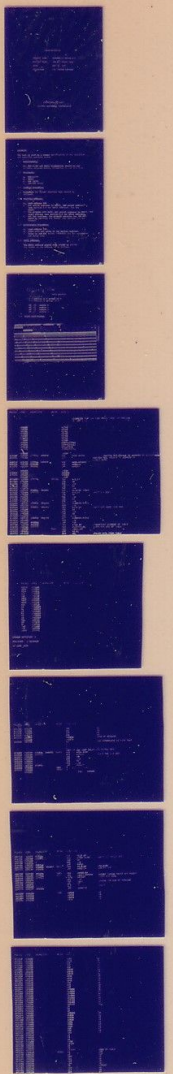


# IBM 026

IBM 026 PUNCH TEST  
MD-11-DAIBA-A

EP DAIBA A DL  
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FICHE 1 OF 1

MAY 1978  
**digital**  
MADE IN USA





# PDP11/20

IBM 026 PUNCH TEST  
MD-11-DIABA-A

EP-DIABA-A-DL  
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FICHE 1 OF 1

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MADE IN USA



IDENTIFICATION

PRODUCT CODE: MAINDEC-11-DAIRA-A-D  
PRODUCT NAME: IBM #26 PUNCH TEST  
DATE: MAY 15, 1972  
MAINTAINER: IPI CUSTOM SYSTEMS

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## ABSTRACT

The test is used as a visual verification of the character and numerical punching format.

### 1.0 Requirements:

All PDP-11/20 and UDC11 Diagnostics should be run in their entirety before attempting to run this test.

### 2.0 Equipment:

- A. PDP-11/20
- B. UDC11
- C. ASR 33/35
- D. IBM Ø26 Punch

### 3.0 Loading Procedure:

Procedure for normal absolute tape should be followed.

### 4.0 Starting Address:

- A. Load address 200
- B. Set switch register to UDC11, IBM output address (see Section 6.0 for UDC11 Address), hit key start.
- C. The program will halt. Set switch register to UDC11, IBM input address (see Section 6.0 for UDC11 Address).
- D. Hit key continue, the program executes the IBM Ø26 punch by punching the format (see Section 7.0 for format).

### 5.0 Maintenance Procedure:

- A. Load address 220.
- B. Start with all zeros in the switch register.
- C. Refer to IBM Ø26 Prints (7606262) for bit assignment and delay time.

### 6.0 UDC11 Address:

The UDC11 address starts from 171000 to 171776.  
The format of the address is as follows:





:EXERCISE FOR IBM CARD PUNCH (926) CONTROLLED  
 :BY UDC - 11

430000				HLT=0		
430000				R0=X0		
430001				R1=X1		
430002				R2=X2		
430003				R3=X3		
030004				R4=X4		
430005				R5=X5		
177566				DBRP=177566		
177564				CSRP=177564		
177570				SR=177570		
171776				UDCR=171776		
000200	000200			. =200		
000206	013737	177570	002030	MOV	00SR,00IRM	
	010000			HLT		:SWITCH REG. EQUALS TO ADDRESS OF OUTPUT .
						:SWITCH REG. EQUALS TO ADDRESS OF
000210	013737	177570	002032	MOV	00SR,00IBM1	
000216	000137	000600		JMP	00BEGIN	
000222	000137	002002		JMP	00MANT	
000234	002000			. =234		
000236	000007			002000		
	000600			000007		
				. =600		
000600	012704	177775		BEGIN:	MOV	0-3,X4
000604	005200			INC	X0	
000606	001370			BNE	.-2	
000610	005204			INC	X4	
000612	001374			BNE	.-6	
000614	012777	000031	001206	MOV	01,0IBM IFREQ	
000622	012704	177774		MOV	0-4,X4	WAIT 1.2 SEC.
000626	005200			INC	X0	
000630	001370			BNE	.-2	
000632	005204			INC	X4	
000634	001374			BNE	.-6	
000636	032777	100030	001166	BIT	0100000,0IBM1	
000644	001774			REQ	.-6	
000646	012777	000034	001154	MOV	04,0IBM	WAIT 640 MSEC. FOR REG.
000654	005200			INC	X0	
000656	001370			BNE	.-2	
000660	005200			INC	X0	
000662	001370			BNE	.-2	
000664	032777	100030	001140	BIT	0100000,0IBM1	
000672	001402			REQ	.-6	
000674	000167	000090		JMP	TYP	
000700	012705	001030		MOV	0TAB,X5	ITAB=FIRST ADDRESS OF TABLE
000704	012701	177777		MOV	0177777,X1	LOCK FOR END OF TABLE
000710	012502			MOV	(X5)-,X2	
000712	000201			CMP	X2,X1	
000714	001410			BEG	REL	IPUNCH DATA FROM TABLE

000716	01277	001126		MOV	X2,0 JM	
000722	012700	130020		MOV	#-50VJ0,X0	IMAIT 100 MILLI SEC.
000726	005200			INC	X0	
000730	001370			BNE	.-2	
000732	000137	000710		JMP	00PUN	
000736	012777	000002	001064	REL:	MOV	IRELEASE
000744	000137	000600		JMP	000EGIN	IDELAY FOR
000750	012704	001136		TYP:	MOV	
000754	012437	177566		ST:	MOV	ISTART TYPING "CARD NOT READY"
000760	100737	177564			TST0	ITEST FOR DONE
000764	100375				BPL	
000766	005714				TST	ICHECK FOR END OF MESSAGE
000770	100371				BPL	
000772	000000				HLT	
000774	000137	000600		JMP	000EGIN	IMALT
001000	040020		TAB:	40020		IA
001002	020020			20020		IB
001004	010020			10020		IC
001006	004020			0020		ID

001010	002020	2320	IE
001012	001020	1220	IF
001014	000420	420	IG
001016	000220	220	IH
001020	000120	120	II
001022	040040	40040	IJ
001024	020040	20040	IK
001026	010040	10040	IL
001030	004040	4040	IM
001032	002040	2040	IN
001034	001040	1040	IO
001036	000440	440	IP
001040	000240	240	IQ
001042	000140	140	IR
001044	120000	120000	IS
001046	110000	110000	IT
001050	104000	104000	IU
001052	102000	102000	IV
001054	101000	101000	IW
001056	100400	100400	IX
001060	100200	100200	IY
001062	100100	100100	IZ
001064	000010	10	
001066	000010	10	
001070	000010	10	
001072	100000	100000	10
001074	040000	40000	11
001076	020000	20000	12
001100	010000	10000	13
001102	004000	4000	14
001104	002000	2000	15
001106	001000	1000	16
001110	000400	400	17
001112	000200	200	18
001114	000100	100	19
001116	000010	10	
001120	000010	10	
001122	000010	10	
001124	000400	400	
001126	000200	200	
001130	000100	100	
001132	000040	40	
001134	177777	177777	END OF TABLE
001136	000015	15	ICR
001140	000012	12	ILP
001142	000103	103	IC
001144	000101	101	IA
001146	000122	122	IR
001150	000104	104	ID
001152	000040	40	ISPACE
001154	000116	116	IN
001156	000117	117	IO
001160	000124	124	IT
001162	000040	40	ISPACE
001164	000122	122	IR

MESS:



001166 000100  
001170 000101  
001172 000104  
001174 000131  
001176 100000  
002000 000000

100  
101  
104  
131  
100000  
.02000  
HLT

IE  
IA  
IO  
IY  
IEND OF MESSAGE  
INO INTERRUPTS IN THIS TEST

002002 013777 177570 000020 MANT1  
002010 012704 177774  
002014 035200  
002016 001376  
002020 035204  
002022 001374  
002024 000137 002002  
002030 000000  
002032 000000  
000001

ISSET JP ONE SHOT DELAY VIA SWITCH REG.  
MOV 00SR,0IOM  
MOV 0-4,X4  
INC X0  
BNE .-2  
INC X4  
RNE .-6  
JMP 00MANT  
R  
R

WAIT FOR 1.2 SEC.  
.END 000001

BEGIN	000600
CSHP	177564
DBPP	177566
MLT	000000
IBM	002030
IBM1	002032
MANT	002002
MESS	001136
PUN	000710
R0	000000R
R1	000001R
R2	000002R
R3	000003R
R4	000004R
R5	000005R
REL	000736
SR	177570
ST	000754
TAB	001000
TYP	000750
UDCR	171776

ERRORS DETECTED: 0

RUN-TIME: 1 SECONDS

4K CORE USED