,      LAC JCM100
              SZA
              HALT          /ERROR; JMP 17677, TO 10100, TO RJC21
              LAC M100
              DAC JCM100     /STORE ERROR CODE; M100
              LAC RJ21C
              DAC 10100      /STORE JMP RJC21
              LAC RJ21CX
              DAC 17677      /STORE JMP 10100
              JMP 17677      /JMP 17677
              SKP

```



RJC21,	DZM JCM100	/CLEAR JCM100 ERROR ADDRESS
	LAC JCM200	/TEST JMP COMPLIMENTS
	SZA	/JMP TABLE ERROR ADDRESS
E1357,	HALT	/ERROR; JMP 17577, TO 10200, TO RJC22
	LAC M200	
	DAC JCM200	/STORE ERROR CODE; M200
	LAC RJ22C	
	DAC 10200	/STORE JMP RJC22
	LAC RJ22CX	
	DAC 17577	/STORE JMP 10200
	JMP 17577	/JMP 17577
	SKP	
RJC22,	DZM JCM200	/CLEAR JCM200 ERROR ADDRESS
	LAC JCM400	/TEST JMP COMPLEMENT
	SZA	/JMP TABLE ERROR ADDRESS
E1358,	HALT	/ERROR; JMP 17377, TO 10400, TO RJC23
	LAC M400	
	DAC JCM400	/STORE ERROR CODE; M400
	LAC RJ23C	
	DAC 10400	/STORE JMP RJC23
	LAC RJ23CX	
	DAC 17377	/STORE JMP 10400
	JMP 17377	/JMP 17377
	SKP	
RJC23,	DZM JCM400	/CLEAR JCM400 ERROR ADDRESS
	LAC JCM1K	/TEST JMP COMPLIMENTS
	SZA	/JMP TABLE ERROR ADDRESS
E1359,	HALT	/ERROR; JMP 16777, TO 11000, TO RJC24
	LAC M1K	
	DAC JCM1K	/STORE ERROR CODE; M1K
	LAC RJ24C	
	DAC 11000	/STORE JMP RJC24
	LAC RJ24CX	
	DAC 16777	/STORE JMP 11000
	JMP 16777	/JMP 16777
	SKP	
RJC24,	DZM JCM1K	/CLEAR JCM1K ERROR ADDRESS
	LAC JCM2K	/TEST JMP COMPLIMENTS
	SZA	/JMP TABLE ERROR ADDRESS
E1360,	HALT	/ERROR; JMP 15777, TO 12000, TO RJC25
	LAC M2K	
	DAC JCM2K	/STORE ERROR CODE; M2K
	LAC RJ25C	
	DAC 12000	/STORE JMP RJC25
	LAC PJ25CX	
	DAC 15777	/STORE JMP 12000
	JMP 15777	/JMP 15777
	SKP	
RJC25,	DZM JCM2K	/CLEAR JCM2K ERROR ADDRESS
	LAC JCM4K	/TEST JMP COMPLIMENTS
	SZA	/JMP TABLE ERROR ADDRESS

```

E1361,      HALT                               /ERROR; JMP 13777, TO 14000, TO RJC26
             LAC M4K
             DAC JCM4K                          /STORE ERROR CODE; M4K
             LAC RJ26C
             DAC 14000                          /STORE JMP RJC26
             LAC RJ26CX
             DAC 13777                          /STORE JMP 14000
             JMP 13777                          /JMP 13777
             SKP

RJC26,      DZM JCM4K                          /CLEAR JCM4K ERROR ADDRESS
             LAC JCM10K                        /TEST JMP COMPLEMENTS
             SZA                               /JMP TABLE ERROR ADDRESS

F1362,      HALT                               /ERROR; JMP 7777, TO 10000, TO RJC27
             LAC M10K
             DAC JCM10K                        /STORE ERROR CODE; M10K
             LAC RJ27C
             DAC 10000                          /STORE JMP RJC27
             LAC RJ27CX
             DAC 7777                          /STORE JMP 10000
             JMP 7777                          /JMP 7777
             SKP

RJC27,      DZM JCM10K                        /CLEAR JCM 10K ERROR ADDRESS
             LAC CAL0                          /TEST CAL, EXT=0, L=0
             SZA                               /CAL TABLE ERROR ADDRESS

E1363,      HALT                               /ERROR; CAL FROM 17757
             LEM                               /EXT=0
             CLA:CLL                          /L=0
             LAW 10020                          /AR=770020
             DZM 17757                          /STORE CAL AT 17757
             LAC 2021
             DAC CAL0                          /STORE ERROR CODE 2021
             LAC RCAL0
             DAC 21                            /RJMP FROM CAL
             JMP 17757

RCALS0,     DZM CAL0                          /CLEAR ERROR TABLE
             LAC 20                            /RJMP ADDRESS
             SAD KCAL0                          /17760
             SKP

F1364,      HALT                               /ERROR; (20) NOT 17760
             LAC CAL1                          /TEST CAL, L=1
             SZA

E1365,      HALT                               /ERROR; CAL FROM 17757
             CLL:CML                          /L=1
             LAC K2120
             DAC CAL1                          /CAL ERROR CODE 2120
             LAC RCAL1
             DAC 21                            /RJMP FROM CAL
             JMP 17757

RCALS1,     DZM CAL1                          /CLEAR ERROR TABLE
             LAC 20                            /RJMP ADDRESS AND L=1
             SAD KCAL1                          /417760
             SKP

E1366,      HALT                               /ERROR; (20) NOT 417760
             LAC JSM0                          /TEST JMS COMPLEMENTS L=0
             SZA                               /JMS TABLE ERROR ADDRESS

```

F1367,	HALT	/ERROR; JMS FROM 0 TO 17775
	OLL	/L=0
	LAC RJMS0	/JMP RJMS0
	DAC 17776	/RJMP FROM JMS DESTINATION 17776
	LAC RSM0	/JMS 17775
	DAC 0	/JMS UNDER TEST
	DAC JSM0	/STORE JMS ADDRESS IN TABLE
	LAW 17776	/AR=777776
	JMP 0	/ENTER TEST
RJMS0,	DZM JSM0	/CLEAR ERROR TABLE
	LAC 17775	/RETURN ADDRESS
	SAD K1	
	SKP	
F1368,	HALT	/ERROR; (17775) NOT 200001
	LAC JSM1	/TEST JMS COMPLEMENTS, L=0
	SZA	/JMS TABLE ERROR ADDRESS
F1369,	HALT	/ERROR; JMS FROM 1 TO 17774
	LEM	
	OLL	/L=0
	LAC PJSM1	/JMP RJMS1
	DAC 17775	/RETURN FROM JMS DESTINATION
	LAC RSM1	/JMS 17774
	DAC 1	/JMS UNDER TEST
	DAC JSM1	/STORE JMS ADDRESS IN TABLE
	LAW 17775	/AR=17775
	JMP 1	/ENTER TEST
RJMS1,	DZM JSM1	/CLEAR ERROR TABLE
	LAC 17774	/RJMP ADDRESS TEST
	SAD K2	
	SKP	
F1370,	HALT	/ERROR; (17774) NOT 2
	LAC JSM2	/TEST JMS COMPLEMENTS, L=0, EXT=0
	SZA	/JMS TABLE ERROR ADDRESS
F1371,	HALT	/ERROR; JMS FROM 2 TO 17773
	OLL	/L=0
	LAC PJSM2	/JMP RJMS 2
	DAC 17774	/RETURN FROM JMS DESTINATION
	LAC RSM2	/JMS 17773
	DAC 2	/JMS UNDER TEST
	DAC JSM2	/STORE JMS ADDRESS IN TABLE
	LAW 17774	/AR=777774
	JMP 2	/ENTER TEST
RJMS2,	DZM JSM2	/CLEAR ERROR TABLE
	LAC 17773	/RJMP ADDRESS TEST
	SAD K3	
	SKP	
F1372,	HALT	/ERROR; (17773) NOT 3
	LAC JSM4	/TEST JMS COMPLEMENTS, L=0, EXT=0
	SZA	/JMS TABLE ERROR ADDRESS

```

F1373,      HALT                /ERROR; JMS FROM 4 TO 17771
             CLL                /L=0
             LAC RJMS3          /JMP RJMS3
             DAC 17772         /RETURN FROM JMS DESTINATION
             LAC RSM3          /JMS 17771
             DAC 4             /JMS UNDER TEST
             DAC JSM4          /STORE JMS ADDRESS IN TABLE
             LAW 17772         /CR=777772
             JMP 4             /ENTER TEST

RJMS3,      DZM JSM4          /CLEAR ERROR TABLE
             LAC 17771         /RJMP ADDRESS TEST
             SAD K5
             SKP

E1374,      HALT                /ERROR; (17771) NOT 5
             /TEST JMS COMPLEMENTS, L=0, EXT=0
             /JMS TABLE ERROR ADDRESS

E1375,      HALT                /ERROR; JMS FROM 10 TO 17765
             CLL                /L=0
             LAC RJMS4          /JMP RJMS4
             DAC 17766         /RETURN FROM JMS DESTINATION
             LAC RSM4          /JMS 17765
             DAC 10           /JMS UNDER TEST
             DAC JSM10        /STORE JMS ADDRESS IN TABLE
             LAW 17766         /AR=777766
             JMP 10           /ENTER TEST

RJMS4,      DZM JSM10        /CLEAR ERROR TABLE
             LAC 17765         /RJMP ADDRESS TEST
             SAD K11
             SKP

E1376,      HALT                /ERROR; (17765) NOT 11
             /TEST JMS COMPLEMENTS, L=0, EXT=0
             /JMS TABLE ERROR ADDRESS

E1377,      HALT                /ERROR; JMS FROM 20 TO 17755
             CLL                /L=0
             LAC RJMS5          /JMP RJMS5
             DAC 17756         /RETURN FROM JMS DESTINATION
             LAC RSM5          /JMS 17755
             DAC 20           /JMS UNDER TEST
             DAC JSM20        /STORE JMS ADDRESS IN TABLE
             LAW 17756         /AR=777756
             JMP 20           /ENTER TEST

RJMS5,      DZM JSM20        /CLEAR ERROR TABLE
             LAC 17755         /RJMP ADDRESS TEST
             SAD K21
             SKP

E1378,      HALT                /ERROR; (17755) NOT 21
             /TEST JMS COMPLEMENTS, L=0, EXT=0
             /JMS TABLE ERROR ADDRESS
             LAC JSM40
             SZA

```

F1379,	HALT	/ERROR; JMS FROM 10040 TO 17735
	CLL	/L=0
	LAC RJSM6	/JMP RJMS6
	DAC 17736	/RETURN FROM JMS DESTINATION
	LAC RSM6	/JMS 17735
	DAC 10040	/JMS UNDER TEST
	DAC JSM40	/STORE JMS ADDRESS IN TABLE
	LAW 17736	/AR=77736
	JMP 10040	/ENTER TEST
RJMS6,	DZM JSM40	/CLEAR ERROR TABLE
	LAC 17735	/RJMP ADDRESS TEST
	SAD K10041	
	SKP	
E1380,	HALT	/ERROR; (17735) NOT 10041
		/TEST JMS COMPLEMENTS L=0, EXT=0
	LAC JSM100	/JMS TABLE ERROR ADDRESS
	SZA	
E1381,	HALT	/ERROR; JMS FROM 10100 TO 17675
	CLL	/L=0
	LAC RJSM7	/JMP RJMS7
	DAC 17676	/RETURN FROM JMS DESTINATION
	LAC RSM7	/JMS 17675
	DAC 10100	/JMS UNDER TEST
	DAC JSM100	/STORE JMS ADDRESS IN TABLE
	LAW 17676	/AR=777676
	JMP 10100	/ENTER TEST
RJMS7,	DZM JSM100	/CLEAR ERROR TABLE
	LAC 17675	/RJMP ADDRESS TEST
	SAD K10101	
	SKP	
E1382,	HALT	/ERROR; (17675) NOT 10101
		/TEST JMS COMPLEMENTS, L=0, EXT=0
	LAC JSM200	/JMS TABLE ERROR ADDRESS
	SZA	
E1383,	HALT	/ERROR; JMS FROM 10200 TO 17575
	CLL	/L=0
	LAC RJSM8	/JMP RJMS8
	DAC 17576	/RETURN FROM JMS DESTINATION
	LAC RSM8	/JMS 17575
	DAC 10200	/JMS UNDER TEST
	DAC JSM200	/STORE JMS ADDRESS IN TABLE
	LAW 17576	/AR=777576
	JMP 10200	/ENTER TEST
RJMS8,	DZM JSM200	/CLEAR ERROR TABLE
	LAC 17575	/RJMP ADDRESS TEST
	SAD K10201	
	SKP	
E1384,	HALT	/ERROR; (17575) NOT 10201
		/TEST JMS COMPLEMENTS, L=0, EXT=0
	LAC JSM400	/JMS TABLE ERROR ADDRESS
	SZA	

```

E1385,      HALT                /ERROR; JMS FROM 10400 TO 17375
            CLL                  /L=0
            LAC RJSM9            /JMP RJSMS 9
            DAC 17376           /RETURN FROM JMS DESTINATION
            LAC RSM9            /JMS 17375
            DAC 10400           /JMS UNDER TEST
            DAC JSM400          /STORE JMS ADDRESS IN TABLE
            LAW 17376           /AR=777376
            JMP 10400           /ENTER TEST

RJSMS9,     DZM JSM400          /CLEAR ERROR TABLE
            LAC 17375           /RJM ADDRESS TEST
            SAD K10401
            SKP

E1386,     HALT                /ERROR; (17375) NOT 10401
            /TEST JMS COMPLEMENTS, L=0, EXT=0
            /JMS TABLE ERROR ADDRESS

            LAC JSM1K
            SZA

E1387,     HALT                /ERROR; JMS FROM 11000 TO 16775
            CLL                  /L=0
            LAC RJSMS10         /JMP RJSMS10
            DAC 16776           /RETURN FROM JMS DESTINATION
            LAC RSM10          /JMS 16775
            DAC 11000          /JMS UNDER TEST
            DAC JSM1K          /STORE JMS ADDRESS IN TABLE
            LAW 16776           /AR=776776
            JMP 11000          /ENTER TEST

RJSMS10,   DZM JSM1K           /CLEAR ERROR TABLE
            LAC 16775           /RJM ADDRESS TEST
            SAD K11001
            SKP

E1388,     HALT                /ERROR; (16775) NOT 11001
            /TEST JMS COMPLEMENTS, L=0, EXT=0
            /JMS TABLE ERROR ADDRESS

            LAC JSM2K
            SZA

E1389,     HALT                /ERROR; JMS FROM 12000 TO 15775
            CLL                  /L=0
            LAC RJSMS11         /JMP RJSMS11
            DAC 15776           /RETURN FROM JMS DESTINATION
            LAC RSM11          /JMS 15775
            DAC 12000          /JMS UNDER TEST
            DAC JSM2K          /STORE JMS ADDRESS IN TABLE
            LAW 15776           /AR=775776
            JMP 12000          /ENTER TEST

RJSMS11,   DZM JSM2K           /CLEAR ERROR TABLE
            LAC 15775           /RJM ADDRESS TEST
            SAD K12001
            SKP

E1390,     HALT                /ERROR; (15775) NOT 12001
            /TEST JMS COMPLEMENTS, L=0, EXT=0
            /JMS TABLE ERROR ADDRESS

            LAC JS4K
            SZA

E1391,     HALT                /ERROR; JMS FROM 14000 TO 13775
            CLL                  /L=0
            LAC RJSMS12         /JMP RJSMS12
            DAC 13776           /RETURN FROM JMS DESTINATION
            LAC RSM12          /JMS 13775
            DAC 14000          /JMS UNDER TEST
            DAC JS4K           /STORE JMS ADDRESS IN TABLE

```

	LAW 13776	/AR=773776
	JMP 14000	/ENTER TEST
RJMS12,	DZM JSM4K	/CLEAR ERROR TABLE
	LAC 13775	/RJMP ADDRESS TEST
	SAD K14001	
	SKP	
F1392,	HALT	/ERROR; (13775) NOT 14001
	LAC JSM10K	/TEST JMS COMPLIMENTS, L=0, EXT=0
	SZA	/JMS TABLE ERROR ADDRESS
E1393,	HALT	/ERROR; JMS FROM 10000 TO 17775
	OLL	/L=0
	LAC RJSM13	/JMP RJMS13
	DAC 17776	/RETURN FROM JMS DESTINATION
	LAC RSM13	/JMS 17775
	DAC 10000	/JMS UNDER TEST
	DAC JSM10K	/STORE JMS ADDRESS IN TABLE
	LAW 7776	/AC=767776
	JMP 10000	/ENTER TEST
RJMS13,	DZM JSM10K	/CLEAR ERROR TABLE
	LAC 17775	/RJMP ADDRESS TEST
	SAD K10001	
	SKP	
F1394,	HALT	/ERROR; (17775) NOT 10001
START		

/PDP-9 INSTRUCTION TEST PART II - TAPE 15

```

                                /TEST JMS COMPLEMENTS L=1
                                /JMS TABLE ERROR ADDRESS
F1395,   LAC JS252
          SZA
          HALT
          CLL:OML
          LAC RJSM25
          DAC 15253
          LAC RSM25
          DAC 12525
          DAC JS252
          LAW 15253
          JMP 12525
                                /ERROR; JMS FROM 12525 TO 15252
                                /L=1
                                /JMP RJMS14
                                /RETURN FROM JMS DESTINATION
                                /JMS 15252
                                /JMS UNDER TEST
                                /STORE JMS ADDRESS IN TABLE
                                /AC=775253
                                /ENTER TEST

RJMS14,   DZM JS252
          LAC 15252
          SAD K426
          SKP
                                /CLEAR ERROR TABLE
                                /RJMP ADDRESS TEST
                                /412526

E1396,   HALT
                                /ERROR (15252) NOT 412526
                                / AND L=1
                                /TEST JMS COMPLEMENTS L=1
                                /JMS TABLE ERROR ADDRESS
E1397,   LAC JS525
          SZA
          HALT
          CLL:OML
          LAC RJSM52
          DAC 12526
          LAC RSM52
          DAC 15252
          DAC JS525
          LAW 12523
          JMP 15252
          DZM JS525
          LAC 12525
          SAD K415
          SKP
                                /ERROR; JMS FROM 15252 TO 12525
                                /L=1
                                /JMP RJMS15
                                /RETURN FROM JMS DESTINATION
                                /JMS 12525
                                /JMS UNDER TEST
                                /STORE JMS ADDRESS IN TABLE
                                /AC=772523
                                /ENTER TEST
                                /CLEAR ERROR TABLE
                                /RJMP ADDRESS TEST
                                /415253

F1398,   HALT
                                /ERROR; (12525) NOT 415253
                                / AND L=1
                                /TEST JMS SERIES
                                /JMS TABLE ERROR ADDRESS
E1399,   LAC JSSS
          SZA
          HALT
          CLL:OMI
                                /ERROR; JMS SERIES FAILED
                                /L=1

JS1,     JMS .+1
E1400,   HALT
                                /ERROR; JMS SERIES
JS2,     JMS .+1
E1401,   HALT
                                /ERROR; JMS SERIES
JS3,     JMS .+1
E1402,   HALT
          LEM
          CLL
                                /ERROR; JMS SERIES
                                /LEAVE EXT MODE
                                /L=0
JS4,     JMS .+1
E1403,   HALT
                                /ERROR; JMS SERIES

```



RJMSS,	BZM JSSS LAC KJS1 TAD K400K CMA TAD JS1+1 CMA SZA	/CLEAR ERROR TABLE /TEST JS1, L=1
E1404,	HALT LAC KJS2 TAD K400K CMA TAD JS2+1 CMA SZA	/ERROR; JMS RJMP DATA JS1+1 /TEST JS2, L=1
E1405,	HALT LAC KJS3 TAD K400K CMA TAD JS3+1 CMA SZA	/ERROR; JMS RJMP DATA JS2+1 /TEST JS3, L=1
E1406,	HALT LAC KJS4 CMA TAD JS4+1 CMA SZA	/ERROR; JMS RJMP DATA JS3+1 /TEST JS4, EXT=0, L=0
E1407,	HALT  CLA!CMA!CLL!CML XCT .+1 NOP SNL	/ERROR; JMS RJMP DATA JS4+1 /TEST EXECUTE NOP; AC=ONES L=1 /AC=ONES, L=0 /NOP
E1408,	HALT CMA SZA	/ERROR; XCT NOP; LINK WAS RESET
E1409,	HALT  CLA!CLL XCT .+1 NOP SZL	/ERROR; XCT NOP; AC NOT ONES /TEST EXECUTE NOP, AC=0 L=0 /AC=0, L=0 /NOP
E1410,	HALT SZA	/ERROR; XCT NOP; LINK WAS SET
F1411,	HALT	/ERROR; XCT NOP; AC NOT 0 /TEST XCT SKP
F1412,	XCT KSKP HALT CLA!CMA XCT KCLA SZA	/SKP /ERROR; XCT SKP FAILED /AC=ONES /CLA
F1413,	HALT  CLA XCT K7S CMA SZA	/ERROR; XCT CLA FAILED /TEST XCT LAW /AC=0 /LAW 17777 /AC=0

E1414,	HALT	/ERROR; XCT LAW FAILED
	CLA!CMA	/TEST XCT ISZ
	DAC 17777	/AC=ONES
	XCT XCTISZ	/17777=777777
E1415,	HALT	/ISZ 17777
		/ERROR; XCT ISZ FAILED TO SKIP
		/TEST XCT TAD
	CLL!CML	/L=1
	LAW 17777	/AC=ONES
	DAC 17777	/17777=777777
	XCT XCTTAD	/TAD K1
	SZA	
E1416,	HALT	/ERROR; XCT TAD FAILED, AC NOT 0
	SZL	
E1417,	HALT	/ERROR; XCT TAD FAILED LINK
		/NOT SFT TO 0
		/TEST XCT RAL, AC=ONES, L=1
	CLA!CMA!CLL!CML	/AC=ONES, L=1
	XCT XCTRAL	/RAL
	CMA	/AC=0
	SZA	
E1418,	HALT	/ERROR; XCT RAL FAILED AC DROPPED A BIT
	SNL!CLL	
E1419,	HALT	/ERROR; XCTRAL FAILED LINK DROPPED
		/TEST XCT DAC
	LAC K3S	/AC=333333
	XCT XCTDAC	/DAC 17777
	TAD K4S	/AC=777777
	CMA	/AC=0
	SZA	
E1420,	HALT	/ERROR; XCT DAC FAILED, K3S
		/NOT STORED AT 17777
		/TEST XCT-JMS; FROM 0 XCT(17777)
		/ERROR TABLE ADDRESS
	LAC XCT0	
	SZA	
E1421,	HALT	/ERROR; XCT(17777) FROM 0
	LAC XCT0S	
	DAC XCT0	/XCT (17777)
	DAC 0	
	LAC XCTR0	
	DAC 17777	/JMS 0
	LAC XCT0R	
	DAC 1	/RJMP RXCT0
	JMP 0	/ENTER TEST
RXCT0,	DZM XCT0	/CLEAR ERROR TABLE
	LAC 0	/RJMP ADDRESS
	SAD K1	
	SKP	
E1422,	HALT	/ERROR; RJMP ADDRESS NOT 1
		/TEST XCT-JMS; FROM 1 XCT(17776)
		/ERROR TABLE ADDRESS
	LAC XCT1	
	SZA	

E1423,	HALT	/ERROR; XCT (17776) FROM 1
	LAC XCT1S	
	DAC XCT1	/XCT (17776)
	DAC 1	
	LAC XCTR1	
	DAC 17776	/JMS 1
	LAC XCT1R	
	DAC 2	/RJMP RXCT1
RXCT1,	JMP 1	/ENTER TEST
	DZM XCT1	/CLEAR ERROR TABLE
	LAC 1	/RJMP ADDRESS
	SAD K2	
	SKP	
E1424,	HALT	/ERROR; RJMP ADDRESS NOT 2
		/TEST XCT;JMS; FROM 2 XCT(17775)
	LAC XCT2	/ERROR TABLE ADDRESS
	SZA	
E1425,	HALT	/ERROR; XCT(17775) FROM 2
	LAC XCT2S	
	DAC XCT2	/XCT(17775)
	DAC 2	
	LAC XCTR2	
	DAC 17775	/JMS 2
	LAC XCT2R	
	DAC 3	/RJMP RXCT2
	JMP 2	/ENTER TEST
RXCT2,	DZM XCT2	/CLEAR ERROR TABLE
	LAC 2	/RJMP ADDRESS
	SAD K3	
	SKP	
E1426,	HALT	/ERROR; RJMP ADDRESS NOT 3
		/TEST XCT-JMS; FROM 4 XCT (17773)
	LAC XCT4	/ERROR TABLE ADDRESS
	SZA	
E1427,	HALT	/ERROR; XCT (17773) FROM 4
	LAC XCT4S	
	DAC XCT4	/XCT (17773)
	DAC 4	
	LAC XCTR4	
	DAC 17773	/JMS 4
	LAC XCT3R	
	DAC 5	/RJMP RXCT3
	JMP 4	/ENTER TEST
RXCT3,	DZM XCT4	/CLEAR ERROR TABLE
	LAC 4	/RJMP ADDRESS
	SAD K5	
	SKP	
E1428,	HALT	/ERROR; RJMP ADDRESS NOT 5
		/TEST XCT-JMS; FROM 10 XCT (17767)
	LAC XCT10	/ERROR TABLE ADDRESS
	SZA	
E1429,	HALT	/ERROR; XCT(17767) FROM 10
	LAC XCT10S	
	LAC XCT10	/XCT (17767)
	DAC 10	
	LAC XCTR10	
	DAC 17767	/JMS 10
	LAC XCT4R	
	DAC 11	/RJMP RXCT4

RXCT4,	JMP 10	/ENTER TEST
	DZM XCT10	/CLEAR ERROR TABLE
	LAC 10	/RJMP ADDRESS
	SAD K11	
	SKP	
E1430,	HALT	/ERROR; RJMP ADDRESS NOT 11
	LAC XCT20	/TEST XCT-JMS; FROM 20 XCT(17757)
	SZA	/ERROR TABLE ADDRESS
E1431,	HALT	/ERROR; XCT(17757) FROM 20
	LAC XCT20S	
	DAC XCT20	/XCT (17757)
	DAC 20	
	LAC XCTR20	
	DAC 17757	/JMS 20
	LAC XCT5R	
	DAC 21	/RJMP RXCT5
	JMP 20	/ENTER TEST
RXCT5,	DZM XCT20	/CLEAR ERROR TABLE
	LAC 20	/RJMP ADDRESS
	SAD K21	
	SKP	
E1432,	HALT	/ERROR; RJMP ADDRESS NOT 21
		/TEST XCT-JMS; FROM 10040 XCT (17737)
	LAC XCT40	/ERROR TABLE ADDRESS
	SZA	
E1433,	HALT	/ERROR; XCT (17737) FROM 10040
	LAC XCT40S	
	DAC XCT40	/XCT (17737)
	DAC 10040	
	LAC XCTR40	
	DAC 17737	/JMS 10040
	LAC XCT6R	
	DAC 10041	/RJMP RXCT6
	JMP 10040	/ENTER TEST
RXCT6,	DZM XCT40	/CLEAR ERROR TABLE
	LAC 10040	/RJMP ADDRESS
	SAD K10041	
	SKP	
E1434,	HALT	/ERROR; RJMP ADDRESS NOT 10041
		/TEST XCT-JMS; FROM 10100 XCT (17677)
	LAC XCT1C	/ERROR TABLE ADDRESS
	SZA	
E1435,	HALT	/ERROR; XCT (17677) FROM 10100
	LAC XCT1CS	
	DAC XCT1C	/XCT (17677)
	DAC 10100	
	LAC XCTR1C	
	DAC 17677	/JMS 10100
	LAC XCT7R	
	DAC 10101	/RJMP RXCT7
	JMP 10100	/ENTER TEST
RXCT7,	DZM XCT1C	/CLEAR ERROR TABLE
	LAC 10100	/RJMP ADDRESS
	SAD K10101	
	SKP	
E1436,	HALT	/ERROR; RJMP ADDRESS NOT 10101

	LAC XCT2C	/TEST XCT-JMS; FROM 10200 XCT(17577)
	SZA	/ERROR TABLE ADDRESS
E1437,	HALT	/ERROR; XCT (17577) FROM 10200
	LAC XCT2CS	
	DAC XCT2C	/XCT (17577)
	DAC 10200	
	LAC XCTR2C	
	DAC 17577	/JMS 10200
	LAC XCTR8R	
	DAC 10201	/RJMP RXCT8
RXCT8,	JMP 10200	/ENTER TEST
	DZM XCT2C	/CLEAR ERROR TABLE
	LAC 10200	/RJMP ADDRESS
	SAD K10201	
	SKP	
E1438,	HALT	/ERROR; RJMP ADDRESS NOT 10201
	LAC XCT4C	/TEST XCT-JMS; FROM 10400 XCT (17377)
	SZA	/ERROR TABLE ADDRESS
E1439,	HALT	/ERROR; XCT(17377) FROM 10400
	LAC XCT4CS	
	DAC XCT4C	/XCT (17377)
	DAC 10400	
	LAC XCTR4C	
	DAC 17377	/JMS 10400
	LAC XCT9R	
	DAC 10401	/RJMP RXCT9
RXCT9,	JMP 10400	/ENTER TEST
	DZM XCT4C	/CLEAR ERROR TABLE
	LAC 10400	/RJMP ADDRESS
	SAD K10401	
	SKP	
E1440,	HALT	/ERROR; RJMP ADDRESS NOT 10401
	LAC XCT1K	/TEST XCT-JMS; FROM 11000 XCT(16777)
	SZA	/ERROR TABLE ADDRESS
E1441,	HALT	/ERROR; XCT(16777) FROM 11000
	LAC XCT1KS	
	DAC XCT1K	/XCT (16777)
	DAC 11000	
	LAC XCTR1K	
	DAC 16777	/JMS 11000
	LAC XCT10R	
	DAC 11001	/RJMP RXCT10
	JMP 11000	/ENTER TEST

RXCT10,	DZM XCT1K	/CLEAR ERROR TABLE
	LAC 11000	/RJMP ADDRESS
	SAD K11001	
	SKP	
F1442,	HALT	/ERROR; RJMP ADDRESS NOT 11001
	LAC XCT2K	/TEST XCT-JMS; FROM 12000 XCT(15777)
	SZA	/ERROR TABLE ADDRESS
F1443,	HALT	/ERROR; XCT(15777) FROM 12000
	LAC XCT2KS	
	PAC XCT2K	/XCT(15777)
	DAC 12000	
	LAC XCTR2K	
	DAC 15777	/JMS 12000
	LAC XCT11R	
	DAC 12001	/RJMP RXCT11
	JMP 12000	/ENTER TEST
RXCT11,	DZM XCT2K	/CLEAR ERROR TABLE
	LAC 12000	/RJMP ADDRESS
	SAD K12001	
	SKP	
F1444,	HALT	/ERROR; RJMP ADDRESS NOT 12001
	LAC XCT4K	/TEST XCT-JMS; FROM 14000 XCT(13777)
	SZA	/ERROR TABLE ADDRESS
F1445,	HALT	/ERROR; XCT(13777) FROM 14000
	LAC XCT4KS	
	DAC XCT4K	/XCT(13777)
	DAC 14000	
	LAC XCTR4K	
	DAC 13777	/JMS 14000
	LAC XCT12R	
	DAC 14001	/RJMP RXCT12
	JMP 14000	/ENTER TEST
RXCT12,	DZM XCT4K	/CLEAR ERROR TABLE
	LAC 14000	/RJMP ADDRESS
	SAD K14001	
	SKP	
F1446,	HALT	/ERROR; RJMP ADDRESS NOT 14001
	LAC XCT10K	/TEST XCT-JMS; FROM 10000 XCT (7777)
	SZA	/ERROR TABLE ADDRESS
F1447,	HALT	/ERROR; XCT (7777) FROM 10000
	LAC XCT1XS	
	PAC XCT10K	/XCT (7777)
	DAC 10000	
	LAC XCTR1X	
	DAC 7777	/JMS 10000
	LAC XCT13R	

	DAC 10001	/RJMP RXCT13
	JMP 10000	/ENTER TFST
RXCT13,	DZM XCT10K	/CLEAR ERROR TABLE
	LAC 10000	/RJMP ADDRESS
	SAD K10001	
	SKP	
E1448,	HALT	/ERROR; RJMP ADDRESS NOT 10001
		/TEST XCT-JMS; FROM 15252 XCT (12525)
	LAC XCT125	/ERROR TABLE ADDRESS
	SZA	
E1449,	HALT	/ERROR; XCT (12525) FROM 15252
	LAC XCT125	
	DAC XCT125	/XCT (12525)
	DAC 15252	
	LAC XCTR12	/JMS 15252
	DAC 12525	
	LAC XCT14R	/RJMP RXCT14
	DAC 15253	/ENTER TEST
RXCT14,	JMP 15252	/CLEAR ERROR TABLE
	DZM XCT125	/RJMP ADDRESS
	LAC 15252	
	SAD K15253	
	SKP	
E1450,	HALT	/ERROR; RJMP ADDRESS NOT 15253
		/TEST EXECUTE SERIES
	CLA!CMA!CLL!CML	/AC=ONFS, L=1
	XCT .+1	
	XCT .+1	
	XCT .+1	
	XCT .+1	
	XCT .+1	
	XCT .+1	
	NOP	
	CMA	/AC=0
	SZA	
E1451,	HALT	/ERROR; XCT SERIES FAILED AC NOT ONES
	SNL	
E1452,	HALT	/ERROR; XCT SERIES FAILED LINK NOT A ONE
START		

/PDP-9 INSTRUCTION TEST PART II - TAPE 16  
 /TEST AUTO-INDEX 0

E1452A, LAC 0  
 DAC AUTNOT /STORE (0) AT AUTNOT  
 LAC I 0 /FALSE AUTO INDEX 0  
 LAC AUTNOT  
 SAD 0 /COMPARE (AUTNOT) WITH (0)  
 SKP  
 HALT /ERROR; (0) AUTO-INDEXED  
 DAC 0 /RESTORE (0)

/TEST AUTO-INDEX (30)

E1452B, LAC 30  
 DAC AUTNOT /STORE (30) AT AUTNOT  
 LAC I 30 /FALSE AUTO INDEX 30  
 LAC AUTNOT  
 SAD 30 /COMPARE (AUTNOT) WITH (30)  
 SKP  
 HALT /ERROR; (30) AUTO-INDEXED  
 DAC 30 /RESTORE 30

/TEST AUTO-INDEX 50

E1452C, LAC 50  
 DAC AUTNOT /STORE (50) AT AUTNOT  
 LAC I 50 /FALSE AUTO INDEX 50  
 LAC AUTNOT  
 SAD 50 /COMPARE (AUTNOT) WITH (50)  
 SKP  
 HALT /ERROR; (50) AUTO-INDEXED  
 DAC 50 /RESTORE 50

/TEST AUTO-INDEX 110

E1452D, LAC 110  
 DAC AUTNOT /STORE (110) AT AUTNOT  
 LAC I 110 /FALSE AUTO INDEX 110  
 LAC AUTNOT  
 SAD 110 /COMPARE (AUTNOT) WITH (110)  
 SKP  
 HALT /ERROR; (110) AUTO-INDEXED  
 DAC 110 /RESTORE 110

/TEST AUTO-INDEX 210

E1452E, LAC 210  
 DAC AUTNOT /STORE (210) AT AUTNOT  
 LAC I 210 /FALSE AUTO INDEX 210  
 LAC AUTNOT  
 SAD 210 /COMPARE (AUTNOT) WITH (210)  
 SKP  
 HALT /ERROR; (210) AUTO-INDEXED  
 DAC 210 /RESTORE 210

/TEST AUTO-INDEX 410

E1452F, LAC 410  
 DAC AUTNOT /STORE (410) AT AUTNOT  
 LAC I 410 /FALSE AUTO INDEX 410  
 LAC AUTNOT  
 SAD 410 /COMPARE (AUTNOT) WITH (410)  
 SKP  
 HALT /ERROR; (410) AUTO-INDEXED  
 DAC 410 /RESTORE 410

/TEST AUTO-INDEX 1010

LAC 1010



	DAC AUTNOT	/STORE (1010) AT AUTNOT
	LAC I 0110	/FALSE AUTO INDEX 1010
	LAC AUTNOT	
	SAD 1010	/COMPARE (AUTNOT) WITH (1010)
	SKP	
E1452G,	HALT	/ERROR; (1010) AUTO-INDEXED
	DAC 1010	/RESTORE 1010
		/TEST AUTO-INDEX 2010
	LAC 2010	
	DAC AUTNOT	/STORE (2010) AT AUTNOT
	LAC I 2010	/FALSE AUTO INDEX 2010
	LAC AUTNOT	
	SAD 2010	/COMPARE (AUTNOT) WITH (2010)
	SKP	
E1452H,	HALT	/ERROR; (2010) AUTO-INDEXED
	DAC 2010	/RESTORE 2010
		/TEST AUTO-INDEX 4010
	LAC 4010	
	DAC AUTNOT	/STORE (4010) AT AUTNOT
	LAC I 4010	/FALSE AUTO INDEX 4010
	LAC AUTNOT	
	SAD 4010	/COMPARE (AUTNOT) WITH (4010)
	SKP	
E1452I,	HALT	/ERROR; (4010) AUTO-INDEXED
	DAC 4010	/RESTORE 4010
		/TEST AUTO-INDEX 7
	LAC 7	
	DAC AUTNOT	/STORE (7) AT AUTNOT
	LAC I 7	/FALSE AUTO INDEX 7
	LAC AUTNOT	
	SAD 7	/COMPARE (AUTNOT) WITH (7)
	SKP	
E1452J,	HALT	/ERROR; (7) AUTO-INDEXED
	DAC 7	/RESTORE (7)
		/TEST LAC INDIRECT 17777
	LAC K0	/AC=0
	DAC 17777	/((17777))=0
	LAC M400K	/AC=377777
	DAC 0	/((0))=377777
	LAC I 17777	/AC=777777
	TAD K400K	/AC=377777
	CMA	/AC=0
	SZA	
E1453,	HALT	/ERROR; LAC I 17777 FAILED
		/AC NOT M400K
		/TEST LAC INDIRECT 17776
	LAC K1	/AC=1
	DAC 17776	/((17776))=1
	LAC M200K	/AC=577777
	DAC 1	/((1))=577777
	LAC I 17776	/AC=577777
	TAD K200K	/AC=777777
	CMA	/AC=0
	SZA	
E1454,	HALT	/ERROR; LAC I 17776 FAILED
		/AC NOT M200K

```

/TEST LAC INDIRECT 17775
LAC K2 /AC=2
DAC 17775 /(17775)=2
LAC M100K /AC=677777
DAC 2 /(2)=677777
LAC I 17775 /AC=677777
TAD K100K /AC=777777
CMA /AC=0
SZA
E1455, HALT /ERROR; LAC I 17775 FAILED
/AC NOT M100K

```

```

/TEST LAC INDIRECT 17773
LAC K4 /AC=4
DAC 17773 /(17773)=4
LAC M40K /AC=737777
DAC 4 /(4)=737777
LAC I 17773 /AC=737777
TAD K40K /AC=777777
CMA /AC=0
SZA
E1456, HALT /ERROR; LAC I 17773 FAILED
/AC NOT M40K

```

```

/TEST LAC INDIRECT 17767
LAC K10 /AC=10
DAC 17767 /(17767)=10
LAC M20K /AC=757777
DAC 10 /(10)=757777
LAC I 17767 /AC=757777
TAD K20K /AC=777777
CMA /AC=0
SZA
E1457, HALT /ERROR; LAC I 17767 FAILED
/AC NOT M20K

```

```

/TEST LAC INDIRECT 17757
LAC K20 /AC=20
DAC 17757 /(17757)=20
LAC M10K /AC=767777
DAC 20 /(20)=767777
LAC I 17757 /AC=767777
TAD K10K /AC=777777
CMA /AC=0
SZA
E1458, HALT /ERROR; LAC I 17757 FAILED
/AC NOT M10K

```

```

/TEST LAC INDIRECT 17737
LAC K10040 /AC=10040
DAC 17737 /(17737)=10040
LAC M4K /AC=773777
DAC 10040 /(10040)=773777
LAC I 17737 /AC=773777
TAD K4K /AC=777777
CMA /AC=0
SZA

```

```

E1459,      HALT                /ERROR; LAC I 17737 FAILED
                                         /AC NOT M4K

                                         /TEST LAC INDIRECT 17677
LAC K10100          /AC=10100
DAC 17677          /((17677))=10100
LAC M2K            /AC=775777
DAC 10100          /((10100))=775777
LAC I 17677        /AC=775777
TAD K2K            /AC=777777
CMA                /AC=0
SZA
E1460,      HALT                /ERROR; LAC I 17677 FAILED
                                         /AC NOT M2K

                                         /TEST LAC INDIRECT 17577
LAC K10200          /AC=10200
DAC 17577          /((17577))=10200
LAC M1K            /AC=776777
DAC 10200          /((10200))=776777
LAC I 17577        /AC=776777
TAD K1K            /AC=777777
CMA                /AC=0
SZA
E1461,      HALT                /ERROR, LAC I 17577 FAILED
                                         /AC NOT M1K

                                         /TEST LAC INDIRECT 17377
LAC K10400          /AC=10400
DAC 17377          /((17377))=10400
LAC M400 /AC=777377
DAC 10400          /((10400))=777377
LAC I 17377        /AC=777377
TAD K400 /AC=777777
CMA                /AC=0
SZA
E1462,      HALT                /ERROR; LAC I 17377 FAILED
                                         /AC NOT M400

                                         /TEST LAC INDIRECT 16777
LAC K11K            /AC=11000
DAC 16777          /((16777))=11000
LAC M200 /AC=777577
DAC 11000          /((11000))=777577
LAC I 16777        /AC=777577
TAD K200 /AC=777777
CMA                /AC=0
SZA
E1463,      HALT                /ERROR LAC I 16777 FAILED
                                         /AC NOT M200

                                         /TEST LAC INDIRECT 15777
LAC K12K            /AC=12000
DAC 15777          /((15777))=12000
LAC M100 /AC=777677
DAC 12000          /((12000))=777677
LAC I 15777        /AC=777677
TAD K100 /AC=777777

```

```

E1464,      CMA                /AC=0
             SZA
             HALT                /ERROR; LAC I 15777 FAILED
                                 /AC NOT M100
                                 /TEST LAC INDIRECT 13777
LAC K14K    /AC=14000
DAC 13777  /(13777)=14000
LAC M40    /AC=777737
DAC 14000  /(14000)=777737
LAC I 13777 /AC=777737
TAD K40    /AC=777777
CMA        /AC=0
SZA
E1465,      HALT                /ERROR; LAC I 13777 FAILED
                                 /AC NOT M40
                                 /TEST LAC INDIRECT 7777
LAC K10K   /AC=10000
DAC 7777   /(7777)=10000
LAC M20    /AC=777757
DAC 10000  /(10000)=777757
LAC I 7777 /AC=777757
TAD K20    /AC=777777
CMA        /AC=0
SZA
E1466,      HALT                /ERROR; LAC I 7777 FAILED
                                 /AC NOT M20
                                 /TEST XCT JMS I 1
                                 /AC=0
CLL
CLA
SAD JMST1
SKP
E1467,      HALT                /ERROR; JMS DESTINATION ERROR
                                 /TABLE ADDRESS NOT 0
                                 /DIRECT ADDRESS
                                 /INDIRECT ADDRESS
LAC K17776 /JMS I 1
DAC 1       /ERROR TABLE ADDRESS
LAC JMSI1   /STORE JMS I 1 AT 15252
DAC JMST1   /JMP RJSI1
DAC 15252   /STORE RETURN TO TEST
LAC RJSI1   /XCT TEST
DAC 17777   /RJSI1-1 ADDRESS
XCT 15252   /CLEAR ERROR TABLE ADDRESS
SKP
RJSI1,      DZM JMST1
LAC 17776
SAD RJSI1X
CLA!SKP
E1468,      HALT                /ERROR; RJMP ADDRESS,
                                 /(177776) NOT RJSI1-1
CLL
CLA
SAD JMST2
SKP
E1469,      HALT                /ERROR; JMS DESTINATION ERROR
                                 /TABLE ADDRESS NOT 0
                                 /DIRECT ADDRESS
                                 /INDIRECT ADDRESS
LAC K17775 /JMS I 2
DAC 2
LAC JMSI2

```

	DAC JMST2	/ERROR TABLE ADDRESS
	DAC 15252	/STORE JMS I 2 AT 15252
	LAC RJMI2	/JMP RJSI2
	DAC 17776	/STORE RETURN TO TEST
	JMP 15252	/JMP TO 15252
	SKP	
RJSI2,	DZM JMST2	/CLEAR ERROR TABLE ADDRESS
	LAC 17775	
	SAD K15253	
	CLA!SKP	
E1470,	HALT	/ERROR; RJMP ADDRESS, (17775) NOT 15253
	CLL	/TEST JMS I 4
	CLA	/AC=0
	SAD JMST4	
	SKP	
E1471,	HALT	/ERROR; JMS DESTINATION ERROR
	LAC K17773	/TABLE ADDRESS NOT 0
	DAC 4	/DIRECT ADDRESS
	LAC JMSI4	/INDIRECT ADDRESS
	DAC JMST4	/JMS I 4
	DAC 15252	/ERROR TABLE ADDRESS
	LAC RJMI3	/STORE JMS I 4 AT 15252
	DAC 17774	/JMP RJSI3
	JMP 15252	/STORE RETURN TO TEST
	SKP	/JMP TO 15252
RJSI3,	DZM JMST4	/CLEAR ERROR TABLE ADDRESS
	LAC 17773	
	SAD K15253	
	CLA!SKP	
E1472,	HALT	/ERROR; RJMP ADDRESS, (17773) NOT 15253
	CLL	/TEST JMS I 10010
	CLA	/AC=0
	SAD JMST10	
	SKP	
E1472A,	HALT	/ERROR; JMS DESTINATION ERROR
	LAC K17767	/TABLE ADDRESS NOT 0
	DAC 10010	/DIRECT ADDRESS
	LAC JMSI10	/JMS I 10010
	DAC JMST10	/ERROR TABLE ADDRESS
	DAC 15252	/STORE JMS I 4 AT 15252
	LAC RJM13A	/JMP RJS13A
	DAC 17770	/STORE RETURN TO TEST
	JMP 15252	/JMP TO 15252
	SKP	
RJS13A,	DZM JMST10	/CLEAR ERROR TABLE ADDRESS
	LAC 17767	
	SAD K15253	
	CLA!SKP	
E1472B,	HALT	/ERROR; RJMP ADDRESS (17767) NOT 15253

	CLL	/TEST JMS I 20
	CLA	/AC=0
	SAD JMST20	
	SKP	
E1473,	HALT	/ERROR; JMS DESTINATION ERROR
		/TABLE ADDRESS NOT 0
	LAC K17757	/DIRECT ADDRESS
	DAC 20	/INDIRECT ADDRESS
	LAC JMSI20	/JMS I 20
	DAC JMST20	/ERROR TABLE ADDRESS
	DAC 15252	/STORE JMS I 20 AT 15252
	LAC RJMI4	/JMP RJSI4
	DAC 17760	/STORE RETURN TO TEST
	JMP 15252	/JMP TO 15252
	SKP	
RJSI4,	DZM JMST20	/CLEAR ERROR TABLE ADDRESS
	LAC 17757	
	SAD K15253	
	CLA!SKP	
E1474,	HALT	/ERROR; RJMP ADDRESS,(17757) NOT 15253
	CLL	/TEST JMS I 10040
	CLA	/AC=0
	SAD JMST40	
	SKP	
E1475,	HALT	/ERROR; JMS DESTINATION ERROR
		/TABLE ADDRESS NOT 0
	LAC K17737	/DIRECT ADDRESS
	DAC 10040	/INDIRECT ADDRESS
	LAC JMSI40	/JMS I 10040
	DAC JMST40	/ERROR TABLE ADDRESS
	DAC 15252	/STORE JMS I 10040 AT 15252
	LAC RJMI5	/JMP RJSI5
	DAC 17740	/STORE RETURN TO TEST
	JMP 15252	/JMP TO 15252
	SKP	
RJSI5,	DZM JMST40	/CLEAR ERROR TABLE ADDRESS
	LAC 17737	
	SAD K15253	
	CLA!SKP	
E1476,	HALT	/ERROR; RJMP ADDRESS, (17737) NOT 15253
	CLL	/TEST JMS I 10100
	CLA	/AC=0
	SAD JMST1C	
	SKP	
E1477,	HALT	/ERROR; JMS DESTINATION ERROR
		/TABLE ADDRESS NOT 0
	LAC K17677	/DIRECT ADDRESS
	DAC 10100	/INDIRECT ADDRESS
	LAC JMSI1C	/JMS I 10100
	DAC JMST1C	/ERROR TABLE ADDRESS
	DAC 15252	/STORE JMS I 10100 AT 15252
	LAC RJMI6	/JMP RJSI6
	DAC 17700	/STORE RETURN TO TEST
	JMP 15252	/JMP TO 15252
	SKP	

RJSI6,	DZM JMST1C	/CLEAR ERROR TABLE ADDRESS
	LAC 17677	
	SAD K15253	
	CLA!SKP	
E1478,	HALT	/ERROR; RJMP ADDRESS, (17677) NOT 15253
	CLL	/TEST JMS I 10200
	CLA	/AC0
	SAD JMST2C	
	SKP	
E1479,	HALT	/ERROR; JMS DESTINATION ERROR
		/TABLE ADDRESS NOT 0
	LAC K17577	/DIRECT ADDRESS
	DAC 10200	/INDIRECT ADDRESS
	LAC JMST2C	/JMS I 10200
	DAC JMST2C	/ERROR TABLE ADDRESS
	DAC 15252	/STORE JMS I 10200 AT 15252
	LAC RJMI7	/JMP RJSI7
	DAC 17600	/STORE RETURN TO TEST
	JMP 15252	/JMP TO 15252
	SKP	
RJSI7,	DZM JMST2C	/CLEAR ERROR TABLE ADDRESS
	LAC 17577	
	SAD K15253	
	CLA!SKP	
E1480,	HALT	/ERROR; RJMP ADDRESS, (17577) NOT 15253
	CLL	/TEST JMS I 10400
	CLA	/AC=0
	SAD JMST4C	
	SKP	
E1481,	HALT	/ERROR; JMS DESTINATION ERROR
		/TABLE ADDRESS NOT 0
	LAC K17377	/DIRECT ADDRESS
	DAC 10400	/INDIRECT ADDRESS
	LAC JMST4C	/JMS I 10400
	DAC JMST4C	/ERROR TABLE ADDRESS
	DAC 15252	/STORE JMS I 10400 AT 15252
	LAC RJMI8	/JMP RJSI8
	DAC 17400	/STORE RETURN TO TEST
	JMP 15252	/JMP TO 15252
	SKP	
RJSI8,	DZM JMST4C	/CLEAR ERROR TABLE ADDRESS
	LAC 17377	
	SAD K15253	
	CLA!SKP	
E1482,	HALT	/ERROR; RJMP ADDRESS, (17377) NOT 15253

	CLL	/TEST JMS I 11000
	CLA	/AC=0
	SAD JMST1K	
	SKP	
E1483,	HALT	/ERROR; JMS DESTINATION ERROR
	LAC K16777	/TABLE ADDRESS NOT 0
	DAC 11000	/DIRECT ADDRESS
	LAC JMSI1K	/INDIRECT ADDRESS
	DAC JMST1K	/JMS I 11000
	DAC 15252	/ERROR TABLE ADDRESS
	LAC RJMI9	/STORE JMS I 11000 AT 15252
	DAC 17000	/JMP RJSI9
	JMP 15252	/STORE RETURN TO TEST
	SKP	/JMP TO 15252
RJSI9,	DZM JMST1K	/CLEAR ERROR TABLE ADDRESS
	LAC 16777	
	SAD K15253	
E1484,	CLA:SKP	/ERROR; RJMP ADDRESS, (16777) NOT 15253
	HALT	
	CLL	/TEST JMS I 12000
	CLA	/AC=0
	SAD JMST2K	
	SKP	
E1485,	HALT	/ERROR; JMS DESTINATION ERROR
	LAC K15777	/TABLE ADDRESS NOT 0
	DAC 12000	/DIRECT ADDRESS
	LAC JMSI2K	/INDIRECT ADDRESS
	DAC JMST2K	/JMS I 12000
	DAC 15252	/ERROR TABLE ADDRESS
	LAC RJMI10	/STORE JMS I 12000 AT 15252
	DAC 16000	/JMP RJSI10
	JMP 15252	/STORE RETURN TO TEST
	SKP	/JMP TO 15252
RJSI10,	DZM JMST2K	/CLEAR ERROR TABLE ADDRESS
	LAC 15777	
	SAD K15253	
E1486,	CLA:SKP	/ERROR; RJMP ADDRESS, (15777) NOT 15253
	HALT	



```

E1487,      CLL                /TEST JMS I 14000
            CLA                /AC=0
            SAD JMST4K
            SKP
            HALT              /ERROR; JMS DESTINATION ERROR
                                /TABLE ADDRESS NOT 0
                                /DIRECT ADDRESS
LAC K17777  /INDIRECT ADDRESS
DAC 14000   /JMS I 14000
LAC JMST4K  /ERROR TABLE ADDRESS
DAC 15252   /STORE JMS I 14000 AT 15252
LAC RJMI11  /JMP RJSI11
DAC 0       /STORE RETURN TO TEST
JMP 15252   /JMP TO 15252
RJSI11,     DZM JMST4K        /CLEAR ERROR TABLE ADDRESS
            LAC 17777
            SAD K15253
            CLA!SKP
E1488,     HALT              /ERROR; RJMP ADDRESS, (17777) NOT 15253
            CLL                /TEST JMS I 10000
            CLA                /AC=0
            SAD JMST1X
            SKP
E1489,     HALT              /ERROR; JMS DESTINATION ERROR
                                /TABLE ADDRESS NOT 0
                                /DIRECT ADDRESS
LAC K17776  /INDIRECT ADDRESS
DAC 10000   /JMS I 10000
LAC JMST1X  /ERROR TABLE ADDRESS
DAC 15252   /STORE JMS I 10000 AT 15252
LAC RJMI12  /JMP RJSI12
DAC 17777   /STORE RETURN TO TEST
JMP 15252   /JMP TO 15252
RJSI12,     DZM JMST1X        /CLEAR ERROR TABLE ADDRESS
            LAC 17776
            SAD K15253
            CLA!SKP
E1490,     HALT              /ERROR; RJMP ADDRESS, (17776) NOT 15253
START

```

```

/80P-9 INSTRUCTION TEST PART II - TAPE 17
      LAC K0
      DAC 17777
      LAC XCTDZM
      DAC 0
      LAW 17777
      DAC 12525
      XCT I 17777
      LAC 12525
      SZA
E1491, HALT
      /TEST XCT INDIRECT
      /DIRECT ADDRESS
      /INDIRECT ADDRESS
      /DZM 12525
      /(12525) = 77777
      /ERROR; XCT I A DZM
      /FAILED, (12525) NOT 77777

      /TEST ISZ INDIRECT
      /DIRECT ADDRESS
      /INDIRECT ADDRESS
      /((0)=777777
E1492, HALT
      /ERROR, ISZ I 17777 FAILED
      /TO SKIP

      /TEST XCT I LAC I
      /DIRECT ADDRESS FOR XCT I
      /INDIRECT ADDRESS FOR XCT I
      /DIRECT ADDRESS FOR AND I
      /INDIRECT ADDRESS FOR AND I
      /AND I 17776
      /((1)=2525
      /AC=ONES
E1493, HALT
      /ERROR; XCT I 17777 FOLLOWED
      /BY AND I 17776 FAILED

```

	LAC K17776	/TEST AUTO-INDEX (XOR I 10)
	DAC 10	/AUTO-INDEX (10) = 17776
	LAC K1S	/AC = 111111
	DAC 17777	/(17777)=111111
	XOR I 10	
	SZA	
E1494,	HALT	/ERROR; XOR I 10 FAILED
		/AC NOT 111111
	LAC 10	/AUTO-INDEX REGISTER
	SAD K17777	
	SKP	
E1495,	HALT	/ERROR; (10) NOT INCREMENTED+1
	LAC K17775	/TEST AUTO-INDEX; XOR I 10
	DAC 10	/(10) = 17775
	LAC K2S	/AC = 222222
	DAC 17776	/(17776)=222222
	XOR I 10	
	SZA	
E1496,	HALT	/ERROR; XOR I 10 FAILED AC NOT 222222
	LAC 10	
	SAD K17776	
	SKP	
E1497,	HALT	/ERROR; (10)NOT INCREMENTED+1
	LAC K17773	/TEST AUTO-INDEX; XOR I 10
	DAC 10	/(10)=17773
	LAC K3S	/AC = 333333
	DAC 17774	/(17774)=333333
	XOR I 10	
	SZA	
E1498,	HALT	/ERROR; XOR I 10 FAILED AC NOT 333333
	LAC 10	
	SAD K17774	
	SKP	
E1499,	HALT	/ERROR;(10) NOT INCREMENTED+1

/TEST AUTO-INDEX; XOR I 10

LAC K17767  
DAC 10  
LAC K4S  
DAC 17770  
XOR I 10/(10)=17767  
/AC = 444444  
/(17770)=444444

E1500,

SZA  
HALT

/ERROR; XOR I 10 FAILED AC NOT 444444

LAC 10  
SAD K17770  
SKP  
HALT

/ERROR; (10) NOT INCREMENTED+1

E1501,

/TEST AUTO-INDEX; XOR I 10

LAC K17757  
DAC 10  
LAC K5S  
DAC 17760  
XOR I 10/(10)=17757  
/AC = 555555  
/(17760)=555555

E1502,

SZA  
HALT

/ERROR; XOR I 10 FAILED AC NOT 555555

LAC 10  
SAD K17760  
SKP  
HALT

/ERROR; (10) NOT INCREMENTED+1

E1503,

/TEST AUTO-INDEX; XOR I 10

LAC K17737  
DAC 10  
LAC K6S  
DAC 17740  
XOR I 10/(10)=17737  
/AC = 666666  
/(17740)=666666

E1504,

SZA  
HALT

/ERROR; XOR I 10 FAILED AC NOT 666666

LAC 10  
SAD K17740  
SKP  
HALT

/ERROR; (10) NOT INCREMENTED+1

E1505,

		/TEST AUTO-INDEX; XOR I 10
	LAC K17677	
	DAC 10	/(10)=17677
	LAC K7S	/AC = 777777
	DAC 17700	/(17700) = 777777
	XOR I 10	
	SZA	
E1506,	HALT	/ERROR; XOR I 10 FAILED AC NOT 777777
	LAC 10	
	SAD K17700	
	SKP	
E1507,	HALT	/ERROR; (10) NOT INCREMENTED+1
		/TEST AUTO-INDEX; XOR I 10
	LAC K17577	
	DAC 10	/(10)=17577
	LAC K5252	/AC=5252
	DAC 17600	/(17600)=5252
	XOR I 10	
	SZA	
E1508,	HALT	/ERROR; XOR I 10 FAILED AC NOT 5252
	LAC 10	
	SAD K17600	
	SKP	
E1509,	HALT	/ERROR; (10) NOT INCREMENTED+1
		/TEST AUTO-INDEX; XOR I 10
	LAC K17377	
	DAC 10	/(10)=17377
	LAC K2525	/AC=2525
	DAC 17400	/(17400)=2525
	XOR I 10	
	SZA	
E1510,	HALT	/ERROR; XOR I 10 FAILED AC NOT 2525
	LAC 10	
	SAD K17400	
	SKP	
E1511,	HALT	/ERROR; (10) NOT INCREMENTED+1

/TEST AUTO-INDEX; XOR I 10

LAC K16777  
 DAC 10  
 LAC K15252  
 DAC 17000  
 XOR I 10  
 SZA

/(10) = 16777  
 /AC=15252  
 /((17000))=15252

E1512,

HALT

/ERROR; XOR I 10 FAILED AC NOT 15252

LAC 10

SAD K17000

SKP

E1513,

HALT

/ERROR; (10) NOT INCREMENTED+1

/TEST AUTO-INDEX; XOR I 10

LAC K15777  
 DAC 10  
 LAC K2K  
 DAC 16000  
 XOR I 10  
 SZA

/(10) = 15777  
 /AC=2000  
 /((16000))=2000

E1514,

HALT

/ERROR; XOR I 10 FAILED AC NOT 2000

LAC 10

SAD K16000

SKP

E1515,

HALT

/ERROR; (10) NOT INCREMENTED+1

/TEST AUTO-INDEX; XOR I 10

LAC K13777  
 DAC 10  
 LAC K4000  
 DAC 14000  
 XOR I 10  
 SZA

/(10)=13777  
 /AC=4000  
 /((14000))=4000

E1516,

HALT

/ERROR; XOR I 10 FAILED AC NOT 4000

LAC 10

SAD K14000

SKP

E1517,

HALT

/ERROR;(10) NOT INCREMENTED+1

		/TEST AUTO-INDEX (ISZ I 11)
	LAC K15252	
	DAC 11	/(11) = 15252
	LAC K7S	
	DAC 15253	/(15253)=777777
	ISZ I 11	
E1518,	HALT	/ERROR; ISZ FAILED TO SKIP
		/AUTO-INDEX 11 FAILED
	LAC 15253	
	SZA	
E1519,	HALT	/ERROR; (15253) NOT 0, ISZ FAILED
	LAC 11	
	SAD K15253	
	SKP	
E1520,	HALT	/ERROR; (11) NOT INCREMENTED+1
		/TEST AUTO-INDEX (JMP I 12)
	LAC AUTJMP	
	SZA	
E1521,	HALT	/ERROR; JMP I 12 FAILED TO
		/REACH 1
	LAC JMPAUT	
	DAC AUTJMP	/STORE JMP I 12 IN ERROR ADDRESS
	LAC AUTRET	/TABLE
	DAC 1	
	LAC K0	
	DAC 12	/(12)=0
	JMP I 12	
	SKP	
AUTR,	DZM AUTJMP	/CLEAR TABLE ERROR
	LAC 12	
	SAD K1	
	SKP	
E1522,	HALT	/ERROR (12) NOT INCREMENTED+1

## /TEST AUTO-INDEX (DAC I 13)

	LAC K7S	
	DAC 13	/(13) = 77777
	LAC K7S	
	DAC 0	/(0)=777777
	LAC K0	/AC=0
	DAC I 13	
	LAC 0	
	SZA	
E1523,	HALT	/ERROR; (0) NOT 0 (DAC I 13)
	LAC 13	
	SZA	
E1524,	HALT	/ERROR; (13) NOT INCREMENTED+1

## /TEST AUTO-INDEX (XCT I 14)

	LAC K7S	
	DAC 14	/(14) = 77777
	LAC AUTCMA	
	DAC 0	/(0)=CMA
	CLA!CMA	
	XCT I 14	
	SZA	
E1525,	HALT	/ERROR; AC NOT 0 (XCT I 14) A CMA
	LAC 14	
	SZA	
E1526,	HALT	/ERROR; (14) NOT INCREMENTED+1



	LAC K17776	/TEST AUTO-INDEX (TAD I 15)
	DAC 15	/(15)=17776
	LAC K1	
	DAC 17777	/(17777)=1
	CLL!CLA!CMA	
	TAD I 15	
	SZA	
E1527,	HALT	/ERROR; AC NOT 0 (TAD I 15)
	SNL	
E1528,	HALT	/ERROR; LINK NOT SET ( TAD I 15)
	LAC 15	
	SAD K17777	
	SKP	
E1529,	HALT	/ERROR; (15) NOT INCREMENTED+1
	LAC 17777	
	SAD K1	
	SKP	
E1530,	HALT	/ERROR; (17777) NOT A 1
		/TEST AUTO-INDEX (SAD I 16)
	LAC K7S	
	DAC 16	/(16) = 77777
	LAC K5252	
	DAC 0	/(0)=5252
	SAD I 16	
	SKP	
E1531,	HALT	/ERROR; SAD SKIPPED (SAD I 16)
	LAC 0	
	SAD K5252	
	SKP	
E1532,	HALT	/ERROR; (0) NOT 5252
	LAC 16	
	SZA	
E1533,	HALT	/ERROR; (16) NOT INCREMENTED+1

## /TEST AUTO-INDEX (JMS I 17)

E1534,	LAC AUTJMS	
	SZA:CLL	
	HALT	/ERROR; ERROR TABLE ADDRESS NOT 0
	LAC AUTRJM	
	DAC 1	/JMP AUTRE1
	LAC K7S	
	DAC 17	/817) = 777777
	LAC JMSAUT	
	DAC AUTJMS	/JMS I 17 STORED IN ERROR TABLE
	JMS I 17	
	SKP	
AUTRF1,	DZM AUTJMS	/CLEAR ERROR TABLE
	LAC 0	
	SAD AURJMP	
	SKP	
E1535,	HALT	/ERROR; (0) STORED WRONG
		/(0) SHOULD = AUTRE1-1
	LAC 17	
	SZA	
E1536,	HALT	/ERROR; (17) NOT INCREMENTED+1
		/TEST AUTO-INDEX (ISZ I 10) (10)=10
	LAC K10	/(11)=777777
	DAC 10	/(10)=10
	LAC K7S	
	DAC 11	/(11)=777777
	ISZ I 10	
E1537,	HALT	/ERROR; ISZ FAILED TO SKIP
	LAC 10	
	SAD K11	
	SKP	
E1538,	HALT	/ERROR; (10) NOT 11
	LAC 11	
	SZA	
E1539,	HALT	/ERROR; (11) NOT 0

	LAC K10	/TEST AUTO-INDEX (ISZ I 11) (11)=10
	DAC 11	/(11)=10
	ISZ I 11	
	LAC 11	
	SAD K12	
	SKP	
E1540,	HALT	/ERROR; ISZ I 11 FAILED TO +2
		/ADDRESS 11
	LAC K7S	/TEST AUTO-INDEX (XCT I 15)
	DAC 15	/(15) = 0 (0) = XCT I 15
	LAC LAWAUT	/(1)=LAW 17777 (15)=1
	DAC 0	/(0) XCT I 15
	LAC LAWFUL	
	DAC 1	/(1)=LAW 17777
	CLA	/AC=0
	XCT I 15	
	CMA	
	SZA	
E1541,	HALT	/ERROR; AC NOT ONES (LAW 17777)
		/DID NOT OCCUR
	LAC 15	
	SAD K1	
	SKP	
E1542,	HALT	/ERROR; (15) NOT A 1 (XCT I 15)

```

/TEST TIME CLOCK, CLSF
/FLAG=0
E1543, CLSF
SKP
HALT /ERROR; CLSF SKIPPED, FLAG=0
/TEST TIME CLOCK, CLOF

LAC K0 /((7)=0
DAC 7 /DELAY FOR COUNT WAIT
DZM 0 /CLOCK OFF
CLOF
ISZ 0
JMP .-1
LAC 7
SZA
E1544, HALT /ERROR; (7) NOT 0 AFTER CLOF
/TEST TIME CLOCK, CLON

LAC K0 /DELAY FOR COUNT WAIT
DZM 0 /CLOCK ON
CLON
ISZ 0
JMP .-1
LAC 7
SNA
E1545, HALT /ERROR; (7)=0 CLON FAILED
/TO TURN ON

DZM 0 /CLOCK ON
CLON /CLOCK OFF
CLOF
LAC K0
DAC 7
ISZ 0
JMP .-1 /DELAY FOR COUNT WAIT
LAC 7
SZA
E1546, HALT /ERROR; TIME CLOCK FAILED TO
/TURN OFF
DZM TCLK /TEST TIME CLOCK, CLSF
LAC K7S
DAC 7 /((7)=777777
CLON /TURN CLOCK ON
CLOCK, CLSF
SKP /SKIP ON CLOCK FLAG
JMP .+4
ISZ TCLK
JMP CLOCK
E1547, HALT /ERROR; TIME CLOCK DID NOT SKIP
CLOF /TURN CLOCK OFF

```

```

                                /TEST PI; ION (NO FLAGS SET)
LAC ITAB
SZA
E1548, HALT /ERROR; (ITAB) NOT 0
CLOF /CLEAR CLOCK
RCF /CLEAR READER FLAG
TCF /CLEAR TTY FLAG
LAC IRET
DAC 1 /RJMP E1549
ION
SKP
E1549, HALT /ERROR; PI OCCURED NO FLAGS SET
                                /TEST PI ION (FLAG SET) CLOCK ON
LAC K7X42
DAC ITAB /STORE 700042 IN ERROR TABLE
LAC IRET2
DAC 1 /RJMP IRET3
LAW 17777
DAC 7
DAC 0 /(0)=777777
LAW 17777
IOF /PI OFF

HANGFR, CLON
UNCLOC, CLSF
KINT, JMP .-1
ION /PI ON
SKP
IRET3, DZM ITAB /CLEAR ERROR TABLE
CLOF /CLEAR CLOCK FLAG
IOF /PI OFF
LAC 0 /ERROR TABLE NOT 0
SAD Istor
SKP
E1550, HALT /ERROR; (0) NOT IRET3+1

                                /TEST PI; IOF, ION, IOF
LAC IRET4
DAC 1 /(1)=RJMP E1551
CLA
DAC 0 /(0)=0
LAW 17777
DAC 7
IOF /PI OFF
CLON
CLSF /CLOCK FLAG
JMP .-1
ION /PI ON
IOF /PI OFF
SKP
E1551, HALT /ERROR; PI OCCURED IOF FAILED
CLOF /CLEAR CLOCK FLAG
LAC 0
SZA
E1552, HALT /ERROR; RJMP STORED ON ION, IOF
/(0) NOT 0

```

/TEST PI; ION, TLS, IOF

E1553,	LAC ITAB1	
	SZA	
	HALT	/ERROR; ERROR TABLE NOT 0
	LAC IRFT6	
	DAC 1	/RJMP IRET7
	CLA	
	DAC 0	/(0)=0
	LAC K7XX2	
	DAC ITAB1	/STORE 700002 IN ERROR TABLE
	LAW 17777	
	DAC 7	
	CLON	
	CLSF	/CLOCK FLAG ON
	JMP .-1	
NOIN,	ION	
	ION	
	ION	
	NOP	
	IOF	/PI OFF
	CLOF	/CLOCK FLAG OFF
	SKP	
IRET7,	DZM ITAB1	/CLEAR ERROR TABLE
	LAC 0	
	SAD NOINX	
	SKP	
E1554,	HALT	/ERROR; (0) NOT NOIN+1
		/TEST PI (ION, LAW, IOF)
	IOF	
	LAC ITAB2	
	SZA	
E1555,	HALT	/ERROR; ERROR TABLE NOT 0
	LAC K76X2	
	DAC ITAB2	/STORE 760002 IN ERROR TABLE
	LAC IRET8	
	DAC 1	/RJMP IRET9
	CLA	
	DAC 0	/(0)=0
	LAW 17777	
	DAC 7	/CLOCK FLAG ON
	CLON	
	CLSF	
	JMP .-1	
	ION	/PI ON
	LAW 17777	/AC=77777
	CLOF	/CLOCK FLAG OFF
	IOF	/PI OFF
	SKP	
IRET9,	DZM ITAB2	/CLEAR ERROR TABLE
	CMA	
	SZA	
E1556,	HALT	/ERROR; ION, LAW FAILED ON PI
		/AC NOT 77777
	LAC 0	
	SAD ISTORE2	
	SKP	
E1557,	HALT	/ERROR; (0) NOT IRET9-3

	IOF	/TEST PI, ION, JMS, IOF
	LAC ITAB3	
	SZA	
E1558,	HALT	/ERROR; ERROR TABLE NOT 0
	LAC ERIJMS	
	DAC 11	/RJMP TO E1558 (ERROR)
	LAC IRET10	
	DAC 1	/RJMP IRET11
	CLA	
	DAC 0	/(0) = 0
	LAC K1XX2	
	DAC ITAB3	/STORE 100002 IN ERROR TABLE
	LAW 17777	
	DAC 7	
	CLON	/CLOCK ON
	CLSF	
	JMP .-1	
	ION	/PI ON
	JMS 10	
E1559,	HALT	/ERROR; PI FAILED TO OCCUR, ON JMS 10
IRET11,	DZM ITAB3	/CLEAR ERROR TABLE
	IOF	/PI OFF
	CLOF	/CLOCK OFF
	LAC 0	
	SAD K11	
	SKP	
E1560,	HALT	/ERROR; (0) NOT 11
	LAC 10	
	SAD Istor3	
	SKP	
E1560A,	HALT	/ERROR; JMS RJMP NOT E1559
		/TEST PI, (ISZ)
	LAW 17777	
	DAC 7	
	DAC 20	
	CLA	
	DAC 0	/(0)=0
	LAC IRET12	
	DAC 1	/RJMP IRET13
	CLON	/CLOCK FLAG ON
	CLSF	
	JMP .-1	
	ION	/PI ON
	ISZ 20	
	NOP	
E1561,	HALT	/ERROR; PI FAILED, ISZ SKIPPED
IRET13,	LAC 20	
	SZA	
E1562,	HALT	/ERROR; (20) NOT 0 ISZ FAILED
	CLOF	
	IOF	
	LAC 0	
	SAD Istor4	
	SKP	
E1563,	HALT	/ERROR; (0) NOT E1561

	LAC ITAB4	/TEST PI (JMP I)
	SZA	
E1564,	HALT	/ERROR; ERROR TABLE NOT 0
		/PI FAILED
	LAC K6X42	
	DAC ITAB4	/STORE 604002 IN TABLE
	CLA	
	DAC 0	/(0)=0
	LAC IRET14	
	DAC 1	/RJMP TO CLEAR ERROR TABLE
	LAC K1	
	DAC IIADR	/INDIRECT ADDRESS
	IOF	/PI OFF
	LAW 17777	
	DAC 7	
	CLON	
	CLSF	
	JMP .-1	/CLOCK ON
	ION	/PI ON
	JMP I IIADR	
	SKP	
IRET15,	DZM ITAB4	/CLEAR ERROR TABLE
	IOF	
	CLOF	/CLOCK OFF
	LAC 0	
	SAD K1	
	SKP	
E1565,	HALT	/ERROR; (0) NOT 1 (JMP I) PI





```

                                /TEST IOT 3344(DBR), L=1
                                /L=1
                                /DBR
E1569,  CLL:CML
                                /ERROR, IOT 3344 (DBR), LINK NOT 1
                                /TEST IOT 3344 (DBR), L=0
                                /DBR
                                /ERROR; IOT 3344 (DBR), LINK NOT 1
E1570,  CLL:CLA
                                /TEST IOT 3344 (DBR), L=1
                                /L=1
                                /DBR
                                /ERROR; IOT 3344(DBR), LINK NOT 0
E1571,  CLL:CML:CLA
                                /TEST IOT 3344 (DBR), L=1
                                /L=1
                                /DBR
                                /ERROR; IOT 3344(DBR), LINK NOT 0
                                /JMP TO BEGIN
                                /JMP TO BEGIN
DBRX,   0
                                /LEAVE LINK ALONE
                                703344
                                /DBR
                                JMP I DBRX
DBRXX,  0
                                /SET LINK TO A ONE
                                LAC DBRXX
                                TAD K400K
                                DAC DBRXX
                                703344
                                /DBR
                                JMP I DBRXX
DBRXXX, 0
                                /CLEAR LINK
                                LAC DBRXXX
                                AND M400K
                                DAC DBRXXX
                                703344
                                /DBR
                                JMP I DBRXXX
START

```

## /PDP-9 END TAPE PART 2

## /CONSTANTS

```

NOP1=NOP
NOP2=NOP
NOP3=NOP
HALT=HL T
K0,      0
K400K,   400000
K200K,   200000
K100K,   100000
K40K,    40000
K20K,    20000
K10K,    10000
K4K,     4000
K2K,     2000
K1K,     1000
K400,    400
K200,    200
K100,    100
K40,     40
K14K,    14000
K12K,    12000
K11K,    11000
K10400,  10400
K10200,  10200
K10100,  10100
K10040,  10040
K20,     20
K10,     10
K4,      4
K2,      2
K1,      1
K1S,    111111
K2S,    222222
K3S,    333333
K4S,    444444
K5S,    555555
K6S,    666666
K7S,    777777
M400K,  377777
M200K,  577777
M100K,  677777
M40K,   737777
M20K,   757777
M10K,   767777
M4K,    773777
M2K,    775777
M1K,    776777
M400,   777377
M200,   777577
M100,   777677
M40,    777737
M20,    777757
M10,    777767
M4,     777773
M2,     777775
M1,     777776
M400KM, 377776

```

1200KM.	577776
1100KM.	677776
140KM.	737776
120KM.	757776
110KM.	767776
14KM.	773776
K5252.	5252
K2525.	2525
12KM.	775776
11KM.	776776
1400M.	777376
1200M.	777576
1100M.	777676
140M.	777736
120M.	777756
110M.	777766
14M.	777772
12M.	777774
11M.	777775
K3.	3
K7.	7
K17.	17
K37.	37
K77.	77
K177.	177
K377.	377
K777.	777
K1777.	1777
K3777.	3777
K7777.	7777
K17777.	17777
K37777.	37777
K77777.	77777
1600K.	177777
13.	777774
17.	777770
117.	777760
137.	777740
177.	777700
1177.	777600
1377.	777400
1777.	777000
11777.	776000
13777.	774000
17777.	770000
117777.	760000
137777.	740000
177777.	700000
K600K.	600000
K777K.	777000
K5.	5
K11.	11
K21.	21
K10041.	10041
K10101.	10101
K10201.	10201
K10401.	10401
K11001.	11001

<12001.	12001
<14001.	14001
<10001.	10001
KHALT.	740040
KCAL0.	17760
K2021.	2021
K2120.	2120
KCALF.	417760
KSKP.	SKP
KCLA.	CLA
K60K.	60000
K725.	725253
K715.	715253
KJS1.	JS1+1
KJS2.	JS2+1
KJS3.	JS3+1
KJS4.	JS4+1
K15252.	15252
K15253.	15253
K12.	12
K7XX2.	700002
K76X2.	760002
K1XX2.	100002
K6X42.	604002
K344X2.	344002
K7X42.	700042

K14000.	14000
K4000.	4000
K16000.	16000
K17400.	17400
K17600.	17600
K17577.	17577
K17700.	17700
K75.	75
K17677.	17677
K17740.	17740
K65.	65
K17760.	17760
K55.	55
K17770.	17770
K45.	45
K17767.	17767
K35.	35
K25.	25
K15.	15
K7776.	7776
K13777.	13777
K15777.	15777
K16777.	16777
K17377.	17377
K17737.	17737
K17757.	17757
K17773.	17773
K17774.	17774
K17775.	17775
K17776.	17776
K17000.	17000
K426.	412526
K415.	415253
K2001.	200001

/INIT4K ERROR TABLE ADDRESS  
/JMP22 (EX)

JMPRFT. 0

## /JMP ERROR TABLE

J0,	0	/JMP 0 (E1305)
J1,	0	/JMP 1 (E1306)
J2,	0	/JMP 2 (E1307)
J4,	0	/JMP 4 (E1308)
J10,	0	/JMP 10 (E1309)
J20,	0	/JMP 20 (E1310)
J40,	0	/JMP 10040 (E1311)
J100,	0	/JMP 10100 (E1312)
J200,	0	/JMP 10200 (E1313)
J400,	0	/JMP 10400 (E1314)
J1K,	0	/JMP 11000 (E1315)
J2K,	0	/JMP 12000 (E1316)
J4K,	0	/JMP 14000 (E1317)
J10K,	0	/JMP 10000 (E1318)
JM10K,	0	/JMP 7777 (E1319)
JM4K,	0	/JMP 13777 (E1320)
JM2K,	0	/JMP 15777 (E1321)
JM1K,	0	/JMP 16777 (E1322)
JM400,	0	/JMP 17377 (E1323)
JM200,	0	/JMP 17577 (E1324)
JM100,	0	/JMP 17677 (E1325)
JM40,	0	/JMP 17737 (E1326)
JM20,	0	/JMP 17757 (E1327)
JM10,	0	/JMP 17767 (E1328)
JM4,	0	/JMP 17773 (E1329)
JM2,	0	/JMP 17775 (E1330)
JM1,	0	/JMP 17776 (E1331)
JM0,	0	/JMP 17777 (E1332)
J12525,	0	/JMP 12525 (E1333)
J15252,	0	/JMP 15252 (E1334)

JC0.	0	/JMP FROM 0 TO 17777; CODE=K7777 (E1335)
JC1.	0	/JMP FROM 1 TO 17776; CODE=K1 (E1336)
JC2.	0	/JMP FROM 2 TO 17775; CODE=K2 (E1337)
JC4.	0	/JMP FROM 4 TO 17773; CODE=K4 (E1338)
JC10.	0	/JMP FROM 10 TO 17767; CODE=K10 (E1339)
JC20.	0	/JMP FROM 20 TO 17757; CODE=K20 (E1340)
JC40.	0	/JMP FROM 10040 TO 17737; CODE=K40 (E1341)
JC100.	0	/JMP FROM 10100 TO 17677; CODE=K100 (E1342)
JC200.	0	/JMP FROM 10200 TO 17577; CODE=K200 (E1343)
JC400.	0	/JMP FROM 10400 TO 17377; CODE=K400 (E1344)
JC1K.	0	/JMP FROM 11K TO 16777; CODE=K1K (E1345)
JC2K.	0	/JMP FROM 12K TO 15777; CODE=K2K (E1346)
JC4K.	0	/JMP FROM 14K TO 13777; CODE=K4K (E1347)
JC10K.	0	/JMP FROM 10K TO 7777; CODE=K10K (E1348)
JCM0.	0	/JMP FROM 17777 TO 0, CODE=K777K (E1349)
JCM1.	0	/JMP FROM 17776 TO 1, CODE=M1 (E1350)
JCM2.	0	/JMP FROM 17775 TO 2; CODE=M2 (E1351)
JCM4.	0	/JMP FROM 17773 TO 4; CODE=M4 (E1352)
JCM10.	0	/JMP FROM 17767 TO 10; CODE=M10 (E1353)
JCM20.	0	/JMP FROM 17757 TO 20; CODE=M20 (E1354)
JCM40.	0	/JMP FROM 17737 TO 10040; CODE=M40 (E1355)
JCM100.	0	/JMP FROM 17677 TO 10100; CODE=M100 (E1356)
JCM200.	0	/JMP FROM 17577 TO 10200; CODE=M200 (E1357)
JCM400.	0	/JMP FROM 17377 TO 10400; CODE=M400 (E1358)
JCM1K.	0	/JMP FROM 16777 TO 11000; CODE=M1K (E1359)
JCM2K.	0	/JMP FROM 15777 TO 12000; CODE=M2K (E1360)
JCM4K.	0	/JMP FROM 13777 TO 14000; CODE=M4K (E1361)
JCM10K.	0	/JMP FROM 7777 TO 10000; CODE=M10K (E1362)
CAL0.	0	/CAL FROM 17757 EXT=0, L=0 (E1363)
CAL1.	0	/CAL FROM 17757 L=1 (E1364)

## /JMS ERROR TABLE

JSM0.	0	/JMS FROM 0 TO 17775 (E1367)
JSM1.	0	/JMS FROM 1 TO 17774 (E1369)
JSM2.	0	/JMS FROM 2 TO 17773 (E1371)
JSM4.	0	/JMS FROM 4 TO 17771 (E1373)
JSM10.	0	/JMS FROM 10 TO 17765 (E1375)
JSM20.	0	/JMS FROM 20 TO 17755 (E1377)
JSM40.	0	/JMS FROM 10040 TO 17735 (E1379)
JSM100.	0	/JMS FROM 10100 TO 17675 (E1381)
JSM200.	0	/JMS FROM 10200 TO 17575 (E1383)
JSM400.	0	/JMS FROM 10400 TO 17375 (E1385)
JSM1K.	0	/JMS FROM 11000 TO 16775 (E1387)
JSM2K.	0	/JMS FROM 12000 TO 15775 (E1389)
JSM4K.	0	/JMS FROM 14000 TO 13775 (E1391)
JSM10K.	0	/JMS FROM 10000 TO 17775 (E1393)



JS252,	0	/JMS FROM 12525 TO 15252 (E1395)
JS525,	0	/JMS FROM 15252 TO 12525 (E1397)
JSSS,	0	/JMS SERIES (E1399)
XCT0,	0	/XCT-JMS; FROM 0 XCT(17777) (E1421)
XCT1,	0	/XCT-JMS; FROM 1 XCT(17776) (E1423)
XCT2,	0	/XCT-JMS; FROM 2 XCT(17775) (E1425)
XCT4,	0	/XCT-JMS; FROM 4 XCT(17773) (E1427)
XCT10,	0	/XCT-JMS; FROM 10 XCT(17767) (E1429)
XCT20,	0	/XCT-JMS; FROM 20 XCT(17757) (E1431)
XCT40,	0	/XCT-JMS; FROM 10040 XCT(17737) (E1433)
XCT100,	0	/XCT-JMS; FROM 10100 XCT(17677) (E1435)
XCT200,	0	/XCT-JMS; FROM 10200 XCT(17577) (E1437)
XCT400,	0	/XCT-JMS; FROM 10400 XCT(17377) (E1439)
XCT1K,	0	/XCT-JMS; FROM 11000 XCT(16777) (E1441)
XCT2K,	0	/XCT-JMS; FROM 12000 XCT(15777) (E1443)
XCT4K,	0	/XCT-JMS; FROM 14000 XCT(13777) (E1445)
XCT10K,	0	/XCT-JMS; FROM 10000 XCT(7777) (E1447)
XCT125,	0	/XCT-XCT; FROM 15252 XCT(12525) (E1449)

## /JMS I ERROR TABLE

JMST1,	0	/JMS I 1 (E1467)
JMST2,	0	/JMS I 2 (E1469)
JMST4,	0	/JMS I 4 (E1471)
JMST10,	0	/JMS I 10010 (E1472A)
JMST20,	0	/JMS I 20 (E1473)
JMST40,	0	/JMS I 10040 (E1475)
JMST100,	0	/JMS I 10100 (E1477)
JMST200,	0	/JMS I 10200 (E1479)
JMST400,	0	/JMS I 10400 (E1481)
JMST1K,	0	/JMS I 11000 (E1483)
JMST2K,	0	/JMS I 12000 (E1485)
JMST4K,	0	/JMS I 14000 (E1487)
JMST1X,	0	/JMS I 10000 (E1489)

## /AUTO-INDEX ERROR TABLE

AUTJMP,	0	/JMP I 12 (AUTO-INDEX) (E1521)
AUTJMS,	0	/JMP I 17 (AUTO-INDEX) (E1534)

## /PI ERROR TABLE

ITAB,	0	/700042 (ION) (E1548)
ITAB1,	0	/700002 (ION, TLS, IOF) (E1553)
ITAB2,	0	/760002 (ION, LAW, IOF) (E1555)
ITAB3,	0	/100002 (ION, JMS, IOF) (E1558)
ITAB4,	0	/604002 (ION, JMPI, IOT) (E1564)
ITAB5,	0	/344002 (ION, TAD I 10, IOF) (E1565A)

JMP22,	JMP 22
RJA,	JMP RJMP0
RJ1,	JMP RJMP1
RJ2,	JMP RJMP2
RJ3,	JMP RJMP3
RJ4,	JMP RJMP4
RJ5,	JMP RJMP5
RJ6,	JMP RJMP6
RJ7,	JMP RJMP7
RJ8,	JMP RJMP8
RJ9,	JMP RJMP9
RJ10.	JMP RJMP10
RJ11.	JMP RJMP11
RJ12.	JMP RJMP12
RJ13.	JMP RJMP13
RJ14.	JMP RJMP14
RJ15.	JMP RJMP15
RJ16.	JMP RJMP16
RJ17.	JMP RJMP17
RJ18.	JMP RJMP18
RJ19.	JMP RJMP19
RJ20.	JMP RJMP20
RJ21.	JMP RJMP21
RJ22.	JMP RJMP22
RJ23.	JMP RJMP23
RJ24.	JMP RJMP24
RJ25.	JMP RJMP25
RJ26.	JMP RJMP26
RJ27.	JMP RJMP27
RJ28.	JMP RJMP28
RJ29.	JMP RJMP29
RJ0C.	JMP RJC0
RJ0CX,	JMP 17777

RJ1C.	JMP RJC1
RJ1CX.	JMP 17776
RJ2C.	JMP RJC2
RJ2CX.	JMP 17775
RJ3C.	JMP RJC3
RJ3CX.	JMP 17773
RJ4C.	JMP RJC4
RJ4CX.	JMP 17767
RJ5C.	JMP RJC5
RJ5CX.	JMP 17757
RJ6C.	JMP RJC6
RJ6CX.	JMP 17737
RJ7C.	JMP RJC7
RJ7CX.	JMP 17677
RJ8C.	JMP RJC8
RJ8CX.	JMP 17577
RJ9C.	JMP RJC9
RJ9CX.	JMP 17377
RJ10C.	JMP RJC10
RJ10CX.	JMP 16777
RJ11C.	JMP RJC11
RJ11CX.	JMP 15777
RJ12C.	JMP RJC12
RJ12CX.	JMP 13777
RJ13C.	JMP RJC13
RJ13CX.	JMP 7777
RJ14C.	JMP RJC14
RJ14CX.	JMP 0
RJ15C.	JMP RJC15
RJ15CX.	JMP 1
RJ16C.	JMP RJC16
RJ16CX.	JMP 2
RJ17C.	JMP RJC17
RJ17CX.	JMP 4
RJ18C.	JMP RJC18
RJ18CX.	JMP 10
RJ19C.	JMP RJC19
RJ19CX.	JMP 20
RJ20C.	JMP RJC20
RJ20CX.	JMP 10040
RJ21C.	JMP RJC21
RJ21CX.	JMP 10100
RJ22C.	JMP RJC22
RJ22CX.	JMP 10200
RJ23C.	JMP RJC23
RJ23CX.	JMP 10400
RJ24C.	JMP RJC24
RJ24CX.	JMP 11000
RJ25C.	JMP RJC25
RJ25CX.	JMP 12000
RJ26C.	JMP RJC26
RJ26CX.	JMP 14000
RJ27C.	JMP RJC27
RJ27CX.	JMP 10000

```

RJSM0,      JMP RJMS0
RSM0.       JMS 17775
RJSM1,      JMP RJMS1
RSM1.       JMS 17774
RJSM2,      JMP RJMS2
RSM2.       JMS 17773
RJSM3,      JMP RJMS3
RSM3.       JMS 17771
RJSM4,      JMP RJMS4
RSM4.       JMS 17765
RJSM5,      JMP RJMS5
RSM5.       JMS 17755
RJSM6,      JMP RJMS6
RSM6.       JMS 17735
RJSM7,      JMP RJMS7
RSM7.       JMS 17675
RJSM8,      JMP RJMS8
RSM8.       JMS 17575
RJSM9,      JMP RJMS9
RSM9.       JMS 17375
RJSM10,     JMP RJMS10
RSM10.      JMS 16775
RJSM11,     JMP RJMS11
RSM11.      JMS 15775
RJSM12,     JMP RJMS12
RSM12.      JMS 13775
RJSM13,     JMP RJMS13
RSM13.      JMS 17775
RJSM25,     JMP RJMS14
RSM25.      JMS 15252
RJSM52,     JMP RJMS15
RSM52.      JMS 12525
RCAL0,      JMP RCALS0
RCAL1,      JMP RCALS1

```

```

XCT0S,      XCT 17777
XCTR0,      JMS 0
XCT0R,      JMP RXCT0

```

```

/STORED AT 0
/STORED AT 17777
/RJMP TO TEST

```

```

XCT1S,      XCT 17776
XCTR1,      JMS 1
XCT1R,      JMP RXCT1

```

```

/STORED AT 1
/STORED AT 17776
/RJMP TO TEST

```

```

XCT2S,      XCT 17775
XCTR2,      JMS 2
XCT2R,      JMP RXCT2

```

```

/STORED AT 2
/STORED AT 17775
/RJMP TO TEST

```

XCT4S,	XCT 17773	/STORED AT 4
XCTR4,	JMS 4	/STORED AT 17773
XCT3R,	JMP RXCT3	/RJMP TO TEST
XCT10S,	XCT 17767	/STORED AT 10
XCTR10,	JMS 10	/STORED AT 17767
XCT4R,	JMP RXCT4	/RJMP TO TEST
XCT20S,	XCT 17757	/STORED AT 20
XCTR20,	JMS 20	/STORED AT 17757
XCT5R,	JMP RXCT5	/RJMP TO TEST
XCT40S,	XCT 17737	/STORED AT 10040
XCTR40,	JMS 10040	/STORED AT 17737
XCT6R,	JMP RXCT6	/RJMP TO TEST
XCT1CS,	XCT 17677	/STORED AT 10100
XCTR1C,	JMS 10100	/STORED AT 17677
XCT7R,	JMP RXCT7	/RJMP TO TEST
XCT2CS,	XCT 17577	/STORED AT 10200
XCTR2C,	JMS 10200	/STORED AT 17577
XCT8R,	JMP RXCT8	/RJMP TO TEST
XCT4CS,	XCT 17377	/STORED AT 10400
XCTR4C,	JMS 10400	/STORED AT 17377
XCT9R,	JMP RXCT9	/RJMP TO TEST
XCT1KS,	XCT 16777	/STORED AT 11000
XCTR1K,	JMS 11000	/STORED AT 16777
XCT10R,	JMP RXCT10	/RJMP TO TEST
XCT2KS,	XCT 15777	/STORED AT 12000
XCTR2K,	JMS 12000	/STORED AT 15777
XCT11R,	JMP RXCT11	/RJMP TO TEST
XCT4KS,	XCT 13777	/STORED AT 14000
XCTR4K,	JMS 14000	/STORED AT 13777
XCT12R,	JMP RXCT12	/RJMP TO TEST
XCT1XS,	XCT 7777	/STORED AT 10000
XCTR1X,	JMS 10000	/STORED AT 7777
XCT13R,	JMP RXCT13	/RJMP TO TEST
XCT12S,	XCT 12525	/STORED AT 15252
XCTR12,	JMS 15252	/STORED AT 12525
XCT14R,	JMP RXCT14	/RJMP TO TEST

JMSI1.	JMS I 1
JMSI2.	JMS I 2
JMSI4.	JMS I 4
JMSI10.	JMS I 10010
JMSI20.	JMS I 20
JMSI40.	JMS I 10040
JMSI1C.	JMS I 10100
JMSI2C.	JMS I 10200
JMSI4C.	JMS I 10400
JMSI1K.	JMS I 11000
JMSI2K.	JMS I 12000
JMSI4K.	JMS I 14000
JMSI1X.	JMS I 10000

JMPAUT.	JMP I 12
JMSAUT.	JMS I 17

IRET.	JMP E1549
IRET2.	JMP IRET3
IRET4.	JMP E1551
IRET6.	JMP IRET7
IRET8.	JMP IRET9
IRET10.	JMP IRET11
IRET12.	JMP IRET13
IRET14.	JMP IRET15
IRET16.	JMP IRET17
RJMI1.	JMP RJSI1
RJMI2.	JMP RJSI2
RJMI3.	JMP RJSI3
RJM13A.	JMP RJS13A
RJMI4.	JMP RJSI4
RJMI5.	JMP RJSI5
RJMI6.	JMP RJSI6
RJMI7.	JMP RJSI7
RJMI8.	JMP RJSI8
RJMI9.	JMP RJSI9
RJMI10.	JMP RJSI10
RJMI11.	JMP RJSI11
RJMI12.	JMP RJSI12
ISTOR.	IRET3+1
ISTOR2.	IRET9-3
ISTOR3.	E1559
ISTOR4.	E1561
ISTOR5.	IRET17-1

XCTDAC,	DAC 17777
XCTDZM,	DZM 12525
XCTISZ,	ISZ 17777
XCTTAD,	TAD K1
XCTRAL,	RAL
AUTRFT,	JMP AUTR
AUTCMA,	CMA
AUTRJM,	JMP AUTRE1
AURJMP,	AUTRE1-1
ANDI,	AND I 17776
LAWAUT,	XCT I 15
LAWFUL,	LAW 17777
ERIJMS,	JMP E1558
IIADR,	Ø
TCLK,	Ø
CNTX,	777777
BELL,	Ø2Ø7
MOD,	JMP MODX+1
AUTNOT,	Ø
RJCNT,	Ø
RJSI1X,	RJSI1-1
NOINX,	NOIN+4

START

ANDI	7274
AURJMP	7273
AUTCMA	7271
AUTJMP	6733
AUTJMS	6734
AUTNOT	7305
AUTR	5452
AUTRFT	7270
AUTRF1	5561
AUTRJM	7272
BELL	7303
CAL0	6654
CAL1	6655
CLOCK	5676
CNTX	7302
DBRX	6270
DBRXX	6273
DBRXXX	6301
ERIJMS	7277
EX	1676
LXX	1716
E1106	26
E1107	33
E1108	40
E1109	45
E1110	52
E1111	57
E1112	64
E1113	71
E1114	76
E1115	103
E1116	110
E1117	115
E1118	122
E1119	127
E1120	134
E1121	141
E1122	146
E1123	153
E1124	160
E1125	165
E1126	172
E1127	177
E1128	204
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E1203	765
E1204	771

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E1265 1400  
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 E1392 3441  
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 E1394 3461  
 E1395 3464  
 E1396 3501  
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