## IDENTIFICATION

PRODUCT CODE:

MAINDEC-8E-DØBB

PRODUCT NAME!

PDP-8/E INSTRUCTION TEST 2

DATE CREATED:

JUNE 18, 1971

MAINTAINER

DIAGNOSTIC GROUP

AUTHORE

ED-FORTMILLER



1. ABSTRACT

THIS PROGRAM IS AN EXTENSIVE TEST OF AUTOINDEXING, INDIRECT ADDRESSING, AND THE DCA INSTRUCTION FOR THE PDP-8/E. IT ALSO OFFERS MINIMAL TESTING FOR INTERRUPT AND THE AND, TAD, ISZ, JMS, JMP, AND PROCESSOR IOT INSTRUCTIONS.

- 2. REQUIREMENTS
- 2.1 EQUIPMENT

PDP-8/E EQUIPPED WITH TELETYPE

2.2 STORAGE

THE PROGRAM OCCUPIES MEMORY LOCATIONS 8088-4416, THE BINARY LOADER MUST BE STORED IN THE LAST MEMORY PAGE.

2.3 PRELIMINARY PROGRAMS

IT IS ASSUMED THAT MAINDEC-BE-DOA(N) HAS BEEN RUN SUCCESSFULLY.

- 3. LOADING PROCEDURE
- 3.1 METHOD

THE STANDARD BINARY LOADER IS USED.

- 4. STARTING PROCEDURE
- 4.1 CONTROL SWITCH SETTINGS (NONE)
- 4.2 STARTING ADDRESS

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- 4.3 OPERATOR ACTION
  - A. SET THE SHITCH REGISTER TO 288. PRESS LOAD ADDRESS.
  - B. PUSH CLEAR AND THEN CONTINUE. A PROGRAMMED HALT OCCURS WHEN AN ERROR IS ENCOUNTERED.

- 5. OPERATING PROCEDURE
  SAME AS SECTION 4.
- 6. ERRORS
- 6.1 ERROR HALIS AND DESCRIPTION SEE LISTING.
- 6.2 ERROR RECOVERY

IF IT IS DESIRED TO LOOP ON THE TEST CAUSING THE ERROR, REPLACE THE OPERATE INSTRUCTION PRECEDING THE HLT WITH A JMP TO THE BEGINNING OF THE TEST.

7. RESTRICTIONS

ALL PERIPHERAL DEVICES MUST BE FUNCTIONING TO A DEGREE THAT THE PROCESSOR CLEAR BUTTON WILL CLEAR THEIR FLAGS AND NO FLAGS WILL TURN ON UNLESS AUTHORIZED.

- 8. MISCELLANEOUS
- 8.1 EXECUTION TIME

THE TELETYPE BELL RINGS AT THE END OF 1550 PROGRAM PASSES WHICH IS APPROXIMATELY EVERY 5 SECONDS.

#### 9. PROGRAM DESCRIPTION

THE PROGRAM IS A SERIES OF MANY SMALL INDIVIDUAL TEST. EACH TEST IS PERFORMED USING PREVIOUSLY CHECK FUNCTINS TO VALIDATE THE TEST, WHEN AN ERROR IS ENCOUNTERED, THE OPERATOR SHOULD INSERT A JUMP INSTRUCTION INTO MEMORY TO CAUSE THE PROGRAM TO LOOP ON THE FAILING TEST. THE PROBLEM CAN THEN BE FOUND BY USING THE OSCILLOSCOPE.

THE INDIVIDUAL PROGRAM TESTS ARE GROUPED INTO THE FOLLOWING CLASSIFICATIONS AND ARE PERFORMED IN THE ORDER SHOWN:

- 1. DCA TEST
- 2. INDIRECT ADDRESSING TEST
  - A. USING TAD
  - B. USING AND
- 3. AUTOINDEX TEST
  - A. USING AND
  - B. USING DCA
  - C. USING TAD
- 4. PROCESSOR IOT TEST
  - A. USING CAF
  - P. USING SRC
  - C. USING SPF
  - D. USING KIE
  - E. USING SKON
    - F. USING ION
    - G. USING TOP
    - H. USING GTF
    - I. USING RTF
- S. INTERRUPT TEST
  - A. FOLLOWING NOP
  - #. FOLLOWING TAD
  - C. FOLLOWING AND
  - D. FOLLOWING DCA
  - E. FOLLOWING ISE
  - F. FOLLOWING JMP
  - G. FOLLOWING JMS
  - H. FOLLOWING CLA
  - I. FOLLOWING TSF
  - J. FOLLOWING SKP

  - K. FOLLOWING JMP I
- 6. CHECK FOR UNAUTHORIZED AUTOINDEXING

THE TELETYPE BELL RINGS APPROXIMATELY EVERY 5 SECONDS TO ASSURE THE OPERATOR THAT THE PROGRAM IS FUNCTIONING PROPERLY.

K2525, 2525

0054 2525

/PDP-8/E INSTRUCTION TEST 2 MAINDEC-8E-DØBB /COPYRIGHT 1970, 1971, DIGITAL EQUIPMENT CORP., MAYNARD, MASS. Ø1754

```
/SKIP IF INTERRUPT ON AND TURN INTERRUPT OFF
      6000
              3KON=6000
      6023
              SR0=6003
                                     JSKIP IF INTERRUPT REQUEST
                                     /GET INTERRUPT FLAGS
      6024
              GTF=6004
                                     /RESTORE INTERRUPT FLAGS AND TURN INTERRUPT ON
      6005
              RTF=6005
                                     /CLEAR ALL FLAGS, AC, LINK, AND ENABLE TTY INTERRUPT F.F.
      6007
              CAF=6007
                                     SET PRINTER FLAG
      6848
              SPF=6848
                                     VENABLE TTY INTERRUPT F.F. WHEN AC 11 EQUALS A 1
      6035
              K1E=6035
                                     /SWAP BYTES IN AC
      7982
              BSW=7002
      5966
              ..
                                     /LOC 8
9999 9999
                                     /LOC 1
                     JMP 1
6661 5881
                                     /LOC 2
      9992
                     2
5952
                                     /LOC 3
9983 9983
                     3
      2827
             •7
5567 5666
                     /CONSTANTS AND VARIABLES
              +29
      5626
8028 7777
             K7777, 7777
8821 3777
              K3777, 3777
8822 5777
             K5777, 5777
8823 6777
              K6777, 6777
             K7377, 7377
8824 7377
8825 7577
             K7577, 7577
5526 7677
             K7677, 7677
9827 7737
              K7737, 7737
9839 9869
#831 7757
             K7757, 7757
             K7767, 7767
#832 7767
8833 7773
             K7773. 7773
              K7775. 7775
8834 7775
6935 7776
              K7776, 7776
6629 6008
             KØ.
                     0
              K1777, 1777
8837 1777
0040 0777
              KØ777, Ø777
              KØ377, Ø377
0041 0377
              KØ177: Ø177
0042 0177
              K0077. 0077
0043 0077
              K0037. 0037
0044 0037
0045 0017
              KØØ17, ØØ17
0046 0007
              KØØØ7.
                     0007
              K0003,
                     0003
0047 0003
0050 0000
                      Ø
              K0001.
0051 0001
                     0001
              K4400.
                     4400
9052 4460
0053 4577
              K4577,
                     4577
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/P0/	'E INSTRU	CTION	TEST 2	MAINDEC-8E-DØBB	PAL10	10-JUN-71	9:49	PAGE 1-1
	0055	6666	K666					
	0056	4444	K4444					
	ØØ57	7070	K7976					
	0060	Ø707	KØ707					
	0061	5252	K5252					
	0062	1111	K1111					
	0063	5555	K555!					
	8864	5200	K5200					
	8865	8004	K4.	4				
		9119	+110					
	6110	0000	****	Ø				
	9119			•				
		0172	#172					
	8172	0176	K176	, 176	/LOC 172			
	Ø173	Ø172	K172		/173			
	8174	0173	K173		/174			
	8175	8174	K174		/175			
	<b>8</b> 176	8175	K175		/176			
	<b>5177</b>	1234	K123		/177			
	21//	***	N.S.		* <del>* *</del> *			
		<b>\$28</b> 8	*288					
		,		TEST 1				
	8289	7200	, , ,	CLA				
	6261	7418		SKP				
	8282	9900	TPØ,	Ø				
	8283	1052		TAD K4488				
	8284	3377		DCA TP177				
	8285	7449		SZA				
	8286	7482		HLT	/DCA DID !	NOT CLEAR AC		
	0287	7410		SKP				
	8218	6000		•				
	6211	1052		TAD K4400				
	5212	7841		CIA	/AC=-(448)	Ø }		
	<b>521</b> 3	1377		TAD TP177		•		
	5214	7448		SEA				
	<b>#215</b>	7482		HLT	/DCA FAIL		•	
					AC SHOUL	D EQUAL BERO		
			/DCA	TEST 2				
		9000		el A				
	8216	7200		CLA TAB MARTT				
	<b>6217</b>	1053		TAD K4577 DCA TPØ				
	0220	3202						
	Ø221	7440		SZA HLT	ADCA DID	NOT CLEAR AC		
	<b>#222</b>	7402 1053		TAD K4577	YDOK DID	HY! VELAN AU		
	Ø223	7841		CIA				
	Ø2 <b>24</b> Ø2 <b>2</b> 5	1282		TAD TPO				
	8226	7448		SZA				
	#220 #227	7402		HLT	/DCA FAIL	FD		
	022/	1402		7 to 1	I PAN I WIF	** **		

/POP-8/E	INSTRU	CTION	TEST 2	MAINDEC-	8E-0 <b>88</b> B	PAL10	V141	18-JUN-71	9149	PAGE 1-2
						/AC SHO	OULD EGU	AL ZERO		
			/DCA	TEST 3						
	0230	7200		CLA						
	0231	1020		TAD K						
	Ø232	3202		DCA T	PØ					
	0233	7440		SZA		1001 01	D NAT C	1 F 4 B 4 B		
	Ø234	7402 1202		HLT TAD T	9.0	ADOM DI	D NOT C	LEAR AL		
	Ø235 Ø236	7040		CMA	r <b>v</b>					
	Ø237	7440		SZA						
	Ø24Ø	7402		HLT		/DCA FA	ONTO BE	ZERO		
			/DCA	TEST 4						
	0241	7200		CLA						
	Ø242	1036		TAD K	Ø					
	Ø243	3282		DÇA T						
	8244	7448		SZA		OCA DI	D NOT C	LEAR AC		
	Ø245	7482		HLT	~-					
		1282		TAD T	70	/DCA FA	11 50			
	0247 0250	7440		SEA HLT			OULD BE	2FRO		
	2522	(3# <b>4</b>		MB 1		, 0,,,				
			/DCA	TEST 5						
	Ø251	7288		CLA						
	#252	1054		TAD K						
	Ø253	3565		DCA T	PØ					
	0254	7440		SZA		/DC/ D1	A NAT C	1 = A D A C		
	Ø255	7482		HLT TAD K	2838	ADCM DI	D NOT C	LEAR AL		
	Ø2\$6 Ø2\$7	1054		CIA	E 2 E 3					
	0260	1282		TAD T	PØ					
	Ø261	7448		SEA						
	Ø262	7402		HLT		/DCA FA	ONTO BE	ZERO		
			/DCA	TEST 6						
	Ø263	7290		CLA					•	
	8264	1055		TAD K						
	Ø265	2585		DCA T	PØ					
	Ø266	7440		SZA		/DC4 P1	ID NOT C	1 PAD AC		
	Ø267	7402		HLT TAR K	6666	ADCM DI	ID NOT C	LEAR AU		
√ <b>.</b>	Ø27Ø Ø271	1055 7041		TAD K	0000					
	Ø271 Ø272	1202		TAD T	PØ					
	Ø273	7440		SZA	· ·					
	0274	7482		HLT		/DCA FA		<b>-</b>		
						/AC SHO	ONTO BE	<b>ZERO</b>		

/P <b>(</b>	E INDIA	UCTION	TEST 2	MAINDEC-8E-DØBB	PAL10	10-JUN-71	9149	PAGE 1-3
•			/DCA	TEST 7				
	2275	7200		CLA				
	Ø276	1056		TAD K4444				
	Ø277	3377		DCA TP177				
	0300	7440		SZA				
	0301	7482		HLT	ZDCA DID N	NOT CLEAR AC		
	0302	1056		TAD K4444	A DAM DID !	TO CEERN NO		
	Ø3 <b>ø</b> 3	7841		CIA				
	9394	1377		TAD TP177				
	0305	7440		SZA				
	Ø3Ø6	7482		HLT	/DCA FAILE	ē b		
		_		- 1	/AC SHOULD			
			/DCA	TEST 8				
	Ø3 <b>0</b> 7	7200		CLA				
	5310	1057		TAD K7878				
	0311	3377		DCA TP177				
	Ø3 <u>1</u> 2	7448		SEA				
	6313	7482		HLT	/DCA DID N	IOT CLEAR AC		
	8314	1057		TÃD K7070				
	8315	7841		CIA				
	8316	1377		TAD TP177				
	Ø317	7448		SZA				
	0328	7402		HLT	/DCA FAILE	:D		
					/AC SHOULD	BE ZERO		
			/DCA	TEST 9				
	9321	7288		CLA				
	0322	1060		TAD KØ7Ø7		•		
	Ø323	3000		DCA Ø				
	9324	7440		SEA				
	Ø325	7482		HLT	/DCA DID N	OT CLEAR AC		
	8326	1060		TAD KØ7Ø7		The second of th		
	9327	7041		CIA				
	Ø3 <b>3</b> Ø	1000		TAD Ø				
	Ø3 <b>3</b> 1	7449		SZA				
	Ø3 <b>3</b> 2	7402		HLT	/DCA FAILE			
			1501	TEC= 4.5	/AC SHOULD	BE ZERO		
			<b>JUCA</b>	TEST 10				
	0333	7200		CLA				
	0334	1061		TAD K5252				
	Ø335	3000		DCA Ø				
	2336	7440		SZA				
	Ø3 <b>3</b> 7	7482		HLT	/DCA DID N	OT CLEAR AC		
	Ø34Ø	1061		TAD K5252				
	Ø341 Ø342	7841		CIA				
		1000 7440		TAD Ø				
	Ø343	7482		SZA	4004 64	_		
	0344	1786		HLT	/DCA FAILE			
					<b>人名G 5月1201111</b>	H> Z>H()		

### PAL18 V141

#### /DCA TEST 11 0345 7200 CLA TAD K1111 0346 1062 DCA Ø 0347 3000 SZA 0350 7440 /DCA DID NOT CLEAR AC HLT 0351 7402 TAD K1111 0352 1062 0353 7041 CIA TAD Ø 0354 1000 6355 7446 SZA /DCA FAILED HLT Ø356 74B2 /AC SHOULD BE ZERO /DCA TEST 12 CLA Ø357 7200 TAD X5555 8368 1B63 DCA Ø 1000 #361 8362 7448 SEA /DCA DID NOT CLEAR AC HLT **8363 7492** TAD K5555 #364 1063 CIA 8345 7841 TAD B 6346 1898 #347 744B SHA ADCA FAILED 9379 7492 HLT JAC SHOULD BE ZERO NOP 8371 7888 NOP 8372 7888 8373 700E NOP NOP 7900 5374 NOP #375 8376 7418 SKP TP177, 6 8377 9589 8488 4498 /INDIRECT ADDRESSING TEST 1 CLA 8488 7288 /OPERAND=1234 TAD 1 KØ177 0401 1442 8482 7841 CIA TAD K1234 0403 1177 SZA 0404 7440 /TAD INDIRECT FAILED HLT 0405 7402 /AC SHOULD BE ZERO /INDIRECT ADDRESSING TEST 2

CLA

SKP

Ø

0406 7200

0407 7410 0410 0000

/PD	/E INSTRU	CTION	TEST 2 MAINDEC-8E	-0888 PAL10	18-JUN-71	9:49	PAGE 1-5
(	8411	1020	TAD K77	777			
	Ø412	0442	AND I K		1234		
	8413	7041	CIA	, , , , , , , , , , , , , , , , , , , ,			
	0414	1177	TAD K12	234			
	0415	7440	SZA	•			
	Ø416	7402	HLT	ZAND INDIE	RECT FAILED		
	2410	, , , , ,	,	/AC SHOULD			
			/INDIRECT ADDRE	SSING TEST 3			
	8417	7200	CLA				
	8428	1020	TAD K77	177			
	8421	3000	DCA Ø				
	8422	2436	152 1 K	(9			
		7482	HLT	/ISZ FAILE	ED. NO SKIP		
	9424	1000	TAD Ø				
	Ø425	7440	₹ SZA ~				
	Ø426	7482	HLT	/AC SHOULD	RECT FAILED D BE Ø		
			/INDIRECT ADDRE	ESSING TEST 4			
	8427	7200	CLA				
	8438	1572	TAD I H	(176 /OPERAND=:	175		
	8431	7841	CIA	-			
	6432	1176	TAD K17	75			
	FFAR	7440	SEA				
	8434	7482	HET	/TAD INDII /AC SHOULI	RECT FAILED D BE ZERO		
	4 · · ·				•		
	All San		/INDIRECT ADDRE	ESSING TEST 5			
	8435	7299	CLA				
	8436	1020	TAD K77				
	Ø437	#572	AND I	(176 /OPERAND#:	175		
	0440	7041	CIA				
	8441	1176	TAD K17				
	8442	7440	SZA		RECT FAILED		
	8443	7482	HLT	/AC SHOUL	D RE SEMO		
	*	* .	/INDIRECT ADDRE	ESSING TEST 6			
	0444	7299	CLA -				
	0445	1172	TAD K17	76			
	Ø446	3000	DCA Ø	<b>™</b>			
	0447	2436	ISE I	<Ø			
	0450	7410	SKP				
	0451	7482	HLT	/ISE SKIP	PED ILLEGALLY		
	Ø452	1000	TAD Ø				
	0493	7941	CIA				
	0454	1172	TAD K1	76			
	8455	7040	CMA				
	Ø456	7448	SZA				
	9457	7402	HLT	/DCA INDI	RECT FAILED		

/PDP-8/E	INSTRU	JCT I ON	TEST 2	MAINDEC-8E-DØBB	PAL10 VI	41 10-JUI	N-71 9	149	PAGE 1-6
					/AC SHOULD	BE ZERO			
			/IND	IRECT ADDRESSING	TEST 7				
	0460	7200		CLA					
	Ø461	1573		TAD I K172	/OPERAND=1	.76			
	8462			CIA					
	0463	1172		TAD K176					
	0464	7440		SZA					
	6465	7482		HLT	AC SHOULD	RECT FAILED DE ZERO			
			/IND	IRECT ADDRESSING	TEST &				
	8466	7288		CLA					
	8447	1928		TAD K7777		•			
	8478	#573		AND [ K172	/OPERAND=1	7.0			
	8471	7841		CIA TAD K176					
	8472 8473	1172		324	AND INDIA	ECT FAILED			
	8474	7482		HLT	AC SHOULD	BE BERD			
			/146	IRECT ADDRESSING	rest #				
			-9 -8 -4-8						
	8475	7255		CLA					
	3476	1173		TAD K172					•
	-8477	2000		DGA Ø					:
	8588	2436		2KP 185 1 KO					
	8561 8582	741 <b>8</b> 74 <b>8</b> 2		· NLT	/ISE SKIP	ED TLLEGALL	Υ		
	9593	1000		TAD #	7 T T T T T T T T T T T T T T T T T T T				
				177.					•

# CIA TAD K172 CHA SEA 8587 7448 /DCA INDIRECT FAILED /AC SHOULD BE BERG HLT 8518 7482

## /INDIRECT ADDRESSING TEST 18

8511	7200	GLA	
8512	1574	TAD I K173	/OPERAND#172
Ø513	7941	CIA	
	1173	TAD K172	
0515	7440	SZA	
	7482	HLT	/TAD INDIRECT FAILED
2710	,,		/AC SHOULD BE ZERO

## /INDIRECT ADDRESSING TEST 11

0517	7200	CLA	
Ø52Ø	1020	TAD K7777	
0521	Ø574	AND I K173	/OPERAND=172
Ø522	7041	CIA	

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-8/E INSTRUCTION TEST 2 MAINDEC-8E-DØBB
                                           PAL10
                                                     41
                                                           10-JUN-71
                                                                           9:49
                                                                                   FAGE 1-7
     Ø523 1173
                           TAD K172
     0524 7440
                           SZA
                                           /AND INDIRECT FAILED
     0525 7402
                           HLT
                                           /AC SHOULD BE ZERO
                   /INDIRECT ADDRESSING TEST 12
     0526 7200
                           CLA
     Ø527 1174
                           TAD K173
     0530 3000
                           DCA Ø
     0531 2436
                           ISE I KØ
     0532 7410
                           SKP
     Ø533 7402
                           HLT
                                          /ISE SKIPPED ILLEGALLY
    Ø534
          1000
                           TAD Ø
    0535 7041
                           CIA
    0536 1174
                           TAD K173
    0537 7040
                           CMA
    Ø54Ø 744Ø
                          SZA
    0541 7402
                           HLT
                                          /DCA INDIRECT FAILED
                                          /AC SHOULD BE ZERO
                  /INDIRECT ADDRESSING TEST 13
    8542 7288
                          CLA
    8543 1575
                          TAD 1 K174
                                          /OPERAND#173
    8544 7841
                          CIA
    8545 1174
                          TAD K173
    8546 7448
                          SEA
    8547 7482
                          HLT
                                          /TAD INDIRECT FAILED
                                          /AC SHOULD BE ZERO
                  /INDIRECT ADDRESSING TEST 14
    8558 7288
                          CLA
    8581 1828
                          TAD K7777
    8552 8575
                          AND | K174
                                          /OPERAND=173
    8553 7841
                          CIA
    8554
         1174
                          TAD K173
    8555 744Ø
                          SEA
                                          /AND INDIRECT FAILED
    8556 7402
                          HLT
                                          /AC SHOULD BE ZERO
                 /INDIRECT ADDRESSING TEST 15
   Ø557
         7200
                          CLA
   8568 1175
                         TAD K174
   0561 3000
                         DCA Ø
   8562 2436
                         ISZ I KØ
   Ø563 741Ø
                         SKP
   8564 7482
                         HLT
                                         /ISE SKIPPED ILLEGALLY
   8565 1000
                         TAD Ø
   8566 7841
                         CIA
   0567
         1175
                         TAD K174
   8578 7848
                         CMA
   8571 7448
                         SZA
   Ø572 7402
                         HLT
                                         /DCA INDIRECT FAILED
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/POP-8/E	INSTRU	CTION	TEST 2	MAINDE	C-8E-D#BB	PAL10	V141	18-JUN-71	9149	PAGE 1-8
						/AC SH	DULD BE	ZERO		
	Ø573	5377		JMP	.+4	,,,,				
	8574	7000		NOP	•					
	8575	7888		NOP						
	Ø576	7000		NOP						
	Ø577	7000		NOP						
		9609	#699 /INDI	RECT A	DORESSING	TEST 16				
			11.01							
	9699	7288		CLA			408704	No.4 74		
	Ø6 <b>8</b> 1	1576			I K175		JUPEKA	ND=174		
	9692	7041		CIA	K174					
	5653 5654	7448		SEA	7					
	8685	7482		HLT			NDIRECT			
						/AC SH	OULD BE	ZERO		
			JAUTO	INDEX	TEST 1					
			7 40 . 0							
	8686	7288		CLA		450NET	AND TO E	E INDEXED		
	5687	1936		TAD		/CONST	ANI IU B	E INDEXED		
	8618 8611	3818 6418		DCA	1 18		/DO AU	TO INDEX		
	\$612	1918		TAD						
	8613	1935			K7776		/AC SH	IOULD EQUAL 777	7	
	#614	7048		CHA			0 B BC	7000		
	6615	7440		SZA			OULD BE INDEX ER			
	8616	7482		HLT		780.0	INDER E			
			/AUTO	INDEX	TEST 2					
	8617	7288		CLA					•	
	8628	1935		TAD	K7776		/CONST	ANT TO BE INDE	XED	
	<b>#621</b>	3010		DCA			488 41	TA THREY		
	8622	8418		AND	1 10		/DO AL	TO INDEX		
	8623	1010		TAD		ZAC SH	OULD EOL	A) 7777		
	Ø624 Ø625	1036		CMA		727 011			*	
	8626	7448		SEA			OULD BE			
<u>.</u>	Ø627	7482		HLT		/AUTO	INDEX EF	ROR		
			/AUTO	INDEX	TEST 3					
			,							
	0630	7200		CLA			/canet	ANT TO BE INDE	YED	
	0631	1034		DCA	K7775		/ CUND	WHI TO DE THUE	n u W	
	Ø632	3010			1 10		/00 AL	JTO INDEX		
	Ø633 Ø634	1010		TAD					_	
	Ø635	1051		TAD	K0001		/AC SI	HOULD EQUAL 777	7	
	Ø636	7848		CMA		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Out 8 8-	3000		
	Ø637	7440		SZA		AC SH	OULD BE	EFKA EFKA		
	Ø64Ø	7402		HLT		PAULU	INDEX F	NOR		

/(	8/E INSTRUCTION	TEST 2 MAINDEC-8E-DEBB	PAL10 11 10-JUN-71 914	19
`		AUTO INDEX TEST 4		
	Ø641 720Ø	CLA		
	Ø642 <u>1</u> 033	TAD K7773	/CONSTANT TO BE INDEXED	
	0643 3010	DCA 10	A DE THOUMANT TO DE THOUMANT	
	0644 1410	TAD I 10	/DO AUTO INDEX	
	0645 7200	CLA		
	0646 1010	TAD 10		
	8647 1847	TAD KØØØ3	/AC SHOULD EQUAL 7777	
	0630 7040	CMA		
	Ø651 744Ø	SZA	/AC SHOULD BE ZERO	
	0652 7402	HLT	AUTO INDEX ERROR	
		/AUTO INDEX TEST 5		
	0653 7200	CLA		
	0694 1032	TAD K7767	CONSTANT TO BE INDEXED	
	Ø655 3010 Ø656 Ø410	DCA 10		
		AND I 10	/DO AUTO INDEX	
	0657 1010 0660 1046	TAD 10		
	8661 7948	TAD KØØØ7 Cma	/AC SHOULD EQUAL 7777	
	Ø662 744Ø	SZA	445 0H0H B BH 75-0	
	8663 7482	HLT	/AC SHOULD BE ZERO /AUTO INDEX ERROR	
		AUTO INDEX TEST 6		
	8664 7288	CLA		
	8645 1831	TAD K7757	15646744B = 6.00	
	6666 3010	DCA 10	CONSTANT TO BE INDEXED	
	9667 9418	AND I 18	/DO AUTO INDEX	
	<b>8678 1918</b>	TAD 18	AND MAIN THREY	
	<b>8671 1845</b>	TAD KBB17	/AC SHOULD EQUAL 7777	
	<b>9</b> 672 7949	CMA	AND CHANE 1111	
	Ø673 744Ø	SZA	/AC SHOULD BE ZERO	
	8674 7492	HLT	AUTO INDEX ERROR	
		/AUTO INDEX TEST 7		
	6675 7200	CLA		
	8676 1827	TAD K7737	CONSTANT TO BE INDEXED	
	0677 3018	DCA 10	ACOUSTANT TO BE INDEXED	
	9700 9419	AND I 10	/DO AUTO INDEX	
	0701 1010	TAD 18	AAA MAIN THREY	
	6782 1644	TAD KØ037	/AC SHOULD EQUAL 7777	
	07 <b>93 7040</b>	CMA	THE CHOCK EGORE ////	
	0704 7440	SZA	/AC SHOULD BE ZERO	
	Ø7Ø5 <b>7</b> 492	HLT	AUTO INDEX ERROR	
		/AUTO INDEX TEST 8		
	0706 7200	CLA		
	0707 1026	TAD K7677	CONSTANT TO BE INDEXED	
	0710 3010	DCA 10	THUE ALL	
	Ø711 Ø41Ø	AND I 10	/DO AUTO INDEX	

/PDF	-8/E INSTRU	CTION	TEST 2 MAINDE	C-8E-D#88	PAL10	V141	16-JUN-71	9:49	PAGE 1-18
	Ø712	1010	TAD	10					
	0713	1043		K0077		/AC S	SHOULD EQUAL 77	77	
	0714	7040	CMA						
	0715	7440	SZA			DULD BE			
	<b>Ø716</b>	7482	HLT		/AUTO	INDEX EF	IROR		
			/AUTO INDEX	TEST 9					
	0717		CLA					ws.	
	Ø72 <b>6</b>	1025		K7577		/CONS	ANT TO BE INDE	XED	
	<b>Ø721</b>	3010	DCA			400 41	ITA THATY		
	<b>6722</b>	8418		1 10		JUU A	ITO INDEX		
	<b>6723</b>	1010	TAD			/40 CL	HOULD EQUAL 777	7	
	<b>6724</b>	1942		KØ177		/AU SI	IOUED EGOVE 111	•	
	<b>6725</b>	7949	CMA		/AC SHI	OULD BE	750N		
	<b>6</b> 726	7448	SZA			INDEX EF			
	<b>6727</b>	7482	HLT		7 4 9 1 0	INDEX C	···········		
			/AUTO INDEX	TEST 18					
	<b>8738</b>	7200	CLA					_	
	8731	1824	TAD	K7377		/CONS	ANT TO BE INDE	XED	
	8732	3010	DÇA						
	6733	9410		1_10		/DO AL	TO INDEX		
	<b>9734</b>	1818	TAD					•	
	9735	1841		K8377		JAC SI	IOULD EQUAL 777	,	
	<b>873</b> 6	7848	CMA				3000		
	<b>8737</b>	7448	SEA			OULD DE			
	\$740	7492	HLT		ZAUTU	INDEX EF	AUNI	1	
			/AUTO INDEX	TEST 11					
	8741	7289	CLA						
	#742	1823	TAD	K6777		VCONS.	ANT TO BE INDE	XED	
	<b>8743</b>	3010	DCA						
	<b>6744</b>	0410		1 10		/00 A	JTO INDEX		
	8745	1010	TAD			448 01	10.01 B POHAL 977	7	
	<b>\$</b> 746	1848		K8777		/AG SI	HOULD EQUAL 777	•	
	8747	7040	CMA		/AC 64	A.U. A. B.F.	3080		
	8750	7440	SEA			OULD BE Index ei			
	8751	7482	HLT		74010	INDEN E	YN ON.		
			/AUTO INDEX	TEST 12					
	0752	7200	CLA			45040	TANK TO BE INSE	VER	
	<b>Ø75</b> 3	1022		K5777		JUQNS	TANT TO BE INDE	VED	
	8754	3010	DCA			/0A +1	ITO THREY		
	6755	2410		I 10		AND W	JTO INDEX		
	5756	7000	NOP	4 0					
	6757	1010	TAD	10 K1777		/AC 81	HOULD EQUAL 777	7	
	9769	1037				, M.G. 31		-	
	<b>0761</b>	7040 7440	CMA SZA		AC SH	OULD BE	<b>ZFRO</b>		
	Ø762								

		ANIO THUE	1 1231 10	
0764 0766 0766 07766 07771 07772 07773 07777	7 2 0 2 1 0 0 1 1 0 0 1 2 0 0 1 1 0 0 1 1 0 0 1 1 0 0 1 1 0 0 1 1 0 0 1 1 0 0 1 1 0 0 1 1 0 0 1 1 0 0 1 1 0 0 1 1 0 0 1 1 0 0 1 1 0 0 1 1 0 1	DC/ AND TAG	X3777 A 10 J I 10 J 10 J K3777	/CONSTANT TO BE INDEXED  /DO AUTO INDEX  /AC SHOULD EQUAL 7777  /AC SHOULD BE ZERO /AUTO INDEX ERROR
	1000	*1000		
		/AUTO INDE	TEST 14	
1888 1881 1882 1883 1884 1885 1886 1887 1818	7288 1828 3818 8418 1928 7948 7418 8688	DG/ ANE TAE TAE CM/ SKF	K7777 18 18 118 18 18 187777	/GONSTANT TO BE INDEXED /DO AUTO INDEX /AG_SHOULD EQUAL 7777
1811 1812	7449	SE! HL1		/AC SHOULD BE ZERO /AUTO INDEX ERROR
		/AUTO INDE	CTEST 15	•
1813 1814 1815 1816 1817 1828 1821 1822 1823	7200 1836 3811 8411 1811 1835 7848 7482	DG/ AND TAE	) KØ 111 ) I 11 ) I1 ) K7776	/CONSTANT TO BE INDEXED  /OO AUTO INDEX  /AC SHOULD EQUAL 7777  /AC SHOULD BE ZERO /AUTO INDEX ERROR
		AUTO INDE	C TEST 16	
1824 1825 1826 1827 1838 1831 1832	7288 1035 3011 0411 1011 1036 7040	DC/ AND TAI	0 K7776 1 11 0 I 11 0 11 0 KØ	/CONSTANT TO BE INDEXED /DO AUTO INDEX /AC SHOULD EQUAL 7777

/PDP-8/E	INSTRU	CTION	TEST 2	MAINDE	C-8E-D088	PAL10	V141	18-JUN-71	9;49	PAGE 1-12
	1033 1034	7440 7462		SZA HLT		/AC SHO				
			/AUT	O INDEX	TEST 17					
	1035 1036	7200 1034			K7775		/CONST	ANT TO BE INDE	(ED	
	1037 1040	3011 3411		DÇA	11		<b>≠00 AU</b>	JTO INDEX		
	1041	1011		TAD	11				•	
	1842	1051			K8881		/AC SH	HOULD EQUAL 777	•	
	1843 1844	7946 7440		CMA Sēa		/AC SH	OULD BE	ZERO		
	1845	7482		HLT		/AUTO				
		_	/AUT		TEST 18					
	1046 1047	7200 1033		CLA	K7773		/const	ANT TO BE INDE	KED	
	1050	3011		DCA	11   11		ZDO AL	JTO INDEX		
	1051 1052	1411		CLA	1 -1		700 11			
	1853	1811		TAD			/A# 01	HOULD EQUAL 777	,	
	1854 1855	1847		CHA	K0003		/AU 31	HOULD EGOVE \\\		
	1856	7448		ASE		/AC SH	OULD BE	ZERO		
	1857	7492		HLT		ZAUTO	INDEX ER	ROR		
			/AUT	INDEX	TEST 19					
	1868	7288		CLA	K7767	•	/CONS1	TANT TO BE INDE	KED	
	1961	1832		DCA				•		
	1863	8411		AND	I 11		NDO AL	ITO INDEX		
	1864	1811	4	TAD	11 K8887					
	1866	7040		CMA		446 611		3-00		
	1047 1070	7448		sea Hlt		/AUTO	OULD BE Index Ef	EERU RROR		
	10/0	1776				, .,				
	4034	<b>*20</b> 0	/AUT		TEST 20					
	1071 1072	720 <b>0</b> 1031		CLA TAD	K7757		/CONS	TANT TO BE INDE	XED	
	1073	3011		DCA	11					
	1874	9411 1911		AND TAD	I 11		JUU AU	JTO INDEX		
	1075 1076	1045		TAD	K8817		/AC SH	HOULD EQUAL 777	7	
	1077	7848		CMA		/AC 9H	OULD BE	3580		
	1100	7440		SZA HLT			INDEX E			
			/AUT	O INDEX	TEST 21					
	1182	7200	* **** '	CLA			ARRIA!	TANT TO BE INDE	YED	
	1103 1104	1027 3011		TAD DCA	K7737		/CONS	INNI IO DE TUDE	A & U	
	7724	å n † †		504	**					

		~# T C N	TEAR 3 H	14 T N P P A	- 85 - N48D	<b>5</b> A I 4 Ø	41	16-JUN-71	0:40	PAGE 1-13
1	-B/E INSTRU	CITON	1231 2 7	NINDE	,-01-U\$BD	AMPIA	₹≛	In-Coll-1I	7177	PROE
(	1105	0411		AND	1 11		/00 A	JTO INDEX		
	1106	1011		TAD						
	1107	1044			K9037		/AC S	HOULD EQUAL 7777		
		7040		CMA				7-20		
	1111	7440		SZA		/AC SHO				
	1112	7402		HLT		/AUTO 1	NOLA LI	TRUK		
			/AUTO	INDEX	TEST 22					
	1113	7200		CLA	-					
	1114			TAD	K7677		/CONS	TANT TO BE INDEXE	D	
	1115	3011		DÇA	11					
	1116	8411		AND	I 11		/00 A	UTO INDEX		
	1117	1011		TAD						
		1043			K0077		/AG SI	HOULD EQUAL 7777		
		7848		CMA		/4C 6UC	0 25	3000		
		7440		SZĄ		/AC SHO				
	1123	7402		HLT		7,010	UEA EN	JOH		
			/AUTO	INDEX	TEST 23					
	1124	7200		CLA			,			
	1125	1025		TAD	K7577		/CONS	TANT TO BE INDEXE	D	
	1126	3011		DÇA	11					
	1127	0411		AND	I 11		/DO A	UTO INDEX		
	1130	1011		TAD						
	1131	1042			K8177		/AC S	HOULD EQUAL 7777		
	1132	7846		CHA		AC SHO	111 B BE	3000		
	1133	7448		SEA		/AUTO !				
	1134	1465		ng i		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	11000	···· <b>y</b> ··		
			JAUTO		TEST 24					
	1135	7200		CLA					-	
	1136	1824			K7377		/CUNS	TANT TO BE INDEXE	,U	
	1137	3011		DCA			400 A	UTO INDEX		
	1148	8411		TAD	I 11		ADO V	DIO THREV		
	1141 1142	1811			K#377		AC S	HOULD EQUAL 7777		
	1143	7848		CMA	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		, ,,			
	1144	7440		SZA		/AC SHO	ULD BE	ZERO		
	1145	7482		HLT		/AUTO				
			441176	THEFT	TECT 02					
	. 4444	7288	PAULO	CLA	TEST 23					
	1146 1147	1023		TAR	K6777		/CONS	TANT TO BE INDEXE	. D	
	1190	3011		DCA			, 00110	10H1 14 55 \$11550	,•	
	1151	0411			Ĭ 11		/00 A	UTO INDEX		
	1152	1011		TAD						
	1153	1040		TAD	KØ777		/AC S	HOULD EQUAL 7777		
	1154	7040		CMA			_			•
	1155	7440		SZA		/AC SHO				
	1156	7402		HLT		/AUTO	NDEX E	KKOR		
			JAHTO	INDEY	TEST 26					
	1187	7200	,,,,,,	CLA						
	1160	1022		TAD	K5777		/CONS	TANT TO BE INDEXE	O	

/PDP-8/E	INSTRU	CTION	TEST 2	MAINDE	C-8E~D##8	PAL18	V141	10-JUN-71	9149	PAGE 1-14
	1161 1162 1163	3011 2411 7000		DCA 1SE NOP	11 1 11		/DO AU	TO INDEX		
	1164 1165	1011		TAD TAD	11 K1777		/AC SH	OULD EQUAL 777	7	
	1166 1167	7040		CMA SZA			OULD BE			
	1170	7402		NOP	*4	/4010	INDEX ER	NUN .		
	1172	5376 7000 7000		NOP NOP	,+4					
	1174 1175 1176	7000		NOP NOP						
	1177	7999		NOP						
			PAUSE							
			/TEST	2 -	TAPE 2					
		1208	41268							
	1288	7206	/AUTO	INDEX	TEST 27					
	12 <b>8</b> 1 12 <b>8</b> 2	1021		TAD	K3777 11			ANT TO BE INDE	XED	
	1283	8411	*	AND	I 11 11			TO INDEX	_	
	1285	1021		CMA	K3777			OULD EQUAL 777	<b>17</b>	
	1287	7448		SEA		/AUTO	OULD BE INDEX ER	ROR		
	1211	7200	/AUTO	INDEX	TEST 28					
	1212	1026			K7777 11		/CONST	ANT TO BE INDI	EXED	
	1214 1215	8411			I 11			TO INDEX		
	1216	1020		TAD	K7777			OULD EQUAL 777	77	
	1229 1221	7448 7482		SZA HLT			OULD BE INDEX ER			
	4000	7080	/AUTO	INDEX	TEST 29					
	1222	7200 1036 3012		TAD		/CONST	ANT TO B	E INDEXED		
	12 <b>24</b> 12 <b>25</b> 12 <b>26</b>	0412 1012		AND	I 12		/D0 AU	TO INDEX		
	1227 1230	1035			K7776		/AC SH	OULD EQUAL 77	77	

(	'-8/E INSTRUCTION	N TEST 2 MAINDEC-8E-DØBB	PAL10 141 10-JUN-71 9:49 PAGE 1-15
\	1231 7446	ð S₹A	/AC SHOULD BE ZERO
	1232 740	· · · · · · · · · · · · · · · · · · ·	/AUTO INDEX ERROR
		AUTO INDEX TEST 30	
	1233 7201 1234 103!		CONSTANT TO BE INDEXED
	1234 103! 1235 301:		ACOMA NATION OF THE THE PLANTS
	1236 041		/DO AUTO INDEX
	1237 101	· · · · · · · · · · · · · · · · · · ·	
	1240 103		/AC SHOULD EQUAL 7777
	1241 704		
	1242 744		/AC SHOULD BE ZERO
	1243 740	2 HLT	/AUTO INDEX ERROR
		/AUTO INDEX TEST 31	
	1244 7201		
	1245 103		CONSTANT TO BE INDEXED
	1246 301	= · · · · · · · · · · · · · · · · · · ·	/DO AUTO INDEX
	1247 3412		AND MOID THREW
	1250 1011 1251 105		/AC SHOULD EQUAL 7777
	1252 7041		had anodes made him
	1253 744	· · · · · · · · · · · · · · · · · · ·	/AC SHOULD BE ZERO
	1254 740		/AUTO INDEX ERROR
		4.USA 1NESU 2502 74	
	4005 906	AUTO INDEX TEST 32	
	1255 7201 1256 103		CONSTANT TO BE INDEXED
	1257 3012		ADDITION TO BE THEELD
	1268 141		/DO AUTO INDEX
	1261 7281	B CLA	
	1262 1013		
	1263 194		/AC SHOULD EQUAL 7777
	1264 7846 1265 7446		/AC SHOULD BE ZERO
	1265 7449 1266 748		AUTO INDEX ERROR
	2500 1,190	- me i	राज्याच्याच्याच्याच्याच्या
		AUTO INDEX TEST 33	
	1267 728		ARRIGING TA DE LUBRIS
	1270 103		CONSTANT TO BE INDEXED
	1271 3017 1272 0417		/DO AUTO INDEX
	1273 1013		And Maid Tunew
	1274 104		/AC SHOULD EQUAL 7777
	1275 7041		
	1276 7441		/AC SHOULD BE ZERO
	1277 740	2 HLT	AUTO INDEX ERROR
		/AUTO INDEX TEST 34	
	1300 720	7 CLA	
	1301 103		CONSTANT TO BE INDEXED
	1302 3011		AND ANTO INDEV
	1303 0417	2 AND I 12	/DO AUTO INDEX

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/PDP-8/E	INSTRU	CTION	TEST 2	MAINDE	C-8E-DØBB	PAL18	V141	10-JUN-71	9149	PAGE 1	-16
	4706	4042		TAD	12						
	1304	1012 1045			KØØ17		JAC SH	OULD EQUAL 7777	•		
	13Ø5 13Ø6	7040		CMA	4001		,,,,,				
	1307	7440		SZA		ZAC SHO	DULD BE	ZFRO			
	1310	7462		HLT			INDEX ER				
	1015	,		116			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	•			
			JAUTO	INDEX	TEST 35						
	1311	7200	, , , , ,	CLA							
	1312	1027			K7737		/CONST	ANT TO BE INDE	ED		
	1313	3012		DCA							
	1314	0412		AND	I 12		/DO AU	TO INDEX			
	1315	1012		TAD					-		
	1316	1944			KØØ37		/AC SH	OULD EQUAL 7777	(		
	1317	7848		CMA							
	1320	7440		524		/AC SHO					
	1321	7482		HLT		/AUTO	INDEX E	KKUK			
					TFC= 34						
	. =		ZAUTO		TEST 36						
	1322	7200		CLA	v7477		ACONET	ANT TO BE INDE	(FD		
	1323	1926			K7677		7001131	WALL TO DE THOSE			
	1324	3012		DCA	1 12		ZOO AU	TO INDEX			
	1325 1326	8412 1812		CAT			, 50 ,0	ig tages			
	1327	1843			KØØ77		ZAC SH	OULD EQUAL 7777	7		
	1339	7849		CMA	N2011		, ,,,				
	1331	7440		ASS		/AC SHO	DULD BE	ZERO			
	1332	7482		HLT			INDEX ER				
	200-	V		•••							
			JAUTO	INDEX	TEST 37						
	1333	7200		CLA							
	1334	1925			K7577		/CONST	ANT TO BE INDEX	(ED		
	1335	3812		DCA				<b>-</b>			
	1336	9412	•		1 12		ADO YO	TO INDEX			
	1337	1012		TAD	12		/AC 6H	OULD EQUAL 777	,		
	1340	1942			K8177		/AC 3H	OUTD EGOVE ILL			
	1341	7849		CMA		AC CHO	DULD BE	35BN			
	1342	7440		SZA			INDEX ER	'			
	1343	7402		HLT		7,0010	MOEN EN				
			AUTO		TEST 38						
	1344	7290		CLA	レフモマフ		/CONET	ANT TO BE INDE	KEN		
	1345	1024			K7377		100491	uld to at these	n = U		
	1346	3012		DCA			200 AH	TO INDEX			
		9412		TAD	I 12		, ad Ad	O SHAME			
		1012			KØ377		/AC SH	OULD EQUAL 777	7		
		1041		CMA			, U	· · · · · · · · · · · · · · · · · · ·	-		
	2000	7440		SZA		/AC SH	OULD BE	ZERO			
	1354	7482		HLT			INDEX ER				
	1097	, ,		rime i				•			
			/AUTO	INDEX	TEST 39						
	1355	7200		CLA							
		1023		TAD	K6777		/CONST	ANT TO BE INDE	XED		
	1357	3012		DCA	12						

/PDP(	INSTR	UCTION	TEST 2	MAIND	EC-8E-DØBB	PAL10	v <b>(</b>	10-JUN-71	9:49	PAGE 1-17
`	1360	0412		A NI	D I 12		400			
		1012			12		ADO MO	JTO INDEX		
	1362			TA	K0777		/AC CH	OULD EQUAL 7777		
	1363	_		CM	A		/ NU 3h	OULD EGUAL ///		
		7442		SZ		/AC SHO	UID BE	7500		
	1365	7482		HL.	7	/AUTO I	NDEX FR	ROR		
	47/4	2000	ZAUTO		TEST 40					
		7200 1022		CLI						
	1370	3012			K5777		/CONST	ANT TO BE INDEX	ED	
	1371	2412			12					
	1372	7000		NOP	I 12		/DO AU	TO INDEX		
	1373	1012			12					
	1374	1937			K1777		/A# 611	0		
	1375	7040		CMA			/AC SH	OULD EQUAL 7777		
	1376	7440		ASS		/AC SHO		3500		
	1377	7402		HLT		/AUTO I	NDEX FRI	200 Rop		,
								····		
		4 4 9 0								
		1400	*1400							
	1480	7288	ZAUTO		TEST 41					
	1481	1821		CLA						
	1402	3012			K3777		/CONST/	ANT TO BE INDEX	(ED	
	1483	8412		DCA	1 12		488			
	1484	1012		TAD	12		ADD VAL	TO INDEX		
	1485	1021			K3777		/AF 6H0	)		
	1486	7048		CMA			740 340	OULD EQUAL 7777		
	1487	7448		SZA		/AC SHOU	IID RE 2	ren		
	1410	7482		HLT		/AUTO IN	DEX ERR	io <b>r</b>		
			4.1150							
	4444	7200	PAUTO		TEST 42					
	1411 1412	1020		CLA						
	1413	3012			K7777		/CONSTA	NT TO BE INDEXE	D	
	1414	0412		DÇA	Î 12		488 AUT			
	1415	1012		TAD			AND MO	O INDEX		
	1416	1020			K7777		/AC 6H0	ULD EQUAL 7777		
	1417	7040		CMA			740 3110	OLD EMONE ////		
	1420	7448		SZA		/AC SHOU	ID RE Z	E <b>9</b> 0		
	1421	7402		HLT		/AUTO IN	DEX ERR	OR		
			4.1150							
	4.453	7284	/AUTO		TEST 43					
	1422 1423	7200 1036		CLA	.46					
	1424	3013		TAD		/CONSTAN	T TO BE	INDEXED		
		0413		DCA	13 1 13		/DA			
		1013		TAD			DO AUT	OINDEX		
	1427				K7776		/AC 6H0:	111 D COLLA! ====		
	1430	7040		CMA	· · · ·		7 AU 3 MU	ULD EQUAL 7777		
		7440		SZA		/AC SHO	HA DE :	2500		
	1432	7482		HLT		AUTO IN	DEX FRR	EERU DR		
			ZALITO	INDEV	TEST 44			<b>~:</b> •		

/AUTO INDEX TEST 44

/PDP-8/E	INSTRU	CTION	TEST 2	MAINDE	C-8E-DØBB	PAL10	V141	10-JUN-71	9149	PAGE	1-18
	1433	7200		CLA							
	1434	1035			K7776		/CONST	ANT TO BE INDE	XED		
	1435	3013		DCA							
	1436	0413			[ 13		/00 AU	TO INDEX			
	1437	1013		TAD	13						
	1440	1036		TAD	KØ	/AC SHO	DULD EQU	AL 7777			
	1441	7040		CMA				7-00			
	1442	7440		A S S			DULD BE				
	1443	7422		HLT		/AUID	INDEX ER	אטא			
			/AUT	O INDEX	TEST 45						
	1444	7200		CLA							
	1445	1034			K7775		/CONST	ANT TO BE INDE	XED		
	1446	3013		DCA			400 414	T			
	1447	3413			1_13		ADO AO	TO INDEX			
	1450	1013			13		115 CH	OULD EQUAL 777	7		
	1451	1051			K0001		/AU 3H	ORTH FROME 111	•		
	1452	7040		CMA SZA		/AC SHO	א מוות	7500			
	1453 1454	7402		HLT			INDEX ER				
	1434	, , , , ,		ne.							
			4 4 4 4 5								
		2024	ZAUT		TEST 46						
	1455	7200		CLA	K7773		CONST	ANT TO BE INDE	VEN.		
	1456	1933 3913		DCA			/ CUNS !	WHI IN ME THOR	AEU		
	1457 1468	1413			1 13		ZDO AU	TO INDEX			
	1461	7200		CLA			,,,,				
	1462	1013		TAD	13						
	1463	1047			KØ003		/AC SH	OULD EQUAL 777	7		
	1464	7048		CMA							
	1465	7448		SZA			DULD BE				
	1466	7402		HLT		/AUTO	INDEX ER	ROR			
			/AUT		TEST 47						
	1467	7200		CLA			486	Aug 86 05 1155	wF6		
	1470	1932			K7767		CONST	ANT TO BE INDE	XLU		
	1471	3013		DCA	13		400 AII	TO INDEX			
	1472	0413		TAD	1 13		ADO NO	IN THREY			
	1473	1013			KØØØ7		ZAC SH	OULD EQUAL 777	7		
	1474 1475	1846 7848		CMA			, NO 311		•		
	1475	7440		SZA		JAC SHE	OULD BE	ZFRO			
		7402		HLT			INDEX ER				
	A 7 / 1	,									
			/AUT		X TEST 48						
	1500	7200		CLA	47754		ACCHICT	ANT TO BE INDE	VEN		
	1501	1031			K7757 13		- COMP.	THE THUE	ALU		
	1502	3013			1 13		/D0 A11	TO INDEX			
	1503 1504	1013		TAD			, DU NO	· • • • • • • • • • • • • • • • • • • •			
	1505	1045			KØØ17		/AC SH	OULD EQUAL 777	7		
	1506	7040		CMA							
	1507	7440		SZA		/AC SH	OULD BE	ZERO			
	1510	7482		HLT			INDEX ER				
	-										

/E INSTR	UCTION	TEST 2	MAINDEC-8E-DØBB	PAL10	. +1	10-JUN-71	9149
		/ 411 7 /	TAIDEN TECH 40				
1511	7200	ZAUT	INDEX TEST 49				
1512			CLA				
1513			TAD K7737		/CONST	ANT TO BE INDE	KED
1514			DCA 13				
1515	-		AND I 13		/DO AU	TO INDEX	
1516			TAD 13				
1517			TAD K0037		/AC SH	OULD EQUAL 7777	,
1520			CMA				
1521			SZA	/AC SHOU	JLD BE	ZERO	
1761	7402		HLT	/AUTO IN	IDEX ERI	ROR	
		/AUTO	INDEX TEST 50				
1522	7200		CLA				
1523	1026		TAD K7677		CONSTA	NT TO BE INDEX	
1524	3013		DCA 13	. *	/ CONS I	MI JOB DE THOEX	E D
1525	9413		AND I 13		ZDO AUT	O INDEX	
1526	1013		TAD 13		, 50 XO	O THREY	
1527			TAD KØØ77		AC SHO	ULD EQUAL 7777	
1530	7040		CMA	• •	, , , , , , , , , , , , , , , , , , , ,	OLD EMONE ////	
1531	7440		SZA	/AC SHOU	10 BE 7	SEBO.	
1532	7402		HLT	/AUTO IN	DEX ERR	OR	
		ZALITO	INDEX TEST 51				
1533	7200	7,010					
1534	1025		CLA TAD MZETZ				
1535	3013		TAD K7577 DCA 13		/CONSTA	NT TO BE INDEX	€D
1536			AND I 13				
1537			TAD 13	•	PDD AUT	O INDEX	
1540			TAD KØ177				
1541			CMA	•	AC SHO	ULD EQUAL 7777	
1542			SZA	446			
1543	7482		HLT	/AC SHOUL	D BE 2	ERO	
4- /-	, <del>, ,</del>	4.44		/AUTO IN	JEX ERR	OR	
4844	W202	/AUTO	INDEX TEST 52				
1544	7200		CLA				
1545	1024		TAD K7377		CONSTA	NT TO BE INDEXE	ED.
1546 1547			DCA 13				<del>, -</del>
-	0413		AND I 13	/	DO AUTO	INDEX	
1550	1013		TAD 13				
1551	1041		TAD KØ377	/	AC SHOL	JLD EQUAL 7777	
1552	7040		CMA				
1553 1554	7440 7402		SZA	/AC SHOUL	D BE ZE	RO	
1994	7402		HLT	/AUTO IND	EX ERRO	OR .	
1555	7200	PAUTO	INDEX TEST 53				
	1023		CLA				
	3013		TAD K6777	/	CONSTAN	IT TO BE INDEXE	D
	9013 0413		DCA 13				
	1013		AND I 13	/	DO AUTO	INDEX	
	1040		TAD 13				
	7040		TAD KØ777 Cma	/	AC SHOU	LD EQUAL 7777	
-	7440		SZA	/AC 011000			
<del>-</del> -			JE A	/AC SHOUL	D BE SE	RO	

PAGE 1-19

/AUTO INDEX TEST 54 1566 7200 1576 1802 CLA 1566 7200 1576 1802 CLA 1577 1802 CLA 1578 3813 CCA 13 1571 2413 ISE I 13 /DO AUTO INDEX 1572 7800 NOP 1573 3813 TAO 13 1574 1803 TAO 13 1574 1803 TAO 13 1574 1803 TAO 13 1576 7440 SZA /AC SHOULD EQUAL 7777 1579 7840 CHA 1576 7440 SZA /AC SHOULD EQUAL 7777 1608 7440 SZA /AC SHOULD EQUAL 7777 1608 1801 TAO 13 1609 1801 TAO 13 1601	/PDP-8/E	INSTRU	CTION	TEST 2	ALINDE	C-8E-D088	PAL10	V141	18-JUN-71	9149	PAGE 1-20
1566 7268 CLA		1565	7482		HLT		/AUTO	INDEX ER	ROR		
1567 1922 TAD K5777 /CONSTANT TO BE INDEXED 1578 3813 CA 13 1571 2413 ISE I 13 /DO AUTO INDEX 1571 7680 NOP 1573 1813 TAD 13 1574 1837 TAD K1777 /AC SHOULD EQUAL 7777 1575 7640 SEA /AC SHOULD BE ZERO 1577 7440 SEA /AC SHOULD BE ZERO 1577 7482 HLT /AUTO INDEX ERROR  1688 72P8 /AUTO INDEX TEST 55 1688 72P8 AND I 13 /DO AUTO INDEX 1681 1821 TAD K3777 /CONSTANT TO BE INDEXED 1682 3813 DACA 13 /DO AUTO INDEX 1683 1833 AND I 13 /DO AUTO INDEX 1684 1833 TAD 13 /DO AUTO INDEX 1685 1821 TAD K3777 /AC SHOULD BE ZERO 1687 7480 CHA 1687 7480 SEA /AC SHOULD BE ZERO 1688 1828 TAD K7777 /CONSTANT TO BE INDEXED 1611 7280 CHA 1612 1828 TAD K7777 /CONSTANT TO BE INDEXED 1613 3813 OCA 13 1614 8413 AND I 13 /DO AUTO INDEX 1615 1828 TAD K7777 /CONSTANT TO BE INDEXED 1616 7480 CHA 1617 7480 CHA 1628 7480 CHA 1628 7480 CHA 1629 7480 CHA 1620 7480 CHA 1621 1835 TAD K7777 /AC SHOULD EQUAL 7777 1627 7280 CHA 1628 7480 CHA 1629 7480 CHA 1621 7480 CHA 1621 1835 TAD K7776 /AC SHOULD EQUAL 7777 1630 7640 CMA 1631 7440 SEA /AUTO INDEX ERROR  /AUTO INDEX TEST 57 1627 7680 CMA 1631 7440 SEA /AC SHOULD BE ZERO 1631 7440 SEA /AC SHOULD BE ZERO 1633 7280 CMA 1631 7440 SEA /AC SHOULD BE ZERO 1633 7280 CMA 1631 7440 SEA /AC SHOULD BE ZERO 1633 7280 CMA 1633 7280 CMA 1633 7280 CMA 1631 7440 SEA /AC SHOULD BE ZERO 1633 7280 CMA 1634 1835 TAD K7776 /AC SHOULD BE ZERO 1634 TAD SEA /AC SHOULD BE ZERO 1635 TAD K7776 /AC SHOULD BE ZERO 1636 7480 CMA 1637 TAD SEA /AC SHOULD BE ZERO 1637 TAD SEA /AC SHOULD BE ZERO 1638 TAD K7776 /AC SHOULD BE ZERO 1634 TAD SEA /AC SHOULD BE ZERO 1635 TAD K7776 /AC SHOULD BE ZERO 1637 TAD SEA /AD SEA /AC SHOULD BE ZERO 1638 TAD SEA /AD SEA /AD SEA /AC SHOULD BE ZERO 1637 TAD SEA /AD SEA /A				/AUTO	INDEX	TEST 54					
1578 3813 OCA 13 1571 2413 152 133 /DO AUTO INDEX 1572 7888 NOP 1573 1813 TAD 13 1574 1837 TAD K1777 /AC SHOULD EQUAL 7777 1575 7888 CMA 1576 7448 SZA /AC SHOULD BE ZERO /AUTO INDEX TEST 59 1688 7288 CLA 1681 1821 TAD K3777 /CONSTANT TO BE INDEXED 1682 3813 AND I 13 /DO AUTO INDEX 1683 8413 AND I 13 /DO AUTO INDEX 1686 1821 TAD K3777 /AC SHOULD EQUAL 7777 1686 7848 CHA 1687 7448 SZA /AC SHOULD BE ZERO /AUTO INDEX TEST 56 1611 7288 CLA 1612 1828 TAD K3777 /CONSTANT TO BE INDEXED 1618 7482 HLT /AUTO INDEX ERROR  /AUTO INDEX TEST 56 1611 7288 CLA 1612 1828 TAD K7777 /CONSTANT TO BE INDEXED 1614 8413 AND I 13 /DO AUTO INDEX 1616 1828 TAD K7777 /CONSTANT TO BE INDEXED 1617 7848 SZA /AC SHOULD BE ZERO 1618 1823 TAD IS 1616 1828 TAD K7777 /AC SHOULD EQUAL 7777 1617 7848 CMA 1627 7448 SZA /AC SHOULD EQUAL 7777 1617 7488 CMA 1627 7482 HLT /AUTO INDEX ERROR  /AUTO INDEX TEST 57 1627 7288 CLA 1628 3834 CAC SHOULD EQUAL 7777 1629 7448 SZA /AC SHOULD EQUAL 7777 1620 7448 SZA /AC SHOULD EQUAL 7777 1627 7482 HLT /AUTO INDEX ERROR  /AUTO INDEX TEST 57 1627 7288 CLA 1628 3834 CAC SHOULD EQUAL 7777 1637 7482 SZA /AC SHOULD EQUAL 7777 1637 7482 SZA /AC SHOULD EQUAL 7777 1637 7488 SZA /AC SHOULD EQUAL 7777 1637 7489 CMA 1633 7482 HLT /AD K7776 /AC SHOULD EQUAL 7777 1637 7489 SZA /AC SHOULD EQUAL 7777											
1571 2413 152 1 13								/CONST	ANT TO BE INDEX	EO	
1572 7808 NOP 1573 1913 TAD 13 1574 1937 TAD K1777 /AC SHOULD EQUAL 7777 1575 7948 CHA 1576 7440 SZA /AC SHOULD BE ZERO 1577 7462 HLT /AUTO INDEX ERROR  1688 *1688 /AUTO INDEX TEST 55 1688 7208 CLA 1691 1921 TAD K3777 /CONSTANT TO BE INDEXED 1692 3813 AND I 13 /DO AUTO INDEX 1693 9413 AND I 13 /DO AUTO INDEX 1694 1913 TAD 13 1695 1921 TAD K3777 /AC SHOULD EQUAL 7777 1696 7848 CHA 1697 7448 SZA /AC SHOULD BE ZERO 1611 7268 TAD K7777 /CONSTANT TO BE INDEXED 1612 1828 TAD K7777 /CONSTANT TO BE INDEXED 1613 3813 DCA 13 1614 8413 AND I 13 /DO AUTO INDEX 1615 1813 TAD 13 1616 1820 TAD K7777 /CONSTANT TO BE INDEXED 1617 7848 CHA 1618 TAD K7777 /AC SHOULD EQUAL 7777 1617 7848 CHA 1627 7448 SZA /AC SHOULD EQUAL 7777 1617 7848 CHA 1628 TAD K7777 /AC SHOULD EQUAL 7777 1617 7848 CHA 1629 1814 TAD K7777 /AUTO INDEX ERROR  /AUTO INDEX TEST 57 1622 38136 TAD K8 /AC SHOULD EQUAL 7777 1625 1826 TAD K7776 /AC SHOULD EQUAL 7777 1627 7489 CHA 1628 1828 TAD K8 /AUTO INDEX ERROR  /AUTO INDEX TEST 57 1629 1814 TAD 14 1620 1814 TAD 14 1620 1814 TAD 14 1620 1815 TAD K7776 /AC SHOULD EQUAL 7777 1638 7849 CHA 1631 7440 SZA /AC SHOULD BE ZERO 1632 7840 CHA 1631 7440 SZA /AC SHOULD BE ZERO 1633 7840 CHA 1631 7440 SZA /AC SHOULD BE ZERO 1633 7840 CHA 1631 7440 SZA /AC SHOULD BE ZERO 1633 7840 CHA 1631 7440 SZA /AC SHOULD BE ZERO 1633 7840 CHA 1631 7440 SZA /AC SHOULD BE ZERO 1633 7840 CHA 1631 7440 SZA /AC SHOULD BE ZERO 1633 7840 CHA 1631 7440 SZA /AC SHOULD BE ZERO 1633 7840 CHA 1631 7440 SZA /AUTO INDEX ERROR								400 411	TO INDEV		
1973 1913 TAD 13 1974 1937 TAD K1777 /AC SHOULD EQUAL 7777 1975 7948 CMA 1577 7462 HLT /AUTO INDEX ERROR  1688 7298 /AUTO INDEX TEST 55 1688 7891 CMA						1 13		/DU AU	IN TAREY		
1574 1837 TAD K1777 /AC SHOULD EQUAL 7777 1575 7448 SZA /AC SHOULD EZERO 1577 7482 HLT /AUTO INDEX ERROR  1688 7298 CLA K3777 /CONSTANT TO BE INDEXED 1681 1821 TAD K3777 /AC SHOULD EQUAL 7777 1682 8813 DCA 13 /DO AUTO INDEX 1683 1821 TAD K3777 /AC SHOULD EQUAL 7777 1684 1813 TAD 13 /AC SHOULD EQUAL 7777 1686 7848 CHA SZA /AC SHOULD EXEROR  /AUTO INDEX TEST 56 1611 7288 CLA K7777 /CONSTANT TO BE INDEXED 1612 1828 TAD K3777 /AC SHOULD EXEROR  /AUTO INDEX TEST 56 1611 7288 SZA /AC SHOULD EXEROR  /AUTO INDEX TEST 56 1612 1828 TAD K37777 /CONSTANT TO BE INDEXED 1613 3813 DCA 13 /DO AUTO INDEX 1614 4413 AND I 13 /DO AUTO INDEX 1615 1813 TAD 13 /DO AUTO INDEX 1616 1828 TAD K7777 /AC SHOULD EQUAL 7777 1617 7848 CMA K7777 /AC SHOULD EQUAL 7777 1617 7848 CMA /AC SHOULD BE ZERO 1621 7492 HLT /AUTO INDEX ERROR  /AUTO INDEX TEST 57 1622 7288						13					
1575 7048 CMA S2A /AC SHOULD BE ZERO /AUTO INDEX ERROR  1688			1037					/AC SH	OULD EQUAL 7777	1	
1576 7448 SEA /AC SHOULD BE ZERD 1577 7482 HLT /AUTO INDEX ERROR  1688 *1088 /AUTO INDEX TEST 55 1688 7286 CLA M37777 /CONSTANT TO BE INDEXED 1681 1821 TAO M37777 /AC SHOULD EQUAL 7777 1682 3813 AND 1 13 /AD AUTO INDEX 1684 1813 TAD 13 /AC SHOULD EQUAL 7777 1686 7849 CHA /AC SHOULD BE ZERD 1687 7449 SEA /AC SHOULD BE ZERD 1611 7288 CLA K7777 /CONSTANT TO BE INDEXED 1613 3813 DCA 13 /AD AUTO INDEX 1614 8413 AND I 13 /DD AUTO INDEX 1615 1813 TAD I3 /DD AUTO INDEX 1616 1828 TAD K7777 /AC SHOULD EQUAL 7777 1617 7848 CHA SEA /AC SHOULD BE ZERD 1621 7482 HLT /AUTO INDEX ERROR  /AUTO INDEX TEST 57 1622 7288 TAD K7777 /AC SHOULD BE ZERD 1623 1836 TAD K7777 /AC SHOULD BE ZERD 1624 3814 DCA 14 1625 7482 HLT /AUTO INDEX 1626 1814 TAD K8 /CONSTANT TO BE INDEXED 1627 1835 TAD K7776 /AC SHOULD EQUAL 7777 1639 7848 CHA SEA /AC SHOULD BE ZERD 1621 1835 TAD K7776 /AC SHOULD EQUAL 7777 1639 7848 CHA SEA /AC SHOULD BE ZERD 1631 7480 CHA /AUTO INDEX 1631 7480 SEA /AC SHOULD BE ZERD 1633 7280 CHA /AC SHOULD BE ZERD 1634 1835 TAD K7776 /AC SHOULD BE ZERD 1634 1835 TAD K7776 /AC SHOULD BE ZERD 1634 1835 TAD K7776 /AUTO INDEX ERROR								•			
1688 -1688											
AUTO   INDEX   TEST   59			7482		HLT		ZAUTO	INDEX ER	ROR		
AUTO   INDEX   TEST   59			1620	•1600							
1688 7288 CLA 1681 1821 TAO K3777 /CONSTANT TO BE INDEXED 1682 3813 DCA 13 /DO AUTO INDEX 1684 1913 TAD 13 /DO AUTO INDEX 1686 7848 CAA 1687 7448 SZA /AC SHOULD EQUAL 7777 1686 7888 CLA 1611 7288 CAA 1612 1828 TAO K7777 /CONSTANT TO BE INDEXED 1613 3813 DCA 13 1614 8413 AND I 13 /DO AUTO INDEX 1615 1813 TAD 13 1616 1828 TAO K7777 /CONSTANT TO BE INDEXED 1617 7888 CAA 1617 7888 CAA 1618 7489 CAA 1619 1813 TAD 13 1616 1828 TAO K7777 /AC SHOULD EQUAL 7777 1617 7848 CAA 1622 7448 SZA /AC SHOULD BE ZERD 1621 7482 HLT /AUTO INDEX ERROR  /AUTO INDEX TEST 57 1622 7288 CLA 1621 7482 HLT /AUTO INDEX ERROR  /AUTO INDEX TEST 57 1623 1836 TAD K8 /CONSTANT TO BE INDEXED 1624 3814 DCA 14 1625 8414 AND I 14 /DO AUTO INDEX 1626 1914 TAD 14 /DO AUTO INDEX 1637 7848 SZA /AC SHOULD BE ZERD 1638 7840 CMA /AC SHOULD BE ZERD 1639 7840 CMA /AC SHOULD BE ZERD 1631 7448 SZA /AC SHOULD BE ZERD 1633 7248 CMA /AC SHOULD BE ZERD 1633 7248 CMA /AC SHOULD BE ZERD 1633 7248 CMA /AC SHOULD BE ZERD 1634 1835 TAD K7776 /CONSTANT TO BE INDEXED					INDEX	TEST 55					
1681 1821 TAD K3777 /CONSTANT TO BE INDEXED 1682 3013 DCA 13 1683 6413 AND I 13 /DO AUTO INDEX 1687 1821 TAD K3777 /AC SHOULD EQUAL 7777 1686 7848 CHA 1687 7448 SZA /AC SHOULD BE ZERO 1618 7482 HLT /AUTO INDEX ERROR  /AUTO INDEX TEST 56 1611 7288 CLA 1612 1828 TAD K7777 /CONSTANT TO BE INDEXED 1613 3013 DCA 13 /DO AUTO INDEX 1614 8413 AND I 13 /DO AUTO INDEX 1615 1813 TAD 13 1616 1828 TAD K7777 /AC SHOULD EQUAL 7777 1617 7848 CHA 1620 7448 SZA /AC SHOULD BE ZERO 1621 7482 HLT /AUTO INDEX ERROR  /AUTO INDEX TEST 57 1622 7288 CLA 1623 1836 TAD K7776 /CONSTANT TO BE INDEXED 1624 3014 DCA 14 1625 0414 AND I 14 /DO AUTO INDEX 1626 1814 TAD 14 /AC SHOULD EQUAL 7777 1637 7648 CHA 1631 7448 SZA /AC SHOULD EQUAL 7777 1637 7648 CHA 1631 7448 SZA /AC SHOULD EQUAL 7777 1637 7648 CHA 1631 7448 SZA /AC SHOULD EQUAL 7777 1637 7648 CHA 1631 7448 SZA /AC SHOULD BE ZERO 1633 7288 CHA 1634 1835 TAD K7776 /CONSTANT TO BE INDEXED		1699	7200					_			
1683 8413 AND 1 13 /DD AUTO INDEX 1684 1813 1085 1921 TAD H3777 /AC SHOULD EQUAL 7777 1686 7848 CHA 1687 7488 SZA /AC SHOULD BE ZERO 1618 7492 HLT /AUTO INDEX ERROR  /AUTO INDEX TEST 56 1611 7288 TAD X7777 /CONSTANT TO BE INDEXED 1613 8813 OCA 13 1614 8413 AND I 13 /DD AUTO INDEX 1615 1813 TAD I37 /AC SHOULD EQUAL 7777 1616 1828 TAD K7777 /AC SHOULD BE ZERO 1627 7488 SZA /AC SHOULD BE ZERO 1628 7448 SZA /AC SHOULD BE ZERO 1621 7482 HLT /AUTO INDEX ERROR  /AUTO INDEX TEST 57 1622 7280 CLA 1623 1836 TAD K8 /CONSTANT TO BE INDEXED 1624 3814 AND I 14 /DD AUTO INDEX 1625 8414 AND I 14 /DD AUTO INDEX 1626 1814 TAD I4 1627 1835 TAD K7776 /AC SHOULD BE ZERO 1638 7849 CHA 1631 7448 SZA /AC SHOULD BE ZERO 1632 7482 HLT /AD K7776 /AC SHOULD EQUAL 7777 1638 7849 CHA 1637 7848 SZA /AC SHOULD BE ZERO 1637 7848 SZA /AC SHOULD BE ZERO 1638 7849 CHA 1631 7448 SZA /AC SHOULD BE ZERO 1633 7288 HLT /AD K7776 /AC SHOULD BE ZERO 1633 7288 HLT /AUTO INDEX ERROR		1681	1021					/CONST	ANT TO BE INDEX	ED	
1684 1913 TAD 13777									To INDEV		
1685   1981								/DO AU	10 TUREY		
CHA   SPA   CHA   SPA   CHA   SPA   CHA   SPA   CHA   CAN			1913					AC SH	GUID FOUAL 7777	•	
1687 7448						NO///		774 0	TOOLS TOOLS		
AUTO INDEX   AUTO INDEX ERROR							/AC SH	HOULD BE	ZERO		
1611 7288 1612 1028 TAD K7777 /CONSTANT TO BE INDEXED 1613 3013 DCA 13 1614 6413 AND I 13 /DO AUTO INDEX 1615 1013 TAD K7777 /AC SHOULD EQUAL 7777 1617 7048 SZA /AC SHOULD BE ZERO 1621 7402 HLT /AUTO INDEX ERROR  /AUTO INDEX TEST 57 1622 7200 CLA 1623 1036 TAD KØ /CONSTANT TO BE INDEXED 1624 3014 DCA 14 1625 0414 AND I 14 /DO AUTO INDEX 1626 1014 TAD K7776 /AC SHOULD EQUAL 7777 1630 7040 CMA 1631 7440 SZA /AC SHOULD EQUAL 7777 1630 7040 CMA 1631 7440 SZA /AC SHOULD EQUAL 7777 1630 7040 CMA 1631 7440 SZA /AC SHOULD BE ZERO 1632 7402 HLT /AUTO INDEX ERROR							AUTO	INDEX ER	ROR		
1612 1828 TAD K7777				/AUTO	INDEX	TEST 56					
1613 3013 DCA 13 1614 8413 AND I 13											
1614 8413 AND I 13 /DO AUTO INDEX 1615 1813 TAD 13 1616 1828 TAD K7777 /AC SHOULD EQUAL 7777 1617 7048 CMA 1628 7448 SZA /AC SHOULD BE ZERO 1621 7402 HLT /AUTO INDEX ERROR  /AUTO INDEX TEST 57 1622 7200								/CONS	ANT TO BE INDEX	R.U	
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1616 1828 TAD K7777 /AC SHOULD EQUAL 7777 1617 7040 CMA 1620 7440 SZA /AC SHOULD BE ZERO 1621 7402 HLT /AUTO INDEX ERROR  /AUTO INDEX TEST 57 1622 7200 CLA 1623 1836 TAD KØ /CONSTANT TO BE INDEXED 1624 3014 DCA 14 1625 0414 AND I 14 /DO AUTO INDEX 1626 1814 TAD 14 1627 1835 TAD K7776 /AC SHOULD EQUAL 7777 1630 7040 CMA 1631 7040 SZA /AC SHOULD BE ZERO 1632 7482 HLT /AUTO INDEX ERROR  /AUTO INDEX TEST 58 1633 7208 CLA 1634 1835 TAD K7776 /CONSTANT TO BE INDEXED								,00 X0	10 1105		
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1628											
/AUTO INDEX TEST 57  1622 7200											
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1622 7200 CLA 1623 1036 TAD KØ /CONSTANT TO BE INDEXED 1624 3014 DCA 14 1625 0414 AND I 14 /DO AUTO INDEX 1626 1014 TAD 14 1627 1035 TAD K7776 /AC SHOULD EQUAL 7777 1630 7040 CMA 1631 7440 SZA /AC SHOULD BE ZERO 1632 7402 HLT /AUTO INDEX ERROR  /AUTO INDEX TEST 58 1633 7200 CLA 1634 1035 TAD K7776 /CONSTANT TO BE INDEXED				/AUTO	INDEX	TEST 57					
1623 1036 TAD KØ /CONSTANT TO BE INDEXED 1624 3014 DCA 14 1625 0414 AND I 14 /DO AUTO INDEX 1626 1014 TAD 14 1627 1035 TAD K7776 /AC SHOULD EQUAL 7777 1630 7040 CMA 1631 7440 SZA /AC SHOULD BE ZERO 1632 7402 HLT /AUTO INDEX ERROR  /AUTO INDEX TEST 58 1633 7200 CLA 1634 1035 TAD K7776 /CONSTANT TO BE INDEXED		1622	7200	· ·			_				
1625 Ø414 AND I 14 /DO AUTO INDEX 1626 1Ø14 TAD 14 1627 1Ø35 TAD K7776 /AC SHOULD EQUAL 7777 163Ø 7Ø4Ø CMA 1631 744Ø SZA /AC SHOULD BE ZERO 1632 74Ø2 HLT /AUTO INDEX ERROR  /AUTO INDEX TEST 58 1633 72ØØ CLA 1634 1Ø35 TAD K7776 /CONSTANT TO BE INDEXED							/CONST	FANT TO B	E INDEXED		
1626 1014 TAD 14 1627 1035 TAD K7776 /AC SHOULD EQUAL 7777 1630 7040 CMA 1631 7440 SZA /AC SHOULD BE ZERO 1632 7402 HLT /AUTO INDEX ERROR  /AUTO INDEX TEST 58 1633 7200 CLA 1634 1035 TAD K7776 /CONSTANT TO BE INDEXED								<b>(50</b> Al)	TA THATY		
1627 1035 TAD K7776 /AC SHOULD EQUAL 7777 1630 7040 CMA 1631 7440 SZA /AC SHOULD BE ZERO 1632 7402 HLT /AUTO INDEX ERROR  /AUTO INDEX TEST 58 1633 7200 CLA 1634 1035 TAD K7776 /CONSTANT TO BE INDEXED								/DO AU	IN INDEX		
1630 7040 CMA 1631 7440 SZA /AC SHOULD BE ZERO 1632 7402 HLT /AUTO INDEX ERROR  /AUTO INDEX TEST 58 1633 7200 CLA 1634 1035 TAD K7776 /CONSTANT TO BE INDEXED								/AC SH	INIU D FOULL 7777	•	
1631 7440 SZA /AC SHOULD BE ZERO 1632 7402 HLT /AUTO INDEX ERROR  /AUTO INDEX TEST 58  1633 7200 CLA 1634 1035 TAD K7776 /CONSTANT TO BE INDEXED						41110		/AU 311	LAPP PRAME 1111		
1632 7402 HLT /AUTO INDEX ERROR  /AUTO INDEX TEST 58  1633 7200 CLA 1634 1035 TAD K7776 /CONSTANT TO BE INDEXED							/AC SH	HOULD BE	ZERO		
1633 7200 CLA 1634 1035 TAD K7776 /CONSTANT TO BE INDEXED		1632		,							
1633 7200 CLA 1634 1035 TAD K7776 /CONSTANT TO BE INDEXED				ZALITO	INNEY	TEST 58					
1634 1035 TAD K7776 /CONSTANT TO BE INDEXED		1673	7200	, 2010							
					TAD	K7776		/CONST	ANT TO BE INDEX	(ED	
			_								

/P(	ZE INSTRU	CTION	TEST 2 MAINDE	C-8E-D <b>Ø</b> 9B	PAL1Ø	<i>(</i> 1	10-JUN-71	9149	PAGE 1-21
	1636	0414	AND	1 14		ZDO AUT	TO INDEX		
	1637	1014		14			•		
	1640	1036		KØ	/AC SHO	ULD FOUA	AL 7777		
	1641	7040	CMA				-		
	1642	7440	SZA		ZAC SHO	ULD BE 2	EFRO		
		7482	HLT			NDEX ERF			
	1644	7200	/AUTO INDEX						
	1645	1034		K7775		/CONSTA	ANT TO BE INDE	XED	
	1646	3014		14					
	1647	3414		1 14		/DO AU1	TO INDEX		
	1650	1014		14			•		
	1651	1051		K0001		JAC SHO	OULD EQUAL 777	7	
	1652	7040	CMA			•			
	1653	7440	ASS		/AC SHO	UID RE 2	2FRO		
	1654	7482	HLT		/AUTO I				
			AUTO INDEX	TEST 60					
	1655	7200	CLA			400NOT	TA DE 1186	VER	
	1656	1033		K7773		CUNSTA	ANT TO BE INDE	. X & U	
	1657	3014	DÇA			400 4117	to tuncy		
	1660	1414		I 14		AND YOU	TO INDEX		
	1661	7200	CLA						
	1662	1814		14					
	1663	1847		KØØØ3		/AC SHU	DULD EQUAL 777	7	
	1664	7848	CMA			= ==			
	1665	7440	SZA		/AC SHO				
	1666	7492	HLT		/AUTO I	NDEX EN	KOR		
	4.49	*204	AUTO INDEX						
	1667	7200	CLA	47747		400NCT4		VED	
	1679	1032		K7767		/ CUNS I	ANT TO BE INDE	. KEU	
	1671	3014		14		400 4117	to tupev		
	1672	0414		1 14		AND YOU	TO INDEX		
	1673	1014	TAD			446 646	D POUAL #75		
	1674	1046		K0007		/AG SHO	DULD EQUAL 777	· /	
		7949	CMA		440 0110		7-54		
	1676	7440	SEA		/AC SHO				
	1677	7492	HLT		/AUTO I	NDEX ERF	NUN		
	1780	7200	/AUTO INDEX						
	1781	1031		K7757		/CONSTA	ANT TO BE INC	PYFO	
		3014		14		7 0 4 14 5 1 7	-11. 10 DK 1145		
	1702			1 14		/D0 A117	TO INDEX		
	1703	0414 1014		14		700 KO	O THOU		
	1704			K0017		AND CHO	OULD EQUAL 777	7	
*	1705	1045				749 311	-OLO CHOME ///	,	
	1706	7040	CMA		/AC 6H0	יווו ח פר פ	3con		
	1707	7440	SZA			ULD BE &			
	1710	7482	HLT		7 40 (0 1	NDEX ERF	אטי		
	1711	7200	ZAUTO INDEX						

/PDP-8/E	INSTRUC	TION	TEST 2	MAINDE	C-8E-0088	PAL10	V141	10-JUN-71	9:49	PAGE	1-22
		1027			K7737		/CONSTA	NT TO BE IND	EXED		
	1713			DCA							
		0414			I 14		ADO AO	O INDEX			
		1014		TAD			44.0 000				
		1044			KØØ37		JAC SHU	OULD EQUAL 77	11		
		7848		CMA			5 5= 7				
		7440		SZA		/AC SHO					
	1721	7482		нцт		/AUTO I	NOEX EKK	OR			
		<b>#</b> 266	/AUTO		TEST 64						
		7200		CLA	レサムサフ		ACONCTA	NT TO BE IND	EVEN		
		1026			K7677		/ CONS I A	MI TO BE THE	EXEU		
		3014		DCA			ADD AUT	O INDEX			
		8414			1 14		/00 A01	O THREY			
		1814			14		446 640	D COLLAI - 77	77		
		1043			KØØ77	•	/AC 300	OULD EQUAL 77	,,		
		7040		CMA		440 04	AUL 8 85	7500			
		7448		SZA		/AC SH					
	1732	7402		HLT		NAULU I	NDEX ERR	· UK			
			/AUTO		TEST 65		,				
		7200		CLA							
		1825			K7577		/CONS (A	INT TO BE IND	EXEU		
		3014		DCA							
		8414			1 14		VDO AUT	O INDEX			
		1014			14						
		1042			KØ177		/AC SHU	OULD EQUAL 77	7/		
		7040		CMA							
		7448		SZA		/AC SHO					
	1743	7402		HLT		AUTO I	NDEX ERR	IOR .			
					44						
	_		ZAUTO		TEST 66						
		7200		CLA			400MCTA		CVEN		
		1024			K7377		/CONS I A	INT TO BE IND	FYER		
		3014		DCA			400 4117	TO THREY			
		0414			I 14		ADD MOI	O INDEX			
		1014		TAD	14		448 CUO	100 D COULT 77	77		
		1041			KØ377		/AU 380	DULD EQUAL 77	• •		
		7040		CMA		/AC 640	0 0 7 3	tran			
		7440		SZA		/AC SHO					
	1754	7482		HLT		74010 1	NDEX ERF	·UK			
			/AUT	INDEX	TEST 67						
		7200		CLA							
	1756	1023			K6777		/CONSTA	ANT TO BE IND	EXEO		
		3014		DCA				ta tubey			
		0414			I 14		/00 AU1	TO INDEX			
		1014		TAD							
		1040			KØ777		/AC SHO	OULD EQUAL 77	11		
		7040		CMA							
		7440		SZA			ULD BE				
	1765	7402		HLT		/AUTO I	NDEX ERF	ROR			

/AUTO INDEX TEST 68

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/PDN	J∕E INSTR	UCTION	TEST 2 MAINDEC-8E-DØBB	PAL10 01-	1 10-JUN-71	9:49	PAGE 1-23
	1766	7200	CLA				
	1767	1022	TAD K5777	/00	NSTANT TO BE INDEXE	'n	
	1770		DCA 14	, , ,	TOTAL	.0	
	1771		ISZ I 14	/00	AUTO INDEX		
	1772		NOP	,	No.0		
	1773		TAD 14				
	1774	1037	TAD K1777	/AC	SHOULD EQUAL 7777		
	1775		CMA				
	1776		SZA	/AC SHOULD E	3E ZERO		
	1777	7402	HLT	/AUTO INDEX	ERROR		
		2000	*0866				
		2000	*2000				
	2000	7200	AUTO INDEX TEST 69				
	2001		CLA	400		_	
	2002		TAD K3777 DCA 14	/COM	NSTANT TO BE INDEXE	D	
	2063	0414	AND I 14	400	AUTO THREY		
	2004	1014	TAD 14	700	AUTO INDEX		
	2005		TAD K3777	/10	CHOILD COLLA BARR		
	2006	7040	CMA	7,80	SHOULD EQUAL 7777		
	2007	7410	SKP				
	2010	9999	Ø				
	2011	7448	SZA	/AC SHOULD B	F ZEBN		
	2012	7402	HLT	/AUTO INDEX			
			JAUTO INDEX TEST 78				
	2013	7288	CLA				
	2014	1020	TAD K7777	/ÇON	STANT TO BE INDEXE	D	
	2015	3014	DCA 14			_	
	2016	8414	AND I 14	/00	AUTO INDEX		
	2017	1014	TAD 14		·		
	2828	1020	TAD K7777	/AÇ	SHOULD EQUAL 7777		
	2021 2022	7040 7440	CMA		_		
	2023	7402	SZA	/AC SHOULD B			
	2020	1465	HLT	/AUTO INDEX	ERROR		
			/AUTO INDEX TEST 71				
	2024	7200	CLA				
	2025	1036	TAD KØ	/CONSTANT TO	BE INDEXED		
	2026	3015	DCA 15				
	2027	0415	AND I 15	/D0 /	AUTO INDEX		
	2030	1015	TAD 15				
	2031		TAD K7776	/AC :	SHOULD EQUAL 7777		
	2033	7040 7440	CMA		_		
	2034	7402	SZA	/AC SHOULD BE	E ZERO		
	2034	, 462	HLT	/AUTO INDEX	ERROR		
			/AUTO INDEX TEST 72				
	2035	7200	CLA				
	2036	1035	TAD K7776	/CONS	STANT TO BE INDEXED	)	
	2037	3015	DCA 15				
	2040	0415	AND I 15	/00 /	AUTO INDEX		
	2041	1015	TAD 15				
	2042	1829	TAD KØ	/AC SHOULD E	JUAL 7777		

/PDP-8/E	INSTR	UCTION	TEST 2	MAIND	EC-8E-DØBB	PAL10	V141	16-JUN-71	9:49	PAGE 1-24
	2043	7040		CM	Δ					
	2044	7440		S₹		/AC SHC	ULD BE	3500		
	2045			HL			NDEX ERI			
			/AUTC		X TEST 73					
	2046	7220		CL,						
	2047	1034			D K7775		/CONST	ANT TO BE INDEXE	)	
	2050	3015			A 15				-	
	2051	3415			A I 15		/00 AU	TO INDEX		
	2052	1015			15					
	2053	1051			) K0001		/AC SHO	OULD EQUAL 7777		
	2054	7040		CMA						
	2055	7440		SZ		/AC SHO	ULD BE A	ERO		
	2056	7402		HLT		/AUTO I	NDEX ERF	ROR		
		2000	/AUTO		C TEST 74					
	2057	7200		CLA						
	2060	1933			K7773		/CONSTA	NT TO BE INDEXED	1	
	2061	3015			15					
	2862	1415			I 15		/DO AUT	O INDEX		
	2063	7266		CLA						
	2064 2065	1015			15					
	2066	7046			K0003		/AC SHO	ULD EQUAL 7777		
	2067	7440		CMA						
	2078	7482		SZA		/AC SHOU	ILD BE Z	ERO		
				HLT		/AUTO I	IDEX ENH	OR		
			JAUTO	INDEX	TEST 75					
	2071	7200		CLA	•					
	2072	1032		TAD	K7767		/CONSTA	NT TO BE INDEXED		
	2073	3015		DÇA				DE INGERES		
	2874	8415			I 15		/DO AUT	O INDEX		
	2075	1015		TAD						
		1846			K0007		/AC SHO	ULD EQUAL 7777		
	2077	7040		CMA						
	2188	7449		SZA		/AC SHOU	LD BE ZI	ERO .		
	2181	7402		HLT		/AUTO IN	DEX ERR	OR		
			/AUTO	INDEX	TEST 76					
	2182	7200		CLA	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					
	2183	1031			K7757		/CONSTA	NT TO BE INDEXED		
;	2104	3015		DÇA				AL TO DE THREXED		
	2105				Ī 15		/DO AUTO	n INDEX		
	2106			TAD						
		1045		TAD	K0017		/AC SHOL	JLD EQUAL 7777		
		7040		CMA			•			
		7440		SZA		/AC SHOU				
ĭ	2112	7402		HLT		/AUTO IN	DEX ERRO	R		
			/AUTO	INDEX	TEST 77					
	2113		2	CLA	_ , , ,					
		1027			K7737		CONSTAN	TO BE INDEXED		
		3015		DCA	15	,		TO TE AMMENEU		
. 2	2116	0415		AND	I 15	,	DO AUTO	INDEX		

,_			750F 0							
/ Ł	INSTR	UCTION	IEST 2	MAINDE	C-8E-D088	PAL10	V141	10-JUN-71	9:49	PAGE 1-25
	2117	1015		TAD	15					
		1044			KØØ37		/AC 64	OULD EQUAL 777	•	
	2121			CMA			/ NO 311	OULD EGUAL ///	<i>'</i>	
	2122			SZA		/AC 6H/	) D DE	3500		
		7482		HLT			DULD BE			
	-1			n L		/AUTU	INDEX ER	RUR		
			/AUT		TEST 78					
	2124			CLA						
	2125				K7677		/CONST	ANT TO BE INDEX	(ED	
	2126				15					
	2127				I 15		/DO AU	TO INDEX		
	2130	1015		TAD						
	2131	1043			K0077		/AC SH	OULD EQUAL 7777	•	
	2132	7040		CMA						
	2133	7440		SZA		/AC SHO	ULD BE	ZERO		
	2134	7402		HLT		/AUTO I	NOEX ER	₹0 <b>₽</b>		
			/AUT	O INDEX	TEST 79					
	2135	7200		CLA						
	2136	1025			K7577		/CONST	ANT TO BE INDEX	<b>F</b> 0	
	2137	3015		DÇA			/00/43 / /	THE IN DE THUEN	EU	
	2140	8415			Î 15			/DO AUTO INDE	·	
	2141	1015		TAD				AND MAIN THRE	•^	
	2142	1942			KØ177		ZAC SHO	ULD EQUAL 7777		
	2143	7949		CMA			• • • • • • • • • • • • • • • • • • • •	- CEO CEONE ////		
	2144	7448		SZA		/AC SHO	ULD BE 2	FRO		
	2145	7402		HLT			NDEX ERR			
			ALITE	TAREV	TEST 80					
	2146	7200	7,401,	CLA	1631 00					
	2147	1024			K7377		/CONOTA	NO TO BE		
	2150	3015		DÇA			/ CUNS I A	NT TO BE INDEX	€D	
	2151	8415			I 15		ZOO AUT	O INDEX		
	2152	1015		TAD			/D0 X01	OTHREY		
	2153	1041			KØ377		/AC SHO	ULD EQUAL 7777		
	2154	7040		CMA			749 5110	OFD EMONE \\\\	;	
	2155	7440		SZA		ZAC SHO	ULD BE 2	500		
	2156	7402		HLT			NOEX ERR			
			/ A 117 A	THERV	TECT 44		_			
	2157	7200	ZAUID		TEST 81					
	2160	1023		CLA	44787			_		
	2161	3015			K6777		/CONSTA	NT TO BE INDEX	ED	
	2162	0415		DCA			456			
	2163	1015			I 15		/DO AUT	O INDEX		
	2164	1040		TAD	19 KØ777		448 600	B PAH		
	2165	7040			N#///		AU SHU	ULD EQUAL 7777		
	2166	7440		CMA SZA		/AC 600.	U D D= 7			
	2167	7402		HLT		AUTO T	JLD BE Z	LRU Or		
	2170	7000		NOP		/ NO 10 11	NDEX ERR	UK		
	2171	7000		NOP						
	2172	5376		JMP	. + 4					
	2173	7000		NOP	• • •					
	2174	7000		NOP						
	· ·	-								

/PDP-8/E	INSTR	UCTION	TEST 2	MAIND	EC-8E-DØBB	PAL10	V141	10-JUN-71	9149	PAGE	1-26
	2175	7000		NO	9						
	2176	7000		NO							
	2177	7000		NO							
	,	,		140							
		0000									
4		2260	*2200								
	2066	#06a	ZAUTO		CTEST 82						
	2200	7200		CL/							
	2201	1022			K5777		/CONSTA	NT TO BE INDEX	ED		
	2202	3015			15						
	2283	2415 7000		-	I 15		/DO AUT	O INDEX			
	22 <b>0</b> 4 22 <b>0</b> 5			NOF							
	2206	1015 1037			15						
	2207	7049			K1777		/AC SHO	OULD EQUAL 7777			
	2210	7448		CMA							
	2211	7482		SZA		/AU SHO	ULD BE Z	ERO			
	++	, , , , ,		HLT		AUTO 1	NDEX ERR	OR			
			/AUTO	INDEX	TEST 83						
	2212	7200		CLA							
	2213	1021		TAD	K3777		/CONSTA	NT TO BE INDEXE	'n		
	2214	3815		DCA	15			WI IN OF THREE			
	2215	0415		AND	I 15		/00 AUT	O INDEX			
	2216	1815			15						
	2217	1021			K3777		/AC SHO	ULD EQUAL 7777			
	2228	7040		CMA							
	2221	7448		SZA		/AC SHO	ULD BE Z	ERO			
	2222	7402		HLT		/AUTO I	NOEX ERR	OR			
			/AUTO	INDEX	TEST 84						
	2223	7200		CLA							
	2224	1020			K7777		/CONSTAI	NT TO BE INDEXE	n		
	2225	3015		DCA	15				_		
	2226	8415		AND	! 15		/DO AUTO	O INDEX			
	2227	1015		TAD							
	2230	1020			K7777		/AC SHOU	ULD EQUAL 7777			
	2231	7040		CMA							
	2232	7449		SZA		/AC SHOU	ILD BE ZE	ERO			
	2233	7402		HLT		/AUTO IN	IDEX ERR	DR			
			/AUTO	INDEX	TEST 85						
	2234	7200		CLA							
	2235	1036		TAD	KØ	/CONSTAN	T TO BE	INDEVED			
	2236	3016		DCA		, 44,401,41	11 10 00	INDEVED			
	2237	8416			Ī 16		/DO AUTO	INDEX .			
		1016		TAD			, a a no l				
		1035			K7776		/AC SHOL	JLD EQUAL 7777			
		7040		CMA							
		7440		SZA		/AC SHOU	LD BE ZE	RO			
	2244	7402		HLT		/AUTO IN					
			/Alito	INDEV	TEST 86						
	2245	7200	, 40,0	CLA	1231 00						
		1035			K7776		CONSTAN	TO BE INDEXE	1		
					<del>.</del>		, 55,45141	THE TO BE THEFTEL	,		

3/E	INSTR	UCTION	TEST 2	MAIND	EC-8E-DØBB	PAL10	V.41	10-JUN-71	9149	PAGE	1-27
	2247	3016		pc	A 16						
	2250	8416			D I 16		400 414	To INDEV			
	2251				0 16		700 AU	TO INDEX			
	2252		•		D KØ	446 044	O				
	2253					/AC SH	OUTD EGO	AL 7777			
	2254			CM.			_				
	2255				<u> </u>	/AC SH	OULD BE	ZERO			
	6633	/ 462		HĽ.	Į	/AUTO	INDEX ER	ROR			
			/AUT	1 INDE	X TEST 87						
	2256	7200	, ,,,,,	CLA							
	2257				K7775		40011-				
	2260	-					CONST	ANT TO BE INDEX	(ED		
	2261				16						
	2262			UU	1 16		/D0 A	JTO INDEX			
	2263				16						
	2264	7040			K0001		/AC SHO	OULD EQUAL 7777	•		
				CMA							
		7440		SZA		/AC SHO	DULD BE 2	ERO			
	2266	7482		HLT	•	/AUTO 1	NDEX ERF	ROR			
			ANITO		7565 00						
	2267	7200	7 40 10		TEST 88						
	2270	1033		CLA							
	2271	3016			K7773		/CONSTA	NT TO BE INDEX	ED		
	2272	1416			16						
	2273	7200			I 16		/DO AUT	O INDEX			
		1016		CLA							
	2275	1047			16						
	2276	7040			K0003		/AC SHO	ULD EQUAL 7777			
		7440		CMA		_					
	2300	7482		SZA		/AC SHO	ULD BE ₹	ERO			
	2000	7402		HLT		/AUTO I	NDEX ERR	OR			
			/AUTO	INDEX	TEST 89						
	2381	7280	, ,,,,,,	CLA	1201 09						
	2382	1032			K7767		40011074				•
	2303	3916		DÇA			CONSTA	NT TO BE INDEX	ED		
	2384	0416			Î 16						
	2385	1016		TAD			/DO AUT	O INDEX			
	23#6	1046			KØØØ7						
	2307	7040				44.5 0110	/AC SHU	ULD EQUAL 7777			
	2310	7440		CMA		/AC SHO	ULD BE Z	ERO			
	2311	7482		SZA		/AUTO I	NDEX ERR	OR			
				HLT							
			/AUTO	INDEX	TEST 90						
	2312	7200		CLA							
	2313	1031			K7757		CONSTAN	NT TO BE INDEXE	'n		
	2314	3016		DCA			10042 I VI	AL IN DE TUNEXE	.υ		
	2315	9416			Î 16		400 AUT-	LUNEY			
	2316	1016		TAD			/DO AUTO	1 INDEX			
	2317	1045			K0017		/AC 680:	U.D. FAUL:			
		7040		CMA			\wn 240[	JLD EQUAL 7777			
	2321	7440		SZA		VAC SHOT	u n n= 3-	• • • •			
		7402		HLT		/AC SHOU	INCY CODA	. RU			
		_		* 1 Sap 1		, 4010 TV	IDEA ERRO	ıĸ			
			/AUTO	INDEX	TEST 91						
				-	. =						

/PDP-8/E	INSTR	UCTION	TEST 2	MAINDE	C-8E-008B	PAL10	V141	18-JUN-71	9149	PAGE 1-28
	2323	7228		C1 A						
	2324	1027		CLA	K7737		ACONCT!	NE TO DE INSENTO		
	2325				16		/ CUNS I	INT TO BE INDEXED		
	2326	£416			I 16		(00 4115	to tupev		
	2327						/DU AUI	O INDEX		
	2330	1044			16					
	2331	7040			KØØ37		/AC SHU	OULD EQUAL 7777		
		7442		CMA		446 6016				
	2332			SZA		/AC SHO	OFD RE \$	ERO		
	2333	7422		HLT		/AUTO I	NOEX ERM	OR		
			/AUTO	INDEX	TEST 92					
	2334	7200		CLA	-					
	2335	1026			K7677		CONSTA	NT TO BE INDEXED		
	2336	3016			16		, 00,13	IN TO DE TROERED		
	2337	0416			Î 16		ZOO AUT	O INDEX		
	2340	1016		TAD			, 50 40.	OTHER		
	2341	1043			KØØ77		ZAC SH	OULD EQUAL 7777		
	2342	7040		CMA			7 7 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	SOCE EGONE ////		
	2343	7448		SZA		/AC SHO	n nc 3	EBO.		
		7482		HLT		/AUTO I				
	2041	,		HE 1		74010 1	MARY SAU	UK		
			/AUTO	INDEX	TEST 93					
	2345	7289		CLA						
•	2346	1925			K7577		/CONSTA	NT TO BE INDEXED		
	2347	3816		DCA			70011317	HI IO OF THREYED		
	2350	8416			Ī 16		/DO AUT	O INDEX		
	2351	1016		TAD			, 00 XQ.	0 14052		
	2352	1042			KØ177		ZAC SHO	ULD EQUAL 7777		
	2353	7848		CMA			7 40 5,10	OCD EWORL ////		
	2354	7440		SZA		/AC SHO	III D DE 3	CB0		
	2355			HLT		/AUTO I				
				.,,				ON .		
			4.1150	• • • • • • • • • • • • • • • • • • • •						
			ZAUTO		TEST 94					
	2356	7288		CLA						
	2357	1024			K7377		/CONSTA	NT TO BE INDEXED		
	2360	3016		DCA						
	2361	0416			1 16		/DO AUT	O INDEX		
	2362	1916		TAD	10					
	2363	1041			KØ377		/AC SHO	ULD EQUAL 7777		
	2364	7848		CMA						
	2365	7440		SZA		/AC SHOL				
	2366	7402		HLT		VAUTO I	NDEX ERR	OR .		
			/AUTO	INDEX	TEST 95					
	2367	7200	, 40,0	CLA	1201 77					
	2370	1023			K6777		/CONSTA	NT TO BE INDEXED		
	2371	3016		DCA			, CONSTA	AL TO BE THREXEN		
	2372	Ø416			I 16		/DO AUTO	n INDEY		
	2373	1016		TAD			, DU AUI	A TMMEY		
	2374	1040			KØ777		AAC SHOL	11 D COULT 7777		
	2375	7040		CMA	11-27-7-7		, AC 3HU	JLD EQUAL 7777		
	2376	7440		SZA		/AC 940	OULD BE a	ZEDA		
	2377	7482		HLT			NDEX ERR			
				·		יון טוט זיי	וטבא בתתן	J. T.		

PAUSE

		/TEST	2 - 1	APE 3	
		,		, , ,	
	2400	+2400			
		/AUTO		TEST 96	
2400	7200		CLA	K5777	CONSTANT TO BE INDEXED
2401	1022		DCA		ACOMP INM I TO BE IMPERED
2402	3016 2416		_	I 16	JOO AUTO INDEX
24#3 24#4	7000		NOP	, 10	Figure 10 and 10
2485	1916		TAD	16	
2496	1037			K1777	/AC SHOULD EQUAL 7777
2487	7040		CMA		
2410	7440		SZA		/AC SHOULD BE ZERO
2411	7402		HLT		/AUTO INDEX ERROR
	-000	/AUTO		TEST 97	
2412	7200		CLA	K3777	CONSTANT TO BE INDEXED
2413 2414	1021 3016		DCA		And the Lange Titalian
2415	9416		_ +	Î 16	/DO AUTO INDEX
2416	1016		TAD		
2417	1021		TAD	K3777	/AC SHOULD EQUAL 7777
2420	7040		CMA		
2421	7440		SZA		/AC SHOULD BE ZERO
2422	7482		HLT		/AUTO INDEX ERROR
		/AUTO	INDEX	TEST 98	
2423	7200		CLA	•	
2424	1020			K7777	CONSTANT TO BE INDEXED
2425	3016		DCA		AR AUTA THREY
2426	0416			1 16	/DO AUTO INDEX
2427	1016		TAD		/AC SHOULD EQUAL 7777
2430	1929			K7777	AC SHOULD EMONE ////
2431	7040		CMA		/AC SHOULD BE ZERO
2432 2433	744Ø 7402		SZA HLT		AUTO INDEX ERROR
2430	/ 462		n L		
		/AUTO	INDEX	TEST 99	
2434	7200		CLA		
2435	1936		TAD		CONSTANT TO BE INDEXED
2436	3017		DCA		ARG AUTO THREY
2437	0417	•	AND		/DO AUTO INDEX
2440	1017		TAD	1/	/AC SHOULD EQUAL 7777
2441	1035			K7776	AND SHOULD EGOVE 1///
2442	7040		CMA		/AC SHOULD BE ZERO
2443	744Ø 7402		SZA HLT		/AUTO INDEX ERROR
2444	1782		WP.		CHEIR FIERN FILLER

/PDP-8/E	INSTRU	CTION	TEST 2	MAINDE	C-8E-DØBB	PAL10	V141	16-JUN-71	9:49	PAGE	1-36
			/AUT	INDEX	TEST 100						
	2445	7200		CLA							
		1035			K7776		/CONST	ANT TO BE INDE	KED		
		3017			17						
	2450	0417			I 17		/DO AU	TO INDEX			
	2451	1017			17						
		1036			KØ	/AC SHO	OULD EOU	AL 7777			
		7440		CMA		440 01	10111 8 55	7-04			
	2455			SZA HLT			HOULD BE				
				m <b>5</b> , 1		74010	INDEX EN	nuk			
			/AUTO	INDEX	TEST 101						
	2456	7200		CLA							
	2457	1034			K7775		/CONST	ANT TO BE INDEX	ED		
		3017			17						
		3417			1_17		/DO AU	TO INDEX			
		1017 1051		TAD				<b>3 5. 5.11</b> 5.5	_		
		7848			K0001		ZAG SH	OULD EQUAL 7777			
		7440		CMA SZA		/AC SHO	D Dr	7500			
		7482		HLT		/AUTO I					
			ALITO		TEST 182	_	_				
	2467	7200	74010	CLA	1631 182						
		1033			K7773		/CONST	ANT TO BE INDEX	En		
		3017		DÇA			, 00,13	HI TO DE THOEX	EU		
		1417			Ī 17		/DO AL	JTO INDEX			
		7200		CLA	•						
		1017		TAD	17						
	2475	1847			K0003		/AC SHO	OULD EQUAL 7777			
		7848		CMA			_	_			
		7440 7402		SZA		/AC SHO					
	2580	/ 742		HLT		AUTO 1	NOEX ERF	COR			
			/AUTO	INDEX	TEST 103						
	25@1	7200		CLA							
		1032			K7767		/CONSTA	NT TO BE INDEX	ED		
		3017		DÇA							
		8417			I_17		/DO AUT	O INDEX			
		1017		TAD							
		1046			KØØØ7		/AC SHO	ULD EQUAL 7777			
		7040		CMA		446 000					
	2510 2511	7492		SZA HLT		/AU SHU	ULD BE 2	ERU			
	2711			ng i		74010 1	MUEN EKN	TUR			
	2512	7200	/AUTO	INDEX	TEST 104						
	2513	1031			K7757			CONSTANT TO	BE INDEXE	)	
	2514	3017		DCA				. vene man re	:405766	•	
		0417			I_17		/DO AUT	O INDEX			
		1017		TAD							
		1045			K0017		/AC SHO	ULD EQUAL 7777			
		7040 7440		CMA		44.0	<b>.</b>				
	2521	שרדי		SZA		/AC SHOU	)ľΩ BE ₹	ERU			

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J/E INSTRUCTION TEST 2 MAINDEC-8E-DØBB
                                           PAL10
                                                   V--1
                                                           10-JUN-71
                                                                          9:49
     2522 7482
                           HLT
                                           /AUTO INDEX ERROR
                   JAUTO INDEX TEST 105
     2523 7200
                           CLA
     2524 1027
                           TAD K7737
                                                  /CONSTANT TO BE INDEXED
     2525 3017
                           DCA 17
     2526 Ø417
                           AND I 17
                                                  /DO AUTO INDEX
     2527 1917
                           TAD 17
     2530 1044
                           TAD KØØ37
                                                   /AC SHOULD EQUAL 7777
     2531 7040
                           CMA
     2532 7440
                                           /AC SHOULD BE ZERO
                           SZA
     2533 7402
                           HLT
                                           /AUTO INDEX ERROR
                   /AUTO INDEX TEST 106
     2534 7200
                           CLA
     2535 1026
                           TAD K7677
                                                  /CONSTANT TO BE INDEXED
     2536 3017
                           DCA 17
     2537 8417
                           AND I 17
                                                  /DO AUTO INDEX
     2540 1017
                           TAD 17
     2541 1943
                           TAD KØØ77
                                                  /AC SHOULD EQUAL 7777
     2542 7848
                           CMA
     2543 7448
                           SZA
                                           /AC SHOULD BE ZERO
     2544 7482
                           HLT
                                          /AUTO INDEX ERROR
                   /AUTO INDEX TEST 107
    2545 7280
                           CLA
    2546
          1025
                          TAD K7577
                                                  /CONSTANT TO BE INDEXED
    2547 3017
                          DCA 17
    2550 9417
                          AND 1 17
                                                  /DO AUTO INDEX
    2551 1817
                          TAD 17
    2552 1942
                          TAD KØ177
                                                  /AC SHOULD EQUAL 7777
    2553 7848
                           CMA
    2554 7440
                          SEA
                                          /AC SHOULD BE ZERO
    2555 7402
                          HLT
                                          /AUTO INDEX ERROR
                  /AUTO INDEX TEST 108
    2556 7200
                          CLA
    2557
          1024
                          TAD K7377
                                                  /CONSTANT TO BE INDEXED
    2560 3017
                          DCA 17
    2561 Ø417
                                                  "/DO AUTO INDEX
                          AND I 17
    2562 1817
                          TAD 17
    2563 1041
                          TAD KØ377
                                                  /AC SHOULD EQUAL 7777
    2564 7040
                          CMA
    2565 7440
                          SZA
                                          /AC SHOULD BE ZERO
    2566 7402
                                          /AUTO INDEX ERROR
                          HLT
                  /AUTO INDEX TEST 109
    2567 7200
                          CLA
    2570 1023
                          TAD K6777
                                                 /CONSTANT TO BE INDEXED
    2571 3017
                          DCA 17
    2572 Ø417
                          AND 1 17
                                                  /DO AUTO INNEX
    2573 1017
                          TAD 17
```

TAD KØ777

/AC SHOULD EQUAL 7777

2574 1040

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/PDP-8/E	INSTRUC	TION	TEST 2	MAINDE	-8E+DØB8	PAL10	V141	10-JUN-71	9;49	PAGE 1-32
		7040		CMA				3580		
		7440		SZA		AC SHO				
•	2577	7402		HLT		/AUTO	INDEX FR	INUK		
		2600	*2600							
			/AUTO	INDEX	TEST 110					
		7288		CLA	v8777		/CONST	TANT TO BE INDE	XED	
		1022		DCA	K5777		,00115.			
		3017			1 17		/00 AL	JTO INDEX		
		7000		NOP	•					
		1017		TAD	17				_	
		1037			K1777		/AC SH	HOULD EQUAL 777	7	
		7848		CMA				7-00		
		7440		SZA		/AC SH	OULD BE	IERU Boo		
	2611	7402		HLT		/AUTO	INDEX E	KNUK		
			/AUTO	INDEX	TEST 111					
	2612	7200	• •	CLA					WP6	
	2613				K3777		CONS	TANT TO BE INDE	XLU	
		3017		DCA	17		400 41	JTO INDEX		
	2615			AND	I_17		700 A	DIO THOEY		
		1017		TAD	17 K3777		JAC SE	HOULD EQUAL 777	7	
		1021			K3///		, KG 5.	TOUGH COUNTY IVE	•	
		7848		CMA SZA		/AC SH	OULD BE	ZERO		
		7482		HLT		AUTO	INDEX EF	RROR		
	2022	,,,,,	ANITO	-	TEST 112					
	0407	7200	74010	CLA	1201 402					
		1828			K7777		/CONST	TANT TO BE INDE	XED	
		3017		DCA						
		0417		AND	ĩ 17		/DO AL	UTO INDEX		
	2627	1017		TAD	17 K7777		/AC SI	HOULD EQUAL 777	7	
		7848		CMA						
		7448		ASE		/AC SH	OULD BE	ZERO		
		7482		HLT		AUTO	INDEX E	RROR		
			/AUTO	INDEX	TEST 113					
	2634	5236		JMP	,+2					
	2635	7402		HLT		/JMP F				
	2636	7410		SKP		/JMP W	ORKED (	A LITTLE)		
	2637	2644		264						
	2640	1237			,-1					
	2641	3010			10		/TEET	INSTRUCTION		
	2642	5410			I 10	/ IMP 1	NDIRECT			
	2643	7402		HLT		/UNCA1	ION 261	Ø. NO INDEX		
	2644	7402		HLT		/IN DE	FER STA	TE.		

JMS .+2

TAD .-1

HLT

HLT

SKP

. - 4

CIA TAD .-2

SZA

HLT

SKP

. +4

TAD .-1

DCA 10

HLT

TAD .-1

TAD .-2

PIOTST /INTERRUPT TEST 1

JMP I .+1

HLT

SKP

. - 4

CIA

ABE

HLT

INTEST, JMS I .+1 STR

SPF

TSF

HLT

CLA

ION

NOP

HLT

, = 1

. \* 1

SZA

HLT

TAD Ø

SZA CLA

CIA TAD OUT1

HLT

QUT1.

BACK1,

DCA 2

TAD BACK1

JMS I 10

2645 4247

2646 7422

2647 7482

2659 1247

2652 2646

2653 7041

2654 1252

2655 7440

2662 3010

2663 4410

2664 7482

2666 1265

2678 2664

2673 7440

2675 3676 2676 4298

2677 4799

2780 4811

2781 6848

2782 6841

2783 7482

2785 1313

2786 3002 2787

2712 2711

2713 2714

2714 7440

2715 7482

2716 1000

2717 7941

2720 1312

2721 7640 2722 7402

2784

2710

7200

6001

7000 2711 7402

7410

7482

7410

2664 2661 1260

7402

7410

7041

1270

7482

2651

2656

2657

2660

2665

2667

2671 2672

2674

P	AL	4	Ø	V2 4

/AUTO INDEX TEST 114 /JMS FAILED /JMS FAILED /WRONG ADDRESS STORED /DURING JMS /JMS WORKS (I GUESS) /TEST INSTRUCTION JJMS FAILED /JMS FAILED /WRONG ADDRESS STORED DURING JMS /GO TO PROCESSOR TOT TESTS /SET PRINTER FLAG /SPF OR TSF FAILED /FLAG IS ON /GO TO LOC ØØØØ /NO INTERRUPT /RETURN FROM LOC 1 /AC SHOULD BE 0 /CONFIDENCE CHECK

/INTERRUPT ERROR

/WRONG ADDRESS STORED

			_
		/INTERRUPT TEST	4057 DOINTED EL 46
2723	6040	SPF	SET PRINTER FLAG
2724	6041	TSF	SPF FAILED TO SET PRINTER FLAG
2725	7402	нцт	
2726	7200	CLA	/FLAG IS ON
2727	1335	TAD BACK	3
2730	3002	DCA 2	
2731	6001	10N	_
2732	1020	TAD K777	
2733	7402	HLT	/NO INTERRUPT
2734	2733	OUT3,1	
2735	2736	BACK3, .+1	
2736	7040	CMA	RETURN FROM LOC1
2737	7440	SZA	
2740	7402	HLT	/CONFIDENCE CHECK
			/AC SHOULD BE Ø
2741	1000	TAD Ø	
2742	7841	CIA	
2743	1334	TAD OUTS	
2744	7640	SZA CLA	/INTERRUPT ERROR
2745	7402	HĽT	/WRONG ADDRESS STORED
	. –	_	
		/INTERRUPT TEST	
2746	6040	SPF	/SET PRINTER FLAG
2747	6041	TSF	
2750	7402	HLT	SPF FAILED TO SET PRINTER FLAG
2751	7200	CLA	/FLAG IS ON
2752	1361	TAD BACK	2
2753	3002	DCA 2	
2754	1020	TAD K777	7
2755	6001	ION	
2756	9929	AND K777	7
2757	7482	HLT	/NO INTERRUPT
2760	2757	OUT2,1	
2761	2762	BACK2, .+1	
2762	7949	CMA	/RETURN FROM LOC1
2763	7440	SZA	
2764	7402	HLT	/CONFIDENCE CHECK /AC SHOULD BE &
2765	1000	TAD Ø	
2766	7041	CIÁ	
2767	1360	TAD OUT2	
2770	7640	SZA CLA	
2771	7402	HLT	/INTERRUPT ERROR
2//1	, , , , ,		/WRONG ADDRESS STORED
2772	5773	JM₽ I .+	
2773	3000	3000	-
2//3	G = = D	0.5-5	
	3000	<b>*3000</b>	
		/INTERRUPT TEST	
3000	6040	SPF	SET PRINTER FLAG
3001	6041	TSF	

(					
/PDP~u/E	INSTRU	JCTION	TEST 2 M	AINDEC-8E-DØBB	PAL10 V1=1 10-JUN-71 9:49 PAGE 1-35
	3002	7482		HLT	/SPF FAILED TO SET PRINTER FLAG
	3003	7200		CLA	/FLAG IS ON
	3004	1213		TAD BACK4	THE IS ON
	3005	3002		DCA 2	
	3006	1020		TAD K7777	
	3007	6021		ION	
	3010	3023		DCA 3	
	3611	7482		HLT	/NO INTERRUPT
	3012	3011	OUT4,	. =1	· · · · · · · · · · · · · · · · · · ·
	3013	3014	BACK4,	.+1	
	3014	7440		SZA	/RETURN FROM LOC1
	3015	7482		HLT	/CONFIDENCE CHECK
					/AC SHOULD BE ZERO
	3016	1023		TAD 3	
	3017	7040		CMA	
	3020	7440		SZA	
	3021	7482		нцт	/DCA PRIOR TO INTERRUPT
	7400	7007			/FAILED
	3022	3003		DCA 3	
	3023 3024	1000 7041		TAD Ø	
	3025	1212		CIA	
	3026	7648		TAD OUT4 SZA CLA	
	3027	7482		HLT	/INTERRUPT ERROR
	052.	,		76'	AND THE FRANK
			/INTERR	UPT TEST 5	/WRONG ADDRESS STORED
	3030	6040	, , , , , , , , , , , , , , , , , , , ,	SPF	SET PRINTER FLAG
	3031	6841		TSF	PORT TRANSCENS CAU
	3032	7402		HLT	SPF FAILED TO SET PRINTER FLAG
	3033	7200		CLA	/FLAG IS ON
	3034	1244		TAD BACKS	
	3035	3082		DCA 2	-1 Mil
	3036	1035		TAD K7776	
	3037	3003			
	3040	6001		DCA 3	
	3041	2003		ION	
	3042	7402		ISZ 3	AND INTERDUCT
	3043	3042	OUT5,	HLT .~1	/NO INTERRUPT
	3044	3045	BACKS,	.+1	
	3845	7440		SZA	/RETURN FROM LOC1
	3046	7402		HLT	/CONFIDENCE CHECK
				· · · •	/AC SHOULD BE ZERO
	3047	1003		TAD 3	THE SHAPE DE WENA
	3050	7940		CMA	
	3051	7440		SZA	
	3052	7402		HLT	/ISZ PRIOR TO
					/INTERRUPT FAILED
		3003		DCA 3	\$1
	3054	1000		TAD Ø	
		7041		CIA	
	3056	1243		TAD OUTS	
	3057	7640		SZA CLA	
	3060	7402		HLT	/INTERRUPT ERROR

## /WRONG ADDRESS STORED

		/INTERF	RUPT TEST 6	
3061	6040		SPF	SET PRINTER FLAG
3062	6041		TSF	
3063	7482		HLT	SPF FAILED TO SET PRINTER FLAG
3064	7200		CLA	/FLAG IS ON
3065	1276		TAD BACK6	
3066	3002		DCA 2	
3067	1020		TAD K7777	
3070	3023		DCA 3	
3071	6001		ION	
3072	2023		152 3	
3073	7402		HLT	/NO INTERRUPT
3074	7482		HLT	
3075	3074	OUT6,	1	
3076	3077	BACK6,	. +1	
3077	7440		SZA	/RETURN FROM LOC 1
3100	7482		HLT	/CONFIDENCE CHECK
				∕AC SHOULD BE ZERO
3101	1003		TAD 3	
3102	7440		SZA	_
3103	7482		HLT.	/ISZ PRIOR TO
				/INTERRUPT FAILED
3184	3003		DCA 3	
3185	1000		TAD Ø	
3106	7041		CIA	
3107	1275		TAD OUT6	
	7640		SZA CLA	
3110	-			
3111	7402		HLT	/INTERRUPT ERROR
	-			/INTERRUPT ERROR /WRONG ADDRESS STORED
	-			
	-	/INTERR		
	7402	/INTERR	HLT	
3111 3112 3113	7402 4040 6041	/INTERR	HLT UPT TEST 7	/WRONG ADDRESS STORED  /SET PRINTER FLAG
3111 3112 3113 3114	7402 4940 6941 7402	/INTERR	HLT UPT TEST 7	/WRONG ADDRESS STORED  /SET PRINTER FLAG
3111 3112 3113	7402 6040 6041 7402 7200	/INTERR	HLT UPT TEST 7 SPF TSF	/WRONG ADDRESS STORED
3111 3112 3113 3114 3115 3116	7402 6040 6041 7402 7200 1324	/INTERR	HLT UPT TEST 7 SPF TSF HLT	/WRONG ADDRESS STORED  /SET PRINTER FLAG  /SPF FAILED TO SET PRINTER FLAG
3111 3112 3113 3114 3115 3116 3117	7402 6040 6041 7402 7200 1324 3002	/INTERR	HLT  UPT TEST 7  SPF TSF HLT CLA	/WRONG ADDRESS STORED  /SET PRINTER FLAG  /SPF FAILED TO SET PRINTER FLAG
3111 3112 3113 3114 3115 3116 3117 3120	7402 6040 6041 7402 7200 1324 3002 6001	/INTERR	HLT  UPT TEST 7  SPF TSF HLT CLA TAD BACK7 DCA 2 ION	/WRONG ADDRESS STORED  /SET PRINTER FLAG  /SPF FAILED TO SET PRINTER FLAG
3111 3112 3113 3114 3115 3116 3117 3120 3121	7402 6848 6841 7482 7280 1324 3882 6881 5321	/INTERR	HLT  UPT TEST 7  SPF TSF HLT CLA TAD BACK7 DCA 2	/WRONG ADDRESS STORED  /SET PRINTER FLAG  /SPF FAILED TO SET PRINTER FLAG
3111 3112 3113 3114 3115 3116 3117 3120 3121 3122	7402 6040 6041 7402 7200 1324 3001 5321 7402		HLT  UPT TEST 7  SPF TSF HLT CLA TAD BACK7 DCA 2 ION JMP . HLT	/WRONG ADDRESS STORED  /SET PRINTER FLAG  /SPF FAILED TO SET PRINTER FLAG
3111 3112 3113 3114 3115 3116 3117 3120 3121 3122 3123	7402 6040 6041 7402 7200 1324 3002 6001 5321 7402 3121	<b>0U</b> T7,	HLT  UPT TEST 7  SPF TSF HLT CLA TAD BACK7 DCA 2 ION JMP . HLT .=2	/WRONG ADDRESS STORED  /SET PRINTER FLAG  /SPF FAILED TO SET PRINTER FLAG  /FLAG IS ON
3111 3112 3113 3114 3115 3116 3117 3120 3121 3122 3123 3124	7402 6040 6041 7402 7200 1324 3002 6001 5322 6001 5322 5322 5322 5322 5322 5322		HLT  UPT TEST 7  SPF TSF HLT CLA TAD BACK7 DCA 2 ION JMP . HLT .=2 .+1	/WRONG ADDRESS STORED  /SET PRINTER FLAG  /SPF FAILED TO SET PRINTER FLAG  /FLAG IS ON  /NO INTERRUPT
3111 3112 3113 3114 3115 3116 3117 3120 3121 3122 3123 3124 3125	7402 6040 6041 7402 7200 1324 3001 7402 53125 7440	<b>0U</b> T7,	HLT  UPT TEST 7  SPF TSF HLT CLA TAD BACK7 DCA 2 ION JMP . HLT .=2 .+1 SZA	/WRONG ADDRESS STORED  /SET PRINTER FLAG  /SPF FAILED TO SET PRINTER FLAG  /FLAG IS ON  /NO INTERRUPT  /RETURN FROM LOC 1
3111 3112 3113 3114 3115 3116 3117 3120 3121 3122 3123 3124	7402 6040 6041 7402 7200 1324 3002 6001 5322 6001 5322 5322 5322 5322 5322 5322	<b>0U</b> T7,	HLT  UPT TEST 7  SPF TSF HLT CLA TAD BACK7 DCA 2 ION JMP . HLT .=2 .+1	/WRONG ADDRESS STORED  /SET PRINTER FLAG  /SPF FAILED TO SET PRINTER FLAG  /FLAG IS ON  /NO INTERRUPT  /RETURN FROM LOC 1 /CONFIDENCE CHECK
3111 3112 3113 3114 3115 3116 3117 3121 3122 3123 3124 3125 3126	7402 4040 6041 7400 7300 6032 6032 6032 6032 7440 7402	<b>0U</b> T7,	HLT  UPT TEST 7  SPF TSF HLT CLA TAD BACK7 DCA 2 ION JMP . HLT .=2 .+1 SZA HLT	/WRONG ADDRESS STORED  /SET PRINTER FLAG  /SPF FAILED TO SET PRINTER FLAG  /FLAG IS ON  /NO INTERRUPT  /RETURN FROM LOC 1
3111 3112 3113 3114 3115 3116 3117 3121 3122 3123 3124 3125 3126	7402 4040 6041 7400 7232 6032 6032 6032 6032 7312 7402 1000	<b>0U</b> T7,	HLT  UPT TEST 7  SPF TSF HLT CLA TAD BACK7 DCA 2 ION JMP HLT2 .+1 SZA HLT	/WRONG ADDRESS STORED  /SET PRINTER FLAG  /SPF FAILED TO SET PRINTER FLAG  /FLAG IS ON  /NO INTERRUPT  /RETURN FROM LOC 1 /CONFIDENCE CHECK
3111 3112 3113 3114 3115 3116 3117 3121 3122 3123 3124 3125 3126 3127 3130	7402 40402 40412 60412 7232 6032 6032 6032 6032 7312 7402 1004 1704	<b>0U</b> T7,	HLT  UPT TEST 7  SPF TSF HLT CLA TAD BACK7 DCA 2 ION JMP HLT2 .+1 SZA HLT  TAD Ø CIA	/WRONG ADDRESS STORED  /SET PRINTER FLAG  /SPF FAILED TO SET PRINTER FLAG  /FLAG IS ON  /NO INTERRUPT  /RETURN FROM LOC 1 /CONFIDENCE CHECK
3111 3112 3113 3114 3115 3116 3117 3120 3121 3122 3123 3126 3127 3130 3131	740 4040 6040 7232 6034 2011 2021 2021 2021 2021 2021 2021 202	<b>0U</b> T7,	HLT  UPT TEST 7  SPF TSF HLT CLA TAD BACK7 DCA 2 ION JMP . HLT .=2 .+1 SZA HLT  TAD Ø CIA TAD OUT7	/WRONG ADDRESS STORED  /SET PRINTER FLAG  /SPF FAILED TO SET PRINTER FLAG  /FLAG IS ON  /NO INTERRUPT  /RETURN FROM LOC 1 /CONFIDENCE CHECK
3111 3112 3113 3114 3115 3116 3117 3121 3122 3123 3124 3125 3126 3127 3130 3131 3132	748 4841204211201502 69412221502 695721240 74540 171540	<b>0U</b> T7,	HLT  UPT TEST 7  SPF  TSF HLT CLA TAD BACK7 DCA 2 ION JMP HLT2 .+1 SZA HLT  TAD Ø CIA TAD OUT7 SZA CLA	/WRONG ADDRESS STORED  /SET PRINTER FLAG  /SPF FAILED TO SET PRINTER FLAG  /FLAG IS ON  /NO INTERRUPT  /RETURN FROM LOC 1 /CONFIDENCE CHECK /AC SHOULD BE Ø
3111 3112 3113 3114 3115 3116 3117 3120 3121 3122 3123 3126 3127 3130 3131	740 4040 6040 7232 6034 2011 2021 2021 2021 2021 2021 2021 202	<b>0U</b> T7,	HLT  UPT TEST 7  SPF TSF HLT CLA TAD BACK7 DCA 2 ION JMP . HLT .=2 .+1 SZA HLT  TAD Ø CIA TAD OUT7	/WRONG ADDRESS STORED  /SET PRINTER FLAG  /SPF FAILED TO SET PRINTER FLAG  /FLAG IS ON  /NO INTERRUPT  /RETURN FROM LOC 1 /CONFIDENCE CHECK

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J/E INSTRUCTION TEST 2 MAINDEC-8E-0888
                                          PALIS V.41
                  /INTERRUPT TEST 8
                                          /SET PRINTER FLAG
    3134 6040
                          SPF
                          TSF
    3135 6041
                                          /SPF FAILED TO SET PRINTER FLAG
    3136 7482
                          HLT
                                          /FLAG IS ON
    3137 7200
                          CLA
    3140 1346
                          TAD BACKS
    3141 3002
                          DCA 2
    3142 6021
                          ION
    3143 4023
                          JMS 3
                                         IND INTERRUPT
    3144 7482
                          HLT
    3145 3144
                  OUT8,
                          . -1
    3146 3147
                  BACK8,
                          . + 1
                                          /RETURN FROM LOC 1
    3147 7440
                          SZA
    3150 7402
                                          /CONFIDENCE CHECK
                          HLT
                                          /AC SHOULD BE ZERO
                          TAD 3
    3151 1003
    3152 7941
                          CIA
    3153 1345
                          TAD OUTS
    3154 7440
                          SZA
                                          /JMS ERROR PRIOR
    3155 7482
                          HLT
                                          /TO INTERRUPT WRONG
                                          /ADDRESS STORED
    3156 1000
                          TAD &
    3157 7041
                          CIA
                          TAD K4
    3160 1065
    3161 7640
                          SEA CLA
                                          /INTERRUPT ERROR
    3162 7402
                          HLT
                                          /WRONG ADDRESS STORED
                          JMP 1 .+1
    3163 5/64
    3164 3280
                          3200
          3200
                  -3288
                  /INTERRUPT TEST 9
    3200 6040
                          SPF
                                          /SET PRINTER FLAG
    3201 6041
                          TSF
                                          SPF FAILED TO SET PRINTER FLAG
    3282 7482
                          HLT
    3203 7200
                          CLA
                                          /FLAG IS ON
    3284 1213
                          TAD BACK9
    3205 3002
                          DCA 2
    3206 1020
                          TAD K7777
          6001
    3297
                          ION
    3210
         7200
                          CLA
                                          /NO INTERRUPT
    3211 7402
                          HLT
    3212 3211
                  DUT9.
                          . -1
    3213 3214
                  BACK9,
                          . +1
                                          /RETURN FROM LOC 1
    3214 7440
                          SZA
                                          /CLA PRIOR TO INTERRUPT
    3215 7402
                          HLT
                                          /FAILED
    3216 1000
                          TAD Ø
    3217 7041
                          CIA
    3220 1212
                          TAD DUT9
```

SZA CLA

/PDP-8/E	INSTRU	JCTICN	TEST 2 MA	INDEC-8E-DØBB	PAL10	V141	10-JUN-71	9:49	PAGE	1-38
	3222	7482		HLT		RUPT FAIR				
			/INTERR	UPT TEST 10						
	3223	6040	, , <u>,</u>	SPF	JSET PR	RINTER FI	1.00			
	3224	6041		TSF	, , , , , , ,	11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	LAG			
	3225	7482		HLT	/SPF FA	TIED TO	SET PRINTER F	LAC		
	3226	7200		CLA	/FLAG I	SON	SET FATHIER F	LAG		
	3227	1236		TAD BACK10	,, -	0.0				
	3230	3002		DCA 2						
	3231	6001		ION						
	3232	6041		TSF						
	3233	7402		HLT	/NO INT	ERRUPT				
	3234	7482		HLT						
	3235	3234	0UT10,	1						
	3236	3237	BACK10,							
	3237	7440	- · · · · · · · · · · · · · · · · · · ·	SZĀ	/RETURN	FROM LO	OC 1			
	3240	7402		HLT	/CONF I D	ENCE CHE	CK			
	3241	1000		TAD Ø	, ,, ,		- LIVO			
	3242	7041		CIA						
	3243	1235		TAD OUT10						
	3244	7640		SZA CLA						
	3245	7482		HLT	/INTERR	UPT ERRO Address	R Stored			
			/INTERRU	PT TEST 11	•					
	3246	6040		SPF	/SET PR	INTER FL	AG			
	3247	6041		TSF						
	3250	7482		HLT	/SPF FA	ILED TO	SET PRINTER FL	.AG		
	3251 3252	7288		CLA	/FLAG I	SON				
	3253	1311		TAD BACK11						
	3254	6001		DCA 2						
	3255	6002		ION IOF						
	3256	6001		ION						
	3257	6002		IOF						
	3260	6001		ION						
	3261	6002		IOF						
	3262	6001		ION						
	3263	6002		IOF						
	3264	6001		ION						
	3265	6002		IOF						
	3266	6001		ION						
	3267	6002		IOF						
	327Ø 3271	6001 6002		ION						
	3271	6001		IOF						
	3273	6002		ION IOF						
	3274	6001		ION						
	3275	6002		10F						
	3276	6001		ION						
	3277	6002		IOF						
				-						

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/PD/	J/E	INSTRU	CTION	TEST 2 MA	INDEC-8E-DØBB	PAL10	V 1	10-JUN-71	9:49	PAGE 1-39
		3300	6001		ION					
		3301	6002		IOF					
		3302	6001		ION					
		3303	6002		IOF					
		3304	6021		ION					
		3305	6002		IOF					
		33ø6	6041		TSF					
		3387	7402		HLT	/WHAT !	HAPPENED	TO MY FLAG		
		3310	7410		SKP					
		3311	3313	BACK11,	,+2					
		3312	7410		SKP					
		3313	7402		HLT	/INTERI	RUPT OCCL	JRRED DURING		
							OF SEQUEN			
						ISEE L	CATION R	8686		
				/INTERRU	JPT TEST 12	_	_			
		3314	6842		TCF	/CLEAR	FLAG			
		3315	7200		CLA					
		3316	1326		TAD BACK12					
		3317	3002		DCA 2					
		3329	6001		ION					
		3321	7899		NOP					
		3322	7900		NOP					
		3323	7000		NOP					
		3324	7000		NOP					
		3325	7410		SKP					
		3326	<b>3</b> 33Ø	BACK12.	, +2					
		3327	7410		SKP					
		3330	7492		HLT	/INTER	RUPT WITH	1 NO		
		3331	4002		10F	/				
				/INTERRU	JPT TEST 13					
		3332	6848		SPF					
		3333	6841		TSF					
		3334	7402		HLT	/SPF F	AILED TO	SET PRINTER	FLAG.	
		3335	7200		CLA					
		3336	1345		TAD BAC13					
		3337	3002		DCA 2					
		3348	6001		ION					
		3341	7410		SKP					
		3342	7402		HLT					
		3343	7402		HLT	\NO IN.	TERRUPT			
		3344	3343	OUTT13,						
		3345	3346	BAC13,	.+1					
		3346	7440		SZA					
		3347	7402		HLT					
		3350	1000		TAD Ø					
		3351	7041		CIA					
		3352	1344		TAD OUTT13					
		3353	7640		SZA CLA					
		3354	7482		HLT	/INTER	RUPT ERRO	DR '		
							ADDRESS			

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```
/INTERRUPT TEST 14
3355 6040
                      SPF
3356 6041
                      TSF
3357 7482
                      HLT
                                      /SPF FAILED TO SET PRINTER FLAG
3360 7200
                      CLA
3361 1370
                      TAD BAC14
3362 3002
                      DCA 2
3363 6001
                      ION
3364 5/65
                      JMP I .+1
3365 3366
                       . +1
3366 7402
                                      /NO INTERRUPT
                       HLT
3367 3366
              OUTT14, .=1
3370 3371
              BAC14.
                      .+1
3371 7440
                      SZA
3372 7402
                      HLT
3373 1000
                      TAD Ø
3374 7041
                      CIA
3375 1367
                      TAD OUTT14
3376 7640
                      SZA CLA
3377 7402
                                       /INTERRUPT ERROR
                      HLT
                                       /WRONG ADDRESS STORED
              /INTERRUPT TEST 15.
      6007
                                       /CLEAR THE WORLD
3490
                      CAF
3481 1212
                                       /GET RETURN INTERRUPT ADDRESS
                      TAD BAC15
                                      /STORE IT IN ADDRESS 2
3402 3002
                      DCA 2
3483 6881
                                       /INTERRUPT ON
                      ION
3484 7888
                      NOP
3405 6007
                                      /CLEAR THE WORLD
                      CAF
3406 6040
                      SPF
                                       /SET PAINTER FLAG.
3487 6080
                      SKON
3410 3213
                      JMP .+3
                                      /CAF FAILED TO CLEAR ION
3411 7482
                      HLT
              BAC15,
3412 3411
                      ,-1
                                       /CLEAR FOR EXIT.
3413 6887
                      CAF
                      JMP I
                              . +1
3414 5615
3415 3600
                      IAIT1
      3600
                      PAGE
              /ILLEGAL AUTO INDEX TEST1
3600 7200
              IAIT1, CLA
3601
      5602
                      JMP I .+1
      4000
3602
                      AND1
3603 4010
              K4010,
                      4010
      4000
              *4000
                                              /TEST INSTRUCTION
              AND1,
                      AND I 4010
      0610
4000
      5602
                      JMP I .+1
4001
4002 3604
                      RET1
      3604
              *K4010+1
              RET1,
                      TAD I K4010
3604 1623
3605 7440
                      SZA
```

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JE INSTRUCTION TEST 2 MAINDEC-8E-DØBB PAL10 VIL
                                                        10-JUN-71
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                                                                                PAGE 1-41
    3606 7402
                          HLT
                                       /ERROR. AC SHOULD BE ZERO
                                        /AND I 4010 ALTERED (4010)
    3607 7200
                          CLA
     3610 3603
                          DCA I K4010
                  /ILLEGAL AUTO INDEX TEST 2
    3611 7200
                          CLA
    3612 5613
                          JMP I .+1
    3613 2173
                          AND2
    3614 2010
                  K2010, 2010
          2173
                  *2173
    2173 0610
                  AND2.
                          AND I 2010
                                              /TEST INSTRUCTION
    2174 5775
                          JMP I .+1
    2175 3615
                          RET2
          3615
                  *K2010+1
    3615 1614
                  RET2, TAD I K2010
    3616 7440
                         SZA
    3617 7482
                         HLT
                                        /ERROR. AC SHOULD BE ZERO
                                        /AND I 2018 ALTERED (2018)
    3620 5621
                         JMP I .+1
    3621 3622
                         AITST3
                  /ILLEGAL AUTO INDEX TEST 3
    3622 7200
                  AITST3, CLA
    3623 5624
                         JMP I .+1
    3624 1173
                         AND3
    3625 1010
                  K1010, 1010
          1173
                  +1173
    1173 8618
                  AND3,
                         AND 1 1010
                                              /TEST INSTRUCTION
    1174 5775
                         JMP I .+1
    1175 3626
                         RET3
          3626
                  #K1818+1
    3626 1625
                 RET3,
                        TAD I K1010
    3627 7440
                         SZA
    3630 7402
                         HLT
                                       /ERROR. AC SHOULD BE ZERO
                                        /AND I 1010 ALTERED (1010)
    3631 7200
                         CLA
    3632 3625
                         DCA I K1016
                 /ILLEGAL AUTO INDEX TEST 4
    3633 7200
                         CLA
    3634 5635
                         JMP I .+1
    3635 Ø574
                         AND4
    3636 0410
                 K410,
                         410
         0574
                 =574
```

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/PDP-8/E INSTRUCTION TEST 2 MAINDEC-8E-DØBB
                                             PAL10 V141
                                                               10-JUN-71
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                                                                                      PAGE 1-42
         0574 0610
                        AND4.
                               AND I 410
                                                       /TEST INSTRUCTION
         0575 5776
                               JMP I .+1
         Ø576 3637
                               RET4
               3637
                       *K410+1
         3637 1636
                       RET4.
                               TAD I K410
         3640 7440
                               SZA
         3641 7422
                               HLT
                                               /ERROR. AC SHOULD BE ZERO
                                               /AND I 410 ALTERED (410)
         3642 7200
                               CLA
         3643 3636
                               DCA I K410
                       /ILLEGAL AUTO INDEX TEST 5
         3644 7200
                               CLA
         3645 5646
                               JMP I .+1
         3646 #372
                               AND5
         3647 8219
                       K210,
                               210
               8371
                       *371
         6371 5375
                               JMP .+4
         Ø372 Ø61Ø
                       AND5,
                               AND I 218
                                                      /TEST INSTRUCTION
         8373 5774
                               JMP I .+1
         8374 3658
                               RET5
               3659
                       *K218+1
         3650 1647
                       RETS,
                              TAD I K218
         3651 7448
                               SZA
         3652 7482
                               HLT
                                              /ERROR. AC SHOULD BE ZERO
                                              /AND I 218 ALTERED (218)
         3653 7289
                              CLA
         3654 3647
                              DCA I K210
                      /ILLEGAL AUTO INDEX TEST 6
        3655 7200
                              CLA
        3656 $657
                              JMP I .-1
        3657 0130
                              AND6
        3660 0110
                      K118,
                              110
                      *138
              0130
        0130 0510
                      AND6.
                              AND I 110
                                                      /TEST INSTRUCTION
        0131 5532
                              JMP I .+1
        Ø132 3661
                              RET6
              3661
                      *K110+1
        3661 1660
                      RET6,
                              TAD I K110
        3662 7440
                              SZA
        3663 7402
                              HLT
                                              /ERROR. AC SHOULD BE ZERO
                                              /AND I 110 ALTERED (110)
        3664 7200
                              CLA
```

DCA 110

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JE INSTRUCTION TEST 2 MAINDEC-8E-DØBB PAL10 V141
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```
/ILLEGAL AUTO INDEX TEST 7
  3666 7200
                        CLA
  3667 5670
                        JMP I .+1
  3670 0124
                       AND7
  3671 0050
                K50,
                       50
       £124
                =124
 8124 8458
                AND7,
                       AND I 50
                                               /TEST INSTRUCTION
 9125 5526
                       JMP I .+1
 0126 3672
                       RET7
       3672
               #K5Ø+1
 3672 1671
               RET7,
                       TAD I K50
 3673 7440
                       SZA
 3674 7482
                       HLT
                                      /ERROR. AC SHOULD BE ZERO
                                       /AND I 50 ALTERED (50)
 3675 7200
                       CLA
 3676 3858
                       DCA 50
               /ILLEGAL AUTO INDEX TEST 8
 3677 7200
                       CLA
 3788 5781
                       JMP I .+1
 3791 9129
                       ANDS
 3702 0030
               K30,
                       30
      8128
               -120
8128 8438
               AND8,
                       AND I 30
                                             /TEST INSTRUCTION
8121 5522
                       JMP I .+1
Ø122 3703
                       RETS
      3703
              *K36+1
3783 1782
              RETB,
                      TAD I K3Ø
3784 7448
                      SZA
3785 7482
                      HLT
                                      VERROR. AC SHOULD BE ZERD
                                      /AND I 30 ALTERED (30)
3786 7200
                      CLA
3707 3030
                      DCA 30
              /ILLEGAL AUTO INDEX TEST 9
3710 7200
                      CLA
3711 3000
                      DCA Ø
3712 5713
                      JMP I .+1
3713 8874
              IAITS9, AND9
      0074
              #74
0074 0480
              AND9,
                     AND I Ø
                                     /TEST INSTRUCTION
0075 5476
```

JMP I .+1

RET9

0076 3714

```
/PDP-8/E INSTRUCTION TEST 2 MAINDEC-8E-DØBB PAL1Ø V141
                                                              10-JUN-71
                                                                             9149
                                                                                     PAGE 1-44
               3714
                       #IAITS9+1
         3714 1436
                       RET9, TAD I KØ
         3715 7440
                               SZA
         3716 7482
                                               /ERROR. AC SHOULD BE ZERO
                               HLT
                                               /AND I Ø ALTERED (Ø)
         3717 7200
                               CLA
         3720 3000
                               DCA Ø
                       /ILLEGAL AUTO INDEX TEST 10
         3721 7200
                               CLA
         3722 5723
                               JMP I .+1
         3723 0070
                       IAIT10, AND10
               0070
                       #70
         5078 9487
                       AND10,
                              AND I 7
                                              /TEST INSTRUCTION
         6671 5472
                               JMP I .+1
         0072 3724
                               RET10
               3724
                       +IAIT18+1
         3724
              1446
                       RET10. TAD I KØØØ7
         3725 7440
                              SZA
         3726 7402
                               HLT
                                              /ERROR. AC SHOULD BE ZERO
                                              /AND I 7 ALTERED (7)
         3727 7200
                              CLA
         3739 3087
                              DCA 7
                       /CHECK FOR TTY BELL
         3731 1347
                              TAD BLCNT
         3732 7001
                              IAC
         3733 3347
                              DCA BLCNT
         3734 1347
                              TAD BLCNT
         3735 1350
                              TAD RNGCNT
         3736 7640
                              SZA CLA
         3737 5746
                              JMP 1 K208
         3740 3347
                              DCA BLCNT
         3741 1351
                              TAD BELCOD
         3742 6046
                              TLS
         3743 6941
                              TSF
         3744 5343
                              JMP .-1
         3745 5746
                              JMP I .+1
         3746 8288
                       K200.
                              200
         3747 0000
                       BLCNT,
         3750 4762
                       RNGCNT, -3016
         3751 0207
                       BELCOD, 207
               4010
                       44010
         4010 0000
                              2
         4011
              0000
                       STR.
                              0
         4012 1220
                              TAD JMPIX
```

DCA 1

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/PD _/E INSTRUCTION TEST 2 MAINDEC-8E+DØBB
                                                PAL10
                                                        V1-1
                                                                10-JUN-71
                                                                                 9149
                                                                                        PAGE 1-45
          4014 3002
                                DCA 2
          4015 3003
                                DCA 3
          4016 2211
                                ISE STR
          4017 5611
                                JMP I STR
          4020 5402
                        JMPIX, 5402
                        /PROCESSOR IOT TEST
                4220
                                PAGE
          4200 7300
                        PIOTST, CLA CLL
          4201 4602
                                JMS I ,+1
          4202 4011
                                STR
                        /PROCESSOR IOT TEST 1
          4283 7360
                                CLA CMA CLL CML
          4284 6007
                                CAF
                                                        /CLEAR ALL FLAGS, AC, AND LINK
          4205 7410
                                SKP
          4286 7482
                                HLT
                                                        /CAF SHOULD NOT SKIP
          4287 7420
                                SNL
         4218 7449
                                SZA
         4211 7402 - 5203
                                HLT
                                                       /CAF FAILED, AC AND LINK SHOULD BE ZERO
                      JMP
                       /PROCESSOR IOT TEST 2
         4212 6040
                               SPF
                                                       /SET PRINTER FLAG
         4213 7410
                               SKP
         4214 7402
                               HLT
                                                       /SPF SHOULD NOT SKIP
         4215 6841
                               TSF
         4216 7482
                               HLT
                                                       /SPF OR TSF FAILED
         4217 6887
                               CAF
                                                       /CLEAR ALL FLAGS, AC, AND LINK
         4220 6041
                               TSF
         4221 7410
                               SKP
         4222 7482
                               HLT
                                                       /CAF FAILED, TTY FLAG SHOULD BE CLEAR
         4223 6003
                               SRQ
                                                       /SKIP IF INTERRUPT REQUEST
         4224 7410
                               SKP
         4225 7402
                                                       /SRQ FAILED OR SPURIOUS INTERRUPT OCCURED
                               HLT
                       /PROCESSOR IOT TEST 3
         4226 6007
                               CAF
                                                       /CLEAR ALL FLAGS, AC, LINK, AND ENABLE TTY INTERRUPT
         4227 6848
                               SPF
                                                       YSET PRINTER FLAG
         4230 6003
                               SRQ
                                                       /SKIP IF INTERRUPT REQUEST
         4231 7482
                               HLT
                                                       /SRQ FAILED OR CAF FAILED TO ENABLE TTY INTERRUPT
                       /PROCESSOR IOT TEST 4
         4232 6007
                               CAF
                                                       /CLEAR ALL FLAGS, AC, AND LINK
         4233 6035
                               KIE
                                                       /DISABLE TTY INTERRUPT, (AC 11 EQUALS ZERO)
         4234 7410
                               SKP
         4235 7402
                               HLT
                                                       /KIE SHOULD NOT SKIP
         4236 6040
                               SPF
                                                       /SET PRINTER FLAG
         4237 6841
                               TSF
         4240 7402
                               HLT
                                                       /SPF OR TSF FAILED
         4241 6003
                               SRQ
                                                       /SKIP IF INTERRUPT REQUEST
         4242 7410
                               SKP
         4243 7402
                               HLT
                                                       /KIE FAILED TO DISABLE TTY INTERRUPT OR SRO FAILED
```

		PROCESSOR TOT TEST 5	
4244	7281	CLA IAC	
	6035	KIE	/ENABLE TTY INTERRUPT (AC11 IS SET)
4245	6040	SPF	SET PRINTER FLAG
4246		TSF	
4247	6041		/SPF OR TSF FAILED
4250	7482	HLT	SKIP IF INTERRUPT REQUEST
4251	6003	SRQ	THE FAILED TO ENABLE TTY INTERRUPT OR SRO FAILED
4252	7482	HLT	ANTE ANTEED TO PRADER THE IMPERIOR OF OUR ANTEED
		/PROCESSOR IOT TEST 6	
4253	6027	CAF	/CLEAR ALL FLAGS, AC, AND LINK
4254	1267	TAD BACK13	
4255	3002	DCA 2	
4256	6001	ION	/TURN INTERRUPT ON
4257	7410	SKP	
4260	7402	HLT	/ION SHOULD NOT SKIP
4261	6000	SKON	/SKIP IF INTERRUPT ON AND TURN INTERRUPT OFF
4262	7402	HLT	/SKON FAILED TO SKIP OR ION FAILED
4263	6000	SKON	SKIP IF INTERRUPT ON AND TURN INTERRUPT OFF
4264	7418	SKP	
4265	7482	HLT	/SKON FAILED
4266	5271	JMP .+3	
	4270	BACK13, ,+1	
		HLT	/ILLEGAL INTERRUPT OCCURRED
4270	7462	76'	, tage of the manner of the ma
		/PROCESSOR LOT TEST 7	
4271	6027	CAF	/CLEAR ALL FLAGS. AC. AND LINK
4272	1384	TAD BACK14	
4273	3082	DCA 2	
4274	6881	10N	/TURN INTERRUPT ON
4275	6982	10F	/TURN INTERRUPT OFF
4276	7418	SKP	
4277	7482	HLT	/IOF SHOULD NOT BKIP
4368	6000	SKON	SKIP IF INTERRUPT ON AND TURN INTERRUPT OFF
4301	7410	SKP	
4302	7402	HLT	/IOF FAILED
4303	5386	JMP .+3	
4384	4305	BACK14, .+1	
	7482	HLT	/ILLEGAL INTERRUPT OCCURED
4305	7402	<b>₽₩</b> '	, and a second second
		/PROCESSOR_IOT_TEST &	AND TAR ALL TIACE ARE AND LINE
4306	6007	CAF	/CLEAR ALL FLAGS, AC, AND LINK
4387	7040	CMA	ACT INTERDURT CLASS
4310	6004	GTF	/GET INTERRUPT FLAGS
4311	7410	SKP	AND ALLOW A MAN BUILD
4312	7402	HLT	/GTF SHOULD NOT SKIP
4313	0064	AND K5200	/MASK
4314	7440	SZA	
4315	7402	HLT	/GTF FAILED. (AC SHOULD EQUAL 8000)
		/PROCESSOR LOT TEST 9	CORT I THE AND AC
4316	7360	CLA CMA CLL CML	SET LINK AND AC
4317	6004	GTF	/GET INTERRUPT FLAGS, (AC SHOULD EQUAL 4000)

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_/E INSTRUCTION TEST 2 MAINDEC-8E-DØBB
                                                 PAL1Ø
                                                         V141
                                                                 10-JUN-71
                                                                                 9149
                                                                                         PAGE 1-47
          4320 7420
                                SNL
          4321 7402
                                HLT
                                                         /LINK SHOULD BE 1
          4322 0064
                                AND K5200
                                                         /MASK
          4323 7124
                                CLL RAL
                                                         /AC SHOULD EQUAL ZERO
          4324 7430
                                SŽL
          4325 7440
                                SZA
          4326 7482
                                HLT
                                                         /GTF FAILED
                        /PROCESSOR IOT TEST 10
          4327
                6007
                                CAF
                                                        /CLEAR ALL FLAGS, (AC, LINK, AND ENABLE TTY INTERRUPT
          4330
                6040
                                SPF
                                                         /SET PRINTER FLAG
          4331 6004
                                GTF
                                                        /GET INTERRUPT FLAGS, (AC SHOULD EQUAL 1000)
          4332
                0064
                                AND K5200
                                                         /MASK
          4333 7026
                                RTL
                                                        /PUT INTERRUPT BUS- (AC SHOULD EQUAL 4000)
          4334
               7004
                                RAL
                                                        /FLAG INTO LINK, (AC SHOULD EQUAL ZERO)
          4335
               7430
                                SZL
          4336 7440
                                SZA
          4337 7482
                                HLT
                                                        /GTF FAILED TO GET INTERRUPT BUS FLAG
                        /PROCESSOR IOT TEST 11
          4340
               6007
                                CAF
                                                        /CLEAR ALL FLAGS
          4341 1356
                                TAD
                                        BACK15
         4342 3002
                                DCA
                                        2
         4343
               6001
                                ION
                                                        /TURN INTERRUPT ON
         4344
               6004
                                GTF
                                                        /GET INTERRUPT FLAGS, (AC SHOULD EQUAL 0200)
         4345
               0064
                                AND K5200
                                                        /MASK
         4346
               6000
                                SKON
                                                        /SKIP IF INTERRUPT ON AND TURN INTERRUPT OFF
         4347
               7482
                                HLT
                                                        /GTF CLEARED INTERRUPT (ION)
         4350
              7102
                                CLL BSW
                                                        /PUT INTERRUPT BUS-
                                                                             (AC SHOULD EQUAL 0002)
         4351
              7012
                                RTR
                                                        /FLAG INTO LINK, (AC SHOULD EQUAL ZERO)
         4352
               7430
                                SZL
         4353
              7440
                                SZA
         4354
              7482
5340-
                                HLT
                                                        /GTF FAILED TO GET INTERRUPT FLAG
         4355
              536g
                                JMP
                                        , +3
         4356
              4357
                        BACK15, .+1
         4357 7402
                                HLT
                                                        /ILLEGAL INTERRUPT OCCURED
                       /PROCESSOR IOT TEST 12
7402-4360 7320
                                CLA CLL CML
         4361
              1375
                                TAD
                                        BACK16
         4362 3002
                                DCA
                                        2
         4363 6005
                               RTF
                                                        /RESTORE ALL FLAGS
         4364 7410
                               SKP
         4365 7402
                               HLT
                                                        ARTE SHOULD NOT SKIP
         4366 7420
                               SNL
                                                        /LINK SHOULD BE ZERO
         4367 7440
                               SZA
                                                        /AC EQUALS ZERO
         4370 7402
                               HL.T
                                                       /RTF FAILED, LINK AND AC SHOULD BE ZERO
         4371 6000
                               SKON
                                                       /SKIP IF INTERRUPT ON AND TURN INTERRUPT OFF
         4372 7402
                               HLT
                                                       /RTF FAILED TO TURN INTERRUPT ON
         4373 5774
                               JMP I
                                        . +1
         4374 4400
                               PTST14
         4375
               4376
                       BACK16, .+1
         4376 7402
                               HLT
                                                       /ILLEGAL INTERRUPT OCCURED
               4400
                               PAGE
```

		/PROCESSOR IOT TE	ST 13
4400	6007	PTST14, CAF	
4401	1215	TAD B	BACK17
4402	3002	DCA 2	
4403	7330	CLA CLL C	ML RAR /AC EQUALS 4000
4404	6025	RTF	RESTORE ALL FLAGS
44Ø5	7420	SNL	THE TENE
4406	7402	HLT	/RTF FAILED TO RESTORE LINK
4407	6000	SKON	SKIP IF INTERRUPT ON AND TURN INTERRUPT OFF
4410	7482	HLT	ATT FAILED TO TURN INTERRUPT ON
4411	6007	CAF	CLEAR ALL FLAGS, AC, LINK, AND ENABLE TTY INTERRUPT
4412	7300	CLA CLL	THE THE PROPERTY AND ENABLE THE INTERROPT
4413	5614	JMP I .+1	/GO TO INTERRUPT TESTS
4414	2677	INTEST	700 10 14/24/00
4415	4416	BACK17, .+1	
4416	7402	HLT	/ILLEGAL INTERRUPT OCCURED

.

0000			11111111	11111111	11111111	11111111	11111100	11101110
0100	60000000	10000000	11101110	11100000	00000000	00000000	00000000	
0200	11111111	11111111	11111111	11111111	11111111	4444444		
0300	11111111		11111111	11111111	11111111	11111111	11111111	
				111111	1111111	11111111	11111111	1111111
0400	11111111	11111111	11111111	11111111	11111111	11111111	4444444	
0500	11111111	11111111	11111111	11111111	11111111	11111111	11111111	11111111
					*****	1111111	11111111	1111111
0600		11111111	11111111	11111111	11111111	11111111	14114144	
0700	11111111	11111111	11111111	11111111	11111111	11111111	11111111	11111111
						1111111	11111111	11111111
1000	11111111	11111111	11111111	11111111	11111111	11111111	11111111	11111111
1100	11111111	11111111	11111111	11111111	11111111	11111111	11111111	
4000							++1+111	1111111
1200	11111111	11111111	11111111	11111111	11111111	11111111	11111111	11111111
1300	11111111	11111111	11111111	11111111	11111111	11111111	11111111	11111111
4.488								111111
1400	11111111	11111111	11111111	11111111	11111111	11111111	11111111	11111111
1500	11111111	11111111	11111111	11111111	11111111	11111111	11111111	11111111
4 / 6 6								*******
1600	11111111	1111111	11111111	11111111	11111111	11111111	11111111	11111111
1700	11111111	1111111	11111111	11111111	11111111	11111111	11111111	11111111
								*******
2000								
	11111111	11111111	11111111	11111111	11111111	11111111	11111111	1111111
2199	11111111	11111111	11111111	11111111	11111111	11111111	11111111	11111111
2200	4444444	4444444						
2388	11111111	11111111	11111111	11111111	11111111	11111111	11111111	11111111
2300	11111111	11111111	11111111	11111111	11111111	11111111	11111111	1111111
2488	11111111	4111111	4444444					
2500	11111111	11111111	11111111	11111111	11111111	11111111	11111111	11111111
2700	11111111	11111111	11111111	11111111	11111111	11111111	11111111	1111111
2688	11111111	11111111	*****				_	
2700	11111111		11111111	11111111	11111111	11111111	11111111	11111111
2100	1111111	11111111	11111111	11111111	11111111	11111111	11111111	11110000
3000	11111111	11111111	****					
3100	11111111	11111111	11111111	11111111	11111111	11111111	11111111	11111111
41.5	********	*******	11111111	11111111	11111111	11111111	11111000	00000000
3200	11111111	11111111	11111111	4444444	4444444			
3300	11111111	11111111	11111111	11111111	11111111	1111111	11111111	1111111
<b>-</b>		*	+++++111	11111111	11111111	1111111	11111111	11111111
3400	11111111	11111100	00000000	444444	AAAAC			
3500	00000000	00000000	000000000	00000000	00000000	00000000	99999999	00000000
<del>-</del>			~ nnnnnn00	00000000	00000000	99999999	00000000	99090999
3600	11111111	1111111	11111111	1111111	14441444			
3700	11111111	11111111	11111111	11111111 111111111111111111111111111111	11111111	11111111	11111111	1111111
					11111111	11000000	00000000	<b>00</b> 0000000

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/PDP-8/E INSTRUCTION TEST 2 MAINDEC-8E-DØBB PAL1Ø V141
             10-JUN-71 9:49
4600
4700
5000
5100
5200
5300
5488
5568
5688
5788
6888
6199
6255
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/PDA _	/E INSTR	UCTION	TEST 2	MAINDEC-8	E-DØ88	PAL10	$\Delta^{p} \circ T$	10-JUN-71	9149	PAGE 1-51
	AITST3	3622		K1010	3625		OUTT14	3367		
	AND1	4000		K110	3660		PIOTST	4200		
	AND10	0070		K1111	0062		PTST14	4400		
	ANDZ	2173		K1234	0177		RET1	3604		
	AND3	1173		K172	0173		RET1Ø	3724		
	AND4	Ø574		K173	0174		RET2	3615		
	AND5	0372		K174	Ø175		RET3	3626		
	AND6	Ø13Ø		K175	0176		RET4	3637		
	AND7	0124		K176	0172		RET5	3650		
	ANDS	0120		K1777	0037		RET6	3661		
	AND9	0074		K200	3746		RET7	3672		
	BAC13	3345		K2010	3614		RET8	3703		
	BAC14	337ø		K210	3647		RET9	3714		
	BAC15	3412		K2525	0054		RNGCNT	3750		
	BACK1	2713		K30	3702		RTF	6005		
	BACK10	3236		K3777	0021		SKON	6000		
	BACK11	3311		K4	0065		SPF	6949		
	BACK12	3326		K4010	3603		SRQ	6003		
	BACK13	4267		K410	3636		STR	4011		
	BACK14	4384		K4400	Ø <b>Ø5</b> 2		TPØ	0202		
	BACK15	4356		K4444	0056		TP177	Ø377		
	BACK16	4375		K4577	0053		11 4//	D377		
	BACK17	4415		K50	3671					
	BACK2	2761		K5200	0064					
	BACK3	2735		K5252	0061					
	BACK4	3013		K5555	0063					
	BACKS	3844		K5777	0022					
	BACK6	3076		K6666	8855					
	BACK7	3124		K6777	0023			•		
	BACKS	3146		K7070	0057					
	BACKS	3213		K7377	0024					
	BELCOD	3751		K7577	0025					
	BLCNT	3747		K7677	8826					
	BSW	7002		K7737	0027					
	CAF	6007		K7757	9931					
	GTF	6004		K7767	0032					
	IAIT1	3600		K7773	0033					
	IAIT10	3723		K7775	0034					
•	IAITS9	3713		K7776	0035					
	INTEST	2677		K7777	0020					
	JMPIX	4020		KIE	6035					
	KB	0036		OUT1	2712					
	KØØ01	0051		OUT10	3235					
	K0003	0047		OUT2	2760					
	K0007	8846		0UT3	2734					
	KØØ17	0045		0UT4	3012					
	KØØ37	0044		0015	3043					
	K0077	0043		OUT6	3075	,				
	KØ177	8842		OUT7	3123					
	KØ377	0041		OUTS	3145					
	KØ7Ø7	0060		0019	3212					
	KØ777	0040		OUTT13	3344					
		-		44.194	- · ·					

9:49

ERRORS DETECTED! &

LINKS GENERATED: 8

RUN-TIME: 20 SECONDS

2K CORE USED