## IDENTIFICATION

PRODUCT CODE:

MAINDEC-8/E-DØAB

PRODUCT NAME:

PDP-8/E INSTRUCTION TEST 1

DATE CREATED!

MAY 10, 1971

MAINTAINER:

DIAGNOSTIC GROUP

AUTHOR:

ED FORTMILLER



```
1.
            ABSTRACT
            THIS IS A CIAGNOSTIC PROGRAM FOR TESTING THE AND, TAD,
            OPERATE, AND BASIC MQ, INSTRUCTIONS OF THE PDP-8/E ONLY.
    2.
            REQUIREMENTS
            ------
   2.1
            EQUIPMENT
            A PDP-8/E EQUIPPED WITH TELETYPE.
   2.2
           STORAGE
           THIS PROGRAM USES LOCATIONS 0000-5314. THE BINARY LOADER MUST
           BE STORED IN THE LAST MEMORY PAGE.
   2.3
           PRELIMINARY PROGRAMS
  3.
           LOADING PROCEDURE
  3.1
           METHOD
           THE STANDARD BINARY LOADER IS USED.
  4.
          STARTING PROCEDURE
4,1
          CONTROL SWITCH SETTINGS
```

SR=7777

0200

STARTING ADDRESS

OPERATOR ACTION

1. SET SR TO 200 AND PRESS LOAD ADDRESS.

3. PROGRAM WILL HALT. MA=147

AN ERROR IS ENCOUNTERED.

2. SET SR TO 7777 AND PUSH CLEAR AND CONTINUE

4. IF AC IS NOT EQUAL TO 0000 AN ERROR HAS OCCURRED.

5. PUSH CONTINUE, PROGRAM WILL RUN UNTIL STOPPED OR UNTIL

4.2

4.3

OPERATING PROCEDURE 5. SAME AS SECTION 4. 6, ERRORS ----ERROR HALIS AND DESCRIPTION 6.1 SEE LISTING. 6,2 ERROR RECOVERY IF IT IS DESIRED TO LOOP ON THE TEST CAUSING THE ERROR, REPLACE THE OPERATE INSTRUCTION(S) PRECEDING THE HLT WITH A JMP TO THE BEGINNING OF THE TEST. RESTRICTIONS 7. 7.1 STARTING RESTRICTIONS: NONE 7,2 OPERATING RESTRICTIONS! NONE 8. MISCELLANEOUS

THE TELETYPE BELL RINGS AT THE END OF 1448 PROGRAM PASSES

WHICH IS APPROXIMATELY EVERY 5 SECONDS.

EXECUTION TIME

8,1

## 9. PROGRAM DESCRIPTION

THE PROGRAM CONSISTS OF MANY INDIVIDUAL TESTS. IN MOST CASES EACH TEST CHECKS ONLY ONE FUNCTION AND USES PREVIOUSLY TESTED FUNCTIONS AS A BASIS FOR THE TEST. THE PROGRAM COUNTER ACTION IS STRICTLY SEQUENTIAL EXCEPT FOR SKIPS. THE ONLY JMP INSTRUCTIONS USED ARE AT THE BEGINNING AND END OF THE PROGRAM. THE SEQUENCE OF TESTING IS AS FOLLOWS:

- 1. TEST ALL OPERATE FUNCTIONS INDIVIDUALLY EXCEPT FOR ROTATES,
- 2. TEST "TAD" INSTRUCTION.
- 3. TEST ROTATE FUNCTIONS.
- 4. TEST "BSW" INSTRUCTION.
- 5. GROUP 1 OPERATE INSTRUCTION TEST. ALL POSSIBLE COMBINATIONS.
- 6. GROUP 2 OPERATE INSTRUCTION TEST. ALL POSSIBLE COMBINATIONS.
- 7. MG INSTRUCTION TEST. ALL POSSIBLE COMBINATIONS.
- 8. TEST "AND" INSTRUCTION.

THE TELETYPE BELL RINGS APPROXIMATELY EVERY 5 SECONDS.

18. LISTING

0093 7775

K7775, 7775

```
/PDP-8/E INSTRUCTION TEST 1 MAINDEC-8E-DØAB
              /COPYRIGHT 1970, 1971, DIGITAL EQUIPMENT CORP., MAYNARD, MASS. Ø1754
               /TAPE 1
       7002
              85W=7002
                                              /SWAP BYTES IN AC
       7461
              NOPE=7401
                                              /NOP
       7601
              CLAE=7601
                                              /CLEAR AC
       7421
              MQL=7421
                                             /LOAD MG FROM AC THEN CLEAR AC
      7501
              MQA=75Ø1
                                            /INCLUSIVE OR, MG AND AC
      7621
              CAM=7621
                                            /CLEAR AC AND MQ
      7521
              SWP=7521
                                            /SWAP AC AND MO
      7701
              ACL=7701
                                            /LOAD AC FROM MQ, CLEAR MQ
      0000
              #Ø
0000 0000
0001 5001
                      JMP 1
0002 0002
                      0002
0003 0003
                      0003
0004 8000
0005 0000
                      9999
8086 7482
              HALT.
                      HLT
0007 7000
              NOOP.
                      NOP
0010 0000
                      /CONSTANTS AND VARIABLES
      9020
              +20
0020 0000
              KØØØØ,
                      8888
0021 0001
              K0001, 0001
0022 0002
              K0002, 0002
0023 0003
              K3.
                      3
0024
     0004
              K0084, 8084
0025 0006
              K6.
9026 9010
              K0010, 0010
0027
      9014
              K14.
                      14
8838 8828
              K0020, 0020
0031
      8038
              K30,
                      30
              KØØ4Ø, ØØ4Ø
0032 0040
0033 0060
              K60,
                      60
0034 0100
              KØ100,
                      6166
0035 0140
              K148.
                      140
0036 0200
              KØ2ØØ, Ø2ØØ
      0300
                      300
0037
              K300,
0040
      0400
              KØ4ØØ,
                      0460
     8680
0041
              K600,
                      600
0042
     1000
              K1000, 1000
0043
      1234
             K1234, 1234
     1400
0044
              K1400, 1400
0045
     2000
              K2000, 2000
     3000
0046
              K3000,
                     3000
0047
     3312
              K3312, 3312
0050
     4000
             K4000. 4000
0051
     7717
              K7717, 7717
0052
     7776
              K7776,
                     7776
```

```
/PDP-8/E INSTRUCTION TEST 1 MAINDEC-8E-DØAB
                                                PAL10
                                                         V141
                                                                 9-JUN-71
                                                                                 16:26
                                                                                         PAGE 1-1
          0054 7773
                        K7773. 7773
          0055
               7767
                        K7767,
                               7767
          0056
               7757
                        K7757,
                               7757
          0057
                7737
                        K7737,
                               7737
          0060
               7177
                        K7177. 7177
          0061
               7677
                        K7677, 7677
          0062
               7577
                        K7577,
                               7577
          0063
               7377
                        K7377,
                               7377
               6777
          0064
                        K6777,
                                6777
               5777
          0065
                        K5777,
                               5777
          0066
               3777
                        K3777,
                                3777
          0067
               7777
                        K7777.
                                7777
         0070
               5252
                        K5252,
                                5252
               2525
         0071
                        K2525.
                                2525
               4000
         0072
                        K6000.
                                6000
         0073
               7980
                        K7000.
                                7000
         0074
               7488
                        K7486,
                               7400
         ØØ75
               7680
                        K7688.
                               7600
         8876
               7740
                        K7748,
                               7740
         0077
               7760
                        K7768,
                               7760
               7770
         0100
                       K7778. 7778
              7774
         0181
                        K7774,
                               7774
         Ø1Ø2
               9997
                       KØØØ7,
                               0007
         0103
               8867
                       KØØ67,
                               8867
         8184
               9917
                       K8817, 8817
         0185
               #037
                       K8837, 8837
         Ø186
               8077
                       KØØ77, ØØ77
         0187
               9177
                       KØ177,
                               6177
         0110
               #377
                       KØ377, Ø377
                       K8777, 8777
         8111
               8777
         Ø112
               1777
                       K1777, 1777
         6113
               7788
                       K7788,
                              7788
         0114
               3225
                       K5225, 5225
         9115 2552
                       K2552, 2552
         Ø116 Ø77Ø
                       KØ770,
                              0779
         Ø117
              7087
                       K7087,
                               7007
         Ø12Ø Ø207
                       BEL.
                               8287
         0121 5140
                       BLCNT, -2648
         8122 5148
                       BLCON,
                              -2648
               0144
                       *144
                       /TAD, CLA, HLT, TEST
        0144
              1067
                       START, TAD K7777
        8145
             7288
                               CLA
        Ø146 7402
                               HLT
                                               /AC SHOULD=#
                                               /SET SR TO 7777, CONTINUE
                       /SKIP TEST
        0147
              7410
                               SKP
        0150
              7482
                               HLT
                                               /SKP FAILED
                       /SZA TEST 1
        0151 7200
                               CLA
```

)

•

/POP-8/E	INSTR	UCTION	TEST 1	MAINDEC-8E-DØAB	PAL10	V141	9-JUN-71	16:26	PAGE 1-2
	0152	7440		SZA					
	0153	7402		HLT	/SZA SH	OULD HAV	E SKIPPED		
	0154	7450		SNA	7 7 3 3 7 0	OLD EGON	L ECHO		
	0155			SKP					
	0156	7402		HLT	ISNA SH	OULD NOT	HAVE SKIPPED		
				7.4	74C SHO	ULD EQUAL	HAVE SKIPPED		
			/SZA T	EST 2	7 7 3110	OFO LOOK	LENU		
	0157	7200		CLA					
	0160	1050		TAD K4000					
	0161	7440		SZA					
	0162	7410		SKP					
	0163	7402		HLT	/SZA SH	OULD NOT ULD EQUAL	HAVE SKIPPED		
	0164	7450		SNA	7110	OFF FROND	. 4000		
		7482		HLT	ISNA SH	AHIA MAVE	SKIPPED		
					/AC SHO	ULD EQUAL	4000		
			/SZA T	EST 3					
	0166	7200		CLÁ					
	Ø167	1045		TAD K2000					
	0170	7440		SZA					
	Ø171	7410		SKP					
	0172	7482		HLT	/SZA SHO	TOM OTHER	HAVE SKIPPED		
				11 <b>.</b> .	/AC SHOL	LD EQUAL	Saga		
	Ø173	7450		SNA	· // • • • • • • • • • • • • • • • • • •	PR FRAUE	FDDD		
	0174	7402		HLT	ISNA SHO	DULD HAVE	SKIPPED		
	0175	7000		NOP	ZAC SHOL	LD EQUAL	2000		
	Ø176	7000		NOP	· //	CO COOKE	2000		
	Ø177	7410		SKP	/SKIP OV	ER JMP S	TART.		
		<b>929</b> 0							
	0200	5144	#2ØØ						
	0200	2144	SEGIN,	JMP START St 4	/BEGINNI	NG OF IN	STRUCTION TEST	1.	
	0201	7200		CLA					
	0202	1042		TAD K1000					
	Ø2 <b>Ø</b> 3	7440		SEA					
	0204	7410		SKP					
	Ø2 <b>Ø</b> 5	7402		HLT	/SŽA SHO /AC SHOU	ULD NOT I	HAVE SKIPPED		
	0206	7450		SNA	7.1.4 01.100	To Facil	1000		
I	0207	7402		HLT	/SNA SHO	ULD HAVE	SKIPPED		
			1074 77	C+ E	/AU SHOU	LD EQUAL	10000		
	0210	7200	/SZA TE						•
	7211	1040		CLA					
	0211	7440		TAD KØ4ØØ					
		7410		SZA					
	0213	7402		SKP	407 - 004				
				HLT	/SEA SHOW	ULD NOT H LD EQUAL	AVE SKIPPED 0400		
	215	7450		SNA					
Q	1216	7402		HLT	/SNA SHOT	ULD HAVE	SKIPPED		
			/SZA TES	ST 6	/AC SHOUL	TO EGUAL	0400		

/PDP-8/E	INSTR	UCTION	TEST 1	MAINDEC-8E-DØAB	PAL10	V141	9-JUN-71	16326	PAGE 1-3
	0217	7200		CLA					
	0220			TAD KØ2ØØ					
		7440		SZA					
		7410							
	0223			SKP	4074 CV				
		,		HLT	/SEA SH	OULD NO!	HAVE SKIPPED		
	0224	7450		CNA	ZAU SHU	ULD EQUA	F 0500		
		7482		SNA	4614 644				
	DEED	, , , , ,		HLT	/SNA SH	OULD HAV	E SKIPPED		
			1621	TEST 7	ZAE SHO	ULD EQUA	L 0200		
	Ø226	7200	/SEA						
		1034		CLA					
	0230			TAD KØ1ØØ					
	Ø231			SZA					
	\$232			SKP					
	DEGE	/ 402		HLT	./SZA SH	OULD NOT	HAVE SKIPPED	1.00	
	<b>4077</b>	9450			/AC SHO	ULD EQUA	L 0100		
		7450		SNA					
	8234	7482		HLT	/SNA SHO	NTD EGNAL	E SKIPPED . 0100		
			/SZA	TEST 8					
	8235			CLA					
	Ø236	1032		TAD KØØ4Ø					
	<b>8237</b>	7440		SZA					
	8248	7410		SKP					
	0241	7482		HLT	/S#4 SHO	TOM R HIL	HAVE SKIPPED		
				· •	/AC SHOU	ILD FOLIAL	MAYE SKIPPED		
	0242	7450		SNA	A SHOU	ואטשם טבו	טרטע.		
	Ø243	7402		HĻŤ	ISNA SHO	THE HAVE	SKIPPED		
					/AC SHOL	ILD ECHAL	anaa		
			/SZA '	TEST 9	7 70 01100	CD COOK	. 0040		
	B244	7200		CLA					
	8245	1838		TAD KØØ2Ø					
	8246	7448		SEA					
	Ø247	7410		SKP					
	0250	7402		HLT	7634 SHU	TOM BUILD	HAVE CHIRDEN		
		· <del>-</del>		17 <b>5</b> 1	AC SHULL	IND ESTA	HAVE SKIPPED		
	Ø251	7450		SNA	/AC SHOU	FR FRAME	9029		
		7482		HLT	ACNA CHA	111 B 4444-	CKIDDEC		
		-		1161	/SNA SHO	OFO HAVE	3K 1 P F E U		
			/SZA T	EST 10	/AC SHOU	FO EROYE	80 C 10		
	0253	728a	, , , ,						
	Ø254	1026		CLA Tad køø1ø					
	Ø255	7440		SSY					
	0256	7410		SKP					
	0257	7402			4074 000				
		, , , , ,		HLT	/SZA SHO	ULD NOT	HAVE SKIPPED		
					/AC SHOU	TD EGNYL	0010		
	0260	7450		SNA					
	0261	7482		HLT	CNA CHE		<b>A</b> 44 <b>0A</b> -5		
				<b></b>	/SNA SHO	ULD HAVE	SKIPPED		
			/SZA T	FCT 44	/AC SHOU	LU EQUAL	0010		
	0262	7200	FJEM						
	0263	1024		CLA					
	- C - D - U	7 m C 7		TAD KØØØ4					

/PDP-8/E	INSTR	RUCTION	TEST :	1 MAIN	DEC-8E-DØAB	PAL10	V141	9-JUN-71	16126	PAGE 1-4
	Ø264	7440		SZ	<b>A</b>					
		7410		SK						
	Ø266			HL		/S74 SH	OULD NOT	HAVE SKIPPED		
						/AC SHO	ULD EQUAL	MAVE SKIPPED		
		7450		SN	A			. 6004		
	0270	7482		HL	7	/SNA SH	DULD HAVE	SKIPPED		
						/AC SHO	JLD EQUAL	. 0004		
			/SZA	TEST :	1 2					
	8271	7200		CL						
,	0272	1022			KØØØ2					
	Ø273	7440		SZ						
	Ø274	7410		SKI						
	Ø275	7402		HL		/SZA SHO	SULD NOT	HAVE SKIPPED		
						/AC SHOL	LD EQUAL	MANG SKIPPED		
	<b>Ø</b> 276	7450		SNA			Th Fact	DDDL		
	<b>8</b> 277	7402		HLT		/SNA SHO	ULO HAVE	SKIPPED		
						/AC SHOU	LD EQUAL	0002		
			407.	T-0- 4	_		_			
	0380	7200	/SEA	TEST 1						
	Ø3 <b>#</b> 1			CLA						
	#3#2	1021 7440			K0001					
	Ø3#3	7419		SEA						
	8384	7482		SKP						
	PUBA	., чы		HLT		/SEA SHO	ULD NOT I	HAVE SKIPPED		
	Ø3 <b>Ø</b> 5	7450		SNA		/AC SHOU	TO EGUAL	0001		
	0386	7402		HLT		/SNA SHO	UI B HAVE	CKIODEO		
		-				/AC SHOU	IN FOLIAL	SKIPPEU		
			/SPA	TEST 1		1 11 0 1100	En FAGNE	DODI		
	<b>838</b> 7	7288		CLA				•		
	0310	1966		TAD	K3777					
	8311	7510		SPA						
	<b>0312</b>	7402		HLT		/SPA SHO	JLD HAVE	SKIPPED		
						/AC SHOUL	D EQUAL	3777		
			/60 4	TEC+ -			_			
	<b>3313</b>	7200	/ OF A	TEST 2						
	314	1050		CLA	VAGRA					
	315	7510			K4000					
	316	7410		SPA						
	317	7402		SKP		/CD . CUA.				
_				'' A F'		AC CHOU	ILD NO! H	AVE SKIPPED		
			/SMA	TEST 1		/AC SHOUL	DEGUAL	4000		
2	320	7200		CLA						
		1066			K3777					
	322	7500		SMA	1 · · ·					
	323	7410		SKP						
		7402		HLT		/SMA SHOU	LD NOT L	AVE SKIPPED		
						/AC SHOUL	D EQUAL	3777		
								-···		
			/6H4 3							
a	325	728 a	/SMA 1							
E.	027	. E . N		CLA						

PDP-8/E	INSTR	UCTION	TEST	1	MAIND	EC-8E-DØAB	PAL10	V141	9-JUN-71	<b>16</b>	PAGE 1-5
	Ø326	1050			- 45	) K4000					
	Ø327										
	0330				SMA HLT		ACM A CU				
		•			n L i		/AC SUC	UULD HA	VE SKIPPED		
			/C1	MΑ	TEST 1		740 340	ULD EQU	AL 4000		
	0331	7200		•••	CLA						
	Ø3 <b>3</b> 2	1067				) K7777					
	Ø333	7848			CMA						
	0334	7440			SZA						
	0335	7402			HLT	•	/CMA DI	D NOT CO	OMPLEMENT AC		
							/AC SHO	ULD EQUA	AL 0000		
			/Ch	14	- TAD	TEST 1			•		
	0336	7200			CLA						
	0337	1971				K2525				•	
	0340	7040			CMA						
	Ø341 Ø342	7450			SNA						
	0342	7402			HLT		/TAD OR	CMA ERF	ROR		
	Ø343	1971					/AC SHO	ULD EQUA	NL 5252		
	Ø344	7949				K2525					
	Ø345	7440			CHA						
	9346	7482			SEA		4545 66		_		
	D040	7402			HLT		/IAD UR	CMA ERR	ROR		
			/CM	ı 🛦	_ +48	TECT 0	ZAC SHU	ULD EQUA	L 0000		
	8347	7200	,		CLA	TEST 2					
	0350	1078			TAR	K5252					
	8351	7848			CMA	NATA					
	#352	7450			SNA						
	0353	7402			HLT		/TAD OR	CMA ERR	in P		
							/AC SHOL	ID FOLLA	UN 2525		
	8354	1070			TAD	K5252	, ,,,	PED EMOX	C 2723		
•		7040			CMA						
	9356	7440			SEA						
	8387	7482			HLT		/TAD OR	CMA ERR	OR		
							/AC SHOU	ILD EQUA	L 9966		
			464		T						
	0360	7200	/Un/	A .	TAD T	F21 3					
	Ø361	1067			CLA	V7789					
	<b>8362</b>	7040				K7777					
	Ø363	7440			CMA Sēa						
	8364	7402			HLT		/TAD OR	6MA 500	^-		
					ns,		AND OK	UMA ERRI	UR		
			/TAC	: 1	EST 1		/AC SHOU	TO EMONI	ב שמממ		
	Ø365	7200		• •	CLA						
	0366	7001			IAC						
	0367	7448			SZA						
	Ø37Ø	7410			SKP						
	Ø371	7402			HLT		/IAC DID	NOT INC	CREMENT		
							/AC SHOU	LD EQUL	8001		
			/IAC	: T	EST 2						
	Ø372	7200			CLA						
	Ø373	1067				K7777					
!	Ø374	7001			IAC						

/PDP-8/E	INSTRU	JCTION	TEST 1	MAINDEC-8E-DØAE	B PAL10	V141	9-JUN-71	16:26	PAGE 1-6
	Ø375	7440		SZA					
	Ø376	7482		HLT	/IAC DI	D NOT I	NCREMENT		
						DULD EQUA			
			/IAC	TEST 3					
	0377	7200		CLA					
	0400	1101		TAD K7774					
	0401	7001		IAC					
	8482	7001		IAC					
	0403 0404	7091 7001		IAC					
	0405	7440		IAC SZA					
	0406	7402		HLT	/TAC NO	T INCREM	CENTING.		
	DARO	,		n ⊑ i		ULD EQUA			
			/SZI	TEST 1	7 80 0110	.055 540-	L DDDO		
	0407	7200		CLA					
	0410	7100		CLL	/CLEAR	LINK			
	0411	7004		RAL		LINK SAF	ETY		
	8412	7430		SZL					
	0413	7402		HLT	/SZL SH	OULD HAV	E SKIPPED		
					/LINK S	HOULD EQ	NUAL ZERO		
			/S₹L 1	7ECT 9					
	8414	7200	7326	CLA					
	8415	7100		CLL	/CLEAR	LINK			
		7020		CML		MENT LIN	lk .		
	8417	1050		TAD K4888			· 18		
	Ø42Ø	7004		RAL	/SET LI	NK SAFET	<b>'Y</b>		
	8421	7430		SZL					
	<b>Ø</b> 422	7410		SKP					
	0423	7482		HLT			HAVE SKIPPED		
					/LINK S	HOULD EQ	UAL ONE		
		8084	/SNL T						
	Ø424	7200 7100		CLA	461 5 4 6				
	Ø425 Ø426	7004		CLL	/CLEAR				
	8427	7420		RAL SNL	/ CLEAR	LINK SAF	EIT		
	0430	7410		SKP					
	6431	7402		HLT	/SNI SH	OULD NOT	HAVE SKIPPED		
		7.70		r( <b></b> ·	/LINK S	HOULD EG	UAL ZERO		
			. =				· • · · ·		
			/SNL T						
	Ø432			CLA	101 - 5				
	Ø433	7100		CLL	/CLEAR				
	0434 0435	7020 1050		CML TAB MAGG	/CUMPLE	MENT LIN	K		
		7004		TAD K4000 Ral	/SFT   11	NK SAFET	<b>~</b>		
		7420		SNL	7361 61	TA SAPE	T		
	0440	7402		HLT	ZSNI SH	NII D HAV	E SKIPPED		
	- · · <del>-</del>	. —		· • • • ·		HOULD EQ			
							eren e e		
	G 4 4 4	7200	/CLL T						
		1050		CLA Tad k4000					
_	D776	+~~ U		שששרת טאו					

...

```
/PDP-8/E INSTRUCTION TEST 1 MAINDEC-8E+DØAB
                                               PAL10 V141
                                                                 9-JUN-71
                                                                                 16:25
                                                                                         PAGE 1-7
          0443 7064
                                 RAL
                                                 /SET LINK
          0444 7420
                                SNL
          Ø445
               5252
                                JMP CLL11
                                                         /CANNOT SET LINK WITH RAL
                                                 /TRY A CML
          0446
               7100
                        CLL1.
                                CLL
          0447
               7430
                                SZL
          0450
               7402
                                HLT
                                                 /CLL DID NOT CLEAR LINK
                                                 /LINK SHOULD EQUAL ONE
          0451
                5256
                                JMP .+5
          0452
               7020
                        CLL11.
                                CML
                                                 /SET LINK
          0453 7420
                                SNL
          0454
               7482
                                                 /CANNOT SET LINK WITH
                                HLT
                                                /RAL OR CML. CANNOT
                                                /PERFORM CLL TEST 1
          8455 5246
                                JMP CLL1
                        /CML TEST 1
          Ø456
               7180
                        CMLT1, CLL
          8457
               7430
                                SZL
          8468
               7482
                                HLT
                                                /CLL DID NOT CLEAR LINK
          0461
               7920
                                CML
          9462
               7420
                                SNL
          8463
               7402
                                HLT
                                                /CML DID NOT SET LINK
          8464
               7020
                                CML
          0465
               7430
                                SEL
         6466
               7482
                                HLT
                                                /CML DID NOT RESET LINK
                        /CLA TEST 1 (OPERATE GROUP 2)
         0467 7200
                                CLA
         8478 1867
                                TAD K7777
         0471 7680
                                7690
         8472 744B
                                SZA
         8473 7482
                                HLT
                                                /CLA (7688) DID NOT CLEAR AC
                                                /AC SHOULD EQUAL 0000
                        /OSR TEST 1
              7200
         8474
                                CLA
         8475 7484
                                OSR
         8476 7848
                                CMA
         8477 7440
                                SZA
         8588 7482
                                HLT
                                                /OSR DID NOT SET AC TO 7777
                                                /AC SHOULD=#
                       /NOP TEST 1 (OPERATE GROUP 1)
         0501 7200
                               CLA
         0502
               7100
                               CLL
                                               /AC AND LINK EQUAL ZERO
         0503 7000
                               7000
                                                /TEST INSTRUCTION
         0584
              7450
                               SNA
         0505
              7430
                               SZL
         0506 7402
                               HLT
                                                /NOP FAILURE
                                                /AC AND LINK SHOULD BE ZERO
                       /NOP TEST 2 (OPERATE GROUP 2)
```

0507 7200

CLA

/PDP-8/E	INSTRU	CTION	TEST	1	MAIND	EC-8E-DØAB	PAL1Ø	V141	9-JUN-71	16:26	PAGE	1-8
	Ø51Ø	7100			CLL				EQUAL ZERO			
	0511	7400			740	0	/TEST	INSTRUC	TION			
	0512	7450			SNA							
	0513	7430			SZL			_				
	0514	7482			HLT		/NOP F/		SHOULD BE ZER	0		
			11	AD	TEST 1							
	0515	7200			CLA							
	Ø516	1066			TAD	K3777		/OPER	AND 1			
	Ø517	1050				K 4 0 0 0		/OPER	AND 2			
	0520	7040			CMA							
	Ø521	7440			SZA							
	Ø522	7402			HLT		/TAD E		UAL 0000			
			17	AD	TEST 2							
	Ø523	7200			CLA			_				
	0524	1065				K5777		/OPER				
	Ø525	1045			TAD	K2000		/OPER	AND 2			
	Ø526	7040			CMA							
	8527	7440			SZA							
	Ø53Ø	7482			HLT		/TAD ER		UAL 0000			
			/T	AD	TEST 3							
	0531	7200			CLA							
	<b>#532</b>	1864				K6777		/OPER				
	Ø533	1842			TAD	K1000		/OPER	AND 2	1		
	Ø534	7040			CMA							
	<b>Ø535</b>	7440			SZA							
	Ø536	7402			HLT		/TAD EF	-	UAL 9699			
			/1	AD	TEST 4							
	9537	7280			CLA		-					
	9549	1963			TAD	K7377		/OPER				
	8541	1948			TAD	K0400		/OPER	AND 2			
	Ø542	7040			CMA							
	Ø543	7440			SZA							
	8544	7402			HLT		/TAD E					
							/AC SHO	DULD EG	UAL 0000			
			<b>/</b> T	AD	TEST 5							
	Ø545	7200			CLA				4415 4			
	Ø546	1062				K7577		/OPER				
	Ø547	1036				KØ20Ø		/OPER	AND 2			
	Ø550	7040			CMA							
	0551	7440			SZA		4745 51	0000				
	Ø5 <b>5</b> 2	7402			HLT		/TAD EI		UAL 0000			
			/T	AD	TEST 6							
	0553	7200			CLA							
	0554	1061				K7677		/OPER				
	0555	1034				KØ100		/OPER	AND Z			
	Ø556	7040			CMA							
	Ø5 <b>5</b> 7	7440			SZA							
	0560	7402			HLT		/TAD E	KROR				

/PDP-8/E 1	NSTRU	CTION	TEST 1	MAIND	FC-85-DØAR	PAL1Ø	V141	9-JUN-71	16:26	PAGE 1-9
	10,110	0.000	, - 5 , - 2		LO GE GEAR				10.20	PAGE 1-9
			/TAD	TEST 7		JAC SHOU	ILD EQUAL	. 9090		
	Ø561	7200	7170	CLA						
	2562	1057			K7737		/OPERAND	1		
		1032			KØØ4Ø		JOPERAND			
	2564	7848		CMA			, or chang	•		
		7440		SZA						
		7402		HLT		/TAD ERR	IOR			
							LD EQUAL	0000		
			/TAD	TEST 8						
	Ø567	7200		CLA						
	0570	1056		TAD	K7757		/OPERAND	1		
	Ø571	1030		TAD	KØØ2Ø		/OPERAND	2		
		7040		CMA						
1	8573	7440		SZA		•				
. 1	8574	7402		HLT		/TAD ERR	OR			
							LD EQUAL	0000		
			/TAD	TEST 9		,				
•		7200		CLA						
		1955		TAD	K7767		/OPERAND	1		
		1026		TAD	KØØ1Ø		JOPERAND			
		7949		CMA						
		7440		SZA						
1	8682	7492		HĻŤ		/TAD ERR	-			
						/AC SHOU	LD EQUAL	9090		
			/TAD	TEST 1	7					
		7200		CLA						
		1854			K77 <b>73</b>		/OPERAND	1		
		1024			KØØØ4		/OPERAND	2		
		7848		CMA						
		7440		SEA						
	618	7402		HLT		/TAD ERR				
			4= 4 =	*FO= 4:		/AC SHOU	LD EQUAL	0000		
	1444	7284	/TAD	TEST 11	Ļ					
		7200 4053		CLA	V7756		400000			
		1053			K7775		/OPERAND			
		7848			K0002		/OPERAND	2		
		7440		CMA SZA						
		7482		HLT		/TAD ERR	A D			
•	,010	, , , , ,	/TAD	TEST 12	<b>)</b>	FIAU ENK	אט			
2	617	7200	,,,,,	CLA	•					
		1052			K7776		OPERAND	1		
		1021			KØØØ1		OPERAND			
		7040		CMA			4. CAMILL	-		
		7440		SZA						
		7402		HLT		/TAD ERR	DR			
						/AC SHOU		0000		
			/TAD	TEST 13	}	- · · · · · ·				
	625			CLA						
		7100		CLL						
0	627	1050			K4000	•	OPERAND	1		

/PDP-8/E	INSTR	UCTION	TEST	1	MAIND	EC-8E-DØ	AB P	AL10	V141	9-JUN-71	16:26	PAGE	1-10
	0630	1050			TAD	K4000			/OPERA	Nn 2			
	0631				SZL				, Q: ENA				
	Ø632				SZA								
	0633				HLT		/	TAD EF	ROR. AC	SHOULD EQUA	Lagga		
							/	LINK S	SHOULD B	E EQUAL ONE.			
						_							
	4474	7200	/ 1 /	וו טי	ST 1	4							
	Ø634 Ø635				CLA								
	Ø636				CLL	K6000			408504	No. 4			
	Ø637					K2000			/OPERA				
	0640	7430			SZL	NEDDO			JUPERA	11U Z			
	0641	7440			SZA								
	8642				HLT		,	TAD ER	ROR. AC	SHOULD EQUA			
							,	LINK S	HOULD E	QUAL ONE			
			/TA	D TE	ST 1	5							
	8643	7200			CLA								
	8644	7100			CLL								
	Ø645	1073				K7000			/OPERA!				
	Ø646	1042				K1000			/OPERA!	ND 2			
	8647 86 <b>5</b> 8	7430 7440			SZL								
	8651	7482			SZA		,	740 ED	040 45				
	2031	, ,,,,			HLT		//	INU ER	HOM. AC	SHOULD EQUAL Qual one	. 9909		
			/TAI	O TE	ST 16		/ (	FIME 3	MOOLD E	BUAL UNE			
	Ø652	7200	• • • • • • • • • • • • • • • • • • • •	• -	CLA	•							
	0653	7100			CLL								
	0654	1874				K7400			/OPERAN	ND 1			
	8655	1040			TAD	KØ400			/OPERAN	ND 2			
	9656	7430			SEL								
	0657	7440			SEA		.=						
	8668	7402			HLT			AD ER	ROR. AC	SHOULD EQUAL	. 5000		
			1AT\	) TF	ST 17		/ .	INK S	HOULD EV	PUAL ONE			
	Ø661	7200	, , , ,	,	CLA								
	Ø662	7100			CLL								
	Ø663	1075				K76ØØ			/OPERAN	ID 1			
	B664	1036			TAD	KØ2ØØ			/OPERAN				
	Ø665	7430			SZL	-							
	B666	7448			SZA								
	Ø6 <b>6</b> 7	7482			HĻT		/1	AD ER	ROR. AC	SHOULD EQUAL	5000		
			4745				/L	INK S	HOULD EQ	DUAL ONE			
	<b>0</b> 670	7200	/ IAL	3 IE.	ST 18 CLA								
	Ø671	7100			CLL								
	Ø672	1113				K77ØØ			/OPERAN	ID 1			
	Ø673	1034				K0100			OPERAN				
	Ø674	7430			SZL				, D. ENAM	the Ma			
	Ø675	7440			SZA								
	Ø676	7402			HLT		<b>/</b> T	AD ERF	ROR. AC	SHOULD EQUAL	0000		
							/L	INK SH	HOULD EQ	UAL ONE	<del>-</del>		
	01.77	<b>#</b> 064	/TAD	TES	ST 19								
	0677 07 <b>0</b> 0	720Ø 7100			CLA								
	ש ש א	1100			CLL								

0701 0702 0703	1076 1032 7430	TAD K7740 TAD K0040 SZL	/OPERAND 1 /OPERAND 2
0704	7440 7402	SZA HLT /TAD TEST 20	/TAD ERROR. AC SHOULD EQUAL 0000 /Link should equal one
0710 0711 0712	7200 7100 1077 1030 7430	CLA CLL TAD K7760 TAD K0020 SZL	/OPERAND 1 /OPERAND 2
	744Ø 7402	SEA HLT /TAD TEST 21	/TAD ERROR. AC SHOULD EQUAL 8888 /Link Should Equal one
0716 0717 0720 0721	7200 7100 1100 1026 7430	CLA CLL TAD K7770 TAD K0010 SZL	/OPERAND 1 /OPERAND 2
	7440 7402	SZA HLT	/TAD ERROR AC SHOULD EQUAL 8686 /Link should equal one
0726 0727 0730 0731	7200 7100 1101 1024 7430 7440	/TAD TEST 22 CLA CLL TAD K7774 TAD K0004 SEL SEA	/OPERAND 1 /OPERAND 2
Ø732		HLT /TAD TEST 23	/TAD ERROR. AC SHOULD EQUAL <b>8866</b> /Link should equal one
#734 #735 #736 #737	7280 7100 1832 1832 7430 7440	CLA GLL TAD K7776 TAD KØØØ2 S差し S差A	/OPERAND 1 /OPERAND 2
	7482	HLT	/TAD ERROR. AC SHOULD EQUAL 0000 /Link should equal one
0742 8743	7200 7100	/TAD TEST 24 CLA CLL	
Ø744 Ø745 Ø746	1067 1021 7430	TAO K7777 TAO K0001 SZL	/OPERAND 1 /OPERAND 2
0747 07 <b>5</b> 0	744Ø 7402	SZA HLT	/TAD ERROR, AC SHOULD EQUAL 0000 /Link should equal one

```
/PDP-8/E INSTRUCTION TEST 1 MAINDEC-8E-DØAB
                                                 PAL10
                                                         V141
                                                                 9-JUN-71
                                                                                          PAGE 1-12
                                                                                 16:26
                        /TAD TEST 25
          0751 7200
                                CLA
          0752 7100
                                CLL
          0753 7020
                                CML
          0754 1050
                                TAD K4000
                                                         /OPERAND 1
          0755 1050
                                TAD K4000
                                                         /OPERAND 2
          0756 7420
                                SNL
          0757 7440
                                SZA
          0760 7402
                                HLT
                                                /TAD ERROR. AC SHOULD EQUAL 8000
                                                 /LINK SHOULD EQUAL ZERO
                        /TAD TEST 26
          0761 7200
                                CLA
          0762 7100
                                CLL
          Ø763
               1066
                                TAD K3777
                                                         /OPERAND 1
          0764
               1045
                                TAD K2000
                                                         /OPERAND 2
          0765
               1045
                                TAD K2000
                                                         /OPERAND 3
          Ø766 704Ø
                                CMA
         Ø767 742Ø
                                SNL
         0770 7440
                                SZA
         0771 7402
                                HLT
                                                /TAD ERROR. AC SHOULD EQUAL 0000
                                                /LINK SHOULD EQUAL ZERO
                        /TAD TEST 27
         0772
               7200
                                CLA
         Ø773
               7100
                                CLL
         Ø774
               1065
                                TAD K5777
                                                /OPERAND 1
         Ø775
               1042
                                TAD K1000
                                                /OPERAND 2
         Ø776
               1042
                                TAD K1000
                                                /OPERAND 3
         Ø777
               7040
                                CMA
         1000
               7420
                                SNL
         1001
              7440
                                        /TAD ERROR AC SHOULD EQUAL 8888
                                SZA
         1002 7402
                                       /LINK SHOULD EQUAL ZERO
                               HLT
                       /TAD TEST 28
               7200
         1003
                               CLA
         1004
               7100
                               CLL
         1005
               1064
                               TAD K6777
                                                        /OPERAND 1
         1006
              1040
                               TAD KØ400
                                                        /OPERAND 2
         1007
               1040
                               TAD KØ400
                                                        /OPERAND 3
              7040
         1010
                               CMA
              7420
        1011
                               SNL
        1012 7440
                               SZA
        1013 7402
                               HLT
                                               /TAD ERROR. AC SHOULD EQUAL 8888
                                                /LINK SHOULD EQUAL ZERO
                       /TAD TEST 29
              7200
        1014
                               CLA
        1015 7100
                               CLL
        1016 1063
                               TAD K7377
                                                       /OPERAND 1
              1036
        1017
                               TAD KØ2ØØ
                                                       /OPERAND 2
        1020 1036
                               TAD KØ2ØØ
                                                       /OPERAND 3
        1021
             7040
                               CMA
        1022 7420
                               SNL
        1023 7440
                               SZA
        1024 7402
                               HLT
                                               /TAD ERROR. AC SOULD EQUAL 0000
                                               /LINK SHOULD EQUAL ZERO
```

/Pbr-8/E	INSTRU	CTION	TEST 1	MAINDEC-8E-DEAB	PAL10	V141	9-JUN-71	16:26	PAGE	1-13
			<b>∠TAD</b>	TEST 30						
	1025	7200	, ,	CLA						
		7120		CLL						
	1027	1862		TAD K7577		/OPERA	ND 1			
	1030	1034		TAD KØ100		/OPERA				
	1031	1034		TAD KØ100		/OPERA		•		
	1032	7848		CMA			•			
		7420		SNL						
		7440		SZA						
		7402		HLT			SHOULD EQUAL Qual Zero	8999		
			/TAD	TEST 31	> E + M/C -	SUCOED E	TORE EL.			
	1036	7200		CLA						
	1037	7100		čii						
	1848	1861		TAD K7677		/OPERA	ND 1			
		1032		TAD KODAD	46.74	/OPERA	ND 2			
	1042	1032		TAD KOD40		/OPERA				
		7848		CMA			<del>-</del> ·			
		7420		SNL						
		7448		SZA						
		7402		HLT			SHOULD EQUAL Qual Zero	<b>0000</b>		
					/ <b>L</b> + NA	-	TORE BENO			
			/TAD	TEST 32						
	1847	7200		CLA						
	1050	7100		cii						
	1051	1857		TAD K7737		/OPERA	ND 1			
	1052	1030		TAD KR828		/OPERA				
	1953	1939		TAD KØ828		/OPERA				
	1054	7848		CMA			-			
	1855	7420		SNL						
		7449		SAA						
	1057	7482		HLT			SHOULD EQUAL Qual Zero	. 6666		
			/TAD	TEST 33	1911					
	1060	7200		CLA						
	1861	7188		CLL						
	1062	1936		TAD K7757		/OPERA				
		1026		TAD K0010		/OPERA	ND 2			
	1964	1926		TAD K0010		/OPERA	ND 3			
	1065	7040		CMA						
	1866	7420		SNL						
	1067	7440		SZÁ						
	1070	7402		HLT	/TAD E	RROR. AC	SHOULD EQUAL	. 0000		
					/LINK	SHOULD E	QUAL ZERO			
	. =		/TAD	TEST 34						
	1071	7288		CLA						
	1072	7100		CLL			N = 4			
	1073	1055		TAD K7767		/OPERA				
	1074	1824		TAD K0004		/OPERA				
	1075	1024		TAD K0004		/OPERA	ND 3			
	1076	7949		CMA						
	1077	7420		SNL						
	1100	7440		SZA						

/PDP-8/E INSTRUCTION	TEST 1 MAINDEC-8E-DØAB	PAL10 V141 9-JUN-71 16:26 PAGE 1-14
1101 7402	HLT	/TAD ERROR. AC SHOULD EQUAL 0000 /Link Should equal Zero
	/TAD TEST 35	
1102 7200		
1103 7100		
1104 1054	TAD K7773	OPERAND 1
1105 1022	TAD K0002	OPERAND 2
1106 1022		OPERAND 3
1187 7040		
1110 7420		
1111 7440		THE POPER OF AUGUS PAUL STAR
1112 7402	HLT	/TAD ERROR. AC SHOULD EQUAL 0000 /link should equal zero
	/TAD TEST 36	
1113 7200		
1114 7188	CLI	
1115 1053		/OPERAND 1
1116 1021		OPERAND 2
1117 1021		OPERAND 3
1120 7040		
1121 7420		
1122 7430	SZL	
1123 7402		/TAD ERROR. AC SHOULD EQUAL 0000 /link should equal zero
	/TAD TEST 37	/10;MB, CR.
1124 7200	CLA	
1125 7100		
1126 1021		/0+1=1
1127 1023		/1+3×4
1130 1054		/4+7773 <b>=777</b> 7 /0
1131 7848		, , , , , , , , , , , , , , , , , , , ,
1132 7420 1133 7440		
1133 7440 1134 7402		/TAD ERROR. AC AND LINK SHOULD BE ZERO.
1134 / 126	/TAD TEST 38.	/9; MB, CR.
1135 7200		
1136 7100		
1137 1022		/0+2=2
1140 1025		/2+6=10
1141 1055		/10+7767=7777
1142 7040	CMA	/0
1143 7420		
1144 7440		
1145 7402	HLT	/TAD ERROR. AC AND LINK SHOULD BE ZERO.
	/TAD TEST 39.	/8; MB, CR.
1146 7200		
1147 7100		10+4-4
1150 1024		/0+4=4 /4+14=20
1151 1027	TAD K14	/ 4 - 1 4 - 60

```
/PDP-8/E INSTRUCTION TEST 1 MAINDEC-8E-DBAB
                                                 PAL10
                                                         V141
                                                                  9-JUN-71
                                                                                  16:26 PAGE 1-15
          1152 1056
                                 TAD K7757
                                                 /20+7757=7777
          1153 7040
                                 CMA
                                                  10
          1154
               7420
                                 SNL
          1155 7440
                                 SZA
          1156 7402
                                 HLT
                                                 /TAD ERROR. AC AND LINK SHOULD BE ZERO.
                         /TAD TEST 40.
                                                 /7; MB, CR.
                7200
          1157
                                 CLA
          1160
                7100
                                 CLL
          1161
                1026
                                 TAD KØØ1Ø
                                                 /0+10=10
          1162
                1031
                                 TAD K30
                                                 /10+30=40
          1163
                1057
                                 TAD K7737
                                                 /40+7737=7777
                7840
          1164
                                 CMA
                                                 10
          1165 7420
                                 SNL
          1166
               7440
                                 SZA
          1167 7482
                                 HLT
                                                 /TAD ERROR. AC AND LINK SHOULD BE ZERO.
                        /TAD TEST 41.
                                                 /6; MB, CR
          1179
                7288
                                 CLA
          1171 7100
                                CLL
          1172 1030
                                TAD KØØ2Ø
                                                 10+20=20
         1173 1033
                                TAD K6Ø
                                                 /20+60=100
         1174 1861
                                TAD K7677
                                                 /100+7677=7777
         1175 7040
                                CMA
                                                 10
         1176 7420
                                SNL
         1177 7448
                                SZA
         1200 7402
                                HLT
                                                 /TAD ERROR, AC AND LINK SHOULD BE ZERO.
                        /TAD TEST 42.
                                                 /5; MB, CR.
         1261 7200
                                CLA
         1252
               7188
                                CLL
         1263
               1832
                                TAD K0840
                                                 18+48=48
         1284 1835
                                TAD K148
                                                /40+140=200
         1285
               1062
                                TAD K7577
                                                /205+7577=7777
         1206
               7949
                                CHA
                                                 10
         1207
               7420
                                SNL
         1210 7440
                                SZA
         1211 7482
                                HLT
                                                /TAD ERROR. AC AND LINK SHOULD BE ZERO.
                       /TAD TEST 43.
                                                /41 MB, CR.
         1212 7200
                                CLA
         1213 7100
                                CLL
         1214 1034
                                TAD KØ100
                                                /0+100=100
         1215 1037
                                TAD K300
                                                /100+300=400
         1216 1063
                                TAD K7377
                                                /400+7377=7777
         1217 7040
                                CMA
                                                10
         1220 7420
                               SNL
         1221
              7440
                               SZA
         1222
              7482
                               HLT
                                                /TAD ERROR. AC AND LINK SHOULD BE ZERO.
                       /TAD TEST 44.
                                                /3; MB, CR.
        1223 7200
                               CLA
        1224 7100
                               CLL
        1225 1036
                               TAD KØ200
                                                10+200=200
        1226 1041
                               TAD K600
                                                /200+600=1000
```

```
PAGE 1-16
                                                                  9-JUN-71
                                                                                   16:26
/PDP-8/E INSTRUCTION TEST 1 MAINDEC-8E-DBAB
                                                  PAL10
                                                         V141
                                                  /1000+6777=7777
                                 TAD K6777
          1227 1064
                                                  10
          1230
                7040
                                 CMA
          1231
                7420
                                 SNL
                                 SZA
                7440
          1232
                                                  /TAD ERROR. AC AND LINK SHOULD BE ZERO.
          1233 7402
                                 HLT
                                                  /2; MB, CR.
                         /TAD TEST 45.
          1234
                7200
                                 CLA
                7120
                                 CLL
          1235
                                                  10+400=400
                                 TAD KØ4ØØ
          1236
                1040
                                                  /400+1400=2000
                                 TAD K1400
          1237 1044
                                                  /2000+5777=7777
                                 TAD K5777
          1240
                1065
                                                  10
          1241
                7040
                                  CMA
                7420
                                  SNL
          1242
                7440
                                 SZA
          1243
                                                  /TAD ERROR. AC AND LINK SHOULD BE ZERO.
          1244 7402
                                 HLT
                         /TAD TEST 46
                                         /1; MB, CR.
                7200
                                 CLA
          1245
          1246
                7100
                                 CLL
                                                  /0+1000=1000
                                 TAD K1000
                1842
          1247
                                 TAD K3000
                                                  /1000+3000=4000
          1250 1046
                                                  /4000+3777*7777
                                 TAD K3777
          1251
                1066
                                                  10
                7848
                                  CMA
          1252
          1253 7428
                                 SNL
                                 SZA
          1254 7448
                                                  /TAD ERROR. AC AND LINK SHOULD BE ZERO.
          1255 7482
                                 HLT
                                                  /8; MB, CR
                         JTAD TEST 47
                7200
                                  CLA
          1256
                7100
                                  CLL
          1257
                                  TAD K2000
                                                  /6+2698=2598
                1045
          1268
                                                  /2000+6000=1 0000
                                  TAD K6000
          1261 1072
                7438
                                 SEL
          1262
          1263 7440
                                  SZA
                                                  /TAD ERROR, LINK SHOULD # 1. AC SHOULD # 8000.
                                  HLT
               7482
          1264
                         /TAD TEST 48.
                                 CLA
               7200
          1265
          1266 7100
                                  CLL
                                                  /8+7777=7777
          1267 1067
                                 TAD K7777
                                                  /7777+1=1 9000
                                 TAD KOOO1
          1270 1021
                7430
                                  SZL
          1271
                                  SEA
          1272
                7440
                                                  /TAD ERROR. LINK SHOULD = 1. AC SHOULD = 0000.
          1273 7402
                                  HLT
                                                  /10; AC, MB, CR.
                         /TAD TEST 49.
                7200
                                  CLA
          1274
                7100
                                  CLL
          1275
                                                  10+3=3
                                  TAD K3
          1276
                1023
                                                  /3+3=6
                                  TAD K3
                1023
          1277
                                                  /6+7770=7776
                                  TAD K7770
          1300 1100
                                                  /7776+1=7777
                                  TAD KODO1
               1021
          1301
                                                  10
          1302 7040
                                  CMA
```

```
/PDP-8/E INSTRUCTION TEST 1 MAINDEC-8E-DØAB
                                                 PAL10
                                                         V141
                                                                  9-JUN-71
                                                                                  16:26
                                                                                          PAGE 1-17
          1303 7420
                                 SNL
          1304 7440
                                 SZA
          1305 7402
                                 HLT
                                                 /TAD ERROR. AC AND LINK SHOULD BE ZERO.
                         /TAD TEST 50.
                                                 /9; AC, MB, CR.
          1306
                7200
                                 CLA
          1307
                7128
                                CLL
          1310 1025
                                 TAD K6
                                                 10+6=6
          1311 1025
                                 TAD K6
                                                 16+6=14
               1877
          1312
                                 TAD K7768
                                                 /14+776Ø=7774
          1313
                1023
                                 TAD K3
                                                 /7774+3=7777
          1314 7840
                                 CHA
                                                 10
          1315 7420
                                 SNL
          1316 7448
                                SZA
          1317 7482
                                HLT
                                                 /TAD ERROR, AC AND LINK SHOULD BE ZERO.
                        /TAD TEST 51.
                                                 /8; AC, MB, CR.
          132#
                7288
                                CLA
          1321
               7180
                                CLL
          1322
               1027
                                TAD K14
                                                 10+14=14
          1323
               1027
                                TAD K14
                                                 /14+14=30
          1324
               1876
                                TAD K7740
                                                 /30+7746=7776
         1325
               1102
                                TAD KØØØ7
                                                 /7778+7=7777
         1326
               7848
                                CMA
                                                 19
         1327
               7420
                                SNL
         1330 7440
                                SHA
         1331 7482
                                HLT
                                                /TAD ERROR. AC AND LINK SHOULD BE ZERO.
                        /TAD TEST 52.
                                                /73 AC. HB. CR.
         1332
               7280
                                CLA
         1333 7100
                                CLL
         1334 1831
                                TAD K30
                                                 12+30=30
         1335 1231
                                TAD K30
                                                /38+38=6B
         1336 1851
                                TAD K7717
                                                /68+7717#7777
         1337 7940
                                CMA
                                                18
         1340 7420
                                SNL
         1341
              7440
                                SZA
         1342 7482
                                HLT
                                                /TAD ERROR. AC AND LINK SHOULD BE ZERO.
                       /TAD TEST 53.
                                                /61 AC, MB, CR.
         1343 7288
                                CLA
         1344
              7100
                                CLL
         1345 1033
                               TAD K60
         1346 1033
                               TAD K60
                                                /60+60=140
         1347 1075
                               TAD K7600
                                                /140+7600=7740
         1350 1105
                               TAD K0037
                                                /7740+37=7777
         1351
              7949
                               CMA
                                                10
         1352 7420
                               SNL
         1353 7440
                               SZA
         1354
              7402
                               HLT
                                               /TAD ERROR. AC AND LINK SHOULD BE ZERO.
                       /TAD TEST 54.
                                               /5; AC, MB, CR
               728Ø
         1355
                               CLA
         1356
              7100
                               CLL
```

/PDP-8/E	INSTRU	CTION	TEST 1	MAINDEC-8E-DØAB	PAL10	V141	9-JUN-71	16:26	PAGE 1-18
	1357	1035		TAD K140					
	1360	1035		TAD K148	/140+14	0=300			
	1361	1074		TAD K7400		00=7700			
	1362	1106		TAD KOO77	17700+7	フェフフフフ			
	1363	7040		CMA	10				
	1364	7420		SNL					
	1365	7440		SZĀ					
	1366	7482		HLT	/TAD EF	ROR. AC	AND LINK SHOULD	BE ZERO.	
			/TAD	TEST 55.	/4; AC	MB, CR	•		
	1367	7200		CLA					
	1370	7100		CLL					
	1371	1037		TAD K3ØØ	/0+300				
	1372	1937		TAD K300	/300+30				
	1373	1060		TAD K7177		L77=7777			
	1374	7848		CMA	18				
	1375	7420		SNL					
	1376	7448		SZA	47 AB ES	2000 10	AND LINK SHOULE	0 2 2 DA	
	1377	7482		HLT	/IAU E	TRUK. AL	MAD FIRM SMOOFE	DE EENV	
			/TAD	TEST 56.	/31 AC	MB, CR	•		
	1488	7200		CLA					
	1481	7100		GLL					
	1482	1041		TAD K600	/8+600				
	1483	1041		TAD K600		00=1400	a		
	1484	1872		TAD K6000		999=740	O		
	1485	1110		TAD K8377	//488+3	577=7777			
	1406	7848		CMA					
	1487	7420		SNL					
	1410	7448		SEA	/TAD E	2008. AC	AND LINK SHOULD	AF FFRO.	
	1411	7402		HLT	/ 1 NU E	INUNI NO	AND LINK SHOOL	, pr ar	
			/TAD	TEST 57.	/21 AC	MB, CR	•		
	1412	7200		CLA					
	1413	7180		CLL					
	1414	1944		TAD K1400	/8+148		_		
	1415	1044		TAD K1400		1400=300	_		•
	1416	1050		TAD K4000		4600=760			
	1417	1111		TAD KØ777		777=7777			
	1428	7848		CMA	10				
	1421	7428		SNL					
	1422	7440		SZA	4745 51	3000 40	AND IT W CHAIL	DE 3500	
	1423	7482		HLT	/TAD E	KROK. AU	AND LI K SHOULD	DE EFRO	•
			/TAD	TEST 58.	/11 AC	, MB, CR	•		
	1424	7200		CLA					
	1425	7100		CLL	/0+3001	A-7855			
	1426	1046		TAD K3000		0=3000 3000=600	a		
	1427	1046		TAD K3000		17 <b>77=</b> 777			
	1430	1112		TAD K1777			•		
	1431	7040		CMA	10				
	1432	7420		SNL					
	1433	744Ø 7402		SZA HLT	/TAD FI	RROR. AC	AND LINK SHOUL	BE ZERO	
i.	1434	1702		nie i	2 1 MG 14.			<del>-</del>	

```
PAGE 1-19
               /TAD TEST 59.
                                       /0; AC, MB, CR.
 1435
       7200
                       CLA
 1436 7100
                       CLL
 1437
       1072
                       TAD K6000
                                       /0+6000=6000
 1440 1072
                       TAD K6000
                                       /6000+6000=1 4000
 1441 1066
                       TAD K3777
                                       /1 4000+3777=1 7777
 1442
      7848
                       CMA
                                       /1 8000
 1443 7430
                       SEL
 1444
      7440
                       SZA
 1445 7402
                       HLT
                                       /TAD ERROR. LINK SHOULD BE 1. AC SHOULD BE ZERO.
               /TAD TEST 60.
                                       /
 1446
       7200
                       CLA
 1447 7180
                       CLL
 1450 1067
                       TAD K7777
                                       /Ø+7777≈7777
 1451 1067
                       TAD K7777
                                       /7777+7777#1 7776
 1452
      1021
                       TAD K0001
                                       /1 7776+1#1 7777
1453 7040
                       CMA
                                       /1 0000
1454 7430
                       SZL
1455 7440
                       SZA
1456 7402
                       HLT
                                      /TAD ERROR. LINK SHOULD BE 1. AC SHOULD BE BERO.
               /RAR TEST 1
1457
      7200
                       CLA
1460 7100
                       CLL
1461 1021
                       TAD K0001
                                              /ROTATE PATTERN
1462 7010
                       RAR
1463 7420
                       SNL
1464 7402
                       HLT
                                      /RAR FAILED, LINK DROPPED A BIT
                                      /LINK SHOULD EQUAL A ONE
              /RAR TEST 2
1465 7200
                      CLA
1466 7100
                      CLL
1467 1020
                      TAD KØØØØ
                                               /ROTATE PATTERN
1470 7010
                      RAR
1471 7440
                      SZA
1472 7402
                      HLT
                                      /RAR FAILED. AC PICKED UP A BIT
                                      /A ONE IN AC EQUALS THE PICKED UP BIT
              /RAR TEST 3
1473 7200
                      CLA
1474 7100
                      CLL
1475 1020
                      TAD KØØØØ
                                              /ROTATE PATTERN
1476 7010
                      RAR
1477 7430
                      SEL
1500 7402
                      HLT
                                      /RAL FAILED. LINK PICKED UP A BIT
                                      /LINK SHOULD EQUAL ZERO
              /RAR TEST 4
1501 7200
                      CLA
1502 7100
                      CLL
1503 7020
                      CML
1584 1020
                      TAD KØØØØ
                                              /ROTATE PATTERN
```

PAL10

V141

9-JUN-71

16:26

/PDP-8/E INSTRUCTION TEST 1 MAINDEC-8E-DØAB

```
/PDP-8/E INSTRUCTION TEST 1 MAINDEC-8E-DØAB
                                                 PAL10
                                                         V141
                                                                 9-JUN-71
                                                                                  16:26
                                                                                          PAGE 1-28
          1505 7010
                                 RAR
          1506 7430
                                 SEL
          1507 7402
                                 HLT
                                                /RAR LINK PICKED UP A BIT
                                                 /LINK SHOULD EQUAL ZERO
                        /RAR TEST 5
          1510
                7200
                                CLA
          1511 7100
                                CLL
          1512 7020
                                CML
          1513 1067
                                TAD K7777
                                                         /ROTATE PATTERN
         1514
               7010
                                RAR
         1515 7040
                                CMA
         1516 7440
                                SZA
         1517 7402
                                HLT
                                                /RAR FAILED AC DROPPED A BIT
                                                /A ONE IN AC EQUALS THE DROPPED BIT
                        /RAR TEST 6
                7200
         1520
                                CLA
         1521
               7100
                                CLL
         1522 7020
                                CML
         1523 1020
                                TAD KOOOD
                                                         /ROTATE PATTERN
         1524 7010
                                RAR
         1525
               1066
                                TAD K3777
               7040
         1526
                                CMA
         1527
               7450
                                SNA
         1530 7430
                                SEL
         1531 7402
                                HLT
                                                /RAR FAILED AC AND LINK
                                                /SHOULD EQUAL DOOR
                        /RAR TEST 7
         1532 7200
                                CLA
         1533 7100
                                CLL
         1534
               1050
                                TAD K4000
                                                        /ROTATE PATTERN
         1535 7010
                                RAR
         1536 1065
                                TAD K5777
         1537
               7040
                                CMA
         1540 7450
                                SNA
         1541 7430
                                SZL
         1542 7402
                                HLT
                                                /RAR FAILED AC AND LINK SHOULD
                                                /EQUAL ØØØØ
                        /RAR TEST 8
         1543
               7200
                                CLA
         1544 7100
                                CLL
         1545 1045
                                TAD K2000
                                                        /ROTATE PATTERN
         1546 7010
                                RAR
         1547
              1064
                                TAD K6777
         1550
              7949
                                CMA
         1551
               7450
                                SNA
               7430
         1552
                                SEL
         1553
              7402
                                HLT
                                                /RAR FAILED AC AND LINK SHOULD
                                                /EQUAL 0000
                       /RAR TEST 9
         1554
               7200
                                CLA
         1555
              7100
                                CLL
         1556
              1042
                                TAD K1000
                                                        /ROTATE PATTERN
```

/PDP-8/E	INSTRU	CTION	TEST 1	MAINDEC-8E-DØA8	PAL10	V141	9-JUN-71	16:26	PAGE 1-21
	1557	7010		RAR					
	1560	1063		TAD K7377					
	1561	7848		CMA					
	1562	7450	*	SNA					
	1563	7430		SZL					
	1564	7402		HET	/RAR F/	AILED AC	AND LINK SHOU	LD	
					, EACYT	2020			
			/RAR	TEST 10					
	1565	7200		CLA					
	1566	7100		CLL					
	1567	1040		TAD KØ4ØØ		/ROTAT	E PATTERN		
	157Ø	7010		RAR					
	1571	1862		TAD K7577					
		7949		CMA					
	1573 1574	7450 7430		SNA					
	1575	7482		SEL	ADAD E		A A L PA L PALA		
	2017	, 2		HLT	/RAR F/	EGAVE !	AND LINK		
					7540061	PROVE	000		
			/RAR	TEST 11					
•	1576	7200		CLA					
	1577	7188		CLL					
	1600	1036		TAD KØ2ØØ		/ROTATI	E PATTERN		
	1601	7010		RAR					
	1602	1961		TAD K7677					
	1603	7848		CMA					
	1684 1685	745Ø 743Ø		SNA					
	1686	7482		SZL HLT	/DAB C/	11.50 40	AND I THE		
	1000	,		ME I	/EQUAL		AND LINK		
			/PAD	TEST 12					
	1607	7200	, nan	CLA					
	1610	7100		CLL					
	1611	1834		TAD KØ1ØØ		/ROTATI	E PATTERN		
	1612	7818		RAR			- PALIENN		
	1613	1057		TAD K7737					
	1614	7040		CHA					
	1615	7450		SNA					
	1616	7430		SZL			•		
	1617	7402		HLT	/RAR FA	VILED AC	AND LINK		
			/D.L.D.	75CF 49	\2HONFC	EQUAL (	0000		
	1620	7280	FRAR	TEST 13					
	1621	7188		CLA CLL					
	1622	1032		TAD KØØ4Ø		/DATATE	. DATTERN		
	1623			RAR		AUIAII	E PATTERN		
	1624	1056		TAD K7757					
	1625			CMA					
	1626			SNA					
	1627	7430		SZL					
	1630	7482		HĻT	/RAR FA	ILED AC	AND LINK		
						·			

PAUSE

/INSTRUCTION TEST 1 /TAPE 2 /RAR TEST 14  1631 7200 1632 7100 CLA 1633 1030 TAD K0020 /ROTATE PATTERN 1634 7010 RAR 1635 1055 TAD K7767 1636 7040 CMA 1637 7450 SPL 1641 7402 HLT /RAR FAILED AC AND LINK /SHOULD EQUAL 0000  /RAR TEST 15  1642 7200 CLA 1643 7100 CLA 1644 1026 TAD K0010 /ROTATE PATTERN 1645 7010 RAR 1650 7450 SNA 1650 7450 SNA 1651 7450 SZL 1652 7402 HLT /RAR FAILED AC AND LINK /SHOULD EQUAL 0000  /RAR TEST 16 1653 7200 CMA 1650 7450 SNA 1651 7450 SZL 1652 7402 HLT /RAR FAILED AC AND LINK /SHOULD EQUAL 0000  /RAR TEST 16 1653 7200 CMA 1656 7010 RAR 1657 1053 TAD K7775 1660 7010 RAR 1661 7450 SZL 1663 7402 HLT /RAR FAILED AC AND LINK /SHOULD EQUAL 00000  /RAR TEST 17 1664 7200 CMA 1667 7010 RAR 1667 7010 CMA 1667 7010 CMA 1667 7010 CMA 1667 7010 TAD K7775 1667 7010 TAD K7776 1677 7010 CMA 1677 7450 SNA 1673 7430 SZL 1674 7482 HLT /RAR FAILED AC AND LINK /SHOULD EQUAL 00000				
/RAR TEST 14 1631 7200 1632 7100 1633 10300 1634 70100 1635 1055 TAD K00200 1636 70400 1636 70400 1637 74500 1636 74500 1641 7402  /RAR TEST 15 1642 7200 1643 7100 1644 1026 1643 7100 1644 1026 1645 7010 1646 1054 1650 7450 1651 7450 1652 7402  HLT  /RAR TEST 16 1653 7200 1654 7100 1655 1024 1656 7010 1656 7010 1667 7040 1666 7040 1666 7040 1666 7040 1666 7040 1666 7040 1666 7040 1666 7040 1666 7040 1666 7040 1666 7040 1667 7400 1666 7040 1666 7040 1667 7400 1671 7400 1672 7450 1673 7430 1674 7400 1677 7450 1777 7450 177			/INSTRUCTION TEST 1	
1631 7200				
1632   7180		_	/RAR TEST 14	
1633 1030 TAD K0020 /ROTATE PATTERN 1634 7010 RAR 1635 1055 TAD K7767 1636 7040 CMA 1637 7430 SPL 1641 7402 HLT /RAR FAILED AC AND LINK /SHOULD EQUAL 0000  /RAR TEST 15  1642 7200 CLA 1643 7100 CLA 1644 7010 RAR 1646 TAD K0010 /ROTATE PATTERN 1646 1054 TAD K7773 1646 1054 TAD K7773 1650 7430 SPL 1651 7430 SPL 1652 7402 HLT /RAR FAILED AC AND LINK /SHOULD EQUAL 0000  /RAR TEST 16  /RAR TEST 16  1653 7200 CLA 1655 1024 TAD K0004 /ROTATE PATTERN 1656 7010 RAR 1657 1053 TAD K7775 1660 7040 CMA 1661 7450 SNA 1662 7430 SPL 1663 7402 HLT /RAR FAILED AC AND LINK /SHOULD EQUAL 00000  /RAR TEST 17 1664 7200 CLA 1665 7100 CMA 1665 7100 CMA 1666 7010 RAR 1670 7450 SNA 1672 7450 SNA 1672 7450 SNA 1673 7430 SPL 1674 7402 HLT /RAR FAILED AC AND LINK /RAR FAILED AC AND LINK /SHOULD EQUAL 00000			CLA	
1634 7010 RAR 1635 1955 TAD K7767 1636 7040 CMA 1637 7450 SNA 1640 7430 SEL 1641 7402 HLT /RAR FAILED AC AND LINK /RAR TEST 15 1642 7200 CLA 1643 7100 CLA 1644 1026 TAD K0010 /ROTATE PATTERN 1646 1054 TAD K7773 1647 7040 CMA 1650 7450 SNA 1651 7430 SEL 1652 7402 HLT /RAR FAILED AC AND LINK /SHOULD EQUAL 0000 /RAR TEST 16 1653 7200 CLA 1654 7100 CLA 1655 7010 RAR 1656 7010 RAR 1657 1053 TAD K7775 1666 7040 CMA 1657 1053 TAD K7775 1668 7040 CMA 1661 7450 SNA 1662 7430 SEL 1663 7400 TAD K7775 1664 7200 CMA 1665 7100 CMA 1666 7040 CMA 1666 7040 CMA 1667 7450 SNA 1667 7010 RAR 1667 7010 RAR 1670 TOTATE PATTERN 1670 CMA 1671 7040 CMA 1672 TAD K7776 1671 7040 CMA 1673 7430 SEL 1674 7402 HLT /RAR FAILED AC AND LINK /RAR TEST 17 1667 7010 RAR 1677 7040 CMA 1677 7450 SNA 1677 7450 SNA 1673 7430 SEL 1674 7402 HLT /RAR FAILED AC AND LINK /RAR FAILED AC AND LINK			CLL	
1635 1055 TAD K7767 1636 7040 CMA 1637 7450 SNA 1640 7430 SEL 1641 7402 HLT /RAR FAILED AC AND LINK /SHOULD EQUAL 0000  /RAR TEST 15 1642 7200 CLA 1643 7100 CLA 1644 1026 TAD K0010 /ROTATE PATTERN 1646 1054 TAD K7773 1647 7040 CMA 1650 7450 SNA 1651 7430 SLL 1652 7402 HLT /RAR FAILED AC AND LINK /SHOULD EQUAL 0000  /RAR TEST 16 1653 7200 1654 7100 CLA 1655 1024 TAD K0004 /ROTATE PATTERN 1656 7010 RAR 1657 1053 TAD K7775 1660 7040 CMA 1661 7450 SNA 1662 7430 SEL 1663 7402 HLT /RAR FAILED AC AND LINK /SHOULD EQUAL 00000  /RAR TEST 17 1664 7200 1665 7100 CMA 1666 1022 TAD K0002 /RAR FAILED AC AND LINK /SHOULD EQUAL 00000  /RAR TEST 17 1664 7200 1665 7100 CMA 1667 7010 RAR 1670 7040 CMA 1671 7040 CMA 1672 7450 SNA 1672 7450 SNA 1673 7430 SEL 1674 7402 HLT /RAR FAILED AC AND LINK /RAR FAILED AC AND LINK				/ROTATE PATTERN
1636 7040 CMA 1637 7490 SNA 1640 7430 SPL 1641 7402 HLT /RAR FAILED AC AND LINK /SHOULD EQUAL 0000  /RAR TEST 15  1642 7280 CLA 1643 7100 CLL 1644 1026 TAD K0010 /ROTATE PATTERN 1646 1054 TAD K7773 1647 7040 CMA 1650 7450 SNA 1651 7430 SZL 1652 7402 HLT /RAR FAILED AC AND LINK /SHOULD EQUAL 0000  /RAR TEST 16 1653 7200 CLA 1654 7100 CLA 1655 1024 TAD K0004 /ROTATE PATTERN 1656 7010 RAR 1657 1053 TAD K7775 1660 7040 CMA 1661 7450 SNA 1662 7430 SZL 1663 7402 HLT /RAR FAILED AC AND LINK /SHOULD EQUAL 0000  /RAR TEST 17 1664 7200 CMA 1665 7100 CMA 1666 1022 TAD K0002 /ROTATE PATTERN 1667 7010 RAR 1670 7010 RAR 1671 7040 CMA 1672 7450 SNA 1672 7450 SZL 1671 7040 CMA 1672 7450 SZL 1671 7040 CMA 1673 7430 SZL 1673 7430 SZL 1674 7402 HLT /RAR FAILED AC AND LINK				
1637 7490 SNA 1640 7430 SEL 1641 7402 HLT /RAR FAILED AC AND LINK /SHOULD EQUAL 8000  /RAR TEST 15 1642 7280 CLA 1643 7100 CLA 1644 1026 TAD K8010 /ROTATE PATTERN 1645 7010 RAR 1646 1054 TAD K7773 1647 7040 SNA 1651 7430 SEL 1652 7402 HLT /RAR FAILED AC AND LINK /SHOULD EQUAL 8000  /RAR TEST 16 1653 7200 CLA 1654 7100 CLA 1655 1024 TAD K8004 /ROTATE PATTERN 1657 7010 RAR 1657 7010 RAR 1657 7010 RAR 1657 7400 SNA 1661 7450 SNA 1662 7430 SEL 1663 7402 HLT /RAR FAILED AC AND LINK /SHOULD EQUAL 8000  /RAR TEST 17 CLA 1664 7200 CMA 1665 7100 CMA 1666 1022 TAD K8002 /ROTATE PATTERN 1667 7010 RAR 1667 7010 RAR 1673 7400 CMA 1673 7400 CMA 1673 7400 CMA 1673 7400 CMA 1674 7402 HLT /RAR FAILED AC AND LINK				
1640 7430 SEL				
1641   7402			- •	
/RAR TEST 15  1642 7200 1643 7100 1644 1026 1740 CLL 1645 7010 1646 1054 1647 7040 1650 7450 1651 7430 1651 7430 1652 7402 1653 7200 1654 TAD K0014 1655 7010 RAR TEST 16 1653 7200 1654 TAD K0004 1655 1024 1655 7010 RAR 1657 1053 1667 7040 1670 1052 1671 7040 1671 7040 1673 7430 1673 7430 1673 7430 1674 7402 HLT /RAR FAILED AC AND LINK /RAR FAILED AC AND LINK /RAR TEST 17 1671 7040 1673 7450 1674 7402 HLT /RAR FAILED AC AND LINK				4848 MATERIA - M
/RAR TEST 15  1642 7200 1644 1026	1041	1402	H <u>L</u> !	
1642 7200 CLA 1643 7100 CLL 1644 1026 TAD K0010 /ROTATE PATTERN 1645 7010 RAR 1646 1054 TAD K7773 1647 7040 CMA 1650 7450 SNA 1651 7430 SZL 1652 7402 HLT /RAR FAILED AC AND LINK /SHOULD EQUAL 0000 /RAR TEST 16 1653 7200 CLA 1654 7100 CLA 1655 1024 TAD K0004 /ROTATE PATTERN 1657 1053 TAD K7775 1660 7040 CMA 1661 7450 SNA 1662 7430 SZL 1663 7402 HLT /RAR FAILED AC AND LINK /SHOULD EQUAL 0000 /RAR TEST 17 1664 7200 CMA 1665 7100 CLA 1667 7010 RAR 1670 1052 TAD K0002 /ROTATE PATTERN 1667 7010 RAR 1670 1052 TAD K0002 /ROTATE PATTERN 1670 1052 TAD K0002 /ROTATE PATTERN 1671 7040 CMA 1672 7450 SNA 1673 7430 SZL 1674 7402 HLT /RAR FAILED AC AND LINK			/DAD 7507 47	/SHOULD EQUAL 0000
1643 7100 CLL 1644 1026 TAD K0010 /ROTATE PATTERN 1645 7010 RAR 1646 1054 TAD K7773 1647 7040 CMA 1650 7490 SNA 1651 7430 SZL 1652 7402 HLT /RAR FAILED AC AND LINK /SHOULD EQUAL 0000 /RAR TEST 16 1653 7200 CLA 1654 7100 CLA 1655 1024 TAD K0004 /ROTATE PATTERN 1656 7010 RAR 1657 1053 TAD K7775 1660 7040 CMA 1661 7450 SNA 1662 7430 SZL 1663 7402 HLT /RAR FAILED AC AND LINK /SHOULD EQUAL 0000 /RAR TEST 17 CLA 1666 7000 CMA 1667 7000 CMA 1667 7010 RAR 1670 1052 TAD K0002 /ROTATE PATTERN 1667 7010 CMA 1671 7040 CMA 1672 7450 SNA 1672 7450 SNA 1673 7430 SZL 1674 7402 HLT /RAR FAILED AC AND LINK	4640	7080		
1644 1026 TAD K0010 /ROTATE PATTERN 1645 7010 RAR 1646 1054 TAD K7773 1647 7040 CMA 1650 7450 SNA 1651 7430 SZL 1652 7402 HLT /RAR FAILED AC AND LINK /SHOULD EQUAL 0000 /RAR TEST 16 1653 7200 CLA 1654 7100 RAR 1657 1053 TAD K7775 1660 7040 CMA 1661 7450 SNA 1662 7430 SZL 1663 7402 HLT /RAR FAILED AC AND LINK /RAR TEST 17 1664 7200 /RAR TEST 17 1664 7200 CLA 1667 7010 RAR 1667 7010 CLA 1667 7010 CLA 1667 7010 RAR 1670 1052 TAD K0002 /ROTATE PATTERN 1671 7040 CMA 1672 7450 SNA 1672 7450 SNA 1673 7430 SZL 1674 7402 HLT /RAR FAILED AC AND LINK				
1645 7010 RAR 1646 1054 TAD K7773 1647 7040 CMA 1650 7450 SNA 1651 7430 SEL 1652 7402 HLT /RAR FAILED AC AND LINK /SHOULD EQUAL 0000  /RAR TEST 16 1653 7200 CLA 1654 7100 CLL 1655 1024 TAD K0004 /ROTATE PATTERN 1657 1053 TAD K7775 1660 7040 CMA 1661 7450 SNA 1662 7430 SEL 1663 7402 HLT /RAR FAILED AC AND LINK /SHOULD EQUAL 0000  /RAR TEST 17 1664 7200 CLA 1665 7100 CLL 1666 1022 TAD K0002 /ROTATE PATTERN 1667 7010 RAR 1670 1052 TAD K0002 /ROTATE PATTERN 1671 7040 CMA 1672 7450 SNA 1672 7450 SNA 1672 7450 SNA 1673 7430 SEL 1674 7402 HLT /RAR FAILED AC AND LINK				ADATATE MATTERS
1646 1054 TAD K7773 1647 7040 CMA 1650 7450 SNA 1651 7430 SZL 1652 7402 HLT /RAR FAILED AC AND LINK /SHOULD EQUAL 0000  /RAR TEST 16 1653 7200 CLA 1654 7100 CLL 1655 1024 TAD K0004 /ROTATE PATTERN 1657 1053 TAD K7775 1660 7040 CMA 1661 7450 SNA 1662 7430 SZL 1663 7402 HLT /RAR FAILED AC AND LINK /SHOULD EQUAL 0000  /RAR TEST 17 1664 7200 /RAR TEST 17 1664 7200 CLL 1667 7010 CLA 1667 7010 RAR 1670 1052 TAD K0002 /ROTATE PATTERN 1671 7040 CMA 1672 7450 SNA 1672 7450 SNA 1672 7450 SNA 1673 7430 SZL 1674 7402 HLT /RAR FAILED AC AND LINK		•		PRUIATE PATTERN
1647 7040 CMA 1650 7450 SNA 1651 7430 SZL 1652 7402 HLT /RAR FAILED AC AND LINK /SHOULD EQUAL 00000  /RAR TEST 16 CLA 1654 7100 CLA 1655 1024 TAD K0004 /ROTATE PATTERN 1657 1053 TAD K7775 1660 7040 CMA 1661 7450 SNA 1662 7430 SZL 1663 7402 HLT /RAR FAILED AC AND LINK /SHOULD EQUAL 00000  /RAR TEST 17 CLA CLL 1666 1022 TAD K0002 /ROTATE PATTERN 1667 7010 RAR 1670 1052 TAD K0002 /ROTATE PATTERN 1671 7040 CMA 1672 7450 SNA 1673 7430 SZL 1674 7402 HLT /RAR FAILED AC AND LINK				
1650 7450 SNA 1651 7430 SZL 1652 7402 HLT /RAR FAILED AC AND LINK /SHOULD EQUAL 0000  /RAR TEST 16 1653 7200 CLA 1654 7100 CLL 1655 1024 TAD K0004 /ROTATE PATTERN 1657 1053 TAD K7775 1660 7040 CMA 1661 7450 SNA 1662 7430 SZL 1663 7402 HLT /RAR FAILED AC AND LINK /SHOULD EQUAL 0000 /RAR TEST 17 1664 7200 CLA 1665 7100 CLL 1666 1022 TAD K0002 /ROTATE PATTERN 1677 7010 RAR 1670 1052 TAD K7776 1671 7040 CMA 1672 7450 SNA 1672 7450 SNA 1673 7430 SZL 1674 7402 HLT /RAR FAILED AC AND LINK	_			
1651 7430 SZL 1652 7402 HLT /RAR FAILED AC AND LINK /SHOULD EQUAL 0000 /RAR TEST 16 1653 7200 CLA 1654 7100 CLL 1655 1024 TAD K0004 /ROTATE PATTERN 1656 7010 RAR 1657 1053 TAD K7775 1660 7040 CMA 1661 7450 SNA 1662 7430 SZL 1663 7402 HLT /RAR FAILED AC AND LINK /SHOULD EQUAL 0000 /RAR TEST 17 1664 7200 CLA 1665 7100 CLL 1666 1022 TAD K0002 /ROTATE PATTERN 1670 1052 TAD K7776 1671 7040 CMA 1672 7450 SNA 1673 7430 SZL 1674 7402 HLT /RAR FAILED AC AND LINK				
1652 7402		7430		
/RAR TEST 16  1653 7200		7402		/RAR FAILED AC AND LINK
/RAR TEST 16  1653 7200				/SHOULD EQUAL DOOR
1694 7100 CLL 1695 1024 TAD K0004 /ROTATE PATTERN 1696 7010 RAR 1697 1093 TAD K7775 1660 7040 CMA 1661 7450 SNA 1662 7430 SEL 1663 7402 HLT /RAR FAILED AC AND LINK /SHOULD EQUAL 0000 /RAR TEST 17 1664 7200 CLA 1665 7100 CLL 1666 1022 TAD K0002 /ROTATE PATTERN 1667 7010 RAR 1670 1052 TAD K7776 1671 7040 CMA 1672 7450 SNA 1673 7430 SEL 1674 7402 HLT /RAR FAILED AC AND LINK			/RAR TEST 16	
1655 1024 TAD K0004 /ROTATE PATTERN 1656 7010 RAR 1657 1053 TAD K7775 1660 7040 CMA 1661 7450 SNA 1662 7430 SEL 1663 7402 HLT /RAR FAILED AC AND LINK /SHOULD EQUAL 0000 /RAR TEST 17 1644 7200 CLA 1665 7100 CLL 1666 1022 TAD K0002 /ROTATE PATTERN 1670 1052 TAD K7776 1671 7040 CMA 1672 7450 SNA 1673 7430 SEL 1674 7402 HLT /RAR FAILED AC AND LINK			CLÁ	
1656 7010 RAR 1657 1053 TAD K7775 1660 7040 CMA 1661 7450 SNA 1662 7430 SEL 1663 7402 HLT /RAR FAILED AC AND LINK /SHOULD EQUAL 0000 /RAR TEST 17 1664 7200 CLA 1665 7100 CLL 1666 1022 TAD K0002 /ROTATE PATTERN 1670 1052 TAD K7776 1671 7040 CMA 1672 7450 SNA 1673 7430 SEL 1674 7402 HLT /RAR FAILED AC AND LINK			CLL	
1657 1053 TAD K7775 1660 7040 CMA 1661 7450 SNA 1662 7430 SEL 1663 7402 HLT /RAR FAILED AC AND LINK /SHOULD EQUAL 0000 /RAR TEST 17 1664 7200 CLA 1665 7100 CLL 1666 1022 TAD K0002 /ROTATE PATTERN 1670 1052 TAD K7776 1671 7040 CMA 1672 7450 SNA 1673 7430 SEL 1674 7402 HLT /RAR FAILED AC AND LINK		**	TAD KØØØ4	/ROTATE PATTERN
1660 7040 CMA 1661 7450 SNA 1662 7430 SEL 1663 7402 HLT /RAR FAILED AC AND LINK /SHOULD EQUAL 0000 /RAR TEST 17 1664 7200 CLA 1665 7100 CLL 1666 1022 TAD K0002 /ROTATE PATTERN 1670 1052 TAD K7776 1671 7040 CMA 1672 7450 SNA 1673 7430 SEL 1674 7402 HLT /RAR FAILED AC AND LINK			· · · · · · · · · · · · · · · · · · ·	
1661 7450 SNA 1662 7430 SZL 1663 7482 HLT /RAR FAILED AC AND LINK /SHOULD EQUAL 0000  /RAR TEST 17 1664 7200 CLA 1665 7100 CLL 1666 1022 TAD K0002 /ROTATE PATTERN 1667 7010 RAR 1670 1052 TAD K7776 1671 7040 CMA 1672 7450 SNA 1673 7430 SZL 1674 7402 HLT /RAR FAILED AC AND LINK		_		
1662 7430 SZL 1663 7402 HLT /RAR FAILED AC AND LINK /SHOULD EQUAL 0000 /RAR TEST 17 1664 7200 CLA 1665 7100 CLL 1666 1022 TAD K0002 /ROTATE PATTERN 1667 7010 RAR 1670 1052 TAD K7776 1671 7040 CMA 1672 7450 SNA 1673 7430 SZL 1674 7402 HLT /RAR FAILED AC AND LINK				
1663 7402 HLT /RAR FAILED AC AND LINK /SHOULD EQUAL 0000 /RAR TEST 17 1664 7200 CLA 1665 7100 CLL 1666 1022 TAD K0002 /ROTATE PATTERN 1667 7010 RAR 1670 1052 TAD K7776 1671 7040 CMA 1672 7450 SNA 1673 7430 SZL 1674 7402 HLT /RAR FAILED AC AND LINK				
/SHOULD EQUAL 0000 /RAR TEST 17 1664 7200 CLA 1665 7100 CLL 1666 1022 TAD K0002 /ROTATE PATTERN 1667 7010 RAR 1670 1052 TAD K7776 1671 7040 CMA 1672 7450 SNA 1673 7430 SZL 1674 7402 HLT /RAR FAILED AC AND LINK			2 € 1	1010 511 50 6 115 115
/RAR TEST 17 1664 7200	1063	7402	HL T	PRAR FAILED AC AND LINK
1664 7200 CLA 1665 7100 CLL 1666 1022 TAD K0002 /ROTATE PATTERN 1667 7010 RAR 1670 1052 TAD K7776 1671 7040 CMA 1672 7450 SNA 1673 7430 SZL 1674 7402 HLT /RAR FAILED AC AND LINK			ADAR TECH AN	/SHOULD EQUAL 0000
1665 7100 CLL 1666 1022 TAD K0002 /ROTATE PATTERN 1667 7010 RAR 1670 1052 TAD K7776 1671 7040 CMA 1672 7450 SNA 1673 7430 SZL 1674 7402 HLT /RAR FAILED AC AND LINK	1644	7200		
1666 1022 TAD K0002 /ROTATE PATTERN 1667 7010 RAR 1670 1052 TAD K7776 1671 7040 CMA 1672 7450 SNA 1673 7430 SZL 1674 7402 HLT /RAR FAILED AC AND LINK				
1667 7010 RAR 1670 1052 TAD K7776 1671 7040 CMA 1672 7450 SNA 1673 7430 SZL 1674 7402 HLT /RAR FAILED AC AND LINK			- <del></del>	408141E 841750u
1670 1052 TAD K7776 1671 7040 CMA 1672 7450 SNA 1673 7430 SZL 1674 7402 HLT /RAR FAILED AC AND LINK				PRUIAIL PATIERN
1671 7040 CMA 1672 7450 SNA 1673 7430 SZL 1674 7402 HLT /RAR FAILED AC AND LINK				
1672 7450 SNA 1673 7430 SZL 1674 7402 HLT /RAR FAILED AC AND LINK				
1673 7430 SZL 1674 7402 HLT /RAR FAILED AC AND LINK				
1674 7402 HLT /RAR FAILED AC AND LINK				
		-		ZRAR FATLED AC AND LINK
		•		SHOULD EQUAL DODD

/PDP-8/E	INSTR	UCTION	TEST	1	MAIND	EC-8E-DØAB	PAL18	V141	9-JUN-71	16:26	PAGE 1-23
			/R	A R	TEST 1	Ω					
	1675	7200	• • • • • • • • • • • • • • • • • • • •	77	CLA						
	1676				CLL						
	1677					K0001		400= 471			
	1700				RAR			PRUTAIL	E PATTERN		
	1701					K7777					
	1702				CHA						
	1703				SNA						
	1704	7420			SNL						
	1705				HLT		/DAD EA	LIEB AC	AND I THE		
		_					/SHOULD	TED AC	AND LINK		
			/R'	TR	TEST 1		7340050	EWUAL E	000		
	1786	7200	, ,,		CLÂ						
	1787	7100			CLL						
	1710	1022				KØØØ2		/PATATE	PATTERN		
	1711	7012			RTR			PADIATE	PATIERN		
	1712	7420			SNL	7					
	1713	7402			HL T		ATE EN	1: FD . IN	K DROPPED		
							ZA RIT I	INA CHU	ULD EQUAL A DI	A 1 #P	
			/R1	'R 1	TEST 2		, w 01, f	THE SHO	OFD EMOYE & DI	NĻ	
	1714	7200			CLA	•					
	1715	7100			CLL						
	1716	1020			TAD	K0000		/BOTATE	PATTERN		
	1717	7012			RTR			PROTATE	FALIENN		
	1720	7448			SZA						
	1721	7402			HLT		/RTR FAI	LED AC	PICKED UP A B	. 7	
					-		/A ONE	N AC FO	UALS THE PICK	il Palla a.e.	
			/RT	RT	EST 3				OWER LICKS	TO OF BIL	
		7200			CLA						
	1723	7100			CLL						
	1724	1020				K0000		/ROTATE	PATTERN		
		7012			RTR						
	1726	7430			SŽL						
	1727	7402			HLT		/RTR LIN	K PICKE	D UP A BIT		
							/LINK SH	OULD EQ	UAL ZERO		
	47=4	2000	/RT	R T	EST 4						
	173Ø 1731	7200			CLA						
	1732	7100 7020			CLL						
	1733	7020 1020			CML	<b>466</b>					
	1734	7012				K0000		/ROTATE	PATTERN		
	1735	7430			RTR						
	1736				SZL						
	1/30	, ,,,,			HLT		JRTR LIN	K PICKED	UP A BIT		
							ILINK SH	OULD EGI	JAL ZERO		
			/RTS	? TI	EST 5						
	1737	7200	, ., . ,	,	CLA						
	1740	7100			CLL					•	
	1741	7828			CML						
		1067			TAD	K7777		/RATATE	PATTERN		
	1743	7012			RTR		•	FRUIAIL	FALIENN .		
	1744	7040			CMA						
:	1745	7440			SZA						

/PDP-8/E	INSTR	UCTION	TEST	1 M/	INDE	C-8E-DØAB	PAL10	V141	9-JUN-71	16:26	PAGE 1-24
	1746	7482			нцт		/RTR AC	DROPPED	A BIT A ONE IN		7 70 2 2 2
							/AC EQU	ALS THE	DROPPED BIT		
	4747	7280	/R	TR TES							
	1747 1750	7200 7100			CLA						
	1751	7020			CLL						
	1752	1020			CML	vaaaa					
	1753	7012			RTR	K0000		/ROTATE	PATTERN		
	1754	1065				K5777					
	1755	7040			CMA	NJ///					
	1756	7450			SNA						
	1757	7430			SZL						
	1760	7402			HLT		/RTR FAT	LED AC A	ND I TNE		
					-		/SHOULD	EQUAL BO	IND LINN		
			/RT	R TES	T 7			rear De			
	1761	7200			CLA						
	1762	7100			CLL						
	1763	1050				(4000		/ROTATE	PATTERN		
	1764	7012 1064			RTR						
	1766	7040				(6777					
	1767	7450			CMA						
	1770	7430			SNA Sæl						
	1771	7402			de T		/DTD 541		A180 1 8 A114		
					T (		/RTR FAI	LED AU A	ND LINK		
			/RT	R TES	r a		/SHOULD	FROAL DO	96		
	1772	7200	* ** *		LA						
	1773	7100			LL						
	1774	1045			AD K	2000		/ROTATE	PATTERN		
	1775	7812			TR			,	. M		
	1776	1063			'AD K	7377					
	1777	7848			MA						
	2000	7450			NA ·						
	20 <b>01</b> 2002	743Ø 7402			ZL		.==				
	CDDC	, ,,,,,		H	LT		/RTR FAIL	ED AC AN	ND LINK		
							/SHOULD	EGUAL 908	90		
			/RTF	TEST	9						
	2003	7200		C	LA				•		
	2004	7100		C	LL						
	2005	1842			AD K	1000	/	ROTATE P	PATTERN		
	2006	7012			TR						
		1062			AD K7	7577					
		7040 7450			MA						
		7430			NA						
		7402			EL		40T0 E4+1	<b>55</b> . <b>5</b>			
•				-	bs !		ARTR FAIL	EU AC AN	D LINK		
			/RTR	TEST	10		VSHOULD E	MOYF AND	<b>D</b>		
		7200			Ā						
2		7100		C	. L						
		1040		T	O KØ	400	/	ROTAATE	PATTERN		
		7012			rR		·		, . = 1111		
2	8020	1061		T	10 K7	677					

/PDP-8/E INSTR	UCTION	TEST	1 MAINDEC-8E-DØAB	PAL10	V141	9-JUN-71	16:26	PAGE 1-25
2021	7949		CMA					
	7450		SNA					
2023			SZL					
2024			SEL HLT	40.TD				
	,		7 L	ZEHOULE	EQUAL	AND LINK		
		∕RT	R TEST 11	73110021	EWUAL	6666		
2025	7200	, ., .	CLA					
	7100		輼					
2027			TAD KØ2ØØ		400TAT	E PATTERN		
2030			RTR		ZKUTAT	E PALLERN		
2031			TAD K7737					
2032			CMA					
2033			SNA					
2034			SZL					
2035			HLT	/DT0 FA		****		
			76	ZEHOULD	ILEU AU	AND LINK		
		/RT	R TEST 12	730000	EQUAL	8888		
2036	7200	, ,,	CLA					
2037			CLL					
2040	1034		TAD KØ100		4DBTAT	C 847785		
2041	7012		RTR		PRUIAII	E PATTERN .		
2842			TAD K7757					
2043	7849		CMA					
2844	7450		SNA					
	7430		SZL					
2846	7402		HLT	ADTO EA				
			17. E. I	/SHOULD	ILEU AC	AND LINK		
				7380000	FROAL	9999		
		/RTI	R TEST 13					
	7200		CLA					
2050	7100		CLL					
2051	1032		TAD KØØ4Ø		/ROTATE	PATTERN		
2052	7012		RTR					
2053	1055		TAD K7767					
2054	7040		CMA					
2055	7450		SNA					
2056	7430		SZĻ					
2057	7402		HLT	/RTR FAT	LED AC	AND LINK		
				/SHOULD	EQUAL 0	888		
0010	<b>300</b>	/RTR	TEST 14		_			
2060	7200		CLA					
2061	7100		CLL			•		· <b>.</b>
2062	1030		TAD KØØ2Ø		/ROTATE	PATTERN		
2063	7012		RTR	-				
2064	1054		TAD K7773					
2065	7040		CMA					
2066	7450		SNA					
2067	7430		SZL					
2070	7402		HLT	/RTR FAI	LED AC	AND LINK		
				/SHOULD	EQUAL Ø	000		
20-1	=00-	/RTR	TEST 15		· · · ·	_		
2071	7200		CLA					
2072	7100		CLL					
2073	1026		TAD KØØ1Ø		/ROTATE	PATTERN		

2075 1053 TAD K7775 2075 7040 CHA 2077 7420 SNA 2100 7420 SNA 2100 7420 H.T SHOULD EQUAL 0000  /RTR TEST 16 2102 TAS SNA 2101 7422 TAD K7776 2104 TAS SNA 2105 1052 TAS SNA 2110 1050 SNA 2110 1050 SNA 2110 1050 SNA 2110 1050 SNA 2111 1050 CLA 2111 1050 SNA 2111 1050 SNA 2112 1050 SNA 2112 1050 SNA 2113 1050 SNA 2114 1052 TAS SNA 2115 1050 SNA 2117 1050 SN	/PDP-8/E	INSTRU	CTION	TEST	1	MAINDE	C-8E-DØAB	PAL1Ø	V141	9-JUN-71	16126	PAGE	1-26
2075 1093 TAD K7775 2076 7040 CMA 2077 7450 SNA 2100 7430 S2L 2101 7482 HLT /SHOULD EQUAL 00000  /RTR TEST 16 2102 1024 RTR 2105 1092 RTR 2105 7040 CMA 2107 7450 SNA 2110 7040 CMA 2110 7040 SNA 2110 7040 SNA 2111 7040 SNA 2111 7040 SNA 2112 7050 SNA 2112 7050 SNA 2113 7050 SNA 2115 7050 SNA 2115 7050 SNA 2117		2074	7012			RTR							
2076 7040 CMA 2077 7450 SNA 2100 7430 SPL 2101 7402 SPL 2101 7402 SPL 2101 7402 SPL 2101 7402 SPL 2102 7308 CLA CLL 2103 1024 TAD K0004 /ROTATE PATTERN 2104 7012 RTR 2105 7040 CMA 2107 7450 SNA 2110 7450 SNA 2110 7450 SNA 2111 7402 HLT /RTR FAILED AC AND LINK 2111 7402 HLT /RTR FAILED AC AND LINK 2111 7402 SNA 2111 7402 SNA 2112 7200 CLA 2113 7100 CLL 2114 1022 TAD K0002 /ROTATE PATTERN 2115 7012 RTR 2116 7450 SNA 2117 7420 CLA 2121 7420 CLA 2122 7430 SNA 2123 7430 SPL 2131 7440 SPL 2131							K7775						
2077 7450 SNA 2100 7330 S2L 2101 7402 HLT													
2180 7482   SEL													
### ATT													
/RTR TEST 16  2182 7388								ATR FA	ILED AC	AND LINK			
2182 7308		210-	_					/SHOULD	EQUAL !	00 <b>00</b>			
2182 7308				/R	TR 1	TEST 16	)						
TAD MODE		2102	7300	·									
2164 7012 RTR 2105 1082 TAD K7776 2106 7040 CMA 2107 7450 SNA 2111 7482 HLT /RTR FAILED AC AND LINK /RTR TEST 17 2112 7200 CLA 2113 7100 CLL 2114 1022 TAD K0002 /ROTATE PATTERN 2115 7012 RTR 2116 7450 SNA 2117 7420 SNA 2117 7420 SNA 2117 7420 SNA 2120 7482 HLT /RTR FAILED, AC SHOULD EQUAL /ROTATE PATTERN  2121 7280 CLA 2122 7180 CLL 2123 1021 TAD K0001 /ROTATE PATTERN  2124 7012 RTR 2125 1066 TAD K3777 2126 7040 CMA 2127 7450 SNA 2127 7450 SNA 2127 7450 SNA 2130 7430 SEL 2131 7482 HLT /RTR FAILED, AC AND LINK /RAL TEST 1 2132 7286 CLA 2133 7180 CLL 2134 1050 TAD K4000 /ROTATE PATTERN 2135 7604 RAL 2136 7430 SEL 2137 7440 SEA								/ROTATE	PATTER	N			
2185 1052 TAD K7776 2186 7048 CMA 2197 7458 SNA 2118 7439 SPL 2111 7482 MLT /RTR FAILED AC AND LINK 2111 7482 MLT /SHOULD EQUAL 8088  /RTR TEST 17  2112 7280 CLA 2113 7180 CLL 2114 1022 TAD K8082 /ROTATE PATTERN 2115 7012 RTR 2116 7450 SNA 2117 7420 SNL 2120 7482 HLT /RTR FAILED, AC SHOULD EQUAL 2120 7482 HLT /RTR FAILED, AC SHOULD EQUAL 2121 7280 CLA 2122 7180 CLL 2123 1021 TAD K8081 /ROTATE PATTERN 2124 7032 RTR 2125 7040 CHA 2127 7450 SNA 2127 7450 SRA 2127 7450 SRA 2137 7462 HLT /RTR FAILED, AC AND LINK /RAL TEST 1 2132 7286 CLA 2133 7180 CLL 2134 1050 TAD K4080 /ROTATE PATTERN 2135 7604 RAL 2136 7430 SEL 2137 7440 SEA		2104				RTR							
2186 7048 CMA 2187 7458 SNA 2118 7438 S2L 2111 7482 HLT /RTR FAILED AC AND LINK 2111 7482 HLT /SHOULD EQUAL 8088  /RTR TEST 17  2112 7280 CLA 2113 7180 CLL 2114 1022 TAD K8002 /ROTATE PATTERN 2116 7458 SNA 2117 7428 SNL 2117 7428 SNL 2127 7428 HLT /RTR FAILED. AC SHOULD EQUAL 2128 7482 HLT /8088, LINK SHOULD EQUAL ONE  /RTR TEST 18  2121 7288 CLA 2122 7188 CLL 2124 7612 RTR 2125 1866 TAD K80777 2126 7048 CMA 2127 7459 SNA 2137 7458 S2L 2131 7482 HLT /RTR FAILED. AC AND LINK /RAL TEST 1  2132 7288 CLA 2133 7188 CLA 2133 7188 CLA 2133 7188 CLA 2135 7284 RAL 2136 7438 S2L 2136 7438 S2L 2137 7488 S2L			1052			TAD	K7776						
2107 7458 SNA 2110 7482 HLT /RTR FAILED AC AND LINK /SHOULD EQUAL 8000  /RTR TEST 17  2112 7280 CLA 2113 7100 CLL 2114 1022 TAD K8002 /ROTATE PATTERN 2115 7012 RTR 2116 7450 SNA 2117 7420 SNL 2120 7482 MLT /RTR FAILED, AC SHOULD EQUAL /80000, LINK SHOULD EQUAL ONE  /RTR TEST 18  2121 7280 CLA 2122 7180 CLL 2123 1021 TAD K8001 /ROTATE PATTERN 2126 7000 CHA 2127 7450 SNA 2130 7450 SNA 2130 7450 SNA 2130 7450 SNA 2131 7462 HLT /RTR FAILED, AC AND LINK /RAL TEST 1  2152 7286 CLA 2133 7186 CLL 2134 1056 TAD K4000 /ROTATE PATTERN  /RAL TEST 1  2152 7286 CLA 2135 7604 RAL 2136 7430 SEL 2137 7440 SEA			7040			CMA							
### ART FAILED AC AND LINK			7450										
/RTR TEST 17  2112 7280		2110						.575 54	4	C AND LINK			
/RTR TEST 17 2112 7200		2111	7402			HLT							
2112 7280								/240050	FACNE	n n n n			
2112 7280 CLA 2113 7100 CLL 2114 1022 TAD K0002 /ROTATE PATTERN 2115 7012 RTR 2116 7450 SNA 2117 7420 SNL 2120 7402 HLT /ROTATE PATTERN  2121 7280 CLA 2122 7100 CLA 2122 7100 CLA 2123 1021 TAD K0001 /ROTATE PATTERN  2124 7012 RTR 2125 1066 TAD K0777 2126 7040 CMA 2127 7450 SNA 2130 7430 SEL 2131 7402 HLT /RTR FAILED, AC AND LINK /RAL TEST 1  2132 7286 CLA 2133 7100 CMA 2134 1056 TAD K000 /ROTATE PATTERN  2135 7004 RAL 2135 7004 RAL 2136 7430 SEL 2137 7440 SEA													
2112 7280 CLA 2113 7100 CLL 2114 1022 TAD K0002 /ROTATE PATTERN 2115 7012 RTR 2116 7450 SNA 2117 7420 SNL 2120 7402 HLT /ROTATE PATTERN  2121 7280 CLA 2122 7100 CLA 2122 7100 CLA 2123 1021 TAD K0001 /ROTATE PATTERN  2124 7012 RTR 2125 1066 TAD K0777 2126 7040 CMA 2127 7450 SNA 2130 7430 SEL 2131 7402 HLT /RTR FAILED, AC AND LINK /RAL TEST 1  2132 7286 CLA 2133 7100 CMA 2134 1056 TAD K000 /ROTATE PATTERN  2135 7004 RAL 2135 7004 RAL 2136 7430 SEL 2137 7440 SEA				/ P	TP 1	FST 17	•						
2113 7100 CLL 2114 1022 TAD K0002 /ROTATE PATTERN 2115 7012 RTR 2116 7450 SNA 2117 7420 SNL 2120 7402 HLT /0000, LINK SHOULD EQUAL /0000, LINK SHOULD EQUAL ONE /RTR TEST 16  2121 7200 CLA 2122 7100 CLA 2122 7100 CLA 2123 1021 TAD K0001 /ROTATE PATTERN 2124 7012 RTR 2125 1066 TAD K3777 2126 7040 CMA 2127 7450 SNA 2130 7430 SEL 2131 7402 HLT /RTR FAILED. AC AND LINK /SHOULD BE ZERO /RAL TEST 1 2132 7200 CLA 2133 7100 CMA 2133 7100 CMA 2134 1050 TAD K4000 /ROTATE PATTERN 2135 7004 RAL 2136 7430 SEL 2137 7440 SEA		2442	7280	//									
114													
2115 7012 RTR 2116 7450 SNA 2117 7420 SNL 2120 7482 HLT /RTR FAILED. AC SHOULD EQUAL 2120 7482 HLT /8000, LINK SHOULD EQUAL 2121 7280 CLA 2122 7180 CLL 2123 1021 TAD K0001 /ROTATE PATTERN 2124 7012 RTR 2125 1066 TAD K3777 2126 7040 CMA 2127 7450 SNA 2130 7430 SZL 2131 7482 HLT /RTR FAILED. AC AND LINK 2132 7280 CLA 2133 7180 CLA 2133 7180 CLA 2134 1050 TAD K4000 /ROTATE PATTERN 2135 7004 RAL 2136 7430 SEL 2137 7440 SZA							K B B B 2		/ROTATI	E PATTERN			
2116 7450 SNA 2117 7420 SNL 2120 7482 HLT /RTR FAILED, AC SHOULD EQUAL 2121 7200 /RTR TEST 18 2121 7200 CLA 2122 7180 CLL 2123 1021 TAD K0001 /ROTATE PATTERN 2124 7012 RTR 2125 1066 TAD K3777 2126 7040 CMA 2127 7450 SNA 2130 7430 SEL 2131 7402 HLT /RTR FAILED, AC AND LINK /RAL TEST 1 2132 7280 CLA 2133 7100 CLL 2134 1050 TAD K4000 /ROTATE PATTERN 2135 7004 RAL 2136 7430 SEL 2137 7004 RAL 2137 7440 SEA									•				
2117 7420 SNL 2120 7482 HLT /RTR FAILED. AC SHOULD EQUAL 2121 7280 CLA 2122 7180 CLL 2123 1821 TAD K8881 /ROTATE PATTERN 2124 7812 RTR 2125 1866 TAD K3777 2126 7848 CMA 2127 7458 SNA 2138 7438 SZL 2131 7482 HLT /RTR FAILED. AC AND LINK /RTR FAILED. AC AND LINK /SHOULD BE ZERO  /RAL TEST 1 2132 7288 CLA 2133 7188 CLL 2134 1058 TAD K4888 /ROTATE PATTERN 2135 7448 SZL 2137 7448 SZL													
7482 HLT /RTR FAILED. AC SHOULD EQUAL ONE  /RTR TEST 18  2121 7200 CLA 2122 7100 CLL 2133 1021 TAD K0001 /ROTATE PATTERN  2124 7012 RTR 2125 1066 TAD K3777 2126 7040 CMA 2127 7450 SNA 2130 7430 SEL 2131 7402 HLT /RTR FAILED. AC AND LINK /SHOULD BE ZERO  /RAL TEST 1  2132 7200 CLA 2133 7100 CLL 2134 1050 TAD K4000 /ROTATE PATTERN  2135 7430 SEL 2137 7440 SEL 2137 7440 SEL 2137 7440 SEL 2137 7440 SEL													
/RTR TEST 18  2121 7200													
2121 7288 CLA 2122 7188 CLL 2123 1821 TAD K8881 /ROTATE PATTERN 2124 7812 RTR 2125 1866 TAD K3777 2126 7848 CMA 2127 7458 SNA 2138 7438 SZL 2131 7482 HLT /RTR FAILED. AC AND LINK /SHOULD BE ZERO /RAL TEST 1 2132 7288 CLA 2133 7188 CLL 2134 1858 TAD K4888 /ROTATE PATTERN 2135 7884 SZL 2136 7438 SZL 2137 7448 SZA		TIED	,					/8888.	LINK SH	OULD EQUAL ONE			
2121 7288 CLA 2122 7188 CLL 2123 1821 TAD K8881 /ROTATE PATTERN 2124 7812 RTR 2125 1866 TAD K3777 2126 7848 CMA 2127 7458 SNA 2138 7438 SZL 2131 7482 HLT /RTR FAILED. AC AND LINK /SHOULD BE ZERO /RAL TEST 1 2132 7288 CLA 2133 7188 CLL 2134 1858 TAD K4888 /ROTATE PATTERN 2135 7884 SZL 2136 7438 SZL 2137 7448 SZA				/R	TR 1	EST 18	}						
2122 7188 CLL 2123 1021 TAO K0001 /ROTATE PATTERN 2124 7012 RTR 2125 1066 TAD K3777 2126 7040 CMA 2127 7450 SNA 2130 7430 SEL 2131 7482 HLT /RTR FAILED. AC AND LINK /SHOULD BE ZERO /RAL TEST 1 2132 7280 CLA 2133 7180 CLL 2134 1050 TAD K4000 /ROTATE PATTERN 2135 7004 RAL 2136 7430 SEL 2137 7440 SEA	•	2121	7200			CLA							
2123 1021 TAD K0001 /ROTATE PATTERN 2124 7012 RTR 2125 1066 TAD K3777 2126 7040 CMA 2127 7450 SNA 2130 7430 SEL 2131 7402 HLT /RTR FAILED. AC AND LINK /SHOULD BE ZERO  /RAL TEST 1 2132 7200 CLA 2133 7100 CLL 2134 1050 TAD K4000 /ROTATE PATTERN 2135 7004 RAL 2136 7430 SEL 2137 7440 SEA						CLL							
2125 1066 TAD K3777 2126 7040 CMA 2127 7450 SNA 2130 7430 SEL 2131 7402 HLT /RTR FAILED. AC AND LINK /SHOULD BE ZERO  /RAL TEST 1  2132 7200 CLA 2133 7100 CLL 2134 1050 TAD K4000 /ROTATE PATTERN 2135 7004 RAL 2136 7430 SEL 2137 7440 SEA			1021				K0001		PROTAT	E PALIENN			
2126 7040 CMA 2127 7450 SNA 2130 7430 SEL 2131 7402 HLT /RTR FAILED. AC AND LINK /SHOULD BE ZERO  /RAL TEST 1  2132 7200 CLA 2133 7100 CLL 2134 1050 TAD K4000 /ROTATE PATTERN 2135 7004 RAL 2136 7430 SEL 2137 7440 SEA						RTR							
2127 7450 SNA 2130 7430 SEL 2131 7402 HLT /RTR FAILED. AC AND LINK /SHOULD BE ZERO  /RAL TEST 1  2132 7200 CLA 2133 7100 CLL 2134 1050 TAD K4000 /ROTATE PATTERN  2135 7004 RAL 2136 7430 SEL 2137 7440 SEA							K3777						
2130 7430 SEL /RTR FAILED. AC AND LINK /SHOULD BE ZERO  /RAL TEST 1  2132 7200 CLA 2133 7100 CLL 2134 1050 TAD K4000 /ROTATE PATTERN 2135 7004 RAL 2136 7430 SEL 2137 7440 SEA													
2131 7402 HLT /RTR FAILED. AC AND LINK /SHOULD BE ZERO  /RAL TEST 1  2132 7200 CLA 2133 7100 CLL 2134 1050 TAD K4000 /ROTATE PATTERN  2135 7004 RAL 2136 7430 SEL 2137 7440 SEA													
/SHOULD BE ZERO  /RAL TEST 1  2132 7200 CLA  2133 7100 CLL  2134 1050 TAD K4000 /ROTATE PATTERN  2135 7004 RAL  2136 7430 SEL  2137 7440 SZA								/DTD EA	TIED A	C AND LINK			
/RAL TEST 1 2132 7200 CLA 2133 7100 CLL 2134 1050 TAD K4000 /ROTATE PATTERN 2135 7004 RAL 2136 7430 SEL 2137 7440 SEA		2131	7482			M.C.							
2132 7288 CLA 2133 7188 CLL 2134 1058 TAD K4000 /ROTATE PATTERN 2135 7004 RAL 2136 7430 SEL 2137 7440 SEA				10	A1 . 1	FST 4		, 5110060	~~ ~~	-			
2133 7180 CLL 2134 1050 TAD K4000 /ROTATE PATTERN 2135 7004 RAL 2136 7430 SEL 2137 7440 SEA		04.80	7288	/ K	m (- 1								
2134 1050 TAD K4000 /ROTATE PATTERN 2135 7004 RAL 2136 7430 SEL 2137 7440 SEA													
2135 7004 RAL 2136 7430 SEL 2137 7440 SEA						TAD	K4000		/ROTAT	E PATTERN			
2136 7430 SEL 2137 7440 SEA										•			
2137 7440 SEA													
2140 7402 HLT /RAL FAILED, AC SHOULD EQUAL 8000						HLT		/RAL FA	ILED. A	C SHOULD EQUAL	9000		
/LINK SHOULD EQUAL ONE.		E 1 7 D				•							
/RAL TEST 2				/R	AL T	EST 2							
2141 7200 CLA		2141	7200										
2142 7100 CLL						CLL				E			
2143 1020 TAD K0000 /ROTATE PATTERN							K0000		/ROTAT	E PATTERN			
2144 7004 RAL													
2145 7420 SNL													
2146 7440 SEA			7440			SZA							

/PDP-8/E INST	RUCTION	TEST 1	MAINDE	C-8E-06AB	PAL10	V141	9-JUN-71	16:26	PAGE 1-27
214	7402		HLT				C SHOULD EQUAL Gual Zero	. 0000	
		/RAL	TEST 3						
215	50 7200		CLA						
219	51 712Ø		CLL						
21!			CML						
21!				K0000		/ROTAT	E PATTERN. LIN	AK = I	
	7024		RAL						
21			SZL		/DA1 EA	1: 1105	AC SHOULD EQUA	u daas	
21!	36 7402		HLT				QUAL ZERO	IL DEST	
			TEST 4						
	7 7280		CLA						
210			CLL						
210			CML	W3333		400441			
210				K7777		ZKUTAT	TE PATTERN. LIN	AK-1	
210			RAL						
21(	54 7040 55 7440		CMA SZA						
210			HLT HLT		/RAL FA	ILURE.	LINK SHOULD EG	DUAL ONE	
					/AC SHO	IULD EQL	JAL ØØØØ		
		/RAL	TEST 5						
	7 7288		CLA						
	7100		CLL	V2000		/PATA1	E PATTERN		
21; 21;				K2000		AUDIA	C FAITENN		
21:			RAL	K3777			_		
21			CMA	NO///					
	7 7450		SNA						
21	6 7430		SEL						
213	7 7482		HLT				AC SHOULD EQUAL ONE	AL ØØØØ	
		/RAL	TEST 6		SP SIGN S	HOULD 6			
221	0 7200	F 11116	CLA						
221			CLL						
221	2 1042		TAD	K1000		/ROTAT	TE PATTERN		
221			RAL						
221				K5777					
221			CMA						
221	16 7448		ASS		40 A) E4	111100	AC SHOULD EQUA	A1 0000	
221	7 7482		HLT				QUAL ZERO	AL DEED	
		/RAI	TEST 7						
22:	8 7200		CLA						
22:			CLL						
22:	2 1040			K0400		/ROTA	TE PATTERN		
	3 7984		RAL						
22:				K6777					
	5 7040		CMA						
	16 7450		SNA						
22:	7430		SZL						

/PDP-8/E INSTRUCTION TEST 1 MAINDEC-8E-DØAB	PAL10 V141 9-JUN-71 16:26 PAGE 1-28
22 <b>20 7402</b> HLT	/RAL FAILURE. AC SHOULD EQUAL 0000 /Link should equal Zero
ADAL TECT A	
/RAL TEST 8 2221 7200 CLA	
2222 7100 CLL 2223 1036 TAD K0200	(BAT ( P.C
2224 7004 RAL	ROTATE PATTERN
2225 1063 TAD K7377	
2226 7040 CMA	
2227 7450 SNA	
2230 7430 SEL	/RAL FAILURE AC SHOULD EQUAL 0000
2231 7402 HLT	/LINK SHOULD EQUAL ZERO
/RAL TEST 9	A CHANGE CANAL SEVO
2232 7200 CLA	
2233 7100 CLL	
2234 1034 TAD K0100	/ROTATE PATTERN
2235 7004 RAL	
2236 1062 TAD K7577	
2237 7040 CMA	
2240 7450 SNA	
2241 7430 SEL	/RAL FAILURE AC SHOULD EQUAL 0000
2242 7402 HLT	/LINK SHOULD EQUAL ZERO
/RAL TEST 10	
2243 7200 CLA	
2244 7100 CLL	
2245 1032 TAD K0040	/ROTATE PATTERN
2246 7004 RAL	PROTATE PATTERN
2247 1061 TAD K7677	
2250 7040 CMA	
2251 7450 SNA	
2252 7430 SEL	RAL FAILURE AC SHOULD EQUAL 8008
2253 7402 HLT	/LINK SHOULD EQUAL A ZERO
/RAL TEST 11	
2254 7200 CLA	
2255 7100 CLL 2256 1030 TAD K0020	
0.00	/ROTATE PATTERN
2262 7430 SNA 2263 7430 SZL	ADAL FARLURE AS SURVEY -
2264 7402 HLT	/RAL FAILURE AC SHOULD EQUAL 8000
/RAL TEST 12	/LINK SHOULD EQUAL A ZERO
2265 7200 CLA	
2266 7100 CLL	
2267 1026 TAD K0010	/ROTATE PATTTERN
2270 7004 RAL	SURIMINE ENCLIPEDM
2271 1056 TAD K7757	
2272 7040 CMA	
2273 7450 SNA	
2274 7430 SZL	/RAL FAILURE AC SHOULD EQUAL 0000
2275 7402 HLT	/LINK SHOULD EQUAL A ZERO

		/RAL TEST 13	
2276	7200	CLA	
2277		CLL	
2300		TAD K0004	/ROTATE PATTERN
2301		RAL.	,
2302	1055	TAD K7767	
	7040	CMA*	
	7450	SNA	
	7430	SEL	/RAL FAILED AC SHOULD EQUAL 0000
2306	7482	HLT	/LINK SHOULD EQUAL A ZERO
07.03	********	/RAL TEST 14	
23 <b>07</b> 2310		CLA*	
		CLL	
2311 2312	1022 7004	TAD KØØØ2	/ROTATE PATTERN
2312		RAL	
	7040	TAD K7773	
2315		CMA	
	7430	SNA: Sel	ADAL PATIER AS AUGUS - TANK
2317		HLT	AND FAILED AC SHOULD EQUAL BOOD
		/RAL TEST 15	/LINK SHOULD EQUAL A ZERO
2320	7200	CLA:	
2321	7100	CLL	
2322	1021	TAD: KOO01	✓ROTATE PATTERN
2323	7884	RAL	PROTRIC PRITCHI
2324	1053	TAD K7775	
2325	7848	CMA	
	7450	SNA	
	7430	SEL	/RAL FAILED AC SHOULD EQUAL 8808
2330	7482	HLĪ"	/LINK SHOULD EQUAL ZERO
		/RAL TEST 16	• • • • • • • • • • • • • • • • • • • •
2331	7200	CL:A:	
2332		CLL	
2333		CML	
2334° 2335		RAL	
2336	7040	TAD K7776	
2337	7450	CMA:	
	7438	SNA:	
2341	7482	SEL HLT	ADAL PATIEN LA GUALLA GALLA GALLA
* 04 *	,	ME.I	/RAL FAILED AC SHOULD EQUAL 8900
			/LINK SHOULD EQUAL ZERO
		/RTL TEST 1	
2342	72 <b>8</b> Ø	CLĀ	
2343	7100	CLL	
2344	1045	TAD K2000	
2345	7006	RTL	
2346	7420	SNL	
2347	7402	HLT	/RTL LINK DROPPED A BIT
			/LINK SHOULD EQUAL A ONE
	200~	/RTL TEST 2	₩ · · · ₩ · · · · · · · · · · · · · · ·
2350	7200	CLA	

/PDP-8/E INSTRU	UCTION	TEST 1	MAINDEC-8E-08A	B PAL1Ø	V141	9-JUN-71	16126	PAGE 1-30
2351	7100		CLL					
2352	1020		TAD KØØØØ		/ROTATE	E PATTERN		
2353	7006		RTL		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	- PALIENN		
2354	7440		SZA					
2355	7402		HLT	ZRTL AC	PICKED	UP A BIT		
				/A ONE	IN AC E	QUALS THE PIC	KED HP	
		/RTL T	EST 3		***	- ONE THE	NED OF	
2356	7200		CLA					
2357	7100		CLL					
2360	1020		TAD KØØØØ		/ROTATE	EPATTERN		
2361	7006		RTL					
2362	7430		SZL					
2363	7402		HL T	/RTL LI	NK PICKE	D UP A BIT		
				/LINK S	HOULD EG	DUAL ZERO		
		/RTL T						
2364	7200		CLA					
2365	7100		CLL					
2366	7020		CML			_		
2367	1020		TAD KOOOO		/ROTATE	PATTERN		
	7006		RTL					
2371	7430 7402		SZL	457. 54				
2372	/ 782		HLT	ZRIL FA	ILURE, L	INK PICKED U	P A BIT	
				ALTINK 2	HOULD EN	UAL A ZERO		
0797	W088	/RTL TI						
	7200		CLA					
2374	7100		CLL					
2375 2376	7020 1067		CML					
2377	7006		TAD K7777		PROTATE	PATTERN		
2400	7040		RTL					· •
2401	7440		CMA SZA					
2402	7402		HLT	ARTI EAS		ROPPED A BIT		
		/RTL TE	FST 6	7015 FA	LUKE. D	KOPPED A MII		
24#3	7200		CLA				بردي	A
2404	7100		CLL				.,	
2405	1050		TAD K4000		/ROTATE	PATTERN	•	
2406	7006		RTL				<b></b>	
2467	1052		TAD K7776					
	7040		CMA					
2411	7450		SNA					
			SEL			, p. 1		
2413	7402		HLT	/RTL FAI	LED AC	AND LINK SHOU	LD EQUAL 00	ØØ
	B06-	/RTL TE						
	7200		CLA					
	7100		CLL			_		
	1045		TAD K2000		/ROTATE	PATTERN		
	7006		RTL					
	7450		SNA					
	7420 7402		SNL	407: E			_	
2482	/ 782		HLT	/KIL FAI	LED AC A	AND LINK SHOU	LD	
		/RTL TE	ST R	/EQUAL Ø	טו פט פט			
2423	7200	FRIL IL	CLA					
E 120								

/PDP-8/E	INSTR	UCTION	TEST	1 MAIN	DEC-8E-DØAB	PAL10	V141	9-JUN-71	16126	PAGE	1-31
	2424	7188		CLI	•						
	2425				) K1000		/ROTATI	E PATTERN			
	2426	7006		RTL				•			
	24 <b>2</b> 7 24 <b>3</b> 0	1066 7040			K3777						
	2431	7450		CMA							
	2432	7430		SNA SZL							
	2433	7402		HLT		ZRTI FA	TIED AC	AND LINK SHOULD			
						/EQUAL	0000	AND LINK SHOULD	•		
			/RT	L TEST 9	)						
	2434	7200		CLA							
	2435	7120		CLL							
	2436	1949			KØ4ØØ		/ROTATE	PATTERN			
	2437	7006		RTL				•			
	2441	1065 7040			K5777						
	2442	7450		CMA SNA							
	2443	7430		SZL							
	2444	7402		HLT		ZRTL FA	TIED AC	AND LINK SHOULD			
						/EQUAL	ZERO	THE FIRE SMOOTH			
			/RTL	TEST 1		. •					
	2445	7299		CLA							
	2446 2447	7180 1036		CLL							
	2458	7006		RTL	K8588		POTATE	PATTERN			
	2451	1964			K6777						
	2452	7040		CMA	NO777						
	2453	7450		SNA							
	2454	7430		SEL							
	2455	7482		HLT		/RTL FAI	LED AC	AND LINK SHOULD			
	2484	<b>9</b> 284	/RTL	TEST 1	L ·						
	2456 2457	7200 7100		CLA							
	2460	1834		CLL	K0100		406T4TE				
	2461	7886		RTL	UNTRE		PHOINIE	PATTERN			
	2462	1063			K7377						
	2463	7848		CMA	,,, =, ,						
	2464	7450		SNA							
	2465	7430		SEL							
	2466	7402		HLT		/RTL FAI /EQUAL Ø	LED AC	AND LINK SHOULD			
	24/7	<b>#20</b> a	/RTL	TEST 12							
	2467 2470	7200 7100		CLA							
	2471	1032		CLL	Vaala						
		7006		RTL	K0040		PHOTATE	PATTERN			
	2473	1062			K7577						
	2474	7848		CMA							
		7450		SNA							
		7430		SZL							
	2477	7402		HLT		/RTL FAI /EQUAL Ø	LED AC A	AND LINK SHOULD			
				-							

7200

7120

1030

2500

2581

2502

/RTL TEST 13 CLA CLL TAD KØØ2Ø RTL TAD K7677

2583 7006 2504 1061 2505 7040 CMA 7450 2506 SNA

2507 7430 SZL 2510 7402 HLT

/RTL TEST 14 2511 7200 CLA 2512 7100 CLL

2513 1026 TAD KOO10 7006 2514 RTL TAD K7737 2515 1057 7040 CMA 2516

7450 SNA 2517 2520 7439 SEL 2521 7482 HLT /RTL TEST 15

2522 7200 CLA 2523 7100 CLL 2524 1024 TAD KØØØ4 7006 RTL 2525

**TAD K7757** 2526 1056 2527 7040 CMA SNA 2530 7450

2531 7430 SZL 7482 HLT 2532

7200 CLA 2533 2534 7100 CLL TAD KØØØ2 2535 1022 7006 RTL 2536

**TAD K7767** 1055 2537 CMA 7048 2548 7450 SNA

2541 SZL 2542 7430 2543 7402 HLT

7200

7100

7450

2544

2545

2552

/RTL TEST 17 CLA CLL

SNA

/RTL TEST 16

1021 TAD KOGG1 2546 2547 7006 RTL TAD K7773 1054 2550 7040 CMA 2551

PROTATE PATTERN

ALL FAILED AC AND LINK SHOULD /EQUAL 0000

PROTATE PATTERN

/RTL FAILED AC AND LINK SHOULD

/ROTATE PATTERN

ALL FAILED AC AND LINK SHOULD /EQUAL 0000

PROTATE PATTERN

INTL FAILED AC AND LINK /SHOULD EQUAL DOOD

PROTATE PATTERN

```
/PDP-8/E INSTRUCTION TEST 1 MAINDEC-8E-DØAB PAL1Ø
                                                        V141
                                                                9-JUN-71
                                                                                16:26 PAGE 1-33
          2553 7430
                                SZL
          2554 7482
                                HLT
                                                /RTL FAILED AC AND LINK
                                                /SHOULD EQUAL 0000
                        /RTL TEST 18
          2555 7220
                                CLA
          2556 7120
                                CLL
          2557 7020
                                CML
          2560 7006
                                RTL
         2561 1053
                                TAD K7775
          2562 7040
                                CMA
          2563 7450
                                SNA
          2564 7430
                                SZL
          2565 7482
                                HLT
                                                /RTL FAILED AC AND LINK
                                                /SHOULD EQUAL 0000
                       /BSW TEST 1
         2566 7200
                                CLA
         2567 7100
                                CLL
         2578 7848
                                CMA
                                                        /AC=7777
         2571 7002
                                BSW
                                                       /SWAP BYTES AC SHOULD EQUAL 7777
         2572 7848
                                CMA
         2573 7420
                                SNL
                                                       /DID LINK SET?
         2574 7448
                               SEA
         2575 7482
                               HLT
                                                       /BSW FAILED
                                                       /AC AND LINK SHOULD=6000
                       /BSW TEST 2
         2576 7288
                               CLA
         2577 7188
                               CLL
         2600
              7020
                               CML
                                                       /LINK=1
         2601 7002
                               BSW
                                                       /SWAP BYTES AC SHOULD EQUAL 0000
         2682 7458
                               SNA
         2683 7428
                               SNL
         2684 7482
                               HLT
                                                       /BSH CAUSED THE LINK
                                                       /TO ROTATE
                       /BSW TEST 3
         2605 7200
                               CLA
         2686 7188
                               CLL
         2607 1113
                               TAD K7700
                                                       /AC=7700
         2610 7002
                               BSW
                                                       /SWAP BYTES AC SHOULD EQUAL 8077
         2611 1113
                               TAD K7788
                                                       /AC=7777
         2612 7949
                               CMA
                                                       /AC=9999
         2613 7428
                               SNL
         2614 7440
                               SZA
         2615 7482
                               HLT
                                                       /BSW FAILED AC AND LINK
                                                       /SHOULD=0000
                       /BSW TEST 4
        2616 7200
                               CLA
        2617 7180
                               CLL
        2620 1106
                               TAD KØØ77
                                                       /AC=0077
        2621 7002
                               BSW
                                                      /SWAP BYTES AC SHOULD EQUAL 7700
        2622 1106
                               TAD KØØ77
                                                       /AC=7777
        2623 7040
                              CMA
        2624 7420
                              SNL
        2625 7440
                              SZA
```

```
/PDP-8/E INSTRUCTION TEST 1 MAINDEC-8E-DØAB PAL1Ø V141
                                                              9-JUN-71
                                                                                16:26 PAGE 1-34
          2626 7482
                                HLT
                                                        /BSW FAILED AC AND LINK
                                                        /SHOULD=0000
                        /BSW TEST 5
               7300
          2627
                                CLA CLL
          2630
               1116
                                TAD
                                        K0770
         2631
               7002
                                BSW
                                                        /SWAP BYTES AC SHOULD EQUAL 7007
         2632 1116
                                TAD
                                        KØ778
         2633 7040
                                CMA
         2634 7420
                                SNL
         2635 7440
                                SZA
         2636 7402
                                HLT
                                                       /BSW FAILED AC AND LINK
                                                        /SHOULD EQUAL DODE
                       /BSW TEST 6
         2637 7320
                               CLA CLL CML
         2640 1117
                               TAD
                                       K7007
         2641 7002
                               BSW
                                                       /SWAP BYTES AC SHOULD EQUAL 8778
         2642 1117
                               TAD
                                       K7007
         2643 7040
                               CMA
         2644 7430
                               SZL
         2645 7440
                               SZA
         2646 7482
                               HLT
                                                       /BSW FAILED AC
                                                       /SHOULD EQUAL 0000 AND LINK=1
                       /BSW TEST 7
         2647 7200
                               CLA
         2650 7100
                               CLL
         2651 1114
                               TAD K5225
                                                       /AC=5225
         2652 7002
                               BSW
                                                       /SWAP BYTES AC SHOULD EQUAL 2552
         2653 1114
                               TAD K5225
                                                       /AC=7777
        2654 7040
                               CMA
        2655 7420
                               SNL
        2656 7440
                               SZA
        2657 7402
                               HLT
                                                       /BSW FAILED AC AND LINK
                                                       /SHOULD=8008
                       /BSW TEST 8
        2660 7200
                               CLA
        2661 7100
                               CLL
        2662 1115
                               TAD K2552
                                                       /AC=2552
        2663 7002
                               BSW
                                                       /SWAP BYTES AC SHOULD EQUAL 5225
        2664 1115
                               TAD K2552
                                                       /AC=7777
        2665 7040
                               CMA
        2666 7420
                              SNL
        2667 7440
                              SEA
        2670 7402
                              HLT
                                                       /BSW FAILED AC AND LINK
                                                       /SHOULD=5000
                      /GROUP 1 OPERATE TEST 1
        2671 7200
                              CLA
                                              /CLEAR AC
        2672 7100
                              CLL
                                              /CLEAR LINK
        2673 7040
                              CMA
                                              /AC EQUALS 7777
        2674 7020
                              CML
                                              /LINK EQUALS ONE
        2675 7300
                              CLA CLL
                                              /TEST COMBINATION
        2676 7420
                              SNL
        2677 7440
                              SZA
        2700 7402
                              HLT
                                              /CLA CLL FAILED. LINK SHOULD BE Ø
```

```
/PDP-8/E INSTRUCTION TEST 1 MAINDEC-8E-DØAB
                                                 PAL18
                                                       V141
                                                                 9-JUN-71
                                                                                 16:26
                                                                                         PAGE 1-35
                                                 /AC SHOULD EQUAL 0000
                        /GROUP 1 OPERATE TEST 2
          2701 7200
                                CLA
                                                 /AC EQUALS 8000
          2702 1071
                                TAD K2525
                                                         /AC EQUALS 2525
          2703 7240
                                CLA CMA
                                                 /TEST COMBINATION
          2704 7040
                                CMA
          2705 7440
                                SZA
          2706
               7402
                                HLT
                                                /CLA CMA ERROR. AC SHOULD
                                                 /BE 0000
                        /GROUP 1 OPERATE TEST 3
          2707 7200
                                CLA
          2710 7100
                                CLL
          2711 7040
                                CMA
                                                /AC=7777 LINK=1
          2712 7140
                                CLL CMA
                                                /TEST COMBINATION
          2713 7420
                                SNL
          2714 7440
                                SZA
          2715 7482
                                HLT
                                                /CLL CMA FAILED. AC AND LINK
                                                /SHOULD BE ZERO
                       VGROUP 1 OPERATE TEST 4
         2716 7100
                                CLL
         2717 7020
                                CHL
                                                /LINK=1
         2720 7200
                                CLA
         2721 7040
                                CMA
                                                /AC=7777
         2722 7340
                                CLA CMA CLL
                                                /TEST COMBINATION
         2723 7848
                                CMA
         2724 7420
                                SNL
         2725 7440
                                SEA
         2726 7482
                                HLT
                                                /CLA CMA CLL FAILED. AC AND
                                                /LINK SHOULD BE BERO
                       /GROUP 1 OPERATE TEST 5
         2727 7200
                               CLA
         2730 7100
                               CLL
                                                /LINK=0
         2731 7848
                               CMA
                                                /AC=7777
         2732 7220
                               CLA CML
                                                /TEST COMBINATION
         2733 7438
                               SEL
         2734 7440
                               SZA
         2735 7482
                               HLT
                                               /CLA CHL FAILED. AC SHOULD EQUAL
                                               /8966. LINK SHOULD BE A ONE
                       /GROUP 1 OPERATE TEST 6
         2736 7100
                               CLL
         2737 7020
                               CML
                                               /LINK=1
         2748 7128
                               CLL CML
                                               /TEST COMBINATION
         2741 7420
                               SNL
         2742 7482
                               HLT
                                               /CLL CML FAILED
                                               /LINK SHOULD BE A ONE
                       /GROUP 1 OPERATE TEST 7
        2743 7180
                               CLL
                                               /LINK=Ø
        2744 7120
                               CLL CML
                                               /TEST COMBINATION
        2745 7420
                               SNL
        2746 7482
                               HLT
                                               /CLL CML FAILED.
                                               /LINK SHOULD BE A ONE
                       /GROUP 1 OPERATE TEST 8
        2747 7120
                               CLL CML
                                               /LINK=1
```

```
9-JUN-71
                                                                                  16:26
                                                                                           PAGE 1-36
                                                 PAL10
                                                         V141
/PDP-8/E INSTRUCTION TEST 1 MAINDEC-8E-DØAB
                                                 /AC=7777
               7240
                                 CLA CMA
          2750
                                                 /TEST COMBINATION
                7320
                                 CLA CLL CML
          2751
                7430
                                 SZL
          2752
                7440
                                 SZA
          2753
                                                 /CLA CLL CML FAILED. LINK SHOULD
          2754
               7482
                                 HLT
                                                 /BE 1. AC SHOULD BE ZERO
                         /GROUP 1 OPERATE TEST 9
                                                 /LINK=0, AC=7777
                7340
                                 CLA CLL CMA
          2755
                                                 /TEST COMBINATION
                7320
                                 CLA CLL CML
          2756
          2757
                7430
                                 SZL
          2760 7440
                                 SZA
                                                 /CLA CLL CML FAILED, LINK SHOULD
               7482
                                 HLT
          2761
                                                 /BE 1, AC SHOULD BE ZERO
                         /GROUP 1 OPERATE TEST 10
          2762 7340
                                 CLA CLL CMA
                                                 /AC=7777, LINK=Ø
                                                 /TEST COMBINATION
                                 CMA CML
          2763
                7060
                7430
                                 SZL
          2764
          2765
               7440
                                 SZA
                                                 /CMA CML FAILED. AC SHOULD BE
                                 HLT
               7402
          2766
                                                 /0000 LINK SHOULD EQUAL ONE.
                        /GROUP 1 OPERATE TEST 11
                                                 /AC AND LINK=0
          2767 7300
                                 CLA CLL
                                                          /AC=2525
                1071
                                 TAD K2525
          2770
                                                 /TEST COMBINATION
                                 CLA CMA CLL
          2771
               7348
               7040
                                 CMA
          2772
               7420
                                 SNL
          2773
          2774 7440
                                 SEA
                                                 /CLA CMA CML FAILED, AC SHOULD BE
          2775 7482
                                 HLT
                                                 /0000. LINK SHOULD EQUAL EERO
                        /GROUP 1 OPERATE TEST 12
          2776 7388
                                                 /AC AND LINK=0
                                 CLL CLA
                                                          /AC=2525
                                 TAB K2525
          2777
                1871
                                 CLL CMA CML
                                                 /TEST COMBINATION
          3000
               7168
                                 TAD K2525
               1871
          3001
                                 CMA
          3002
                7848
          3003
               7439
                                 SEL
          3004 7440
                                 SZA
                                                 /CLL CMA CML FAILED. AC SHOULD BE
          3005 7402
                                 HLT
                                                 /8888. LINK SHOULD EQUAL ONE
                        /GROUP 1 OPERATE TEST 13
                7300
                                 CLA CLL
          3006
                                                  /AC=0000. LINK=1
          3007
                7020
                                 CML
                                 CLL CMA CML
                                                  /TEST COMBINATION
                7160
          3010
          3011 7040
                                 CMA
                                 SEL
          3012
                7430
          3013
                7440
                                 SZA
                                                 /CLL CMA CML FAILED. AC SHOULD
          3014 7402
                                 HLT
                                                  /BE 0000. LINK SHOULD BE ONE
                         /GROUP 1 OPERATE TEST 14
          3015 7300
                                 CLA CLL
                                                          /AC=2525, LINK=0
          3016 1071
                                 TAD K2525
```

```
/PDP-8/E INSTRUCTION TEST 1 MAINDEC-8E-DØAB PALIØ V141 9-JUN-71 16:26 PAGE 1-37
         3017 7360
                             CLA CLL CMA CML /TEST COMBINATION
          3020 7040
                               CMA
          3021 7430
                               SZL
          3022 7440
                               SZA
         3023 7402
                                             /CLA CLL CMA CML FAILED. AC SHOULD
                               HLT
                                             /BE ØØØØ LINK SHOULD EQUAL ONE.
                       /GROUP 1 OPERATE TEST 15
          3024 7520
                               CLA CLL CML
         3025 1070
                               TAD K5252
                                                    /AC=5252, LINK=1
                               CLA CLL CMA CML /TEST COMBINATION
         3026 7360
         3027 7040
                               CMA
         3030 7430
                               SEL
         3031 7440
                               SZA
                                             /CLA CLL GMA CML FAILED. AC SHOULD
          3832 7482
                               HLT
                                              /BE 000. LINK SHOULD EQUAL ONE
                     /GROUP 1 OPERATE TEST 16
         3033 7200
                               CLA
                              TAD K2525 /AC=2525
CLA IAC /TEST COMBINATION
         3034 1071
         3035 7201
         3036 1052
                               TAD K7776
         3037 7040
                               CMA
          3040 7440
                               SZA
         3041 7402
                                              /CLA IAC FAILED
                               HLT
                                              /AC SHOULD EQUAL BOOD
                      /GROUP 1 OPERATE TEST 17
          3042 7320
                               CLL CML CLA
                               TAD K7776
                                                     /AC=7776. LINK=1
         3843 1852
         3044 7101
                               CLL IAC
                                            /TEST COMBINATION
          3845 7848
                               CMA
          3046 7420
                               SNL
         3847 7440
                               SZA
          3050 7492
                                              /CLL IAC FAILED, AC AND LINK
                               HLT
                                              /SHOULD EQUAL ZERO
                       /GROUP 1 OPERATE TEST 18
         3051 7320
                               CLA CLL CML
                               TAD K2525 /AC=2525 L
CLA CLL IAC /TEST COMBINATION
                                                     /AC=2525 LINK=1
         3052 1071
          3053 7301
                               TAD K7776
          3054 1052
         3855 7848
                               CMA
          3056 7420
                               SNL
          3057 7440
                               SEA
                                              /CLA CLL IAC FAILED. AC AND LINK
         3060 7402
                               HLT
                                              /SHOULD BE ZERO
                      /GROUP 1 OPERATE TEST 19
         3061 7300
                               CLA CLL
                                          /AC=Ø LINK#Ø
                               CMA IAC
                                              /TEST COMBINATION
          3062 7041
          3063 7430
                               SZL
         3064 7440
                               SZA
                                              /CMA IAC FAILED. AC SHOULD EQUAL
         3065 7402
                               HLT
                                               10000. LINK SHOULD EQUAL ONE
                       /GROUP 1 OPERATE TEST 20
          3066 7300
                              CLA CLL
                               TAD K2525
                                                    /AC=2525 LINK=0
          3067 1071
```

```
/PDP-8/E INSTRUCTION TEST 1 MAINDEC-8E-DBAB
                                              PAL10
                                                        V141
                                                                9-JUN-71
                                                                              16:26
                                                                                        PAGE 1-38
          3070 7241
                                CLA CMA IAC
                                                /TEST COMBINATION
          3071
              7430
                                SZL
          3072 7440
                                SZA
          3073 7402
                                                /CLA CMA IAC FAILED. AC SHOULD
                                HLT
                                               /EQUAL 0000. LINK SHOULD BE ONE.
                        /GROUP 1 OPERATE TEST 21
         3074 7520
                               CLL CLA CML
                                               /AC=0000 LINK=1
         3075 1021
                               TAD KØØØ1
                                                       /AC=0001
         3076 7141
                               CLL CMA IAC
                                               /TEST COMBINATION
         3077 7040
                               CMA
         3100 7420
                               SNL
         3101 7440
                               SZA
         3102 7402
                               HLT
                                               /CLL CMA IAC FAILED. AC SHOULD BE
                                               10000 LINK SHOULD BE 0
                       /GROUP 1 OPERATE TEST 22
         3103 7320
                               CLA CLL CML
         3104 1071
                               TAD K2525
                                                       /AC=2525 LINK=1
         3105 7341
                               CLA CLL CMA IAC /TEST COMBINATION
         3106 7430
                               SZL
         3107 7440
                               SZA
         3110 7402
                               HLT
                                               /CLA CLL CMA IAC FAILED. AC SHOULD BE
                                               /0000. LINK SHOULD BE ONE
                       /GROUP 1 OPERATE TEST 23
         3111 7300
                               CLA CLL
         3112 1070
                               TAD K5252
                                                       /AC=5252 LINK=6
         3113 7341
                               CLA CLL CMA IAC /TEST COMBINATION
         3114 7430
                               SZL
         3115 7440
                               SZA
         3116 7402
                               HLT.
                                               /CLA CLL CMA IAC FAILED AC SHOULD
                                               /BE 0000. LINK SHOULD BE ONE
                      /GROUP 1 OPERATE TEST 24
        3117 7300
                               CLA CLL
        3120 1052
                              TAD K7776
                                                      /AC#7776 LINK##
        3121 7021
                               CML IAC
                                               /TEST COMBINATION
        3122 7040
                               CMA
        3123 7430
                              SZL
        3124 7448
                              SZA
        3125 7402
                              HLT
                                              /CML IAC FAILED AC SHOULD BE
                                               /0000. LINK SHOULD BE ONE
                      /GROUP 1 OPERATE TEST 25
        3126 7320
                              CLA CLL CML
        3127 1052
                              TAD K7776
                                                     /AC =7776 LINK=1
        3130 7021
                              CML IAC
                                              /TEST COMBINATION
        3131 7040
                              CMA
        3132 7420
                              SNL
        3133 7440
                              SZA
        3134 7402
                                              /CML IAC FAILED. AC SHOULD BE
                                              /0000. LINK SHOULD BE ZERO
                      /GROUP 1 OPERATE TEST 26
        3135 7300
                              CLA CLL
        3136 1071
                              TAD K2525
                                                      /AC=2525 LINK=8
        3137
              7221
                              CLA CML IAC
                                              /TEST COMBINATION
        3140 1052
                              TAD K7776
```

```
16:26 PAGE 1-39
/POP-B/G INSTRUCTION TEST 1 MAINDEC-BE-DUAB PALID V141 9-JUN-71
          3141 7040
                                CMA
          3142 7430
                                SZL
          3143 7440
                                SZA
                                               /CLA CML IAC FAILED. AC SHOULD BE
          3144 7482
                                HLT
                                               /0000. LINK SHOULD EQUAL ONE
                       /GROUP 1 OPERATE TEST 27
                                               /AC=0000 LINK=1
          3145 7520
                               CLA CLL CML
          3146 1052
                               TAD K7776
                                                      /AC=7776
                               CLL CML IAC
                                               /TEST COMBINATION
          3147 7121
          3150 7040
                                CMA
          3151 7430
                                SEL
          3152 7440
                                SZA
          3153 7482
                                               /CLL CML IAC FAILURE, AC SHOULD BE
                                HLT
                                               /8888. LINK SHOULD EQUAL ONE.
                        /GROUP 1 OPERATE TEST 28
          3154 7390
                                CLA CLL
                               TAD K7776
                                                     /AC=7776 LINK=Ø
          3155 1052
                               CLL CML IAC /TEST COMBINATION
          3156 7121
          3157 7040
                                CMA
          3160
               7430
                                SZL
          3161
               7448
                                SZA
          3162 7482
                                               /CLL CML IAC FAILED. AC SHOULD
                                HLT
                                               /BE 0000. LINK SHOULD BE ONE
                        /GROUP 1 OPERATE TEST 29
          3163 7300
                               CLA CLL
          3164 1071
                               TAD K2525
                                                      /AC=2525. LINK=Ø
          3165 7321
                                CLA CLL CML IAC /TEST COMBINATION
          3166 1952
                                TAD K7776
          3167
               7948
                                CMA
               7430
          3178
                                SEL
          3171
               7440
                                ASE
        3172 7482
                                               /CLA CLL CML IAC FAILED. AC SHOULD
                                HLT
                                               /BE 0000. LINK SHOULD BE ONE
                        /GROUP 1 OPERATE TEST 30
          3173 7320
                               CLA CLL CML
          3174 1871
                               TAD K2525
                                                       /AC=2525 LINK=1
                                CLA CLL CML IAC /TEST COMBINATION
          3175 7321
          3176 1052
                               TAD K7776
          3177
               7940
                                CMA
               7430
          3290
                                SEL
          3281 7440
                                SZA
          3282 7402
                                               /CLA CLL CML IAC FAILED. AC SHOULD
                                HLT
                                               /BE 0000. LINK SHOULD BE ONE
                        /GROUP 1 OPERATE TEST 31
          3203 7300
                                CLA CLL
                                                      /AC=ØØØ1 LINK=Ø
          3284 1021
                               TAD KØØØ1
                                CMA CML IAC /TEST COMBINATION
          3205
              7061
          3206
               7040
                                CMA
                7430
                                SEL
          3207
               7440
                                SZA
          3210
                                              /CMA CML IAC FAILED. AC SHOULD
               7482
          3211
                                HLT
```

```
/PDP-8/E INSTRUCTION TEST 1 MAINDEC-8E-DØAB PAL1Ø V141
                                                             9-JUN-71
                                                                          16:26
                                             /BE 0000. LINK SHOULD BE ONE
                      /GROUP 1 OPERATE TEST 32
         3212 7520
                              CLA CLL CML
         3213 1021
                              TAD K0001 /AC=0001 LINK=1 CMA CML IAC /TEST COMBINATION
         3214 7061
         3215 7040
                              CMA
         3216 7420
                              SNL
         3217 7440
                              SZA
         3220 7402
                              HLT
                                            /CMA CML IAC FAILURE. AC SHOULD BE
                                             /0000. LINK SHOULD BE ZERO
                     /GROUP 1 OPERATE TEST 33
         3221 7300
                              CLA CLL
                                             /AC=0000 LINK=0
         3222 1071
                             TAD K2525
                                           /AC=2525
         3223 7261
                              CLA CMA CML IAC /TEST COMBINATION
         3224 7420
                              SNL
         3225 7430
                              SEL
        3226 7402
                              HLT
                                             /CLA CMA CML IAC FAILED. AC SHOULD
                                             /BE 0000. LINK SHOULD BE ZERO
                      /GROUP 1 OPERATE TEST 34
        3227 7320
                             CLA CLL CML
        3230 1071
                             TAD K2525
                                                   /AC=2525 LINK=1
        3231 7261
                             CLA CMA CML IAC /TEST COMBINATION
        3232 7430
                              SEL
        3233 7440
                             SZA
        3234 7402
                                           /CLA CMA CML IAC FAILED. AC SHOULD
                             HLT
                                            /BE 0000. LINK SHOULD BE ONE
                      /GROUP 1 OPERATE TEST 35
        3235 7300
                             CLA CLL
        3236 1021
                                         /AC=0001 LINK=0
                             TAD KØØØ1
        3237 7161
                             CLL CMA CML IAC /TEST COMBINATION
        3240 7040
                             CMA
        3241 7430
                             SZL
        3242 7440
                             SZA
        3243 7402
                             HLT
                                            /CLL CMA CML IAC FAILED. AC SHOULD BE
                                            /8000. LINK SHOULD BE ONE
                     /GROUP 1 OPERATE TEST 36
        3244 7520
                             CLA CLL CML
        3245 1021
                             TAD KØØØ1
                                                  /AC=0001 LINK=1
        3246 7161
                             CLL CMA CML IAC /TEST COMBINATION
        3247 7040
                             CMA
        3250 7430
                             SZL
        3251 7440
                             SZA
        3252 7402
                             HLT
                                            /CLL CMA CML IAC FAILED. AC SHOULD BE
                                            /0000. LINK SHOULD BE ONE
                     /GROUP 1 OPERATE TEST 37
        3253 7300
                             CLA CLL
        3254 1071
                             TAD K2525
                                                  /AC=2525 LINK=Ø
                             CLA CLL CMA CML IAC /TEST COMBINATION
        3255 7361
        3256 7420
                             SNL
        3257 7440
                             SZA
        3260 7402
                             HLT
                                            /CLA CLL CMA CML IAC FAILURE AC AND
                                            /LINK SHOULD EQUAL ZERO
                    /GROUP 1 OPERATE TEST 38
```

PAGE 1-40

```
/PDP-8/E INSTRUCTION TEST 1 MAINDEC-8E-D#AB
                                                PAL10
                                                        V141
                                                                9-JUN-71
                                                                                16:26
                                                                                        PAGE 1-41
          3261 7360
                                CLA CMA CLL CML /AC=7777 LINK=1
          3262 7210
                                CLA RAR
                                               /TEST COMBINATION
          3263 1066
                                TAD K3777
          3264 7040
                                CMA
          3265 7420
                                SNL
          3266 7440
                                SZA
          3267 7482
                                HLT
                                                /CLA RAR FAILED, LINK AND
                                                /AC SHOULD EQUAL ZERO
                        /GROUP 1 OPERATE TEST 39
         3270 7360
                                CLA CMA CLL CML /AC=7777 LINK=1
         3271 7204
                                CLA RAL
                                               /TEST COMBINATION
         3272 1952
                                TAD K7776
         3273 7040
                                CHA
         3274 7420
                                SNL
         3275 7440
                                SZA
         3276 7482
                                HLT
                                                /CLA RAL FAILED LINK AND
                                               /AC SHOULD EQUAL ZERO
                       /GROUP 1 OPERATE TEST 40
         3277 7360
                               CLA CMA CLL CML /AC=7777 LINK =1
         3366 7212
                               CLA RTR
                                               /TEST COMBINATION
         3391 1865
                               TAD K5777
         3382 7848
                               CMA
         3383
              7428
                               SNL
         3384 7448
                               SZA
         3385
              7482
                               HLT
                                               /CLA RTR FAILED. AC AND
                                               /LINK SHOULD BE BERO
                       /GROUP 1 OPERATE TEST 41
         3306 7360
                               CLA CMA CLL CML /AC-7777, LINK#1
         3387
              7286
                               CLA RTL
                                               /TEST COMBINATION
         3315
              1853
                               TÃD K7775
         3311 7040
                               CMA
         3312 7420
                               SNL
         3313 7440
                               SEA
         3314 7402
                               HLT
                                               /CLA RTL FAILED. AC AND LINK
                                               /SHOULDBE BERO
                       /GROUP 1 OPERATE TEST 42
         3315 7320
                               CLA CLL CML
         3316 1032
                               TAD KØØ4Ø
                                                       /AC=0040 LINK=1
         3317 7110
                               CLL RAR
                                               /TEST COMBINATION
         3320 1056
                               TAD K7757
         3321
              7848
                               CMA
         3322 7420
                               SNL
         3323 7440
                               SEA
         3324 7402
                               HLT
                                               /CLL RAR FAILED. AC AND LINK
                                               /SHOULD BE ZERO
                      /GROUP 1 OPERATE TEST 43
        3325 7320
                               CLA CLL CML
        3326 1032
                              TAD KØØ4Ø
                                                      /AC=0040 LINK=1
        3327 7104
                              CLL RAL
                                              /TEST COMBINATION
        3330 1061
                              TAD K7677
        3331 7040
                              CMA
```

```
/PDP-8/E INSTRUCTION TEST 1 MAINDEC-8E-DØAB PALIØ V141
                                                                                       PAGE 1-42
                                                                9-JUN-71
                                                                                16:26
          3332 7420
                                SNL
          3333 7440
                                SZA
                                                /CLL RAL FAILED. AC AND LINK
          3334 7482
                                HLT
                                                /SHOULD BE ZERO
                        /GROUP 1 OPERATE TEST 44
          3335 7520
                                CLA CLL CML
                                                        /AC=0040 LINK=1
                                TAD KODAD
          3336
               1032
                                CLL RTR
                                                /TEST COMBINATION
          3337
               7112
          3340 1055
                                TAD K7767
               7040
                                CMA
          3341
               7420
                                SNL
          3342
          3343 7440
                                SZA
                                                /CLL RTR FAILED. AC AND LINK
          3344 7402
                                HLT
                                                /SHOULD BE ZERO
                        /GROUP 1 OPERATE TEST 45
          3345 7320
                                CLA CLL CML
                                                        /AC=0040 LINK=1
                                TAD KØØ4Ø
          3346
               1032
                                CLL RTL
                                                /TEST COMBINATION
                7186
          3347
                                TAD K7577
          3350 1062
          3351
               7040
                                CMA
                7420
                                SNL
          3352
          3353
               7448
                                SEA
                                                /CLL RTL FAILED. AC AND LINK
          3354 7402
                                HLT
                                                /SHOULD BE ZERO
                        JGROUP 1 OPERATE TEST 46
                                CLA CLL CML CMA /AC=7777 LINK=1
               7360
          3355
                                                TEST COMBINATION
          3356
               7310
                                CLL CLA RAR
          3357 7420
                                SNL
          3360 7440
                                SZA
                                                /CLL CLA RAR FAILED AC AND
          3361 7402
                                HLT
                                                /LINK SHOULD BE MERO
                        /GROUP 1 OPERATE TEST 47
                                CLA CMA CLL CML /AC=7777 LINK=1
          3362 7360
                                                /TEST COMBINATION
               7304
                                CLL CLA RAL
          3363
                                SNL
          3364
               7420
          3365
               7430
                                SEL
                                                 /CLL CLA RAL FAILED. AC AND
               7482
                                HLT
          3366
                                                 /LINK SHOULD BE BERO
                        /GROUP 1 OPERATE TEST 48
                                CLA CMA CLL CML /AC=7777 LINK=1
          3367
               7360
                                                /TEST COMBINATION
                                CLA CLL RTR
          3370 7312
               7420
                                SNL
          3371
               7448
                                SEA
          3372
                                                 /CLA CLL RTL FAILED. AC AND
          3373 7402
                                HLT
                                                 /LINK SHOULD BE BERO
                        /GROUP 1 OPERATE TEST 49
                                CLA CMA CLL CML /AC=7777 LINK=1
               7360
          3374
                                                 /TEST COMBINATION
                                CLA CLL RTL
          3375 7306
                                SNL
               7420
          3376
          3377 7440
                                SZA
                                                 /CLA CLL RTL FAILED. AC AND
          3400 7402
                                HLT
                                                 /LINK SHOULD EQUAL ZERO
                        /GROUP 1 OPERATE TEST 50
```

```
9-JUN-71
                                                                        16:26 PAGE 1-43
/PDP-8/E INSTRUCTION TEST 1 MAINDEC-8E-DBAB PAL10 V141
                                               /AC=0000 LINK=0
          3401 7300
                               CLA CLL
          3402 7030
                               CML RAR
                                               /TEST COMBINATION
                               TAD K3777
         3403 1066
          3404 7040
                               CMA
          3405 7420
                               SNL
          3406 7440
                               SZA
          3407 7402
                               HLT
                                               JCML RAR FAILED. AC AND LINK
                                               /SHOULD BE ZERO
                       /GROUP 1 OPERATE TEST 51
          3410 7300
                               CLA CLL
                                               /AC=0000 LINK #0
          3411 7024
                               CML RAL
                                               /TEST COMBINATION
                               TAD K7776
          3412 1052
          3413 7848
                               CMA
          3414 7420
                               SNL
          3415 7440
                               SEA
                                               /CML RAL FAILED. AC AND LINK
          3416 7482
                               HLT
                                               /SHOULD BE ZERO.
                       /GROUP 1 OPERATE TEST 52
                                               /AC=0000 LINK=0
                               CLA CLL
          3417 7300
                               CML RTR
                                               /TEST COMBINATION
          3420 7032
                               TAD K5777
          3421 1865
          3422 7948
                               CMA
          3423 7420
                               SNL
          3424 7448
                               SEA
                                               /CML RTR FAILED. AC AND LINK
          3425 7402
                               HLT
                                               /SHOULD EQUAL ZERO
                       /GROUP 1 OPERATE TEST 53
          3426 7300
                               CLA CLL
                                              /AC=0000 LINK=9
          3427 7826
                               CML RTL
                                               /TEST COMBINATION
                               TAD K7775
          3430 1053
         3431 7848
                               CHA
          3432 7428
                               SNL
          3433 7440
                               SEA
                                               /CML RTL FAILED. AC AND LINK
          3434 7402
                               HLT
                                               /SHOULD EQUAL ZERO
                       /GROUP 1 OPERATE TEST 54
          3435 7300
                               CLA CLL
          3436 1070
                               TAD K5252
                                                      /AC=5252 LINK=Ø
                                               /TEST COMBINATION
          3437 7230
                               CLA CML RAR
                               TAD K3777
          3440 1066
          3441 7840
                               CMA
          3442 7420
                               SNL
          3443 7440
                               SZA
                                              /CLA CML RAR FAILED. AC AND
          3444 7402
                               HLT
                       PAUSE
                       /INSTRUCTION TEST - 1
                       /GROUP 1 OPERATE TEST 55
                       /TAPE 3
          3445 7300
                               CLA CLL
                                                       /AC=5252 LINK=0
          3446 1070
                               TAD K5252
          3447 7224
                               CLA CML RAL
                                            /TEST COMBINATION
```

```
/PDP-8/E INSTRUCTION TEST 1 MAINDEC-8E-DØAB PAL10
                                                       V141
                                                                 9-JUN-71
                                                                                 16:26 PAGE 1-44
          3450 1052
                                TAD K7776
          3451 7040
                                CMA
          3452 7420
                                SNL
          3453 7440
                                SZA
          3454 7482
                                HLT
                                                /CLA CML RAL FALED. AC AND
                                                /LINK SHOULD BE ZERO
                        /GROUP 1 OPERATE TEST 56
          3455 7300
                                CLA CLL
          3456 1070
                                TAD K5252
                                                        /AC=5252 LINK=Ø
          3457 7232
                                CLA CML RTR
                                                /TEST COMBINATION
          3460
               1065
                                TAD K5777
          3461
               7040
                                CMA
          3462 7420
                                SNL
          3463 7440
                                SZA
         3464 7402
                                HLT
                                                /CLA CML RTR FAILED. AC AND
                                                /LINK SHOULD BE ZERO
                        /GROUP 1 OPERATE TEST 57
         3465 7300
                                CLA CLL
         3466
               1070
                                TAD K5252
                                                        /AC=5252 LINK=Ø
         3467
               7226
                                CLA CML RTL
                                                /TEST COMBINATION
         3470 1053
                                TAD K7775
         3471
               7040
                                CMA
         3472
              7420
                                SNL
               7440
         3473
                                SZA
         3474 7482
                                HLT
                                                /CLA CML RTL FAILED, AC AND
                                                /LINK SHOULD EQUAL ZERO
                        /GROUP 1 OPERATE TEST 58
         3475
               7300
                                CLA CLL
                                                /AC=0000 LINK=0
         3476 7130
                                CLL CML RAR
                                                /TEST COMBINATION
               7004
         3477
                                RAL
         3500
               7430
                                SEL
         3501
               7440
                                SZA
         3562 7462
                                                /CLL CHL RAR FAILED. AC SHOULD
                                HLT
                                                /BE 0000 LINK SHOULD BE 1
                        /GROUP 1 OPERATE TEST 59
         3583 7328
                                                /AC=0000 LINK=1
                                CLA CLL CML
         3584
               7130
                                                /TEST COMBINATION
                                CLL CML RAR
         3585
               7004
                                RAL
         3586
              7430
                                SEL
         3507
              7440
                                SZA
         3510
              7402
                                HLT
                                                /CLL CML RAR FAILED. AC SHOULD BE
                                                /0000. LINK SHOULD BE A ONE
                       /GROUP 1 OPERATE TEST 60
              7300
         3511
                                CLA CLL
                                                /AC=ØØØØ LINK=Ø
         3512 7124
                                CLL CML RAL
                                                /TEST COMBINATION
         3513
               7010
                                RAR
               7430
         3514
                                SZL
         3515
               7440
                                SZA
         3516
               7402
                                                /CLL CML RAL FAILED. AC SHOULD
                                                /EQUAL 0000, LINK SHOULD BE ONE
                       /GROUP 1 OPERATE TEST 61
         3517 7520
                                CLA CLL CML
                                                /AC=0000 LINK=1
         3520 7124
                                CLL CML RAL
                                                /TEST COMBINATION
```

```
/PDP-8/E INSTRUCTION TEST 1 MAINDEC-8E-DØAB PAL10 V141
                                                             9-JUN-71
                                                                               16:26
                                                                                       PAGE 1-45
          3521 7010
                               RAR
          3522 7430
                               SZL
          3523 7440
                               SZA
          3524 7482
                               HLT
                                               /CLL CML RAL FAILED, AC SHOULD
                                               /EQUAL 0000. LINK SHOULD BE ONE
                        /GROUP 1 OPERATE TEST 62
          3525 7300
                                               /AC=0000 LINK=0
                               CLA CLL
          3526 7132
                               CLL CML RTR
                                               /TEST COMBINATION
          3527 7006
                               RTL
          3530 7430
                               SZL
              7440
          3531
                               SZA
         3532 7402
                                              /CLL CML RTR FAILED. AC SHOULD
                               HLT
                                               /BE 0000. LINK SHOULD BE ONE
                       /GROUP 1 OPERATE TEST 63
         3533 7320
                               CLA CLL CML
                                               /AC=0000 LINK=1
         3534 7132
                               CLL CML RTR
                                               /TEST COMBINATION
         3535 7006
                               RTL
         3536 7430
                               SZL
         3537 7440
                               SZA
         3540 7402
                               HLT
                                               /CLL CML RTR FAILED. AC SHOULD
                                               /BE ØØØØ LINK SHOULD BE ONE.
                       /GROUP 1 OPERATE TEST 64
         3541 7300
                               CLA CLL
                                             /AC=0000 LINK=0
         3542 7126
                               CLL CML RTL
                                           /TEST COMBINATION
         3543 7012
                               RTR
         3544 7430
                               SZL
         3545 7440
                               SZA
         3546 7402
                               HLT
                                               /CLL CML RTL FAILED. AC SHOULD
                                               /BE 0000, LINK SHOULD BE A ONE
                       /GROUP 1 OPERATE TEST 65
         3547 7320
                               CLA CLL CML
                                           /AC=0000 LINK=1
         3550 7126
                               CLL CML RTL
                                               /TEST COMBINATION
         3551 7012
                               RTR
         3592 7430
                               SZL
         3553 7440
                               SZA
         3554 7402
                               HLT
                                               /CLL CML RTL FAILED. AC SHOULD
                                               /BE 0000. LINK SHOULD BE A ONE.
                       /GROUP 1 OPERATE TEST 66
         3555 7300
                               CLA CLL
         3556 1070
                               TAD K5252
                                                       /AC=5252 LINK=Ø
         3557 7330
                               CLA CLL CML RAR /TEST COMBINATION
         3560 7004
                               RAL
         3561 7430
                               SZL
         3562 7440
                               SZA
         3563 7402
                               HLT
                                               /CLA CLL CML RAR FAILED. AC SHOULD
                                               /BE 0000, LINK SHOULD BE ONE
                       /GROUP 1 OPERATE TEST 67
         3564 7320
                               CLA CLL CML
         3565 1071
                               TAD K2525
                                                     /AC=2525 LINK=1
         3566 7330
                               CLA CLL CML RAR /TEST COMBINATION
         3567 7004
                               RAL
         3570 7430
                               SZL
         3571 744Ø
                               SZA
```

```
/PDP-8/E INSTRUCTION TEST 1 MAINDEC-8E-DØAB PAL10 V141 9-JUN-71 16:26
                                                                                  PAGE 1-46
         3572 7402
                            HLT
                                      /CLA CLL CML RAR FAILED. AC SHOULD
                                            /BE 0000. LINK SHOULD BE ONE
                      /GROUP 1 OPERATE TEST 68
         3573 7300
                              CLA CLL
         3574 1071
                              TAD K2525
                                               /AC=2525 LINK=Ø
         3575 7324
                              CLA CLL CML RAL /TEST COMBINATION
         3576 7010
                              RAR
         3577 7430
                              SZL
         3600 7440
                              SZA
         3601 7402
                             HLT
                                           /CLA CLL CML RAL FAILED. AC SHOULD
                                            /BE 0000. LINK SHOULD BE ONE
                      /GROUP 1 OPERATE TEST 69
         3602 7520
                             CLA CLL CML
         3683 1070
                                          /AC=5252 LINK=1
                             TAD K5252
         3684 7324
                             CLA CLL CML RAL /TEST COMBINATION
         3605 7010
                             RAR
         3606 7430
                             SZL
         3607 7440
                             SZA
         3610 7402
                             HLT
                                           /CLA CLL CML RAL FAILED. AC SHOULD
                                           /BE 0000 LINK SHOULD BE A ONE
                     /GROUP 1 OPERATE TEST 70
        3611 7300
                             CLA CLL
        3612 1071
                             TAD K2525
                                                  /AC=2525 LINK=Ø
        3613 7332
                             CLA CLL CML RTR /TEST COMBINATION
        3614 7006
                             RTL
        3615 7430
                             SZL
        3616 7440
                             SZA
        3617 7482
                             HLT
                                          /CLA CLL CML RTR FAILED. AC SHOULD
                                           /BE 0000. LINK SHOULD BE A ONE
                     /GROUP 1 OPERATE TEST 71
        3620 7320
                             CLA CLL CML
        3621 1070
                             TAD K5252
                                                  /AC=5252 LINK=1
        3622 7332
                             CLA CLL CML RTR /TEST COMBINATION
        3623 7006
                             RTL
        3624 7430
                             SZL
        3625 7440
                             SZA
        3626 7402
                             HLT
                                          /CLA CLL CML RTR FAILED. AC SHOULD
                                           /BE 0000. LINK SHOULD BE A ONE
                     /GROUP 1 OPERATE TEST 72
        3627 7300
                            CLL CLA
                            TAD K2525 /AC=2525 LINK=0
        3630 1071
        3631 7326
                             CLA CLL CML RTL /TEST COMBINATION
        3632 7012
                             RTR
        3633 7430
                             SZL
        3634 7440
                             SZA
        3635 7402
                                           /CLA CLL CML RTL FAILED. AC SHOULD
                            HLT
                                            /BE 0000, LINK SHOULD BE A ZERO
                    /GROUP 1 OPERATE TEST 73
        3636 7520
                            CLL CLA CML
                            CLL CLA CML
TAD K5252 /AC=5252 LINK=1
        3637 1070
        3640 7526
                            CLA CLL CML RTL /TEST COMBINATION
```

```
PAGE 1-47
                                                                9-JUN-71
                                                                                16:26
/PDP-8/E INSTRUCTION TEST 1 MAINDEC-8E-DØAB PAL10
                                                        V141
          3641 7012
                                RTR
          3642 7430
                                SZL
          3643 7440
                                SZA
                                                /CLA CLL CML RTL FAILED. AC SHOULD
          3644 7482
                                HLT
                                                /BE ØØØØ. LINK SHOULD BE A ONE
                        /GROUP 1 OPERATE TEST 74
                                CLA CLL
          3645
               7300
                                                        JIEST PATTERN
                                TAD K7777
          3646 1067
                                                /AC EQUALS 0001
          3647 7041
                                CIA
          3650 1052
                                TAD K7776
          3651 7040
                                CMA
          3652 7420
                                SNL
                                                /CIA FAILED AC SHOULD EQUAL 0000
          3653 7440
                                SZA
                                                /LINK SHOULD EQUAL A ZERO
          3654 7482
                                HLT
                        /GROUP 1 OPERATE TEST 75
               7300
          3655
                                CLA CLL
                                                        /TEST PATTERN
          3656 1952
                                TAD K7776
          3657 7941
                                                /AC EQUALS BBB2
                                CIA
          3668 1053
                                TAB K7775
          3661 7040
                                CMA
          3662 7420
                                SNL
          3663 7440
                                               /CIA FAILED AC SHOULD EQUAL 8000
                                SEA
                                                /LINK SHOULD EQUAL A ZERO
          3664 7402
                                HLT
                        /GROUP 1 OPERATE TEST 76
          3665 7300
                                CLA CLL
               1101
                                TÁD K7774
                                                        JTEST PATTERN
          3666
          3667 7041
                                                /AC EQUALS 0004
                                CIA
                                TAD K7773
          3678 1854
               7840
                                CMA
          3671
              7420
                                SNL
          3672
                                                /CIA FAILED AC SHOULD EQUAL 5555
          3673 7440
                                SZA
                                HLT
                                                /LINK SHOULD EQUAL ZERO
          3674
               7482
                        /GROUP 1 OPERATE TEST 77
          3675 7300
                                CLA CLL
          3676 1100
                                TAD K7778
                                                        ITEST PATTERN
                                                /AC EQUALS ØØ10
          3677 7841
                                CIA
                                TAD K7767
          3780 1055
          3781 7848
                                CMA
          3702 7420
                                SNL
          3783 7440
                                SZA
                                                /CIA FAILED AC SHOULD EQUAL ØØØØ
          3784
               7482
                                HLT
                        /GROUP 1 OPERATE TEST 78
          3705 7300
                                CLA CLL
                                                        ITEST PATTERN
          3796 1977
                                TAD K776Ø
                                                /AC EQUALS 8020
          3707 7041
                                CIA
                                TAD K7757
          3710 1056
          3711 7040
                                CMA
          3712 7420
                                SNL
          3713 7440
                                SZA
                                                /CIA FAILED AC SHOULD EQUAL 8000
          3714 7482
                                HLT
                                                /LINK SHOULD EQUAL ZERO
                        AGROUP 1 OPERATE TEST 79
          3715 7300
                                CLA CLL
```

```
16:26 PAGE 1-48
/PDP-8/E INSTRUCTION TEST 1 MAINDEC-8E-DØAB PAL10 V141
                                                               9-JUN-71
                                                      ITEST PATTERN
                               TAD K7740
         3716 1076
          3717 7041
                               CIA
                                                     /AC EQUALS 0040
          3720 1057
                               TAD K7737
                               CMA
          3721 7040
          3722 7420
                               SNL
         3723 7440
                               SZA
                                               /CIA FAILED AC SHOULD EQUAL 0000
         3724 7402
                               HLT
                                               /LINK SHOULD EQUAL ZERO
                        /GROUP 1 OPERATE TEST 80
         3725 7300
                               CLA CLL
                                                      /TEST PATTERN
          3726 1113
                               TAD K7700
                                               /AC EQUALS 0100
          3727 7041
                               CIA
                               TAD K7677
          3730 1061
          3731 7848
                               CMA
          3732 7420
                               SNL
                               SZA
         3733 7440
                                               /CIA FAILED A SHOULD EQUAL DODO
         3734 7402
                               HLT
                                               /LINK SHOULD EQUAL ZERO
                        /GROUP 1 OPERATE TEST 81
                               CLA CLL
         3735 7300
                                                       ITEST PATTERN
                               TAD K7600
          3736 1075
                                               /AC EQUALS #200
         3737 7841
                               CIA
                               TAD K7577
          3740 1962
                               CMA
          3741 7040
                               SNL
          3742 7420
         3743 7440
                               SZA
                                               /CIA FAILED AC SHOULD EQUAL 8000
         3744 7402
                               HLT
                                               /LINK SHOULD EQUAL ZERO
                       /GROUP 1 OPERATE TEST 82
         3745 7300
                               CLA CLL
                                                     ITEST PATTERN
                               TAD K7400
          3746 1974
                                               /AC EQUALS 8488
                               CIA
         3747 7941
                               TAD K7377
          3750 1063
                               CMA
          3751
               7040
                               SNL
          3752
              7420
         3753 7440
                               SZA
                                               /CIA FAILED AC SHOULD EQUAL BOOD
          3754 7402
                               HLT
                                               /LINK SHOULD EQUAL ZERO
                        /GROUP 1 OPERATE TEST 83
               7300
                               CLA CLL
          3755
                                                       JTEST PATTERN
                               TAD K7000
         3756 1073
                                               /AC EQUALS 1000
         3757 7041
                               CIA
                               TAD K6777
         3760 1064
               7040
                               CMA
          3761
                               SNL
          3762 7420
                               SZA
         3763 7440
                                               /CIA FAILED AC SHOULD EQUAL 8000
         3764 7402
                               HLT
                                               /LINK SHOULD EQUAL ZERO
                        /GROUP 1 OPERATE TEST 84
         3765 7300
                               CLA CLL
                                                      TEST PATTERN
                               TAD K6000
         3766 1072
```

```
16:26 PAGE 1-49
/PDP-8/E INSTRUCTION TEST 1 MAINDEC-8E-DØAB PAL10 V141
                                                             9-JUN-71
          3767 7041
                                                /AC EQUALS 2000
                                CIA
          3770 1065
                                TAD K5777
          3771
               7040
                                CMA
          3772 7420
                                SNL
          3773 7440
                                SZA
          3774 7482
                                HLT
                                                /CIA FAILED AC SHOULD EQUAL 0000
                                                /LINK SHOULD EQUAL ZERO
                        /GROUP 1 OPERATE TEST 85
          3775 7300
                                CLA CLL
          3776 1050
                                TAD K4000
                                                       /TEST PATTERN
          3777
                                                /AC EQUALS 4000
               7041
                                CIA
          4000
               1066
                                TAD K3777
          4001
               7040
                                CMA
          4882
               7420
                                SNL
          4003 7440
                                SZA
                                                /CIA FALED AC SHOULD EQUUA 606
          4684 7402
                                                /LINK SHOULD EQUALL ZERO
                        /GROUP 1 OPERATE TEST 86
          4005 7300
                                CLA CLL
          4006 1020
                                TAD KODOO
                                                        ITEST PATTERN
          4007 7041
                                                /AC EQUALS $000, LINK EQUALS A ONE
                                CIA
               7450
          4010
                                SNA
          4011
               7420
                                SNL
          4012 7402
                                                /CIA FAILED AC SHOULD EQUAL 8000
                                HLT
                                                /LINK SHOULD EQUAL A ONE
                        /GROUP OPERATE TEST 87
          4013 7340
                                                /AC=7777.LEØ
                                CLA CMA CLL
          4814 7311
                                CLA CLL IAC RAR /AC=Ø,L=1
          4815
               7430
                                SZL
          4016 7440
                                SZA
                                                PERROR! LINC NOT SET OR
          4817 7482
                                HLT
                                                /AC NOT Ø
                        /GROUP 1 OPERATE TEST 88
          4020
               7360
                                CLA CMA CLL CML /AC=7777,L=1
                                CLA CLL IAC RAL /AC=2,L=0
          4021
               7305
          4022
               7430
                                SZL
          4023
               7482
                                                /ERROR; LINC NOT Ø
                                HLT
                                CHA IAC
          4824
               7941
          4025
                1022
                                TAD K0002
          4026
               7440
                                ASE
                                                /ERROR AC NOT=2
               7402
                                HLT
          4027
                        /GROUP 1 OPERATE TEST 89
          4030 7320
                                CLA CLL CML
                                                /AC=0,L=1
          4031
               7313
                                CLA CLL IAC RTR /AC=4000,L=0
          4032
               7430
                                SZL
               7402
                                                /ERROR; LINC NOT Ø
          4033
                                HLT
          4034
               7500
                                SMA
               7402
                                                /ERROR; AC NOT 4000
                                HLT
          4035
                        /GROUP 1 OPERATE TEST 90
          4036 7360
                                CLA CMA CLL CML
                                                       /AC=7777,L=1
```

```
/PDP-8/E INSTRUCTION TEST 1 MAINDEC-8E-DØAB PALIØ V141
                                                              9-JUN-71
                                                                              16:26 PAGE 1-58
          4037 7307
                               CLA CLL IAC RTL /AC=4,LINC=0
          4040 7430
                               SZL
              7482
          4041
                               HLT
                                             /ERROR; LINC NOT Ø
          4042 7041
                               CMA IAC
         4043 1024
                               TAD K0004
              7440
         4044
                               SZA
         4045 7482
                                              /ERROR; AC NOT 4
                               HLT
                       /GROUP 1 OPERATE TEST 91
         4046 7300
                               CLA CLL
                                              /AC=0. L=0
         4047 7331
                               CLA CLL CML IAC RAR /AC=4000, L=1
         4050 7520
                               SMA SNL
         4051 7482
                               HLT
                                              /ERROR; AC NOT 4000 OR
                                              /LINC NOT 1
                       /GROUP 1 OPERATE TEST 92
         4052 7300
                               CLA CLL
                                             /AC=0,L=0
         4053 7345
                               CLA CMA CLL IAC RAL /AC=0001,L=0
         4054 7430
                               SZL
         4055 7402
                               HLT
                                              /LINC NOT=B
         4056
               7041
                               CMA IAC
         4057 1021
                               TAD KØØØ1
         4060
              7440
                               SZA
         4061 7402
                                             /AC NOT 0001
                               HLT
                       /GROUP 1 OPERATE TEST 93
         4062 7360
                               CLA CMA CLL CML
                                                  /AC=7777,L=1
         4063 7373
                               CLA CMA CLL CML IAC RTR /AC=Ø,L=Ø
              7448
         4064
                              SZA
         4065 7492
                                              /ERROR;
                               HLT
         4046 7430
                               SEL
         4067 7402
                                              /ERROR;
                               HLT
                      /GROUP 1 OPERATE TEST 94
         4070 7332
                               CLA CLL CML RTR
                                                     /L=6 AC=2000
         4071
              7006
                               RTL
                                                     /L=1 AC=6000
         4072 7430
                               SEL
         4073 7440
                               SEA
         4074 7402
                              HLT
                                                      /CLA CLL CML RTR OR RTL FAILED
                      /GROUP 1 OPERATE TEST 95
         4075 7360
                              CLA CMA CLL CML
         4076 7342
                              CLA CLL CMA BSW/AC=7777 LINK=Ø
         4077 7040
                              CMA
         4100 7420
                              SNL
         4101 7440
                              SZA
         4102 7402
                                              17742 FAILED
                              HLT
                      /GROUP 1 OPERATE TEST 96
         4103 7360
                              CLA CMA CLL CML
         4104 7303
                              CLA CLL IAC BSW /AC=0100 LINK=0
         4105 1061
                                              /AC=7777
                              TAD
                                      K7677
         4106 7040
                              CMA
                                              /AC=0000
```

```
/PDP-8/E INSTRUCTION TEST 1 MAINDEC-8E-DBAB PAL18 V141
                                                              9-JUN-71
                                                                                16:26
                                                                                        PAGE 1-51
          4107 7420
                                SNL
          4110 7440
                                SZA
                                              17703 FAILED
          4111 7482
                                HLT
                        /GROUP 1 OPERATE TEST 97
          4112 7360
                                CLA CMA CLL CML
          4113 7343
                                CLA CLL CMA IAC BSW
                                                      /AC=0000 LINK=1
          4114 7430
                                SZL
          4115 7440
                                SZA
                                               17743 FAILED
          4116 7402
                                HLT
                        /GROUP 1 OPERATE TEST 98
          4117 7360
                                CLA CMA CLL CML
          4120 7363
                                CLA CLL CMA CML IAC BSW /AC=0000 LINK=0
          4121 7428
                                SNL
          4122 7440
                                SZA
          4123 7482
                                                17763 FAILED
                                HLT
                        /GROUP 1 OPERATE TEST 99
          4124 7300
                                CLA CLL
          4125 1843
                                        K1234
                                TAD
                                                        /AC=4465 L=1
          4126 7863
                                CMA CML IAC BSW
                                        K3312
          4127 1847
                                TAD
               7040
          4130
                                CMA
          4131 7430
                                SEL
          4132 7440
                                SZA
          4133 7402
                                HLT
                                               /7063 FAILED
                        /GROUP 1 OPERATE TEST 100
                                                        /AC=2000 L=1
          4134 7332
                                CLA CLL CML RTR
                                                        /AC=0060 L=1
                                CHA CHL IAC BSW
          4135 7063
                                                        /AC=7777 L=1
          4136 1051
                                TAD
                                        K7717
          4137 7848
                                CMA
          4140 7430
                                SZL
          4141 7440
                                SZA
                                                        17063 FAILED
          4142 7482
                                HLT
                        /GROUP 2 OPERATE TEST 1
                                                /AC=7777
          4143 7240
                                CLA CMA
          4144 7788
                                CLA SMA
                                                /TEST COMBINATION
                                                /CLA SMA DID NOT SKIP
          4145
               7482
                                HLT
                                                /AC SHOULD BE 0000
          4146 7440
                                SZA
                                                /CLA SMA DID NOT CLEAR AC
          4147 7402
                                HLT
                                                /AC SHOULD BE 0000
                        /GROUP 2 OPERATE TEST 2
                                                /AC=7777
          4150 7240
                                CLA CMA
                                CLA SZA
                                                /TEST COMBINATION
          4151 7640
          4152 7440
                                SZA
                                                /CLA SZA SKIPPED OR AC NOT
          4153 7402
                                HLT
                                                /CLEARED TO 0000
                        /GROUP 2 OPERATE TEST 3
                                                /AC=7777
          4154 7240
                                CLA CMA
```

```
16:26 PAGE 1-52
                                                PAL18 V141
                                                                9-JUN-71
/PDP-8/E INSTRUCTION TEST 1 MAINDEC-8E-DØA8
                                                /TEST COMBINATION
                                SMA SZA
          4155 7540
                                                /SMA SZA SHOULD HAVE SKIPPED
          4156 7482
                                HLT
                                                /AC SHOULD EQUAL 7777
                        /GROUP 2 OPERATE TEST 4
                                                /AC=0000
          4157 7200
                                CLA
                                                /TEST COMBINATION
          4160 7540
                                SMA SZA
                                                /SMA SZA SHOULD HAVE SKIPPED
          4161 7482
                                HLT
                                                /AC SHOULD EQUAL 0000
                        /GROUP 2 OPERATE TEST 5
          4162 7260
                                CLA
                                                        /AC=3777
                                TAD K3777
          4163 1066
                                                /TEST COMBINATION
          4164 7540
                                SMA SZA
          4165 7450
                                SNA
                                                /SMA SZA SHOULD NOT HAVE SKPPED
          4166 7482
                                HLT
                                                /AC SHOULD EQUAL 3777
                        /GROUP 2 OPERATE TEST 6
                                                /AC=7777
                                CLA CMA
          4167 7240
                                                /TEST COMBINATION
                                CLA SMA SZA
          4178 7748
                                                /CLA SMA SZA SHOULD HAVE SKIPPED
                                HLT
          4171
              7462
                                                /AC SHOULD BE 0000
          4172 7440
                                SZA
                                HLT
                                                /AC WAS NOT CLEARED
          4173 7462
                                                /AC SHOULD BE 0000
                        /GROUP 2 OPERATE TEST 7
                                                /AC=0000
          4174 7288
                                CLA
                                                /TEST COMBINATION
          4175 7740
                                CLA SMA SEA
                                                /CLA SHA SZA SHOULD HAVE SKIPPED
                                HLT
          4176 7482
                                                /AC SHOULD BE 0000
                                SZA
          4177 7440
                                                /AC WAS NOT CLEARED
          4200 7402
                                HLT
                                                /AC SHOULD BE BOSS
                        /GROUP 2 OPERATE TEST 8
          4201 7200
                                CLA
                                                        /AC=3777
                                TAD K3777
          4202 1066
                                                /TEST COMBINATION
                                CLA SMA SZA
          4203 7740
          4284 7448
                                SZA
                                                /SMA SZA DID NOT SKIP OR AC
                                HLT
          4205 7402
                                                /NOT CLEARED TO 8888
                        /GROUP 2 OPERATE TEST 9
                                                /LINK=0
                                CLL CLA
          4206 7300
                                                        /AC=5252
                                TAD K5252
          4207 1070
                                CLA SNL
                                                /TEST COMBINATION
          4210 7620
         4211 7440
                                SZA
                                                /SNL SKIPPED OR AC NOT CLEARED
         4212 7402
                                HLT
                                                JAC AND LINK SHOULD EQUAL BERO
                        /GROUP 2 OPERATE TEST 10
         4213 7320
                                CLA CLL CML
                                                        /AC=2525 LINK=1
                                TAD K2525
          4214 1071
                                                /TEST COMBINATION
                                CLA SNL
          4215 7620
                                                /SNL DID NOT SKIP
```

HLT

```
/PDP-8/E INSTRUCTION TEST 1 MAINDEC-8E-DØAB
                                                 PAL10
                                                          V141
                                                                  9-JUN-71
                                                                                  16126
                                                                                           PAGE 1-53
                                                  /LINK SHOULD EQUAL ONE
          4217 7440
                                 SZA
          4220 7402
                                 HLT
                                                  /CLA SNL DID NOT CLEAR AC
                                                  /AC SHOULD EQUAL ØØØØ
                         /GROUP 2 OPERATE TEST 11
          4221
                7300
                                 CLA CLL
                                                 /AC=0000 LINK=0
          4222
                752Ø
                                 SMA SNL
                                                 /TEST COMBINATION
          4223 7440
                                 SZA
          4224 7482
                                 HLT
                                                 /SMA SNL SKIPPED. AC AND LINK
                                                 /SHOULD EQUAL ZERO
                        /GROUP 2 OPERATE TEST 12
          4225
                7520
                                 CLA CLL CML
                                                 /AC=0000 LINK=1
          4226
               7520
                                 SMA SNL
                                                 /TEST COMBINATION
          4227
               7482
                                 HLT
                                                 /SNL SHOULD HAVE SKIPPED. LINK = 1
                        /GROUP 2 OPERATE TEST 13
          4230
                7300
                                 CLA CLL
          4231
               1050
                                 TAD K4000
                                                         /AC=4000 LINK=0
          4232
               7520
                                SMA SNL
                                                 /TEST COMBINATION
          4233 7482
                                HLT
                                                 /SMA SHOULD HAVE SKIPPED
                                                 /AC=4000
                        /GROUP 2 OPERATE TEST 14
          4234
               7320
                                CLA CLL CML
          4235
               1050
                                TAD K4000
                                                         /AC=4000 LINK=1
          4236
               7520
                                SMA SNL
                                                 /TEST COMBINATION
         4237 7402
                                HLT
                                                 /SMA SNL SHOULD HAVE SKIPPED
                                                 /AC=4888 LINK=1
                        /GROUP 2 OPERATE TEST 15
         4240
               7300
                                CLA CLL
                                                 /AC=0000 LINK=0
         4241
               7720
                                CLA SMA SNL
                                                 /TEST COMBINATION
         4242
               7448
                                SZA
         4243 7402
                                HLT
                                                 /SMA SNL SKIPPED. AC AND LINK
                                                 /SHOULD BE ZERO
                        /GROUP 2 OPERATE TEST 16
         4244
               7320
                                CLA CLL CML
                                                /AC=0000 LINK=1
         4245
               7720
                                CLA SMA SNL
                                                /TEST COMBINATION
         4246
               7402
                                HLT
                                                /SNL SHOULD HAVE SKIPPED
                                                /LINK=1
         4247
               7440
                                SZA
         4250
              7482
                                HLT
                                                /CLA SMA SNL DID NOT CLEAR AC
                                                /AC SHOULD EQUAL ZERO
                       /GROUP 2 OPERATE TEST 17
         4251
               7300
                                CLA CLL
         4252
               1050
                                TAD K4000
                                                        /AC=4000 LINK=0
         4253
               7720
                                CLA SMA SNL
                                                /TEST COMBINATION
         4254
               7402
                                HLT
                                                /SMA SHOULD HAVE SKIPPED
                                                /AC SHOULD EQUAL BODD LINK=D
         4255
               7440
                               SZA
         4256 7402
                                HLT
                                                /CLA SMA SNL DID NOT CLEAR AC
                                                /AC SHOULD EQUAL 0000
                       /GROUP 2 OPERATE TEST 18
         4257
              7320
                               CLA CLL CML
         4260 1050
                               TAD K4000
                                                        /AC=4000 LINK=1
```

```
/PDP-8/E INSTRUCTION TEST 1 MAINDEC-8E-DØAB
                                                PAL10
                                                        V141
                                                                 9-JUN-71
                                                                                 16:26
                                                                                         PAGE 1-54
                                                ITEST COMBINATION
          4261 7720
                                CLA SMA SNL
                                                 /CLA SMA SNL SHOULD HAVE SKIPPED
          4262 7402
                                HLT
                                                 /AC SHOULD BE 0000
                                                                      LINK=1
          4263 7440
                                SZA
                                                 /CLA SMA SNL DID NOT CLEAR AC
          4264 7482
                                HLT
                                                 /AC SHOULD BE 0000 LINK=1
                        /GROUP 2 OPERATE TEST 19
          4265 7300
                                                 /AC=0000 LINK=0
                                CLA CLL
          4266 7460
                                                 /TEST COMBINATION
                                SZA SNL
          4267 7482
                                HLT
                                                 /SZA SNL DID NOT SKIP
                                                 /AC=0000
                        /GROUP 2 OPERATE TEST 20
                                                /AC=0000 LINK=1
          4270 7520
                                CLL CLA CML
                                                 /TEST COMBINATION
          4271
               7460
                                SZA SNL
          4272 7482
                                HLT
                                                 /SZA SNL DID NOT SKIP
                                                 /AC=0000 LINK=1
                        /GROUP 2 OPERATE TEST 21
          4273 7300
                                CLA CLL
                                                         /AC=0400 LINK=0
          4274
                1040
                                TAD KØ400
                                                 /TEST COMBINATION
          4275 7460
                                SZA SNL
          4276 7450
                                SNA
                                                 ISTA SNL SKIPPED
          4277 7402
                                HLT
                                                 /AC=0400 LINK=0
                        /GROUP 2 OPERATE TEST 22
               7320
                                CLA CLL CML
          4300
          4301 1032
                                TAD KØØ4Ø
                                                         /AC=0040 LINK=1
                                                 ITEST COMBINATION
                                SEA SNL
          4382
              7468
          4303 7402
                                HLT
                                                 /SZA SNL SHOULD HAVE SKIPPED
                                                 /LINK=1
                        /GROUP 2 OPERATE TEST 23
                7300
                                                 /AC=8888 LINK=8
          4384
                                CLA CLL
                                                 ITEST COMBINATION
          4385
               7660
                                CLA SZA SNL
                                                 /CLA SEA SNL SHOULD HAVE SKIPPED
          4386
                7482
                                HLT
                                                 VAC AND LINK SHOULD EQUAL ZERO
                                SZA
          4307
                7440
                                                 /CLA SZA SNL DID NOT CLEAR AC
          4310 7402
                                HLT
                                                 /AC SHOULD BE 0000
                        /GROUP 2 OPERATE TEST 24
                                                 JAC=0000 LINK=1
          4311 7328
                                CLA CLL CML
                                CLA SZA SNL
                                                 /TEST COMBINATION
          4312 7660
                                                 /CLA SZA SNL SHOULD HAVE SKIPPED
          4313 7402
                                HLT
                                                 /AC=0000 LINK=1
          4314 7448
                                SZA
                                                 /CLA SZA SNL DID NOT CLEAR AC
          4315 7402
                                HLT
                                                 /AC SHOULD EQUAL 0000
                        /GROUP 2 OPERATE TEST 25
          4316 7320
                                CLA CLL CML
                                                         /AC=0200 LINK=1
                                TAD KØ2ØØ
          4317 1036
                                CLA SZA SNL
                                                         /TEST COMBINATION OR
          4320 7660
                                                 /CLA SZA SNL SHOULD HAVE SKIPPED
               7482
          4321
                                HLT
                                                 /LINK=1
          4322 7440
                                SZA
                                                 /CLA SZA SNL DID NOT CLEAR AC
          4323 7402
                                HLT
```

```
/PDP-8/E INSTRUCTION TEST 1 MAINDEC-8E-DØAB PAL1Ø V141
                                                            9-JUN-71
                                                                              16:26 PAGE 1-55
                                               /AC SHOULD EQUAL 0000
                       /GROUP 2 OPERATE TEST 26
          4324 7300
                               CLA CLL
          4325 1045
                               TAD K2000
                                                      /AC=2000 LINK=0
          4326 7668
                               CLA SZA SNL
                                              /TEST COMBINATION
          4327 7440
                               SZA
          4330 7422
                               HLT
                                              /CLA SZA SNL FAILED. AC AND
                                               /LINK SHOULD EQUAL ZERO
                       /GROUP 2 OPERATE TEST 27
         4331 7300
                               CLA CLL
                                              /AC=0000 LINK=0
         4332 7560
                               SMA SZA SNL
                                              /TEST COMBINATION
         4333 7482
                               HLT
                                              /SMA SZA SNL SHOULD HAVE SKIPPED
                                              /AC=0000 LINK=0
                       /GROUP 2 OPERATE TEST 28
         4334 7320
                               CLA CLL CML
         4335 1066
                               TAD K3777
                                                      /AC=3777 LINK=1
         4336 7560
                               SMA SZA SNL
                                              /TEST COMBINATION
         4337 7402
                               HLT
                                              /SMA SZA SNL SHOULD HAVE SKIPPED
                                              /ACE3777 LINKE1
                       /GROUP 2 OPERATE TEST 29
         4340 7300
                               CLA CLL
         4341 1050
                               TAD K4000
                                                      /AC=4000 LINK=0
         4342 7560
                               SMA SZA SNL
                                              /TEST COMBINATION
         4343 7482
                                              /SMA SZA SNL SHOULD HAVE SKIPPED
                              HLT
                                              /AC=4999 LINK=9
                       /GROUP 2 OPERATE TEST 30
         4344 7388
                              CLA CLL
         4345 1066
                              TAD K3777
                                                      /AC=3777 LINK=Ø
         4346 7560
                                           /TEST COMBINATION
                              SMA SZA SNL
         4347 7450
                              SNA
         4350 7482
                                              /SMA SZA SNL SHOULD NOT HAVE
                              HLT
                                              /SKIPPED. AC=3777 LINK=0
                      /GROUP 2 OPERATE TEST 31
         4351 7300
                              CLA CLL
                                              /AC=0000 LINK=0
         4352 7760
                              CLA SMA SZA SNL /TEST COMBINATION
         4353 7402
                              HLT
                                              /CLA SMA SZA SNL SHOULD HAVE SKIPPED
                                              /AC SHOULD EQUAL BODD
         4354 7440
                              SZA
         4355 7482
                              HLT
                                              /AC NOT ZERO AFTER CLA SMA SZA SNL
                                              /AC SHOULD BE ØØØØ LINK≖Ø
                      /GROUP 2 OPERATE TEST 32
         4356 7320
                              CLA CLL CML
         4357 1066
                              TAD K3777
                                                     /AC=3777 LINK=1
         4360 7760
                              CLA SMA SZA SNL /TEST COMBINATION
         4361 7402
                              HLT
                                              /CLA SMA SZA SNL DID NOT SKIP
                                              /AC SHOULD BE 0000 LINK=1
         4362 7440
                              SZA
         4363 7402
                              HLT
                                              /CLA SMA SZA SNL DID NOT CLEAR AC
                                              /AC SHOULD EQUAL 0000 LINK=1
                      /GROUP 2 OPERATE TEST 33
         4364 7300
                              CLA CLL
```

```
/PDP-8/E INSTRUCTION TEST 1 MAINDEC-8E-DØAB PAL1Ø V141
                                                             9-JUN-71
                                                                               16:26 PAGE 1-56
                                                       JAC=4000 LINK=0
          4365 1050
                                TAD K4000
                                CLA SMA SZA SNL /TEST COMBINATION
          4366 7760
          4367 7482
                                                /CLA SMA SZA SNL SHOULD HAVE SKIPPED
                                HLT
                                                /AC SHOULD BE 0000. LINK=0
          4370 7440
                                SZA
                                                /CLA SMA SZA SNL DID NOT CLEAR AC
          4371 7482
                                HLT
                                                /AC SHOULD EQUAL 0000
                        /GROUP 2 OPERATE TEST 34
          4372 7300
                                CLA CLL
                                                       JAC=3777 LINK=Ø
                                TAD K3777
          4373 1066
                                CLA SMA SZA SNL /TEST COMBINATION
          4374 7760
          4375 7440
                                SZA
          4376 7402
                                                /CLA SMA SZA SNL FAILED, AC
                                HLT
                                                /SHOULD BE ZERO, LINK=0
                        /GROUP 2 OPERATE TEST 35
                                                /AC=0000 LINK=0
          4377 7300
                                CLA CLL
                                                /TEST INSTRUCTION
          4400 7410
                                SKP
                                                /SKIP FAILED
          4481 7482
                                HLT
                                                /AC AND LINK EQUAL ZERO
                        /GROUP 2 OPERATE TEST 36
                                                /AC=0000 LINK=1
          4462 7320
                                CLA CLL CML
          4403 7410
                                                /TEST INSTRUCTION
                                SKP
                                                /SKIP FAILED
          4484 7482
                                HLT
                                                /AC=0000 LINK*1
                        /GROUP 2 OPERATE TEST 37
          4405 7320
                                CLA CLL CML
                                TAD K3777
                                                       /AC=3777 LINK=1
          4486 1866
                                                /TEST INSTRUCTION
          4407 7410
                                SKP
                                                /SKIP FAILED
                                HLT
          4418 7482
                                                JAC=3777 LINK=1
                        /GROUP 2 OPERATE TEST 38
          4411 7300
                                CLA CLL
                                                       /AC=3777 LINK=Ø
          4412 1866
                                TAD K3777
                                                /TEST INSTRUCTION
          4413 7410
                                SKP
                                                /SKIP FAILED
          4414 7482
                                HLT
                                                /AC=3777 LINK=Ø
                        /GROUP 2 OPERATE TEST 39
          4415 7200
                                CLA
                                TAD K3777
                                                       /AC=3777
          4416 1866
         4417 7718
                                CLA SPA
                                                ITEST COMBINATION
                                                /CLA SPA DID NOT SKIP. AC
         4420
              7402
                                HLT
                                                /SHOULD BE ZERO
                                SZA
         4421 7440
                                                /CLA SPA DID NOT CLEAR AC
                                HLT
         4422 7482
                                                /AC SHOULD EQUAL ZERO
                        /GROUP 2 OPERATE TEST 40
         4423 7200
                                CLA
                                                       /AC=4000
          4424 1050
                                TAD K4000
                                                /TEST COMBINATION
          4425 7710
                                CLA SPA
          4426 7440
                                SZA
          4427 7482
                                                /CLA SPA FAILED, AC SHOULD
                                HLT
                                                /EQUAL 0000
                        /GROUP 2 OPERATE TEST 41
```

```
/PDP-8/E INSTRUCTION TEST 1 MAINDEC-8E-DEAB
                                                                9-JUN-71 16:26 PAGE 1-57
                                               PALIØ V141
                                                /AC=7777
          4430 7240
                                CLA CMA
          4431 7650
                                                /TEST COMBINATION
                                CLA SNA
          4432 7402
                                                /CLA SNA DID NOT SKIP
                                HLT
                                                /AC SHOULD BE 0000
                        /GROUP 2 OPERATE TEST 42
          4433 7200
                                                /AC=0000
                                CLA
                                CLA SNA
          4434 7650
                                                /TEST COMBINATION
          4435 7440
                                SZA
          4436 7402
                                HLT
                                                /CLA SNA FAILED
                                                /AC SHOULD EQUAL 0000
                        /GROUP 2 OPERATE TEST 43
          4437 7200
                                                /AC=0000
                                CLA
          4440 7550
                                                ITEST COMBINATION (AND)
                                SPA SNA
          4441 7448
                                SZA
          4442 7482
                                                /SPA SNA SKIPPED
                                HLT
                                                /AC=0000
                        /GROUP 2 OPERATE TEST 44
          4443 7288
                                CLA
          4444 1066
                                TAD K3777
                                                        /AC=3777
                                                /TEST COMBINATION (AND)
          4445 7550
                                SPA SNA
          4446 7482
                                HLT
                                                /SPA SNA FAILED TO SKIP
                                                /AC=3777
                        /GROUP 2 OPERATE TEST 45
          4447 7200
                                CLA
          4450 1050
                                TAD K4000
                                                        /AC=4888
                                SPA SNA
                                                /TEST COMBINATION (AND)
          4451 7550
          4452 7450
                                SNA
          4453 7402
                                                /SPA SNA SKIPPED.
                                HLT
                                                /AC=4900
                        /GROUP 2 OPERATE TEST 46
               7200
                                                /AC=0868
          4454
                                CLA
          4455 7750
                                CLA SPA SNA
                                                /TEST COMBINATION (AND)
          4456 7448
                                SZA
          4497 7402
                                                /CLA SPA SNA FAILED.
                                HLT
                                                /AC SHOULD BE 0000
                        /GROUP 2 OPERATE TEST 47
          4460 7200
                                CLA
          4461 1866
                                TAD K3777
                                                        /AC=3777
          4462 7750
                                CLA SPA SNA
                                                /TEST COMBINATION (AND)
          4463 7402
                                                /CLA SPA SNA DID NOT SKIP
                                HLT
                                                /AC SHOULD BE 0000
          4464 7440
                                SZA
                                                /CLA SPA SNA DID NOT CLEAR THE AC
          4465 7402
                                HLT
                                                /AC SHOULD EQUAL 0000
                        /GROUP 2 OPERATE TEST 48
          4466 7200
                                CLA
          4467 1050
                                TAD K4000
                                                        /AC=4000
                                CLA SPA SNA
                                                /TEST COMBINATION (AND)
          4470 7750
          4471 7440
                                SZA
          4472 7402
                                HLT
                                                /CLA SPA SNA FAILED
                                                /AC SHOULD EQUAL ZERO
```

```
/INSTRUCTION TEST - TAPE 4
               /GROUP 2 OPERATE TEST 49
 4473 7380
                       CLA CLL
 4474 1070
                       TAD K5252
                                                /AC=5252 LINK=Ø
 4475 7630
                       CLA SZL
                                       /TEST COMBINATION
 4476 7482
                       HLT
                                       /CLA SZL DID NOT SKIP
                                       /AC AND LINK SHOULD BE Ø
 4477 7440
                       SZA
 4500 7402
                                       /CLA SEL DID NOT CLEAR AC
                       HLT
                                       /AC SHOULD BE ZERO. LINK##
               /GROUP 2 OPERATE TEST 50
 4501 7360
                       CLA CLL CML CMA /AC=7777 LINK=1
 4502 7630
                       CLA SZL
                                       /TEST COMBINATION (AND)
4503 7440
                       SZA
4504 7402
                       HLT
                                       /CLA SZL FAILED. AC SHOULD
                                       /BE 0000. LINK=1
               /GROUP 2 OPERATE TEST 51
4505
      7300
                       CLA CLL
4506
      1066
                       TAD K3777
                                               /AC=3777 LINK=Ø
4597 7530
                       SPA SZL
                                       /TEST COMBINATION (AND)
4510 7402
                       HLT
                                       /SPA SZL DID NOT SKIP
                                       /AC=3777 LINK=Ø
               /GROUP 2 OPERATE TEST 52
4511 7320
                       CLA CLL CML
4512 1066
                       TAD K3777
                                               /AC=3777 LINK=1
4513 7530
                       SPA SZL
                                       /TEST COMBINATION (AND)
4514 7450
                       SNA
4515 7482
                       HLT
                                       /SPA SEL SKIPPED
                                       /AC=3777 LINK=1
              /GROUP 2 OPERATE TEST 53
4516 7300
                      CLA CLL
      1050
4517
                      TAD K4000
                                               /AC=4000 LINK-8
4528
     753Ø
                      SPA SZL
                                       /TEST COMBINATION (AND)
4521
      7500
                      SMA
4522 7482
                      HLT
                                       /SPA SZL SKIPPED
                                       /AC=4888 LINK=8
              /GROUP 2 OPERATE TEST 54
4523 7300
                      CLA CLL
4524 1066
                      TAD K3777
                                              /AC=3777 LINK=Ø
4525 7730
                      CLA SPA SEL
                                       /TEST COMBINATION (AND)
4526 7402
                                      /CLA SPA SEL SHOULD HAVE SKIPPED
                      HLT
                                      /AC SHOULD BE 0000. LINK#0
4527 7440
                      SZA
4530 7482
                      HLT
                                      /CLA SPA SEL DID NOT CLEAR THE AC
                                      /AC SHOULD BE 0000
              /GROUP 2 OPERATE TEST 55
4531 7320
                      CLA CLL CML
4532 1066
                      TAD K3777
                                              /AC=3777 LINK=1
4533 7730
                      CLA SPA SZL
                                      /TEST COMBINATION (AND)
```

```
16:26 PAGE 1-59
                                                             9-JUN-71
/PDP-8/F INSTRUCTION TEST 1 MAINDEC-8E-DOAR PALIO V141
          4534 7440
                                SZA
          4535 7482
                                               /CLA SPA SZL FAILED
                                HLT
                                               /AC SHOULD EQUAL 0000 LINK=1
                        /GROUP 2 OPERATE TEST 56
          4536 7300
                                CLA CLL
                                                       /AC=4000 LINK=0
          4537 1050
                                TAD K4000
                                               /TEST COMBINATION (AND)
          4540 7730
                                CLA SPA SEL
          4541 7440
                                SZA
          4542 7482
                                               /CLA SPA SEL FAILED
                                HLT
                                               /AC SHOULD EQUAL 8888 LINK=8
                        /GROUP 2 OPERATE TEST 57
          4543 7388
                                CLA CLL
          4544 1050
                                TAD K4888
                                                       /AC=4000 LINK=0
          4545 7470
                                                /TEST COMBINATION (AND)
                                SNA SZL
                                               /SNA SZL DID NOT SKIP
          4546 7482
                                HLT
                                               /AC = 4000 LINK=0
                        /GROUP 2 OPERATE TEST 58
          4547 7320
                                CLA CLL CML
          4550 1050
                                TAD K4000
                                                       /AC=4888 LINK=1
                                SNA SZL
                                               ITEST COMBINATION (AND)
          4551 7470
          4552 7420
                                SNL
          4553 7402
                                               /SNA SZL SKIPPED
                                HLT
                                               /AC-4000 LINK=1
                        /GROUP 2 OPERATE TEST 59
          4554 7300
                                CLA CLL
                                               /AC=0000 LINK=0
                                               /TEST COMBINATION (AND)
          4555 7470
                                SNA SZL
          4556 7439
                                SZL
          4557 7492
                                               /SNA SZL SKIPPED
                                HLT
                                               /AC=0000 LINK=0
                        /GROUP 2 OPERATE TEST 60
          4569 7328
                                CLA CLL CML
          4561 1950
                                                       /AC=4000 LINK=1
                                TAD K4888
          4562 7678
                                CLA SNA SEL
                                               /TEST COMBINATION (AND)
          4563 7440
                                SZA
                                               /CLA SNA SEL FAILED, AC SHOULD
          4564 7482
                                HLT
                                               /BE 0000. LINK=1
                        /GROUP 2 OPERATE TEST 61
          4545 7300
                                CLA CLL
                                                       /AC=4000 LINK=0
          4566 1050
                                TAD K4888
                                               /TEST COMBINATION (AND)
          4567
               7670
                                CLA SNA SEL
          4570 7402
                                               /CLA SNA SEL DID NOT SKIP
                                HLT
                                               /AC SHOULD BE 0000. LINK.#Ø
          4571 7440
                                SZA
          4572 7402
                                                /CLA SNA SEL DID NOT CLEAR AC
                                                /AC AND LINK SHOULD BE ZERO
                        /GROUP 2 OPERATE TEST 62
                                                /AC=0000 LINK=0
          4573 7300
                                CLA CLL
                                               /TEST COMBINATION (AND)
          4574 7670
                                CLA SNA SZL
          4575 7440
                                SEA
                                                /CLA SNA SEL FAILED. AC SHOULD
          4576 7482
                                HLT
                                                /BE 0000, LINK=0
                        /GROUP 2 OPERATE TEST 63
```

4577 7300

CLA CLL

```
/PDP-8/E INSTRUCTION TEST 1 MAINDEC-8E-DØAB PAL10 V141
                                                                              16:26 PAGE 1-60
                                                               9-JUN-71
                                                       /AC-3777 LINK#Ø
          4600 1066
                               TAD K3777
                                               /TEST COMBINATION (AND)
          4601 7570
                               SPA SNA SZL
                                               /SPA SNA SZL DIO NOT SKIP
          4602 7482
                               HLT
                                               /AC=3777 LINK=0
                       /GROUP 2 OPERATE TEST 64
          4663 7320
                               CLA CLL CML
                                                     /AC=3777 LINK=1
          4604 1066
                               TAD K3777
                                                     /TEST COMBINATION (AND)
                               SPA SNA SZL
          4605 7570
          4606 7420
                               SNL
                                               /SPA SNA SZL SKIPPED
          4607 7402
                               HLT
                                               /AC=3777 LINK=1
                       /GROUP 2 OPERATE TEST 65
                                               /AC=0000 LINK=0
          4610 7300
                               CLA CLL
                                               /TEST COMBINATION (AND)
         4611 7570
                               SPA SNA SZL
         4612 7430
                               SZL
                                               /SPA SNA SEL SKIPPED
          4613 7482
                               HLT
                                               /AC=0000 LINK=0
                       /GROUP 2 OPERATE TEST 66
                               CLA CLL
         4614 7300
                                                     /AC=4000 LINK=0
         4615 1050
                               TAD K4000
                                               /TEST COMBINATION (AND)
         4616 7570
                               SPA SNA SZL
         4617 7430
                               SZL
                                               /SPA SNA SEL SKIPPED
         4620 7482
                               HLT
                                               /AC=4000 LINK=0
                       /GROUP 2 OPERATE TEST 67
         4621 7300
                               CLA CLL
                                                      /AC=3777 LINK#Ø
         4622 1866
                               TAD K3777
                               CLA SPA SNA SZL /TEST COMBINATION (AND)
         4623 7770
                                               /CLA SPA SNA SZL DID NOT SKIP
                               HLT
         4624 7482
                                               /AC AND LINK SHOULD BE ZERO
         4625 7440
                               SZA
                                               /CLA SPA SNA SZL DID NOT CLEAR AC
         4626 7482
                               HLT
                                               /AC AND LINK SHOULD BE ZERO
                       JGROUP 2 OPERATE TEST 68
         4627 7320
                               CLA CLL CML
                               TAD K3777
                                                     /AC=3777 LINK=1
         4639 1066
                               CLA SPA SNA SEL /TEST COMBINATION (AND)
         4631 7770
         4632 7440
                               SZA
                                               /CLA SPA SNA SZL FAILED. AC SHOULD
         4633 7482
                               HLT
                                               /BE ØØØØ. LINK SHOULD EQUAL ONE
                       /GROUP 2 OPERATE TEST 69
         4634 7300
                               CLA CLL
                                                      /AC=4000 LINK=0
                               TAD K4000
         4635 1050
                               CLA SPA SNA SZL /TEST COMBINATION (AND)
         4636 7770
         4637 7440
                               SZA
                               HLT
                                               /CLA SPA SNA SEL FAILED. AC SHOULD
         4648 7482
                                               /BE 0000. LINK SHOULD EQUAL ZERO
                       /GROUP 2 OPERATE TEST 70
                                               /AC=0000 LINK=0
         4641 7388
                               CLA CLL
                               CLA SPA SNA SZL /TEST COMBINATION (AND)
         4642 7770
         4643 7440
                               SZA
                                               /CLA SPA SNA SZL FAILED. AC AND
         4644 7482
                               HLT
```

```
/PDP-8/E INSTRUCTION TEST 1 MAINDEC-8E+DØAB PAL10
                                                         V141
                                                                 9-JUN-71
                                                 /LINK SHOULD BE ZERO.
                        /GROUP 2 OPERATE TEST 71
          4645 7200
                                 CLA
          4646 1070
                                TAD K5252
                                                         /AC=5252
          4647 7684
                                CLA OSR
                                                 /TEST COMBINATION
          4650 7040
                                 CMA
          4651 7440.
                                SZA
          4652 7482
                                HLT
                                                 /CLA OSR FAILED
                                                 /AC SHOULD BE 0000
                        /GROUP 2 OPERATE TEST 72
                7200
          4653
                                CLA
          4654
                1050
                                TAD K4000
                                                        /AC=4000
          4699 7504
                                SMA OSR
                                                 /TEST COMBINATION
          4656 7402
                                HLT
                                                /SMA OSR FAILED TO SKIP
                                                /AC SHOULD BE 7777
          4657
                7040
                                CMA
          4660 7440
                                SZA
          4661 7482
                                HLT
                                                 /SMA OSR FAILED
                                                /AC SHOULD BE 0000
                        /GROUP 2 OPERATE TEST 73
         4662 7200
                                CLA
                                                /AC=0000
          4663 7444
                                SZA OSR
                                                /TEST COMBINATION
          4664 7482
                                HLT
                                                /SZA OSR FAILED TO SKIP
                                                /AC SHOULD BE 0000
         4665 7040
                                CMA
         4666 7440
                                SZA
         4667 7402
                                HLT
                                                /SZA OSR FAILED.
                                                /AC SHOULD BE 0000
                        /GROUP 2 OPERATE TEST 74
         4670 7320
                                CLL CML CLA
                                                /LINK=1
         4671 7424
                                SNL OSR
                                                /TEST COMBINATION
         4672 7402
                                HLT
                                                /SNL OSR FAILED TO SKIP
                                                /AC SHOULD BE 7777
         4673 7040
                                CMA
         4674 7440
                                SZA
         4675 7402
                                HLT
                                                /SNL OSR FAILED.
                                                /AC SHOULD BE 0000
                       /GROUP 2 OPERATE TEST 75
         4676 7388
                                CLA CLL
         4677
               1966
                                TAD K3777
                                                        /AC=3777 LINK=Ø
         4700
               7764
                                CLA SMA SZA SNL DSR
                                                       /TEST COMBINATION
         4701 7450
                                SNA
         4702 7402
                                HLT
                                                /CLA SMA SZA SNL OSR FAILED.
                                                /AC SHOULD BE 7777. LINK#0
         4703 7040
                                CMA -
         4704 7440
                                SZA
         4705 7402
                                                /CLA SMA SZA SNL OSR FAILED
                                HLT
                                                /AC SHOULD EQUAL ZERO
                       /GROUP 2 OPERATE TEST 76
```

CLA

HLT

SKP OSR

/AC=0000

/TEST COMBINATION

/SKP OSR DID NOT SKIP /AC SHOULD BE 7777

4706 7200

4707 7414

4710 7402

16:26

PAGE 1-61

```
/PDP-8/E INSTRUCTION TEST 1 MAINDEC-8E-DØAB
                                               PAL10
                                                         V141
                                                                 9-JUN-71
                                                                                 16:26
                                                                                         PAGE 1-62
          4711 7848
                                CMA
          4712 7440
                                SZA
          4713 7402
                                HLT
                                                /SKP OSR FAILED
                                                /AC SHOUND EQUAL ZERO
                        /GROUP 2 OPERATE TEST 77
          4714 7280
                                CLA
                                                /AC=0000
          4715 7514
                                SPA OSR
                                                /TEST COMBINATION
         4716 7402
                                                /SPA OSR DID NOT SKIP
                                HLT
                                                /AC SHOULD EQUAL 7777
         4717 7040
                                CMA
         4728 7448
                                SZA
         4721 7482
                                HLT
                                                /SPA OSR FAILED.
                                                /AC SHOULD BE 0000
                       /GROUP 2 OPERATE TEST 78
         4722
               7200
                                CLA
         4723 1040
                                TAD KØ400
                                                        /AC=0400
         4724 7454
                                SNA OSR
                                                /TEST COMBINATION
         4725 7482
                                                /SNA OSR DID NOT SKIP
                                HLT
                                                /AC SHOULD BE 7777
         4726
               7040
                               CMA
         4727 7448
                               SZA
         4730 7482
                               HLT
                                                /SNA OSR FAILED
                                                /AC SHOULD BE ØØØØ
                       /GROUP 2 OPERATE TEST 79
         4731 7300
                               CLA CLL
                                                /LINK=0 AC=0000
         4732 7434
                               SEL OSR
                                                /TEST COMBINATION
         4733 7482
                               HLT
                                                /SZL OSR DID NOT SKIP
                                                /AC SHOULD BE 7777
         4734 7040
                               CMA
         4735 7440
                               SZA
         4736 7402
                               HLT
                                                /SZL OSR FAILED
                                                /AC SHOULD BE 0000
                       /GROUP 2 OPERATE TEST 80
         4737 7300
                               CLA CLL
         4740 1066
                               TAD K3777
                                                        /AC=3777 LINK#Ø
         4741 7774
                               CLA SPA SNA SZL OSR
                                                       /TEST COMBINATION (AND)
         4742 7482
                               HLT
                                               /ABOVE MESS DID NOT SKIP
                                               /AC SHOULD BE 7777
         4743 7848
                               CMA
         4744 7440
                               SZA
        4745 7402
                               HLT
                                               /CLA SPA SNA SZL OSR FAILED
                                               /AC SHOULD BE 0000
                       /MQ OPERATE TEST 1
        4746 7360
                               CLA CMA CLL CML
                                                       /AC=7777 LINK=1
        4747
              7621
                               CLAE
                                                       /AC=0000 LINK=1
        4750
             7430
                               SZL
        4751
              7440
                               SZA
        4752 7402
                               HLT
                                                       17601 FAILED
                      /MQ OPERATE TEST 2
        4753 7360
                               CLA CLL CMA CML
                                                       /AC=7777 L=1
```

/PDP-8/E	INSTR	JÇT I ON	TEST	1 MAIND	EC-8E-DØAE	PAL10	V141	9-JUN-71	16:26	PAGE	1-63
	4754	7401		NOP	F		/AF=777	7 L=1 (NOP)			
	4755	7040		CMA			/40-///	\ F-T (NOE)			
	4756	7430		SZL							
		7440		SZA							
	4760	7402		HLT			/7401 F	ATIED			
							,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	AILLO			
	A741	774a	/MQ	OPERATE							
	4761 4762	736Ø 7421			CMA CLL C	ML	/AC=777	7 LINK=1			
		7430		MQL			/AC=000	Ø LINK=1			
	4764	7440		SZL							
		7482		SZA HLT			440. 01.				
				ME.			AMOL DI	D NOT CLEAR AC			
	122		/MQ	OPERATE	TEST 4						
		7300		CLA	CLL						
		7421		MQL			/MQ=000	0, AC=0000			
		7949		CMA			/AC=777				
		7501		MQ.A.			/AC=777	7, MQ=0000			
		7949		CMA	,		/AC=000				
		7428		SNL							
	4774	-		SZA							
	4775	/782		HLT			MO DID	NOT EQUAL 0000	OR MQA	FAILED	
			/MQ	OPERATE	TEST 5						
	4776				CMA CLL						
	4777			MQL			/MQ=7777	7, AC=0000			
	5000	7501		MQA				7, MQ=7777			
	5001	7848		CMA				, , , , , , , , , , , , , , , , , , ,			
	5002	7420		SNL							
	5003	7440		SZA							
	5004	7482		HLT			/MQ DID	NOT EQUAL 7777	OR MOA	FAILED	
			/MQ	OPERATE	TEST A						
	5005	7681		CLAE			/CLEAR A	<b>A</b> :			
!	5006	1070			K5252		POGEN A	10			
	5007	7421		MGL			/MG=5252	. AC=0000	-		
ļ		1071			K2525		7114-7672	.,			
		7581		MQA			/AC=7777	, MQ=5252			
		7040		CMA							
		7440		SZA							
!	5014	7482		HLT			/MQ DID	NOT EQUAL 5252	OR MQA F	AILED	
			/MQ	OPERATE	TEST 7						
!	5015	7360	·		CMA CLL CM	IL					
		7421		MQL		· <del></del>	/MG=7777	, AC=0000			
		7040		CMA			/AC=7777				
		7621		CAM			AC AND				
		7440		SZA				··= • - V N D D			
		7482		HLT			/AC SHOU	LD EQUAL 0000			
	-	7501		MQA			/AC=0000	. MQ=0000			
		7430		SZL							
		7440		SZA							
5	026	7465		HLT			/CAM DID	NOT CLEAR MQ			
							YOR LINK	WAS CLEARED			

		/MG OPERATE TEST B	
5027		CLAE	/CLEAR AC
5030	7421	MQL	/MG=0000 AC=0000
5031		CMA	
5032	7761	ACL	/AC=0000 MQ=0000
5033	744Ø 7482	SZA	/ACL FAILED
	7501	HLT MQA	/AC=0000 MQ=0000
	7440	SZA	AC-PER MA-PER
	7482	HLT	/MG SHOULD EQUAL ØØØØ
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		F1 66 7	
		/MQ OPERATE TEST 9	
5040	7240	CLA CMA	
5041	7421	MQL	/MQ=7777 AC=0000
5042	7701	ACL	/AC=7777 MQ=7777
	7040	CMA	
	7440	SZA	
	7482	HLT	/AGL FAILED
	7521	MQA	/AC=7777, MQ=7777
	7848	CMA	
	7440	SZA	/MQ SHOULD EQUAL 7777
2031	7482	HLT	AMM SHOOFD EGOVE 1111
		/MQ OPERATE TEST 10	
5052	7601	CLAE	/CLEAR AC
	1070	TAD K5252	7 OCCAN AU
	7421	MOL	/MQ=5252 AC=0000
	1071	TAD K2525	
	7701	ACL	/AC=5252 MQ=5252
	1071	TAD K2525	
	7040	CHA	
5061	7440	SZA	
	7402	HLT	ACL FAILED
	7501	MQA	/AC=5252 MQ=5252
5064	1071	TAD K2525	
	7040	CMA	
	744Ø 7402	SZA	/MQ SHOULD EQUAL 5252
206/	1402	HLT	AND SHOULD EGOME ASAS
		/MQ OPERATE TEST 11	
5070	7601	CLAE	/CLEAR AC
	1071	TAD K2525	, · · · · · · · · · · · · · · · · · · ·
5072	7421	MQL	/MQ=2525 AC=0000
5073	1070	TAD K5252	
5074	7701	ACL	/AC=2525 MQ=2525
5075	1070	TAD K5252	
5076	7040	CMA	
5077	7440	SZA	
5100	7402	HLT	ACL FAILED
5101	7501	MQA	/AC=2525 MQ=2525
5102	1070	TAD K5252	
5103	7040 7440	CMA CZA	
5104 5105	7482	SZA HLT	/MQ SHOULD EQUAL 2525
כמוכ	/ TP C	<b>□ L</b>	ALIA SHOOFD EMANE ESES

		/MQ OPERATE TEST 12	
5106	7621	CAM	/MQ=0000 AC=0000
	7840	CMA	/AC=7777
5110	7521	SWP	/MQ=7777 AC=0000
	7440	SZA	
5112	7482	HLT	/AC SHOULD EQUAL ØØØØ
5113	7781	ACL	/AC=7777 MQ=7777
5114	7040	CMA	
	7440	SZA	
	7402	HLT	/MQ SHOULD EQUAL 7777
		-	
		/MQ OPERATE TEST 13	
5117	7621	CAM	/MQ=0000 AC=0000
5120	7040	CMA	
5121	7421	MQL	/MQ=7777 AC=0000
5122	7521	SWP	/MQ=0000 AC=7777
5123	7040	CMA	
5124	7440	SZA	
5125	7482	HLT	
5126	7781	ACL	/AC=0000 MQ=0000
5127	7440	SZA	
5130	7402	HLT	/MQ SHOULD EQUAL ØØØØ
	24.5	/MQ OPERATE TEST 14	
5131		CAM	/MQ=0000 AC=0000
5132	1070	TAD K5252	
5133	7421	MQL	/MQ=5252 AC=0000
	1071	TAD K2525	
5135	7521	SWP	/MG=2525 AC=5252
5136	1071	TAD K2525	
5137	7940	CMA	
5148	7440	SZA	
5141	7402	HLT	/SWP FAILED
5142	7701	ACL	/AC=2525 MQ=2525
5143	1070	TAD K5252	
5144	7040	CMA	
5145	7440	SZA	
5146	7402	HLT	/SWP FAILED MQ SHOULD EQUAL 2525
		AND ADEDITE TEST 4E	
F4 47	# 4 A 4	/MQ OPERATE TEST 15	MA-4664 15-6644
-	7621	CAM	/MQ=0000 AC=0000
	1871	TAD K2525	
5151	7421	MQL	/MG=2525 AC=0000
5152	1070	TAD K5252	/AC=5252
5153		SWP	/MQ=5252 AC=2525
5154	1070	TAD K5252	
5155	7040	CMA	
5156	7440	SZA	
5157	7402	HLT	/SWP FAILED
5160	77.01	ACL	/AC=5252 MQ=5252
5161	1071	TAD K2525	
5162	7040	CMA	
5163	7440	SZA	

SHE   SHE	/PDP-8/E INST	RUCTION	TEST 1 MAINDEC-8E-DØAB	PAL10 V141 9-JUN-71 16:26 PAGE 1-66
5165 7621 CAM	516	4 7402	HLT	/SWP FAILED MQ SHOULD EQUAL 5252
5165 7621 CAM				
Siée   7048				
Side		_		· · · · · · · · · · · · · · · · · · ·
SIA		-		
5171 7482 HLT				/AC=0000 MQ=0000
5172 7781 ACL				AND THE PROPERTY OF THE PROPER
\$173 7448 \$24				
Mag operate test 17				/AC=0000 MQ=0000
### AND TEST 1  5175 7621  5176 7948  5177 7421  5176 7948  5177 7421  MOL  MA	- <del>-</del>			AND AN OUR MASSES OF AND
5175 7621 CAM	517	4 7402	HLT	CLAE SWP FAILED MG SHOULD EQUAL 8089
5175 7621 CAM			/MQ OPERATE TEST 17	
Si76	517	5 7621		/MQ=0000 AC=0000
5177 7421 MQL /MC=7777 AC=0000 5200 7721 CLAE SWP /AC=7777 MQ=0000 5201 7040 CMA 5202 7440 SZA 5203 7402 HLT /CLAE SWP FAILED 5204 7701 ACL /AC=0000 MQ=0000 5205 7440 SZA 5206 7402 HLT /CLAE SWP FAILED MQ SHOULD EQUAL 0000  /MQ OPERATE TEST 10 5207 7402 HLT /CLAE SWP FAILED MQ SHOULD EQUAL 00000  /MQ OPERATE TEST 10 5207 7402 HLT /CLAE SWP FAILED MQ SHOULD EQUAL 00000  5207 1071 TAD K2525 5211 7421 MQL /MQ=2525 MQ=0000 5212 1070 TAD K5252 /AC=5252 5213 7721 CLAE SWP /AC=5255 MQ=0000 5214 1070 TAD K5252 5215 7040 CMA 5216 7440 SZA 5216 7440 SZA 5217 7402 HLT /CLAE FAILED 5220 7701 ACL /AC=0000 MQ=0000 5221 7400 SZA 5222 7402 HLT /CLAE FAILED MQ SMOULD EQUAL 00000  /AND TEST 1 5223 7200 /AND TEST 2 524 0067 AND K7777 5225 7440 SZA 5226 7402 HLT /BE 00000  /AND TEST 3				
5200 7721 CLAE SHP				/MQ=7777 AC=0000
5201 7040 CMA 5202 7440 SZA 5203 7482 HLT				/AC=7777 MQ=0000
5282 7440 SZA 5203 7402 HLT				
5203 7402 HLT				
5284 7781 ACL				/CLAE SWP FAILED
5285 7440 SZÁ 5286 7482 HLT /CLAE SHP FAILED MQ SHOULD EQUAL 8088  /MQ OPERATE TEST 18 5287 7621 CAM /MG=0000 AC=00000 5210 1071 TAD K2525 /AC=5252 5211 7421 MGL /MG=2525 MG=0000 5212 1070 TAD K5252 /AC=5252 5213 7721 CLAE SHP /AC=2525 MG=0000 5214 1070 TAD K5252 5215 7040 CMA 5216 7440 SZA 5216 7440 SZA 5217 7402 HLT /CLAE FAILED MG SHOULD EQUAL 00000 5221 7402 HLT /CLAE FAILED MG SHOULD EQUAL 00000 5222 7402 HLT /CLAE FAILED MG SHOULD EQUAL 00000  /AND TEST 1 5223 7200 CLA 5224 0067 AND K7777 5225 7440 SZA 5226 7402 HLT /AND FAILED AC SHOULD /BE 00000  /AND TEST 2 5227 7240 SZA 5230 0020 AND K00000 5231 7440 SZA 5231 7440 SZA 5232 7402 HLT /AND FAILED AC SHOULD /BE 00000  /AND TEST 3				/AC=9500 MQ=0000
Second   S			· -	
5207 7621 CAM				/CLAE SWP FAILED MQ SHOULD EQUAL 0000
5210 1071 TAD K2525 5211 7421 MGL /MG=2525 MG=0000 5212 1070 TAD K5252 /AC=5252 5213 7721 CLAE SWP /AC=2525 MG=0000 5214 1070 TAD K5252 5215 7040 CMA 5216 7440 SZA 5217 7402 HLT /CLAE FAILED 5220 7701 ACL /AC=0000 MG=0000 5221 7440 SZA 5222 7402 HLT /CLAE FAILED MG SMOULD EQUAL 00000  /AND TEST 1 5223 7200 AND K7777 5225 7440 SZA 5226 7402 HLT /AND FAILED AC SHOULD /BE 0000  /AND TEST 2 CLA CMA 5230 0020 AND K0000 5231 7440 SZA 5232 7402 HLT /AND FAILED AC SHOULD /BE 00000  /AND TEST 3			/MQ OPERATE TEST 18	
5210 1071 TAD K2525 5211 7421 MGL /MG=2525 MG=8000 5212 1070 TAD K5252 /AC=5252 5213 7721 CLAE SMP /AC=2525 MG=8000 5214 1070 TAD K5252 5215 7040 CMA 5216 7440 SZA 5217 7462 HLT /CLAE FAILED 5220 7701 ACL /AC=8000 MG=8000 5221 7440 SZA 5222 7482 HLT /CLAE FAILED MG SHOULD EQUAL 8000 5221 7440 SZA 5222 7482 HLT /CLAE FAILED MG SHOULD EQUAL 80000  /AND TEST 1 5223 7280 CLA 5224 8067 AND K7777 5225 7440 SZA 5226 7462 HLT /AND FAILED AC SHOULD /BE 80000  /AND TEST 2 CLA CMA AND K80000 5231 7440 SZA AND K80000 5231 7440 SZA AND K80000 5232 7482 HLT /AND FAILED /AC SHOULD EQUAL 80000 /AND TEST 3	520	7 7621		/MG=0000 AC=0000
5211 7421 MQL /MG=2525 MQ=0000 5212 1070 TAD K5252 /AC=5252 5213 7721 CLAE SWP /AC=5252 MQ=0000 5214 1070 TAD K5252 5215 7040 CMA 5216 7440 SZA 5217 7402 HLT /CLAE FAILED 5220 7701 ACL /AC=0000 MQ=0000 5221 7440 SZA 5221 7402 HLT /CLAE FAILED MQ SHOULD EQUAL 0000				
5212 1070 TEST 1 5213 7721 CLAE SWP				/MG=2525 MG=0000
5213 7721 CLAE SWP /AC=2525 MO=0000 5214 1070 TAD K5252 5215 7040 CMA 5216 7440 SZA 5217 7402 HLT /CLAE FAILED 5220 7701 ACL /AC=0000 MQ=0000 5221 7440 SZA 5222 7402 HLT /CLAE FAILED MQ SHOULD EQUAL 0000  /AND TEST 1 5223 7200 CLA 5224 0067 AND K7777 5225 7440 SZA 5226 7402 HLT /AND FAILED AC SHOULD /BE 0000  /AND TEST 2 7227 7240 CLA CMA 5230 0020 AND K0000 5231 7440 SZA 5237 7402 HLT /AND FAILED AC SHOULD /BE 0000  /AND TEST 3				
5214 1070 TAD K5252 5215 7040 CMA 5216 7440 SZA 5217 7402 HLT /CLAE FAILED 5220 7701 ACL /AC=0000 MG=0000 5221 7440 SZA 5222 7402 HLT /CLAE FAILED MG SHOULD EQUAL 0000				/AC=2525 MO=0000
5215 7040 CMA 5216 7440 SZA 5217 7402 HLT /AC×0000 MQ=0000 5221 7440 SZA 5222 7402 HLT /AC×0000 MQ=0000 5221 7440 SZA 5222 7402 HLT /CLAE FAILED MQ SHOULD EQUAL 00000  /AND TEST 1 5223 7200 CLA 5224 0067 AND K7777 5225 7440 SZA 5226 7402 HLT /AND FAILED AC SHOULD /BE 0000  /AND TEST 2 5227 7240 AND K0000 5231 7440 SZA 5230 0020 AND K0000 5231 7440 SZA 5232 7402 HLT /AND FAILED /AC SHOULD EQUAL 0000				
5216 7440			CMA	
5217 7402			SZA	
5220 7701 ACL			HLT	/CLAE FAILED
521 7440				/AC=0000 MQ=0000
/AND TEST 1 5223 7200			SZA	
/AND TEST 1 5223 7200	522	2 7402	HLT	/CLAE FAILED MG SHOULD EQUAL 0000
5223 7200 CLA 5224 0067 AND K7777 5225 7440 SZA 5226 7402 HLT /AND FAILED AC SHOULD /BE 0000  /AND TEST 2  5227 7240 CLA CMA 5230 0020 AND K0000 5231 7440 SZA 5232 7402 HLT /AND FAILED /AC SHOULD EQUAL 0000			/AND TEST 1	
524 0067 AND K7777 5225 7440 SZA 5226 7402 HLT /AND FAILED AC SHOULD /BE 0000  /AND TEST 2  5227 7240 CLA CMA 5230 0020 AND K0000 5231 7440 SZA 5232 7402 HLT /AND FAILED /AC SHOULD EQUAL 0000	<b>E</b> 22	3 7200		
5225 7440 SZA 5226 7402 HLT /AND FAILED AC SHOULD /BE 0000  /AND TEST 2  5227 7240 CLA CMA 5230 0020 AND K0000 5231 7440 SZA 5232 7402 HLT /AND FAILED /AC SHOULD EQUAL 0000  /AND TEST 3				
5226 7402 HLT /AND FAILED AC SHOULD /BE 0000  /AND TEST 2  5227 7240 CLA CMA 5230 0020 AND K0000 5231 7440 SZA 5232 7402 HLT /AND FAILED /AC SHOULD EQUAL 0000  /AND TEST 3				
/BE 0000  /AND TEST 2  5227 7240 CLA CMA 5230 0020 AND K0000 5231 7440 SZA 5232 7402 HLT /AND FAILED /AC SHOULD EQUAL 0000  /AND TEST 3				ZAND FAILED AC SHOULD
5227 7240 CLA CMA 5230 0020 AND K0000 5231 7440 SZA 5232 7402 HLT /AND FAILED /AC SHOULD EQUAL 0000	222	0 ,	n <b>:</b> '	
5230 0020 AND K0000 5231 7440 SZA 5232 7402 HLT /AND FAILED /AC SHOULD EQUAL 0000 /AND TEST 3			/AND TEST 2	
5231 7440 SZA 5232 7402 HLT /AND FAILED /AC SHOULD EQUAL 0000 /AND TEST 3				
5232 7402 HLT /AND FAILED /AC SHOULD EQUAL 0000 /AND TEST 3		-		
/AC SHOULD EQUAL 0000 /AND TEST 3				
/AND TEST 3	523	2 7402	HLT	
				/AC SHOULD EQUAL 0000
5233 7320 CLA CLL CML		-		
	523	3 7520	CLA CLL CML	

/E	INSTRU	CTION	TEST	1 MAIND	EC-8E-DØAB	PAL10	V141	9-JUN-71	16:26	PAGE 1-67
	5234	1067		TAD	K7777		/AC=77	77 LINK=1		
	5235	0067		AND	K7777					
	5236	7040		CMA						
	5237	7430		SZL						
	5240	7440		SZA						
	5241	7482		HLT		/AND F	AILED. A	C SHOULD BE		
	*****							IOULD EQUAL ONE		
			/AN	D TEST 4						
	5242	7300	, , , , , ,		CLL					
	5243	1071		TAD	K2525		/AC=25	25 LINK=0		
	5244	9979			K5252					
	5245	7420		SNL						
	5246	7448		ASS						
	5247	7422		HLT		/AND F	AILED. A	C SHOULD BE		
		_				/0000.	LINK SH	IOULD BE Ø		
			/AN	D TEST 5						
	5250	7300			CLL					
	5251	1070			K5252		/AC=52	152 LINK=Ø		
	5252	9971			K2525					
	5253	7420		SNL						
	5254	7440		SZA						
	5255	7402		HLT		/AND F	AILED.	AC SHOULD BE		
				-		/6966.	LINK SH	IOULD BE Ø		
			/AN	ID TEST 6						
	5256	7380			CLL		446-27	77		
	5257	1052			K7776			776 LINK=0		
	5260	0070			K5252	/ A C = 0 E		INSTRUCTION		
	5261	7041		CIA		/AC=25		Ida i tuk-t		
	5242	1070			K52 <b>5</b> 2		/AC-55	100 LINK=1		
	5243	7430		SEL						
	5264	7448		SEA		AAND E	4 T. 118P	A C C L L C L C L C L C L C L C L C L C		
	5265	7482		HLT				AC SHOULD BE KOULD BE ONE		
			444	D TEST 7		70000.	FIMO SU	TOULD BE ONE		
	E244	7300	ZAN		CLL					
	5266 5247	1071			K2525		/A6=25	525 LINK=0		
	5247 5270	0071			K2525			INSTRUCTION		
	5270	7041		CIA		/AC=52		140111001104		
	5272	1071			K2525	/ 40-75		100 LINK = 1		
	5273	7430		SZL	NEJEJ		/ 40 - 52	AD 21414 7		
	5274	7440		SZA						
	5275	7482		HLT		/AND F	ATLED.	AC SHOULD BE		
	2212	7 12 2						HOULD BE ONE.		
						,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		TOLD DE CHE!		
			/CH	ECK FOR	BELL					
	5276	728Ø		CLA						
	5277	1121			BLCNT					
	5300	7001		IAC						
	5301	3121			BLCNT					
	5302	1121			BLCNT					
	5303	7640			CLA					
	5304	5147		JMP	START+3					
	5305	1122		TAD	BLCON					

/PDP-8/E INSTRUCTION TEST 1 MAINDEC-8E-DØAB PAL10 V141 16:26 PAGE 1-68 5306 3121 DCA BLONT /RING BELL 5307 1120 TAD BEL 5310 6046 TLS 5311 6041 TSF 5312 5311 JMP .-1 5313 6042 TOF 5314 5147 JMP START+3

000	0 11111111	. 10203000	****						
010				11111111	11111111	11111111	11111111	11111111	
	0 11111111	11111111	11100000	00000000	00001111	11111111	11111111	11111111	
0.20	/I 11444444								
				11111111	11111111	11111111	11111111	11111111	
030	0 11111111	11111111	11111111	11111111	11111111	11111111	11111111	1111111	
949	<b>~</b>								
040			11111111	11111111	11111111	11111111	11111111	11111111	
050	0 11111111	11111111	11111111	11111111	11111111	11111111	11111111		
							********	11111111	
969		11111111	11111111	11111111	11111111	11111111	11111111	4444444	
070	3 11111111	11111111	11111111	11111111	11111111	11111111		11111111	
		_				1111111	11111111	11111111	
100	7 11111111	11111111	11111111	11111111	11111144	4444444			
1100		11111111	11111111	11111111	11111111	11111111	11111111	11111111	
			-1-1-11	1111111	11111111	11111111	11111111	11111111	
1200	11111111	11111111	11111111	4444444					
1300	11111111	11111111		11111111	11111111	11111111	11111111	11111111	
	*********	*******	11111111	11111111	11111111	11111111	11111111	11111111	
1400	11111111	4114444	4444444						
1500		11111111	11111111	11111111	11111111	11111111	11111111	11111111	
100	11111111	11111111	11111111	11111111	11111111	11111111	11111111	11111111	
1600									
		11111111	11111111	11111111	11111111	11111111	11111111	11111111	
1700	11111111	11111111	11111111	11111111	11111111	11111111	11111111	11111111	
23									
200									
2000		11111111	11111111	11111111	11111111	11111111	11111111	11111111	
2100	11111111	11111111	11111111	11111111	11111111	1111111	11111111	11111111	
200-			•			******	*******	1111111	
2200		11111111	11111111	11111111	11111111	11111111	11111111	11111111	
2300	11111111	11111111	11111111	11111111	11111111	11111111	11111111		
						******	******	11111111	
2400	11111111	11111111	11111111	11111111	11111111	4444444	4444444		
2500	11111111	11111111	11111111	11111111	11111111	11111111	11111111	11111111	
				******	1111111	11111111	11111111	11111111	
26ØØ	11111111	11111111	11111111	11111111	11111111	4444444			
2700	11111111	11111111	11111111	11111111		11111111	11111111	11111111	
		*		1111111	11111111	11111111	11111111	11111111	
3000	11111111	11111111	1444444	444444					
3100	11111111	11111111	11111111	11111111	11111111	11111111	11111111	11111111	
		******	11111111	11111111	11111111	1111111	11111111	11111111	
3200	11111111	41144444	4444444						
3300	11111111	11111111	11111111	11111111	11111111	11111111	11111111	11111111	
0	TITITI	1111111	11111111	11111111	11111111	11111111	11111111	11111111	
3400	111111						~		
3500	11111111	1111111	11111111	11111111	11111111	11111111	11111111	11111111	
0700	11111111	11111111	11111111	1111111	11111111	11111111	11111111	11111111	
3600						_ =			
	11111111	11111111	11111111	11111111	11111111	11111111	11111111	11111111	
3700	11111111	11111111	11111111	11111111	11111111	11111111	11111111	_	
								1111111	

**00 00 00** 

```
/PDP-8/E INSTRUCTION TEST 1 MAINDEC-8E-DEAB
                                                     PAL10
                                                              V141
                                                                       9-JUN-71
                                                                                         16:26
                                                                                                  PAGE 1-71
         ACL
                  7701
                                    K600
                                             8841
         BEGIN
                  0200
                                   K6000
                                            0072
                  0120
         BEL
                                   K6777
                                            0064
                 0121
         BLCNT
                                   K7000
                                            0073
                 0122
         BLCON
                                            0117
                                   K7007
                 7002
         BSW
                                   K7177
                                            0060
         CAM
                  7621
                                   K7377
                                            0063
         CLAE
                  7621
                                            0074
                                   K7400
                  0446
         CLL1
                                   K7577
                                            0062
        CLL11
                  0452
                                   K7600
                                            0075
        CMLT1
                 0456
                                   K7677
                                            0061
                 0006
        HALT
                                   K7700
                                            0113
        K0000
                 0020
                                   K7717
                                            0051
        K0001
                 0021
                                   K7737
                                            0057
        K0002
                 0022
                                   K7748
                                            0076
        K0004
                 0024
                                   K7757
                                            0056
                 0102
        K0007
                                   K776Ø
                                            0077
                 0026
        K0010
                                   K7767
                                            0055
        KØØ17
                 0104
                                   K777Ø
                                            0100
        K0020
                 0030
                                            0054
                                   K7773
        KØØ37
                 0105
                                   K7774
                                            0101
                 0032
        K0040
                                   K7775
                                            0053
        KØØ67
                 0103
                                   K7776
                                            0052
        KØØ77
                 0106
                                   K7777
                                            0067
                 0034
        KØ100
                                            7581
                                   ADM
        KØ177
                 0107
                                   MOL
                                            7421
        KØ200
                 0036
                                   NOOP
                                            0007
        KØ377
                 0110
                                            7401
                                   NOPE
        K0400
                 0040
                                   START
                                            0144
        K8778
                 0116
                                   SWP
                                            7521
        KØ777
                 0111
        K1000
                 0042
        K1234
                 0043
        K14
                 0027
        K140
                 0035
        K1400
                 8844
        K1777
                 0112
        K2000
                 0045
        K2525
                 0071
        K2552
                 0115
        ĸ3
                 0023
        K38
                 0031
       K388
                 0037
       K3000
                 0046
       K3312
                0047
       K3777
                 0066
       K4000
                 0050
       K5225
                 0114
       K5252
                0070
       K5777
                 0065
       K 6
                0025
```

K60

ERRORS DETECTED: 0

LINKS GENERATED: 0

RUN-TIME: 30 SECONDS

2K CORE USED