

LENGTH OF PRG 00265

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1          IDENT      PUNHNDLR
2          *****
3          *
4          *          THIS ROUTINE IS THE PUNCH (CDC 415) DRIVER
5          *
6          *          THIS DRIVER HAS A NUMBER OF ENTRY POINTS WHOSE PURPOSES
7          *          ARE AS FOLLOWS
8          *
9          *          PNINT      ENTERED FROM INTSORT WHENEVER THERE IS A PUNCH
10         *          INTERRUPT
11         *          PNFILE     ENTERED FROM MOVEBUFF WHENEVER A NEW PUNCH FILE
12         *          IS STARTED
13         *          PUNCB      ENTERED FROM MOVEBUFF WHENEVER A RECORD REQUEST
14         *          IS NOT IMMEDIATELY PROCESSED
15         *          PUNCON     INITIAL STORES THE PUNCH CONNECT CODE HERE
16         *
17         *          WHEN PNFILE IS ENTERED IT CHECKS TO SEE IF A BUFFER
18         *          HAS BEEN ALLOCATED. IF NOT IT CALLS GETMEM TO GET
19         *          A 128 WORD BLOCK OF STORAGE TO USE FOR BUFFERS. IF
20         *          A LARGE AMOUNT OF PUNCHING IS DONE (IE. THE PUNCH IS
21         *          BUSY 50% OR MORE OF THE TIME) THE CODE SHOULD BE CHANGED
22         *          TO USE A BUFFER ALLOCATED BY PUNSTART. WHENEVER PNINT
23         *          IS ENTERED AND THERE IS NO MORE DATA TO PUNCH IT CALLS
24         *          FREEMEM TO FREE THE 128 WORD BLOCK OF STORAGE.
25         *          THE DEVICE CONTROL MACRO (CALLED PUNBLOC) IS ALLOCATED
26         *          BY INITIAL AND PUNSTART IF A PUNCH IS PRESENT.
27         *
28         *          *****
    
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30
31
32 +001  SYSMAC      INCLUDE  ↑SYSMAC
33          COSY/    03          V4.1      08/17/74  0453
34
35          MACRO     LAB,,FUNCTION
36          NAME     ISSUE
37          $LAB     $FUNCTION
38          RTJ      SEL
39          END
40          ENTRY    PNFILE
41          ENTRY    PNINT
42          ENTRY    PUNCB
43          ENTRY    PUNCON
44          EXT     BLANKS
45          EXT     CONNECT
46          EXT     FREEMEM
47          EXT     GETMEM
48          EXT     CPMSGX
49          EXT     PUNBLOC
50          EXT     UNCON
51          EXT     URBLOK
52          EXT     URBLOKI
53          EXT     URBLOKNX
    
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ROUTINE TO CONNECT TO CONTROLLERS
 STORAGE ALLOCATION ROUTINE
 STORAGE ALLOCATION ROUTINE
 CALLED FOR MESSAGE TO OPERATOR
 ADDRESS OF PUNCH CONTROL MACRO
 ROUTINE TO RELEASE CHANNEL

00000 P
 00021 PP
 00107 PP
 00225 P

00022
 00000
 00000
 00000
 00000
 00001
 00002
 00003
 00000

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54          BINFIL   EQU      18          BINARY BIT IS BIT 18
55          IMPURE   EQU      0
56          IO       EQU      0
57          SELECT   EQU      0
58          SENSE    EQU      0
59          X1       EQU      1
60          X2       EQU      2
61          X3       EQU      3
62          CBI      EQU      0
    
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63          URBDEF
64          *
65          *          *****
66          *
67          *          URBLOCK BLOCK DEFINITIONS
68          *
69          *
70          *
71          *          FB       EQU      0          POINTER TO NEXT FILE BLOCK
72          *          BLF      EQU      FB+1        COUNT OF BLOCKS IN THIS FILE
73          *          BF8GN    EQU      BLF+1        QUARTER PAGE NUMBER OF CURRENT
74          *          *          512 WORD BLOCK
75          *          BF0PP    EQU      BF8GN+1      POINTER TO NEXT WORD TO BE
76          *          *          LOADED FROM THIS BLOCK. THIS
77          *          *          POINTER IS RELATIVE TO THE
    
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00000
 00001
 00002
 00003

00004	18	.*			BEGINNING OF THE CURRENT BLOCK	*
	19	.*	CALBAK	EQU	GO TO THIS ADDRESS WHEN BUFFER	*
	20	.*			IS DONE AFTER AN INTERRUPT	*
00005	21	.*			BIT23 SEZ CALBAK	*
	22	.*	IMAD	EQU	LOCATION WHERE RECORD IS TO BE	*
	23	.*			PLACED OR MOVED FROM.	*
00006	24	.*	LNIM	EQU	MAXIMUM ALLOWABLE RECORD SIZE	*
00007	25	.*	KILLFLAG	EQU	STI *,0	*
00010	26	.*	ENAD	EQU	ENI BLOCK,X1	*
00011	27	.*	NJM	EQU	UJP IMPURE	*
00012	28	.*	ENIT	EQU	TEMP FOR INDEX 3	*
	29	.*			IF BIT23 DEVICE MUST BE STARTED	*
	30	.*			BY OPERATOR	*
	31	.*			IF BIT22 DO NOT PROCESS FORMS ON	*
	32	.*			THIS DEVICE	*
	33	.*			IF BIT21 THEN STOP MACRO	*
	34	.*			IF BIT20 THEN BUFFER IS UNSAFE	*
00013	35	.*			BIT 19 IS A QUEUEING FLAG	*
00014	36	.*	DEVBLK	EQU	PTR TO 4 WORD BLOCK	*
00015	37	.*	COUNT	EQU	COUNT OF WORDS IN RECORD	*
00016	38	.*	POST	EQU	RELATIVE LOCATION IN BUFFER	*
	39	.*	PFWORD	EQU	CONTENTS OF PF1	*
	40	.*	FORMSWRD	EQU		*
	41	.*			BIT19 SEZ WAITING FOR	*
	42	.*			OPERATOR TO READY DEVICE	*
	43	.*			BIT20 SEZ WANTS FORMS	*
	44	.*			BIT21 SEZ HAS FORMS	*
	45	.*			BIT22 SEZ TAKE FORMS OUT	*
	46	.*			BIT23 SEZ SAME AS BIT22 BUT	*
	47	.*			DRIVER IS WAITING TO OUTPUT NEXT	*
	48	.*			FILE	*
00017	49	.*	IDENT	EQU	BCD IDENT OF THE DEVICE	*
00020	50	.*	URBEXITA	EQU	ENI BLOCK,X1	*
00021	51	.*	URBEXIT	EQU	UJP IMPURE	*
00022	52	.*	QINGLOC	EQU	ADDRESS TO GO TO WHEN FILES	*
	53	.*			ARE UNEQUIPPED	*
00023	54	.*	QPNT	EQU	POINTER TO NXPTR AND LXPTR	*
00024	55	.*	QEMPTY	EQU	ADDRESS TO TELL DRIVER THAT IT	*
	56	.*			HAS TO MORE FILES TO OUTPUT	*
00025	57	.*	STRTLOC	EQU	ADDRESS TO TELL DRIVER TO START	*
	58	.*			FILE	*
	59	.*				*
	60	.*			*****	*

67
68
69

*
* ENTER HERE AT THE BEGINNING OF EACH FILE *
*

00000	00000	P	71	PNFILE	EQU	*	
00001	47100057	P	72		STI	OFLAG,X1	REMEMBER TO OFFSET THE EOJ CARD
00002	54200037	P	73		LDI	STORADD,X2	DO WE HAVE A BUFFER
00003	02677777	X	74		IJD	URBLOK1,X2	JUMP IF WE DO
00004	47300017	P	75		STI	PNFILEEX,X3	SAVE THE RETURN ADDRESS
00005	14300007		76		ENI	7,X3	GET 128 WORDS OF STORAGE
00006	00777777	X	77		RTJ	GETMEM	
00007	40100005		78		STA	IMAD,X1+CBI	SAVE THE ADDRESS OF THE STORAGE
00008	15600050		79		INA	40	
00009	14700001		80		ENQ	1	
00010	45000220	P	81		STAQ	LAST	SAVE ADDRESS OF SECOND BUFFER
00011	15600050		82		INA	40	
00012	45000222	P	83		STAQ	PREV	
00013	20077777	X	84		LDA	BLANKS	BLANK FILL LAST RECORD
00014	40300000		85		STA	0,X3	
00015	47300037	P	86		STI	STORADD,X3	SAVE THE STORAGE ADDRESS
00016	14300000		87		ENI	IMPURE,X3	ENTER THE RETURN
00017	01000002	X	88	PNFILEEX	UJP	URBLOK1	
			89				
			90				

92
93
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*
* ENTER HERE ON PUNCH INTERRUPTS *
*

00021	47300144	P	96	PNINT	STI	RETURN,X3	SAVE THE RETURN ADDRESS
00022	00700224	P	97		RTJ	PNCON	CONNECT TO PUNCH
00023	77730000		98		DINT		PREVENT OTHER INTERRUPTS
00024	17302100		99		ANI	21008,X3	LEAVE COMPARE ERROR STATUS
00025	02700156	P	100		IJD	COMPARE1,X3	BAD NEWS
00026	04000000		101	COMF2	ISE	IMPURE,0	FIRST COMPARE FLAG
00027	01000200	P	102		UJP	COMPARE2	STILL RECOVERING
00028	04000000		103	COMF3	ISE	IMPURE,0	SECOND COMPARE FLAG
00029	47000030	P	104		STI	COMF3,0	RESET LAST FLAG
00030	04000000		105	LCNRFG	ISE	IMPURE,0	SKIP IF NO CARD IMAGE
00031	01000125	P	106		UJP	PUNCH	PUNCH IF PRESENT
00032	47000122	P	107		STI	OKAYT,0	SET OKAY TO PUNCH FLAG
00033			108				
00034			109				
00035	20100000		110		LDA	FB,X1	ARE WE WORKING ON A FILE
00036	03100044	P	111		AZJ,NE	RLSON	JUMP IF SO
00037	14600000		112	STORADD	ENA	IMPURE	DO WE CURRENTLY HAVE A BUFFER
00038	03000044	P	113		AZJ,EQ	RLSON	JUMP IF NOT
00039	14300007		114		ENI	7,X3	FREE IT IF WE DO
00040	00777777	X	115		RTJ	FREEMEM	
00041	47000037	P	116		STI	STORADD,0	FORGET ABOUT THE STORAGE
00042			117				
00043			118	RLSON	LDI	RETURN,X2	LOAD THE RETURN ADDRESS
00044	54200144	P	119		UJP	UNCON	RELEASE CHANNEL
00045	01077777	X	120				
00046	00046	P	121	TERMF	EQU	*	
00047	47000073	P	122		STI	PTRF,0	RESET EOJ FLAG
00048	54200144	P	123		LDI	RETURN,X2	LOAD THE RETURN
00049	01077777	X	124		UJP	URBLOKNX	GET THE NEXT PUNCH FILE
00050			125				

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128 *
129 *
130 *
*****
*
* RETURN HERE AFTER CHANNEL INTERRUPT
*
*****
132
133 PCHANIN UJP IMPURE
134 LDI PCHANIN,X2 LOAD RETURN ADDRESS
135 STI RETURN,X2 SAVE THE RETURN ADDRESS
136 ENI PUNBLOC,CBI+X1 POINT TO THE CONTROL MACRO
137 ISSUE 208 SELECT INT CN READY AND NOT BUSY
138 OFLAG ISE 7+IMPURE,0 SKIP IF NO OFFSET
139 STI OFLAGB,X1 SET REAL OFFSET FLAG
140 LDI COMF3,X2 LOAD COMPARE RECOVERY INDICATOR
141 IJD RETURN,X2 DON'T GET NEW CARD IF RECOVERING
142 LDI PREV,X3 LOAD UNUSED BUFFER ADDRESS
143 LDAQ LAST
144 STAQ PREV ADVANCE POINTERS
145 LDA IMAD,X1+CBI GET ADDRESS OF CARD JUST PUNCHED
146 LDQ COUNT,X1+CBI LOAD WORD COUNT ALSO
147 STAQ LAST
148 TIA X3
149 STA IMAD,X1+CBI SAVE ADDRESS FOR THIS TIME
150 ISE IMPURE,0 CHECK FOR LAST CARD
151 UJP TERMF IT WAS. GET NEXT FILE
152
*****
154 *
155 * SET UP CALL TO MOVEBUFF AND PROCESS RETURN
156 *
*****
158
159 ENI *+2,X3 ENTER RETURN ADDRESS
160 UJP URBLOK
161 UJP RETURN NO CARD IMAGE YET
162 PNISTA EQU *
163 STI LCNRFGB,X3 SAY CARD PRESENT
164 AZJ,GE PNCHD STATUS IN A REG,
165 * 40000000 SEZ FILE MARK,
166 * -0 SEZ END OF JOB
167
168
169 AZJ,EQ TERMGEN JUMP IF END OF JOB
170 LDA FILMA LOAD FILE MARK WORD
171 STA,I IMAD,X1+CBI PLACE INTO BUFFER
172 ENA 1 FILE CARDS ARE 1 WORD LONG
173 UJP SETCOUNT
174
175
176
177 PUNCB STI RETURN,X3 SAVE THRE RETURN ADDRESS
178 UJP PNISTA
179
180
181 TERMGEN EQU *
182 ENI 40-1,X2 ENTER COUNT FOR LOOP
183 STI PTRF,X2 SAY EOJ BEING PUNCHED
184 LDA IMAD,X1+CBI LOAD ADDRESS OF CURRENT BUFFER
185 SWA *+2 SAVE FOR SETTING LOOP
186 ENA,S -0
187 STA IMPURE,X2 SET OUTPUT BUFFER
188 IJD *-1,X2
189 LDA BINFCB TO END OF JOB CARD DESCRIPTOR
190 STA COUNT,X1+CBI SAVE THE WORD COUNT
191
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193
194 PNCHD EQU *
195 OKAYT ISE IMPURE,0 ZERO SEZ OKAY TO PUNCH
196 UJP RETURN RETURN IF NOT READY
197 RTJ PNCON CONNECT
198 PUNCH EQU *
199 OFLAGB ENA IMPURE NON-ZERO IF WE SHOULD OFF-SET
200 AZJ,EQ NOOFFSET THIS IS USED ONLY FOR EOJ CARDS
201 STI OFLAG,0 RESET OFFSET FLAGS
202 STI OFLAGB,0
203 ISSUE 03B SELECT OFFSET
204 NOOFFSET EQU *
205 LDA IMAD,X1+CBI LOAD ADDRESS OF PUNCH BUFFER

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00134	44000141	P	206		SWA	PNOPA+1	STORE BEGIN ADDRESS
00135	30100014		207		ADA	COUNT,X1+CBI	GENERATE FINAL ADDRESS FOR
00136	44000140	P	208		SWA	PNOPA	PUNCH COMMAND AND STORE IT
00137	00700145	P	209		RTJ	PUNCH3	CALL ROUTINE TO DO PUNCH SETUP
00140	76000000		210	PNOPA	OUTW,INT	IO,IMPURE,IMPURE	OUTPUT FOR PUNCH
00141	00400000						
00142	01000140	P	211		UJP	*-2	REJECT
00143	47000032	P	212		STI	LCNRFG,0	SET NO CARD PRESENT
00144	01000000		213	RETURN	UJP	IMPURE	RETURN
			214				
			215				
00145	01000000		216	PUNCH3	UJP	IMPURE	
00146	13077754		217		SHAQ	-1-3INFIL	BINARY BIT TO SIGN OF 0
00147	14400002		218		ENA,S	2	TO SELECT BCD
00150	05500000		219		QSG,S	0	SKIP IF BINARY BIT ZERO (BCD)
00151	14400001		220		ENA,S	1	ELSE SELECT BINARY
00152	00700255	P	221		RTJ	SEL	
00153	14407770		222		ENA,S	07770B	
00154	44000122	P	223		SWA	OKAYT	RESET OKAY TO PUNCH FLAG
00155	01000145	P	224		UJP	PUNCH3	RETURN

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266

*
* ERROR RECOVERY SECTION *
*

00156 14300222 P
00157 00700204 P
00160 11000730 P 00166 0
00161 14700050
00162 54200144 P
00163 47200026 P
00164 47200030 P
00165 01077777 X

COMPARE1 EQU *
ENI PREV,X3 REMEMBER FIRST OFFSET CARD
RTJ PUNCHERR REPUNCH THE BAD CARD
ECHA CPRMSG ENTER ADDRESS OF MESSAGE
ENQ 40 ENTER COUNT FOR MESSAGE
LDI RETURN,X2 LOAD THE RETURN ADDRESS
STI COMF2,X2 SET COMPARE ERROR FLAGS
STI COMF3,X2
UJP OPMSGX CLUE OPERATOR IN ON WHY THE CARDS
* ARE OFFSET

00166 23215124

CPRMSG BCD 10,CARD PUNCH ERROR. REMOVE OFFSET CARDS.^

00200 14300220 P
00201 00700204 P
00202 47000026 P
00203 01000144 P

COMPARE2 EQU *
ENI LAST,X3 REMEMBER SECOND OFFSET CARD
RTJ PUNCHERR PUNCH THE OFFSET CARD
STI COMF2,0 RESET FIRST COMPARE ERROR FLAG
UJP RETURN RETURN

00204 01000000
00205 14600003
00207 25300000
00210 44000215 P
00211 53040000
00212 44000214 P
00213 00700145 P
00214 76000000
00215 00400000
00216 01000214 P
00217 01000204 P

PUNCHERR UJP IMPURE ROUTINE TO PUNCH OFFSET CARDS
ISSUE 033 SO TRY TO OFFSET THEM
LDAQ 0,X3 LOAD FWA AND LENGTH
SWA ERRCARD+1 SAVE THE FWA
AQA COMPUTE THE LWA
SWA ERRCARD AND SAVE IT ALSO
RTJ PUNCH3 SET UP THE PUNCH
ERRCARD OUTW,INT IO,IMPURE,IMPURE
UJP *-2
UJP PUNCHERR RETURN TO CALLER

00220 00000000
00222 00000000

LAST VFD A24/IMPURE,A24/IMPURE
PREV VFD A24/IMPURE,A24/IMPURE

00224	01000000		268	PNCON	UJP	IMPURE	ROUTINE TO CONNECT TO PUNCH
00225	14100000		269	PUNCON	ENI	IMPURE,X1	CONNECT CCDE
00226	14703720		270		ENQ	2000	MAXIMUM TIME
00227	54200144	P	271		LDI	RETURN,X2	LOAD THE RETURN ADDRESS
00230	14300230	P	272		ENI	*,X3	
00231	01077777	X	273		UJP	CCONNECT	CALL CCONNECT ROUTINE
00232	00700051	P	274		RTJ	PCHANIN	CALL ON CHANNEL INTERRUPT
00233	01200000		275		UJP	0,X2	WILL BE INTERRUPTED ON CCONNECTED
00234	47200144	P	276		STI	RETURN,X2	SAVE THE RETURN ADDRESS
00235	14100054	X	277		ENI	PUNBLOC,X1+CBI	ENTER ADDRESS OF CONTROL BLOCK
00236	77200000		278		COPY	SENSE	
00237	53700000		279		TAI	X3	SAVE PUNCH STATUS
00240	14600021		280		ISSUE	218	RELEASE INT ON READY AND NOT BUSY
00242	77200001		281		EXS	1,SENSE	SKIP IF NOT READY
00243	77200002		282		EXS	2,SENSE	SKIP IF NOT BUSY
00244	01000246	P	283		UJP	*+2	BUSY OR NOT READY
00245	01000224	P	284		UJP	PNCON	RETURN IF READY
			285				
00246	14600020		286		ISSUE	208	SELECT INT ON READY AND NOT BUSY
00250	01000044	P	287		UJP	RLSCN	RELEASE CHANNEL
			288				
			289				
			290				
00251	53010022		291	REJ	TMQ	228	GET CLOCK AND
00252	03500260	P	292		AQJ,NE	NEWCLK	SEE IF IT'S COUNTED UP YET
00253	77100000		293	ISUF	SEL	IMPURE,SELECT	ISSUE THE I/O FUNCTION
00254	01000251	P	294		UJP	REJ	BAD NEWS, REJECTED
00255	01000000		295	SEL	UJP	IMPURE	
00256	44000253	P	296		SWA	ISUF	SAVE FUNCTION
00257	14200005		297		ENI	5,X2	TRY FOR 5 MILLISECONDS
00260	53020022		298	NEWCLK	TMA	228	GET REFERENCE CLOCK VALUE
00261	02600253	P	299		IJD	ISUF,X2	TRY THE PROPER AMOUNT OF TIME
00262	01000255	P	300		UJP	SEL	GIVE UP IN EXASPERATION
			301				
			302				
			303				
00263	17176060		304	FILMA	OCT	17176060	DOUBLE FILE MARK
00264	01000050		305	BINFCO	OCT	01000050	
			306				
			307		END		

NO LINES WITH ERRORS

BFBGN	00002	13	15	00000P					
BFCPP	00003	15	19	00000P					
BINFCO	00264P	305	189	00120P					
BINFIL	00022	54	217	00146P					
BLANKS	X	43	85	00014P					
BLF	00001	12	13	00000P					
CALBAK	00004	19	22	00000P					
CBI	00000	62	79	00006P	136 00054P	145 00066P	146 00067P	149 00072P	171 00104P
			184	00113P	190 00121P	205 00133P	207 00135P	277 00235P	
COMF2	00026P	102	238	00163P	249 00202P				
COMF3	00030P	104	105	00031P	140 00061P	239 00164P			
COMPARE1	00156P	232	101	00025P					
COMPARE2	00200P	246	103	00027P					
CONNECT	X	44	273	00231P					
COUNT	00014	37	38	00000P	146 00067P	190 00121P	207 00135P		
CPRMSG	00166P	243	235	00160P					
DEVBLK	00013	36	37	00000P					
ENAD	00010	26	27	00000P					
ENIT	00012	28	36	00000P					
ERRCARD	00214P	260	256	00210P	258 00212P				
FB	00000	11	12	00000P	110 00035P				
FILMA	00263P	304	170	00103P					
* FORMSWRD	00016	40							
FREEMEM	X	45	115	00042P					
GETMEM	X	46	78	00005P					
ICENT	00017	49	50	00000P					
IMAD	00005	22	24	00000P	79 00006P	145 00066P	149 00072P	171 00104P	184 00113P
			205	00133P					
IMPURE	00000	55	88	00017P	102 00026P	104 00030P	106 00032P	112 00037P	133 00051P
			138	00057P	150 00073P	187 00116P	195 00122P	199 00125P	210 00140P
			210	00140P	213 00144P	216 00145P	253 00204P	260 00214P	260 00214P
			265	00220P	265 00221P	266 00222P	266 00223P	268 00224P	269 00225P
			293	00253P	295 00255P				
IO	00000	56	210	00140P	260 00214P				
ISUF	00253P	293	296	00256P	299 00261P				
KILLFLAG	00007	25	26	00000P					
LAST	00220P	265	82	00011P	143 00064P	147 00070P	247 00200P		
LCNRFG	00032P	106	163	00100P	212 00143P				
LNIM	00006	24	25	00000P					
NEWCLK	00260P	298	292	00252P					
NJM	00011	27	28	00000P					
NOOFFSET	00133P	204	200	00126P					
OFLAG	00057P	138	73	00000P	201 00127P				
OFLAGB	00125P	199	139	00060P	202 00130P				
OKAYT	00122P	195	108	00034P	223 00154P				
OPMSGX	X	47	240	00165P					
PCHANIN	00051P	133	134	00052P	274 00232P				
PWORD	00016	39	40	00000P	49 00000P				
PNCHO	00122P	194	164	00101P					
PNCON	00224P	268	98	00022P	197 00124P	284 00245P			
PNFILE	E	72	39	00000P					
PNFILEEX	E	88	76	00003P					
PNINT	E	97	40	00000P					
PNISTA	00100P	162	178	00110P					
PNOPA	00140P	210	206	00134P	208 00136P				
POST	00015	38	39	00000P					
PREV	00222P	266	84	00013P	142 00063P	144 00065P	233 00156P		
PTRF	00073P	150	123	00046P	183 00112P				
PUNBLOC	X	48	136	00054P	277 00235P				
PUNCB	E	177	41	00000P					
PUNCH	00125P	198	107	00033P					
PUNCH3	00145P	216	209	00137P	224 00155P	259 00213P			
PUNCHERR	E	253	234	00157P	248 00201P	262 00217P			
PUNCON	E	269	42	00000P					
QEMPTY	00024	55	57	00000P					
QINGLOC	00022	52	54	00000P					
QPNT	00023	54	55	00000P					
REJ	00251P	291	294	00254P					
RETURN	00144P	213	97	00021P	118 00044P	124 00047P	135 00053P	141 00062P	161 00077P
			177	00107P	196 00123P	237 00162P	250 00203P	271 00227P	276 00234P
RLSCN	00044P	118	111	00036P	113 00040P	287 00250P			
SEL	00255P	295	37	00056P	37 00132P	221 00152P	37 00206P	37 00241P	37 00247P
			300	00262P					
SELECT	00000	57	293	00253P					
SENSE	00000	58	278	00236P	281 00242P	282 00243P			
SETCOUNT	00121P	190	173	00106P					
STORADD	00037P	112	74	00001P	87 00016P	116 00043P			
* STRTLOC	00025	57							
TERMF	00046P	122	151	00074P					

