

LENGTH OF PRG 00103

1 IDENT PUNSTART

```

2
3 *****
4 *
5 * THIS ROUTINE ALLOCATES A BLOCK OF CORE (CALLED PUNBLOC)
6 * TO BE USED AS THE DEVICE CONTROL MACRO FOR THE PUNCH
7 * WHEN INITIAL FINDS A PUN SYMBOL IN THE SYMBOL BLOCK
8 *
9 * IT ALSO PLUGS THE ENTRY IN INSTL SO THAT PUNCH INTERRUPTS
10 * CAN BE PROCESSED AND STORES THE PUNCH CONNECT CODE
11 * INTO THE PUNCH DRIVER
12 *
13 *****

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14
15 INCLUDE ↑SYSMAC
15+001 SYSMAC COSY/ 03 V4.1 08/17/74 0453

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00001
00002
00003
00000
00000

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16 X1 EQU 1
17 X2 EQU 2
18 X3 EQU 3
19 CBI EQU 0
20 IMPURE EQU 0
21
22 EXT BUILDBLK
23 EXT HARDWARE
24 EXT HOLENGTH
25 EXT INSTL
26 EXT LINKIT
27 EXT PNINT
28 EXT PUNCON
29

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00047 P
00001 P

```

```

30 ENTRY PUN.STR
31 ENTRY PUN.SUP
32
33
34

```

HTDEF

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00001
00002
00003
00004
00005
00006
00007
00010
00011
00012
00013
00014
00015
00016
00017

```

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203 *****
204 *
205 HTFILE EQU 010 FILE
206 HTLP EQU 020 LINE PRINTER
207 HTPUN EQU 030 CARD PUNCH
208 HTRC EQU 040 CARD READER
209 HTMT EQU 050 MAGNETIC TAPE
210 HITTY EQU 060 TELETYPE
211 HTPLOT EQU 070 X/Y PLOTTER
212 HTNULL EQU 100 ONLINE INCINERATOR
213 HTTV EQU 110 CRT DISPLAY
214 HTRAF EQU 120 RANDOM ACCESS FILE
215 HTTASK EQU 130 FUTURE INPUT FOR REMOTE BATCH
216 HTMSF EQU 140 USER DISKPACK
217 HTPTP EQU 150 PAPER TAPE PUNCH
218 HTMAX EQU 160 (NUMBR OF HARDWARE TYPES) + 1
219 HTMASK EQU 170 MASK FOR THE HARDWARE TYPE
220 *
221 *****

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00000	14100000		41	PUNX1	ENI	IMPURE,X1	
00001	01000000		42	PUN.SUP	UJP	IMPURE	
00002	44077777	X	43		SWA	PUNCON	SAVE THE PUNCH CONNECT CODE IN THE DRIVER
00003	12000014		44		SHA	12	
00004	53700000		45		TAI	X3	
00005	17300007		46		ANI	7B,X3	COMPUTE POSITION IN INSTL FOR INTERRUPT DECODING
00006	12000005		47		SHA	6	
00007	17600070		48		ANA	70B	
00010	53740000		49		IAI	X3	
00011	47100000	P	50		STI	PUNX1,X1	SAVE X1
00012	14177777	X	51		ENI	HDLNGTH,X1	ENTER LENGTH OF THE TABLE
00013	14600003		52		ENA	HTPUN	
00014	14700017		53		ENQ	HTMASK	
00015	13000017		54		SHAQ	15	
00016	06277777	X	55		MEQ	HARDWARE,2	LOOK FOR THIS DEVICE
00017	01000000	P	56		UJP	PUNX1	THEY DONT WANT THE PUNCH
00020	14600000		57		ENA	0	ALLOW USERS TO EQUIP THE
00021	44100016	X	58		SWA	HARDWARE,X1	DEVICE
00022	54100000	P	59		LDI	PUNX1,X1	
00023	14677777	X	60		ENA	PNINT	
00024	44377777	X	61		SHA	INSTL,X3	
00025	14200027		62		ENI	PUNPROTL-1,X2	
00026	20200053	P	63		LDA	PUNPROTO,X2	MOVE THE MACRO
00027	40100000		64		STA	0,X1	
00030	15177776		65		INI	-1,X1	
00031	02600026	P	66		IJD	-3,X2	
00032	15100001		67		INI	1,X1	
00033	53100000		68		TIA	X1	
00034	44100010		69		SWA	ENAD,X1	SET UP THE ENI PROTO,CBI
00035	44100020		70		SWA	URBEXITA,X1	
00036	15600007		71		INA	KILLFLAG	SETUP THE KILL STATUS
00037	44100007		72		SWA	KILLFLAG,X1	
00040	15400017		73		INA,S	QWORDS-KILLFLAG	SET UP THE QUEUEING POINTERS
00041	44100023		74		SWA	QPNT,X1	
00042	44100027		75		SWA	QWORDS+1,X1	
00043	00777777	X	76		RTJ	BUILDBLK	
00044	25000051	P	77		LDAQ	BCDPUN	PLUG THE CHAIN FOR THE DRIVER
00045	00777777	X	78		RTJ	LINKIT	
00046	02500001	P	79		IJD	PUN.SUP,X1	EXIT
			80				
00047	01000000		81			IMPURE	
00050	01000047	P	82	PUN.STR	UJP	PUN.STR	
			83		UJP		
00051	47644522		84				
			85	BCDPUN	BCD	2,PUNBLOC	

00053	00000000	P	87	PUNPROTO	EQU	*	
	00053	P	88		ORGR		PUNPROTO+FB
00053	00000000		89		VFD		A24/IMPURE
	00054	P	90		ORGR		PUNPROTO+BLF
00054	00000000		91		VFD		A24/IMPURE
	00055	P	92		ORGR		PUNPROTO+BFBN
00055	00000000		93		VFD		A24/IMPURE
	00056	P	94		ORGR		PUNPROTO+BFCPP
00056	00000000		95		VFD		A24/IMPURE
	00057	P	96		ORGR		PUNPROTO+CALBAK
			97		EXT		PUNCB
00057	00077777		98		VFD		A9/IMPURE,A15/PUNCB
	00060	P	99		ORGR		RETURN HERE IF QUEUED
00060	00000000		100		VFD		PUNPROTO+IMAD
	00061	P	101		ORGR		O9/000,A15/IMPURE
00061	00000050		102		VFD		PUNPROTO+LNIM
	00062	P	103		ORGR		O9/000,A15/RECSIZE
00062	47000062	P	104		STI		PUNPROTO+KILLFLAG
00063	14100053	P	105		ENI		*,0
	00064	P	106		ORGR		PUNPROTO,X1+CBI
00064	01000000		107		UJP		ENTER BLOCK ADDRESS
	00065	P	108		ORGR		PUNPROTO+NJM
00065	00000000		109		VFD		IMPURE
	00067	P	110		ORGR		PUNPROTO+ENIT
00067	00000000		111		VFD		O9/000,A15/IMPURE
	00070	P	112		ORGR		PUNPROTO+COUNT
00070	00000000		113		VFD		A24/IMPURE
	00071	P	114		ORGR		PUNPROTO+POSI
00071	00000000		115		VFD		A24/IMPURE
	00072	P	116		ORGR		PUNPROTO+PFWORD
00072	47644560		117		BCD		A6/IMPURE,O3/0,A15/IMPURE
	00073	P	118		ORGR		PUNPROTO+IDENT
00073	14100053	P	119		ENI		1,PUN
	00074	P	120		ORGR		PUNPROTO+URBEXITA
00074	01000000		121		UJP		PUNPROTO,X1+CBI
	00075	P	122		ORGR		PUNPROTO+URBEXIT
			123		EXT		IMPURE
00075	01077777	X	124		UJP		PUNPROTO+QINGLOC
	00076	P	125		ORGR		URBLOKQ
00076	00000000		126		00		URBLOKQ
	00077	P	127		ORGR		PUNPROTO+QPNT
00077	01200000		128		UJP		IMPURE
	00100	P	129		ORGR		PUNPROTO+QEMPTY
			130		EXT		O,X2
00100	01077777	X	131		UJP		PUNPROTO+STRTLOC
	00026		132		UJP		PNFILE
00101	00000000		133	QWORDS	EQU		PNFILE
00102	00000000		134		00		*-PUNPROTO
	00030		135	PUNPROTL	EQU		IMPURE
			136		END		IMPURE

NO LINES WITH ERRORS

POINTER TO NEXT FILE  
POINTER TO LAST FILE

