

IDENTIFICATION

PRODUCT CODE: MAINDEC-08-DHTDA-D-D
~~PRODUCT CODE: MAINDEC-08-DHTDA-A-D~~
REPLACES: MAINDEC-8E-D3AB-D
PRODUCT NAME: TD8E DECTAPE DIAGNOSTIC
DATE CREATED: NOVEMBER 1, 1972
MAINTAINER: DIAGNOSTIC GROUP
~~AUTHOR: E. STEINBERGER/B. HANSEN~~
AUTHOR: W. VAN DER MARK

COPYRIGHT © 1971, 1972
DIGITAL EQUIPMENT CORPORATION



1, ABSTRACT

TD8E DECTAPE DIAGNOSTIC IS A PROGRAM WHICH HAS BEEN WRITTEN TO CHECKOUT AND TEST TD8E DECTAPE CONTROLS WITH TU56 DECTAPE TRANSPORTS; THE PROGRAM TESTS THE BASIC FUNCTIONS OF THE CONTROL (IOT SKIPS, DATA TRANSFERS, ETC) AS WELL AS CHECKING THE ABILITY TO READ AND WRITE ON DECTAPE.

2, REQUIREMENTS

2,1 EQUIPMENT

PDP-8E
TD8E DECTAPE CONTROL
TU56 DECTAPE TRANSPORT (AT LEAST ONE)
ALL NECESSARY CABLES AND MODULES

2,2 STORAGE

THE PROGRAM OCCUPIES MEMORY FROM LOCATION 20 TO LOCATION 7177 AND USES LOCATIONS 7200 TO 7577 AS DATA BUFFER AREA.

2,3 PRELIMINARY PROGRAMS

NONE

3, LOADING PROCEDURE

3,1 METHOD

THE PROGRAM IS LOADED USING THE STANDARD BINARY LOADER TECHNIQUE.

4. STARTING PROCEDURE

4.1 CONTROL SWITCH SETTINGS

THE FOLLOWING IS A TABLE OF CONTROL SWITCH SETTINGS AND THEIR ACTION UPON THE PROGRAM:

SR	STATE	ACTION
0	1	LOOP ON CURRENT SUBTEST
	0	DON'T LOOP
1	1	LOOP ON CURRENT TEST
	0	DON'T LOOP
2	1	LOOP ON CONTROL TESTS
	0	DON'T LOOP
3	1	DON'T PRINT ERRORS
	0	PRINT ERRORS
4	1	DON'T HALT ON ERRORS
	0	HALT ON ERROR
5	1	
	0	
6	1	
	0	
7	1	
	0	
8	1	
	0	
9	1	
	0	
10	1	
	0	
11	1	SINGLE UNIT TRANSPORT
	0	DUAL UNIT TRANSPORT

4.2 STARTING ADDRESSES

0200	OPERATOR INTERVENTION TESTS
0201	CONTROL AND DATA TRANSFER TESTS
2100	SEARCH AND FIND ALL BLOCK NUMBERS
2200	DISPLAY BLOCK NUMBERS IN AC
2237	ROUTINE TO ROCK DECTAPE 0 (TIME DEPENDENT ON SWITCH REGISTER)
2400	READ AND CHECK THE MARK TRACK FROM ENDZONE TO ENDZONE
7200	IDT MODIFICATION PROGRAM

4.3 PROGRAM AND/OR OPERATOR ACTION
-----**4.3.1 TO TEST "SELECT ERROR" AND "WRITE LOCK OUT"****4.3.1.1 DUAL TRANSPORTS**

- A) SET SWITCH REGISTER TO 0200
- B) ON THE TRANSPORTS, SET ONE TRANSPORT TO UNIT 0, ON-LINE, WRITE LOCK; SET THE OTHER TRANSPORT TO UNIT 1, OFF-LINE.
- C) DEPRESS "LOAD ADDRESS", THEN "CLEAR", THEN "CONTINUE"; THE PROGRAM SHOULD TYPE "OK"
- D) REVERSE THE ROLES OF THE TWO TRANSPORTS AND REPEAT STEP C;
- E) SET BOTH TRANSPORTS TO UNIT 1, ON-LINE; DEPRESS "LOAD ADDRESS", THEN "CLEAR", THEN "CONTINUE"; THE PROGRAM SHOULD INDICATE NO UNIT 0 SELECTED
- F) PROCEED TO 4.3.2

4.3.1.2 SINGLE TRANSPORT

- A) SET SWITCH REGISTER TO 0200
- B) ON THE TRANSPORT, SET TO UNIT 0, ON-LINE, WRITE LOCK
- C) DEPRESS "LOAD", THEN "CLEAR", THEN "CONTINUE"; THE PROGRAM SHOULD TYPE "OK"
- D) PROCEED TO 4.3.2

4.3.2 TO TEST CONTROL AND ABILITY TO PERFORM DATA TRANSFERS

- A) SET SWITCH REGISTER TO 0201, DEPRESS "LOAD ADDRESS"

- B) SET SWITCH REGISTER PER 4,1, SET SR11 IF ONLY ONE TRANSPORT EXISTS OR ONLY ONE TRANSPORT IS TO BE TESTED,
- C) MOUNT A STANDARD PDP-8 DECTAPE (2702 BLOCKS, 201 WORDS PER BLOCK) ON EACH TRANSPORT TO BE TESTED WITH THE TAPES WRAPPED AT LEAST 2 TURNS ON EACH TAKE UP REEL, RESPECTIVELY,
- D) SET A TRANSPORT TO UNIT 0, ON-LINE, WRITE ENABLE; SET THE OTHER TRANSPORT (IF IT EXISTS OR IS TO BE TESTED) TO UNIT 1, ON -LINE, WRITE ENABLE,
- E) DEPRESS "CLEAR", THEN "CONTINUE", THE PROGRAM WILL PERFORM THE BASIC CONTROL TESTS ON THE TDBE, AND, IF SR2 IS A 0, PROCEED TO MOVE TAPE AND PERFORM DATA TRANSFERS TO AND FROM TAPE, CHECKING THE RESULTS;

4,3,3 TO MODIFY THE TDBE IOT SET TO HANDLE A CONTROL FOR UNITS OTHER THAN 0 AND 1,

- A) SET SWITCH REGISTER TO 7200, DEPRESS "LOAD ADDRESS"
- B) SET SWITCH REGISTER BITS 6, 7 AND 8 TO DEVICE SELECTOR BITS 6, 7, AND 8 OF THE CONTROL TO BE TESTED (4, 5, 6 OR 7)
- C) DEPRESS "CLEAR", THEN "CONTINUE", THE PROGRAM WILL MODIFY ALL TDBE IOT'S TO HANDLE THE SELECTED CONTROL,
- D) PERFORM ALL TESTS INDICATED IN 4,3,1 AND 4,3,2 ABOVE FOR THE SELECTED CONTROL SUBSTITUTING UNIT 2, 4 OR 6 FOR UNIT 0 AND UNIT 3, 5 OR 7 FOR UNIT 1 ABOVE,
- E) CAUTION- THE CODE TO CHANGE THE IOT'S IS IN THE DATA BUFFER AREA FOR THE DATA TRANSFER TESTS AND WILL BE DESTROYED WHEN THAT PORTION OF THE PROGRAM IS RUN, AN OVERLAY TAPE IS PROVIDED TO ALLOW THIS CODE TO BE READ BACK INTO MEMORY FOR RE-EXECUTION, MAINDEC-00-DHYDA-A-PB2

5, OPERATING PROCEDURE

5,1 OPERATIONAL SWITCH SETTINGS

SEE 4,1

5,2 SUBROUTINE ABSTRACTS

NONE

5,3 PROGRAM AND/OR OPERATOR ACTION

SEE 4,3

5,3,1 IF PROBLEMS ARE SUSPECTED IN THE CONTROL WHEN READING THE TIMING TRACK OFF OF DECTAPE INCLUDING SINGLE LINE FLAG AND QUAD LINE FLAG, A ROCK TAPE ROUTINE HAS BEEN PROVIDED AT LOCATION 2237 TO ALLOW SCOPING OF SINGLE LINE FLAG, QUAD LINE FLAG, UP-TO-SPEED, ETC.

(2237)

- A) SET SWITCH REGISTER TO 2237, DEPRESS "LOAD ADDRESS"
- B) SET SWITCH REGISTER TO 0070, DEPRESS "CLEAR" THEN "CONTINUE", THE DECTAPE ON UNIT 0 SHOULD START ROCKING.
- C) MODIFY SWITCH REGISTER SETTING TO INCREASE OR DECREASE "ROCK" PERIOD.
- D) CAUTION-IF THE NUMBER IN THE SWITCH REGISTER IS TOO SMALL, THE DECTAPE TRANSPORT WILL NOT GET UP TO SPEED BEFORE IT TURNS AROUND.

5,3,2 A ROUTINE HAS BEEN PROVIDED AT LOCATION 2100 TO ALLOW A DECTAPE TO BE RUN FROM ENDZONE TO ENDZONE COMPARING ALL BLOCK NUMBERS; TO RUN THIS ROUTINE, START THE COMPUTER AT LOCATION 2100, THE SR HAS NO AFFECT UPON THE ROUTINE, TO RUN UNIT 1 CHANGE THE CONTENTS OF UNIT (LOCATION 2234) TO 4000, A HALT WILL OCCUR AT LOCATION 2150 IF AN ERROR OCCURS, THE CONTENTS OF THE AC EQUALS THE BLOCK THAT WAS BEING SEARCHED FOR, PRESS "CONT" AND THE PROGRAM WILL HALT AT LOCATION 2153 WITH THE AC EQUAL TO THE BLOCK THAT WAS FOUND, PRESS "CONT" AGAIN, THE PROGRAM WILL RECYCLE UNTIL ANOTHER ERROR IS FOUND.

(2100)

5,3,3 A ROUTINE HAS BEEN PROVIDED AT LOCATION 2200 TO ALLOW A DECTAPE TO BE RUN FROM ENDZONE TO ENDZONE WITH THE BLOCK NUMBERS DISPLAYED IN THE AC, TO RUN THIS ROUTINE, START THE COMPUTER AT LOCATION 2200, THE SR HAS NO AFFECT UPON THE ROUTINE, TO RUN UNIT 1, CHANGE THE CONTENTS OF UNIT (LOCATION 2234) TO 4000, NO ERRORS ARE DETECTED.

(2200)

5,3,4 A ROUTINE HAS BEEN PROVIDED AT LOCATION 2400 TO ALLOW A DECTAPE TO BE RUN FROM ENDZONE TO ENDZONE WITH THE MARK TRACK FORMAT BEING CHECKED, AN ERROR HALT WILL OCCUR IF AN ERROR IS DETECTED, TO RUN THIS ROUTINE (ONLY ON UNIT 0), START THE COMPUTER AT LOCATION 2400, THE SR HAS NO AFFECT UPON THE ROUTINE.

(2400)

6, ERRORS

6,1 ERROR HALTS AND DESCRIPTION

MOST ERROR HALTS ARE PRECEDED BY AN ERROR TYPEOUT (UNLESS SR3 IS A 1). IF NO ERROR TYPEOUT OCCURS, CONSULT THE LISTING FOR THE CAUSE OF THE ERROR.

6,2 ERROR RECOVERY

MOST ERRORS (EXCEPT DATA ERRORS) CAN BE ISCOPED BY SETTING SR0 TO 1 AND DEPRESSING "CONTINUE"

DATA ERRORS CANNOT BE ISCOPED, BUT DATA TRANSFERS CAN BE CONTINUED BY DEPRESSING "CONTINUE".

6,3 IF TAPE RUNS OFF THE END

NORMALLY, TAPE WILL NOT RUN OFF THE END OF THE REEL UNLESS THE PROGRAM IS IN A ISCOPE LOOP OR A SELECT ERROR OCCURS WHEN A TAPE IS MOVING (THE OPERATOR SETTING BOTH TAPE UNITS TO THE SAME NUMBER DURING THE DATA TRANSFER TESTS).

IF TAPE RUNS OFF THE END AND THE PROGRAM HANGS AROUND LOCATION 0621, CHECK THE ABILITY TO READ THE TIMING TRACK INTO THE T08E CONTROL AND THE CIRCUITS RELATING TO THE TIMING PULSE GENERATOR.

IF TAPE RUNS OFF THE END AND THE PROGRAM HANGS AROUND LOCATION 1466, CHECK THE ABILITY TO READ THE MARK TRACK INTO THE T08E CONTROL AND THE CIRCUITS RELATING TO THE MARK TRACK REGISTER.

7, RESTRICTIONS

7,1 STARTING RESTRICTIONS

NONE IF PARAGRAPH 4,3 IS PROPERLY FOLLOWED.

7,2 OPERATING RESTRICTIONS

NONE IF PARAGRAPH 4,3 IS PROPERLY FOLLOWED.

8: MISCELLANEOUS

8.1 EXECUTION TIME - \approx 20 MIN (Transport SA=201)

THE EXECUTION TIME OF THE CONTROL TESTS IS NORMALLY LESS THAN 1 MINUTE, DEPENDING UPON THE POSITION OF TAPE ON UNIT 0;

THE EXECUTION TIME OF THE DATA TESTS DEPENDS ON WHETHER ONE OR TWO TRANSPORTS IS BEING EXERCISED, PASS "N" COMPLETE WILL BE PRINTED ON THE TELEPRINTER AFTER ALL DATA PATTERNS HAVE BEEN EXERCISED ONCE, (NORMALLY LESS THAN 1 HOUR PER PASS);

20 min Transport.

9: PROGRAM DESCRIPTION

9.1 DATA REGISTER TEST (SA=0201)

IN THIS TEST THE DATA REGISTER IS CHECKED FOR ITS ABILITY TO BE LOADED AND READ; FIRST THE COMPLEMENT OF THE DATA TO BE CHECKED IS LOADED INTO THE DATA REGISTER, THEN THE DATA ITSELF IS LOADED INTO THE REGISTER; THIS IS DONE TO CHECK THAT ALL BITS CAN BE LOADED TO A 1 FROM A 0 AND TO A 0 FROM A 1; THE DATA IS THEN READ INTO THE AC AND CHECKED FOR ERRORS; AN INCREMENT PATTERN IS USED;

9.2 COMMAND REGISTER TEST (SA=0236)

IN THIS TEST THE COMMAND REGISTER IS CHECKED FOR ITS ABILITY TO BE LOADED AND READ; DATA IS LOADED INTO THE COMMAND REGISTER THEN READ IN THE AC AND CHECKED FOR ERRORS; A 400 INCREMENT PATTERN IS USED; THE STOP/GO BIT IS MASKED OUT;

9.3 INITIALIZE TEST (SA=0305)

THIS TESTS CHECKS THAT "CAP" CLEARS THE COMMAND REGISTER; THE C,R, IS LOADED WITH 6400, THEN "CAP" IS ISSUED; THE C,R, IS THEN READ AND CHECKED TO CONTAIN 0;

9.4 CHECK SDLC, SOLD, SDRG, AND SDRD AND AC CLEAR (SA=0400)

THIS TEST CHECKS THE AC CLEAR FUNCTION OF THE SDLC, SOLD, SDRG AND SDRD INSTRUCTION; THIS IS DONE BY SETTING THE AC TO 7777; THEN ISSUING THE APPROPRIATE IOT (ONE AT A TIME) AND CHECK TO SEE IF THE AC DID OR DID NOT CLEAR (SOLD DOES NOT CLEAR THE AC, THE OTHERS DO);

9.5 CHECK SINGLE LINE SKIP INSTRUCTION AND LOGIC TEST (SA=0600)

THIS TEST CHECKS THE SINGLE LINE FLAG LOGIC AND SKIP INSTRUCTION, IN PARTICULAR IT TESTS: SINGLE LINE FLAG CLEAR AFTER A "CAF"; SINGLE LINE FLAG SETS; SDSS DOES NOT CLEAR SINGLE LINE FLAG; CAF CLEARS SINGLE LINE FLAG; SOLD CLEARS SINGLE LINE FLAG; SDRG CLEARS SINGLE LINE FLAG; SDRD CLEARS SINGLE LINE FLAG; SDST, SDSQ, AND SDLC DOES NOT CLEAR SINGLE LINE FLAG.

9.6 CHECK QUAD LINE SKIP INSTRUCTION AND LOGIC TEST (SA=1024)

THIS TEST CHECKS THE QUAD LINE FLAG LOGIC AND SKIP INSTRUCTION; IN PARTICULAR IT TESTS: QUAD LINE FLAG CLEAR AFTER A "CAF"; QUAD LINE FLAG SETS AT PROPER TIME; SDSQ DOES NOT CLEAR QUAD LINE FLAG; CAF CLEARS QUAD LINE FLAG; SOLD CLEARS QUAD LINE FLAG; SDRG CLEARS QUAD LINE FLAG; SDRD CLEARS QUAD LINE FLAG; SDST, SDSQ, AND SDLC DOES NOT CLEAR QUAD LINE FLAG; ALL QUAD LINE FLAG COUNTER FLIP/FLOPS GET CLEARED (BY SOLD);

9.7 CHECK TIMING ERROR SKIP INSTRUCTION AND LOGIC TEST (SA=1315)

THIS TEST CHECKS THE TIMING ERROR LOGIC AND SKIP INSTRUCTION; IN PARTICULAR IT TESTS: TIMING ERROR CLEAR AFTER A "CAF"; TIMING ERROR SETS IN READ MODE (SDSQ SKIPS); SDST DOES NOT CLEAR TIMING ERROR; CAF CLEARS TIMING ERROR; TIMING ERROR STATUS BIT CAN BE READ INTO AC BY SDRG; SDLC CLEARS TIMING ERROR; TIMING ERROR SETS IN WRITE MODE (PERFORMED AT REVERSE ENDZONE AT BEGINNING OF TAPE); TIMING ERROR STATUS CLEARS "WRITE"; SDRG SDRD SOLD ISSUED AT THE WRONG TIME SETS TIMING ERROR.

9.8 CHECK UP TO SPEED CIRCUITRY TEST (SA=1400)

THIS TEST CHECKS THE UP-TO-SPEED CIRCUITRY TO FUNCTION PROPERLY WHEN CERTAIN COMMANDS ARE GIVEN TO THE DECTAPE CONTROL, THE CHECK IS PERFORMED VIA THE FEATURE OF THE UP-TO-SPEED CIRCUITRY CLEARING THE MARK TRACK REGISTER WHEN THE UP-TO-SPEED DELAY STARTS TIMING OUT, THE COMMANDS ISSUED ARE: STOP TO GO; GO TO STOP; REVERSE TO FORWARD; FORWARD TO REVERSE; UNIT 0 TO UNIT 1; UNIT 1 TO UNIT 0 (ONLY IF UNIT 1 EXISTS - SR11 SET TO 1)

9,9 ROUTINE TO SEARCH AND FIND ALL BLOCK NUMBERS (SA=2100)

THIS ROUTINE RUNS TAPE FROM ENDBONE TO ENDBONE COMPARING ALL
 BLOCK NUMBERS,

9,10 DISPLAY BLOCK NUMBER ROUTINE (SA=2200)

THIS ROUTINE RUNS TAPE FROM ENDBONE TO ENDBONE DISPLAYING
 THE CURRENT BLOCK NUMBER IN THE AC,

9,11 ROUTINE TO ROCK DECTAPE 0 (SA=2237)

THIS ROUTINE ROCKS DECTAPE 0 FOR A DISTANCE DETERMINED
 BY THE CONTENTS OF THE SWITCH REGISTER; THIS ROUTINE
 CAN BE USED TO CHECK "UP TO SPEED", SINGLE LINE FLAG,
 AND QUAD LINE FLAG LOGIC,

9,12 ROUTINE TO RUN DECTAPE FROM ENDBONE TO ENDBONE AND CHECK

THE MARK TRACK IN BLOCKS (SA=2400)

THIS ROUTINE RUNS DECTAPE 0 FROM ENDBONE TO ENDBONE AND
 CHECKS THE CONTENTS OF THE MARK TRACK ON TAPE IN THE
 BLOCKS ON TAPE,

9,13 CHECK SELECT ERROR CIRCUITRY TEST (SA=2500, 2600)

THIS TEST CHECKS THE "SELECT ERROR" CIRCUITRY OF THE
 TDBE CONTROL UNIT 0 IS "ON-LINE", UNIT 1 IS "OFF-LINE"
 OR NO-EXISTANT; FUNCTIONS CHECKED ARE: "SELECT ERROR"
 STATUS FROM UNIT 1; "SELECT ERROR" PREVENTING "WRITE"
 FROM SETTING; NO "SELECT ERROR" FROM UNIT 0,

9,14 CHECK WRITE LOCK OUT CIRCUITRY TEST (SA=2673)

THIS TEST CHECKS THE "WRITE LOCK OUT" CIRCUITRY OF THE
 TDBE CONTROL, UNIT 0 IS "ON-LINE" AND "WRITE LOCKED",
 FUNCTIONS CHECKED ARE: "WRITE+LOCK" STATUS FROM UNIT 0;
 WRITE LOCK STATUS PREVENTING "WRITE FROM SETTING,

"OK" IS PRINTED ON THE TELEPRINTER AFTER THE TWO TESTS
 DESCRIBED IN 9,14 AND 9,15 ABOVE ARE COMPLETED,

9:15

DATA TRANSFER TEST (SA=3000)

DATA TRANSFER TESTS IS A SERIES OF ROUTINES WHICH CHECK THE READ - WRITE - SEARCH CAPABILITIES OF THE T08E CONTROL; EIGHT BASIC DATA PATTERNS ARE USED FOR DATA TRANSFER, THESE ARE: A BUFFER FULL OF 0'S; A BUFFER FULL OF -1'S; A BUFFER FULL OF 2525'S; A BUFFER FULL OF THE DATA PATTERN 2225, 5522, 2535, REPEATED; A BUFFER FULL OF INCREMENT BY 1 DATA PATTERN; A BUFFER FULL OF DECREMENT BY 1 DATA PATTERN; A BUFFER FULL OF 6161'S; A BUFFER FULL OF 3434'S, DATA TRANSFERS ARE PERFORMED IN BOTH THE FORWARD AND REVERSE DIRECTION; DATA IS WRITTEN IN THE FORWARD DIRECTION, FIRST INTO BLOCK 0, THE SEQUENCE OF OPERATIONS IS: WRITE DATA IN THE FORWARD DIRECTION; READ DATA IN THE FORWARD DIRECTION; CHECK CHECKSUM AND DATA; READ DATA IN THE REVERSE DIRECTION; CHECK CHECKSUM ONLY, THIS SEQUENCE IS REPEATED EVERY 100 BLOCKS (BLOCK 0, 100, 200, 300, ETC) UP TO AND INCLUDING BLOCK 2700, IF IT IS DESIRED TO GO A DIFFERENT NUMBER OF BLOCKS FORWARD CHANGE LOCATION 3154 TO THE DESIRED NUMBER OF BLOCKS,

DATA IS THEN WRITTEN IN THE REVERSE DIRECTION, FIRST INTO BLOCK 2700, THE SEQUENCE OF OPERATIONS IS: WRITE DATA IN THE REVERSE DIRECTION; READ DATA IN REVERSE DIRECTION; CHECK CHECKSUM AND DATA; READ DATA IN THE FORWARD DIRECTION; CHECK CHECKSUM ONLY; THIS SEQUENCE IS REPEATED EVERY 100 BLOCKS (BLOCK 2700, 2600, 2500, 2400, ETC) DOWN TO AND INCLUDING BLOCK 1, IF IT IS DESIRED TO GO A DIFFERENT NUMBER OF BLOCKS REVERSE CHANGE LOCATION 3146 TO THE 2'S COMPLEMENT OF THE DESIRED NUMBER OF BLOCKS;

AFTER UNIT 0 HAS BEEN COMPLETELY TRAVERSED ONCE (FORWARD AND BACKWARD), UNIT 1 WILL BE RUN, IF AVAILABLE, THE PROGRAM WILL THEN PROCEED TO THE NEXT DATA PATTERN AND UNIT 0 AGAIN, AFTER ALL 8 DATA PATTERNS HAVE BEEN EXERCISED ON BOTH UNITS, THE PROGRAM WILL PRINT "PASS 'N' COMPLETE" ON THE TELEPRINTER, THEN PROCEED BACK TO THE FIRST DATA PATTERN,

```
1          /MAINDEC-08-DHTDA-C-D
2
3          /TD8E SYMBOLS
4          6771 SDSS=6771
5          6772 SDST=6772
6          6773 SDSQ=6773
7          6774 SDLC=6774
8          6775 SDLD=6775
9          6776 SDRD=6776
10         6777 SDRD=6777
11
12         0017 *17
13         00017 0000 AUTO, 0000 /00017-0000
14         00020 0000 SOFLAS, 0000 /00020-0000
15         00021 0000 UNK1, 0000 /00021-0000
16         00022 0000 X8SWI, 0000 /00022-0000
17         00023 6257 ELIST1, LIST1 /00023-6257
18         00024 6266 ELIST2, LIST2 /00024-6266
19         00025 6301 ELIST3, LIST3 /00025-6301
20         00026 6306 ELIST4, LIST4 /00026-6306
21         00027 6356 ELIST5, LIST5 /00027-6356
22         00030 6360 ELIST6, LIST6 /00030-6360
23         00031 0000 IND, 0000 /00031-0000
24         00032 0000 ERRARG, 0000 /00032-0000
25         00033 0000 MPNTR, 0000 /00033-0000
26         00034 0000 OUT, 0000 /00034-0000
27         00035 0000 IN, 0000 /00035-0000
28         00036 0000 CNTR1, 0000 /00036-0000
29         00037 0000 CNTR2, 0000 /00037-0000
30         00040 0000 UNK2, 0000 /00040-0000
31         00041 0000 XHEAD1, 0000 /00041-0000
32         00042 0000 XHEAD2, 0000 /00042-0000
33         00043 0000 BLK, 0000 /00043-0000
34         00044 0000 FILPNT, 0000 /00044-0000
35         00045 1151 XLAS, RDLAS /00045-1151
36         00046 3522 X8A, DECX8A /00046-3522
37         00047 3547 X8C, DECX8C /00047-3547
38         00050 3534 X8B, DECX8B /00050-3534
39         00051 2324 XOPRNT, OPRINT /00051-2324
40         00052 1145 XINDIR, INDIR /00052-1145
41         00053 2264 XMESAG, MESSAGE /00053-2264
42         00054 0472 XERROR, ERROR /00054-0472
43         00055 0000 HANG1, 0000 /00055-0000
44         00056 0000 HANG2, 0000 /00056-0000
45         00057 0077 C77, 77 /00057-0077
46         00060 0007 C7, 7 /00060-0007
47         00061 0400 C400, 400 /00061-0400
48         00062 4000 C4000, 4000 /00062-4000
49         00063 0240 C240, 240 /00063-0240
50         00064 0200 C200, 200 /00064-0200
51         00065 0600 XSINGL, SINGLE /00065-0600
52         00066 0000 HEAD2, 0000 /00066-0000
53         00067 0000 HEAD1, 0000 /00067-0000
54
55         00070 0000 TYPE, 0000 /00070-0000
```

56	00071	6046	TLS		/00071-6046
57	00072	6041	TSF		/00072-6041
58	00073	5072	JMP	.-1	/00073-5072
59	00074	6042	TCF		/00074-6042
60	00075	7200	CLA		/00075-7200
61	00076	5470	JMP I	TYPE	/00076-5470
62					
63	00077	0000	CRLF,	0000	/00077-0000
64	00100	1177	TAD	[215	/00100-1177
65	00101	4070	JMS	TYPE	/00101-4070
66	00102	1176	TAD	[212	/00102-1176
67	00103	4070	JMS	TYPE	/00103-4070
68	00104	5477	JMP I	CRLF	/00104-5477
69					
70	00105	0000	LOOP1,	0000	/00105-0000
71	00106	4445	JMS I	XLAS	/00106-4445
72	00107	7004	RAL		/00107-7004
73	00110	7700	SMA	CLA	/00110-7700
74	00111	2105	ISZ	LOOP1	/00111-2105
75	00112	5505	JMP I	LOOP1	/00112-5505
76					
77	00113	7770	M10,	-10	/00113-7770
78	00114	0000	BLKTRY,	0000	/00114-0000
79	00115	0000	DISBL,	0000	/00115-0000
80	00116	0000	DISDA,	0000	/00116-0000
81	00117	0000	BLKCN,	0000	/00117-0000
82					
83	00120	0000	BLKREV,	0000	/00120-0000
84	00121	1175	TAD	(3000	/00121-1175
85	00122	1574	TAD I	(UNIT	/00122-1774
86	00123	6774	IOT172,	SDLC	/00123-6774
87	00124	4573	JMS I	(RDQUAD	/00124-4773
88	00125	4573	JMS I	(RDQUAD	/00125-4773
89	00126	5520	JMP I	BLKREV	/00126-5520
90					
91	00127	0000	BLKEND,	0000	/00127-0000
92	00130	6771	IOT173,	SDSS	/00130-6771
93	00131	5130	JMP	.-1	/00131-5130
94	00132	6776	IOT174,	SDRC	/00132-6776
95	00133	0172	AND	[77	/00133-0172
96	00134	1171	TAD	[-22	/00134-1171
97	00135	7640	SZA	CLA	/00135-7640
98	00136	5130	JMP	.-6	/00136-5130
99	00137	5527	JMP I	BLKEND	/00137-5527
100					
101	00140	0000	BLKSER,	0000	/00140-0000
102	00141	6771	IOT175,	SDSS	/00141-6771
103	00142	5141	JMP	.-1	/00142-5141
104	00143	6777	IOT176,	SDRD	/00143-6777
105	00144	3116	DCA	DISDA	/00144-3116
106	00145	6776	IOT177,	SDRC	/00145-6776
107	00146	0172	AND	[77	/00146-0172
108	00147	1170	TAD	[-26	/00147-1170
109	00150	7640	SZA	CLA	/00150-7640
110	00151	5141	JMP	.-10	/00151-5141

111 00152 5540
112 0200 PAGE

JMP I BLKSER

/00152-5540

113						
114	00200	5777	START,	JMP I	(SELECT	/00200-5777
115	00201	7300	DATREG,	CLA CLL		/00201-7300
116	00202	3034		DCA	OUT	/00202-3034
117	00203	3067		DCA	HEAD1	/00203-3067
118	00204	3066		DCA	HEAD2	/00204-3066
119	00205	1034		TAD	OUT	/00205-1034
120	00206	7040		CMA		/00206-7040
121	00207	6775	IOT1,	SDL		/00207-6775
122	00210	7200		CLA		/00210-7200
123	00211	1034		TAD	OUT	/00211-1034
124	00212	6775	IOT2,	SDL		/00212-6775
125	00213	7200		CLA		/00213-7200
126	00214	6777	IOT3,	SDRD		/00214-6777
127	00215	3035		DCA	IN	/00215-3035
128	00216	4445		JMS I	XLAS	/00216-4445
129	00217	7710		SPA	CLA	/00217-7710
130	00220	5210		JMP	DATREG+7	/00220-5210
131	00221	1035		TAD	IN	/00221-1035
132	00222	7041		CMA	IAC	/00222-7041
133	00223	1034		TAD	OUT	/00223-1034
134	00224	7650		SNA	CLA	/00224-7650
135	00225	5233		JMP	DATLUP	/00225-5233
136	00226	4454		JMS I	XERROR	/00226-4454
137	00227	4000		4000		/00227-4000
138	00230	4445		JMS I	XLAS	/00230-4445
139	00231	7710		SPA	CLA	/00231-7710
140	00232	5210		JMP	DATREG+7	/00232-5210
141	00233	2034	DATLUP,	ISZ	OUT	/00233-2034
142	00234	5205		JMP	DATREG+4	/00234-5205
143	00235	4105		JMS	LOOP1	/00235-4105
144	00236	5201		JMP	DATREG	/00236-5201
145						
146	00237	2067		ISZ	HEAD1	/00237-2067
147	00240	7300	COMREG,	CLA CLL		/00240-7300
148	00241	3034		DCA	OUT	/00241-3034
149	00242	3066		DCA	HEAD2	/00242-3066
150	00243	1034		TAD	OUT	/00243-1034
151	00244	0376		AND	(6400	/00244-0376
152	00245	6774	IOT4,	SDLC		/00245-6774
153	00246	7200		CLA		/00246-7200
154	00247	6776	IOT5,	SDRC		/00247-6776
155	00250	0375		AND	(7400	/00250-0375
156	00251	3035		DCA	IN	/00251-3035
157	00252	4445		JMS I	XLAS	/00252-4445
158	00253	7710		SPA	CLA	/00253-7710
159	00254	5243		JMP	COMREG+3	/00254-5243
160	00255	1034		TAD	OUT	/00255-1034
161	00256	0376		AND	(6400	/00256-0376
162	00257	7041		CMA	IAC	/00257-7041
163	00260	1035		TAD	IN	/00260-1035
164	00261	7650		SNA	CLA	/00261-7650
165	00262	5270		JMP	CLOOP	/00262-5270
166	00263	4454		JMS I	XERROR	/00263-4454
167	00264	4001		4001		/00264-4001

168	00265	4445		JMS I XLAS	/00265-4445
169	00266	7710		SPA CLA	/00266-7710
170	00267	5243		JMP COMREG+3	/00267-5243
171	00270	1034	CLOOP,	TAD OUT	/00270-1034
172	00271	1061		TAD C400	/00271-1061
173	00272	7450		SNA	/00272-7450
174	00273	5305		JMP INITST-2	/00273-5305
175	00274	3034		DCA OUT	/00274-3034
176	00275	4445		JMS I XLAS	/00275-4445
177	00276	7010		RAR	/00276-7010
178	00277	7620		SNL CLA	/00277-7620
179	00300	5243		JMP COMREG+3	/00300-5243
180	00301	7010		RAR	/00301-7010
181	00302	1034		TAD OUT	/00302-1034
182	00303	7640		SZA CLA	/00303-7640
183	00304	5243		JMP COMREG+3	/00304-5243
184	00305	4105		JMS LOOP1	/00305-4105
185	00306	5240		JMP COMREG	/00306-5240
186	00307	7300	INITST,	CLA CLL	/00307-7300
187	00310	1376		TAD (6400	/00310-1376
188	00311	6774	IOT6,	SDLC	/00311-6774
189	00312	6007		CAF	/00312-6007
190	00313	4445		JMS I XLAS	/00313-4445
191	00314	7710		SPA CLA	/00314-7710
192	00315	5307		JMP INITST	/00315-5307
193	00316	6776	IOT7,	SDRC	/00316-6776
194	00317	0375		AND (7400	/00317-0375
195	00320	7650		SNA CLA	/00320-7650
196	00321	5327		JMP .+6	/00321-5327
197	00322	4454		JMS I XERROR	/00322-4454
198	00323	0001		0001	/00323-0001
199	00324	4445		JMS I XLAS	/00324-4445
200	00325	7710		SPA CLA	/00325-7710
201	00326	5307		JMP INITST	/00326-5307
202	00327	4105		JMS LOOP1	/00327-4105
203	00330	5307		JMP INITST	/00330-5307
204	00331	5774		JMP I (CHKCLA	/00331-5774
205	00374	0400			
206	00375	7400			
207	00376	6400			
208	00377	2600			
209		0400	PAGE		

210						
211	00400	2067	CHKCLA,	ISZ	HEAD1	/00400-2067
212	00401	7300		CLA	CLL	/00401-7300
213	00402	3066		DCA	HEAD2	/00402-3066
214	00403	1167	CSDLC,	TAD	[6777	/00403-1167
215	00404	6774	IOT8,	SDLC		/00404-6774
216	00405	7650		SNA	CLA	/00405-7650
217	00406	5214		JMP	.+6	/00406-5214
218	00407	4445		JMS	I XLAS	/00407-4445
219	00410	7710		SPA	CLA	/00410-7710
220	00411	5203		JMP	CSDLC	/00411-5203
221	00412	4454		JMS	I XERROR	/00412-4454
222	00413	0102		0102		/00413-0102
223	00414	4445		JMS	I XLAS	/00414-4445
224	00415	7710		SPA	CLA	/00415-7710
225	00416	5203		JMP	CSDLC	/00416-5203
226	00417	7300	CSDRC,	CLA	CLL	/00417-7300
227	00420	6774	IOT9,	SDLC		/00420-6774
228	00421	7240		CLA	CMA	/00421-7240
229	00422	6776	IOT10,	SDRC		/00422-6776
230	00423	7650		SNA	CLA	/00423-7650
231	00424	5232		JMP	.+6	/00424-5232
232	00425	4445		JMS	I XLAS	/00425-4445
233	00426	7710		SPA	CLA	/00426-7710
234	00427	5217		JMP	CSDRC	/00427-5217
235	00430	4454		JMS	I XERROR	/00430-4454
236	00431	0103		0103		/00431-0103
237	00432	4445		JMS	I XLAS	/00432-4445
238	00433	7710		SPA	CLA	/00433-7710
239	00434	5217		JMP	CSDRC	/00434-5217
240	00435	7240	CSDLD,	CLA	CMA	/00435-7240
241	00436	6775	IOT11,	SDLD		/00436-6775
242	00437	7640		SZA	CLA	/00437-7640
243	00440	5246		JMP	.+6	/00440-5246
244	00441	4445		JMS	I XLAS	/00441-4445
245	00442	7710		SPA	CLA	/00442-7710
246	00443	5235		JMP	CSDLD	/00443-5235
247	00444	4454		JMS	I XERROR	/00444-4454
248	00445	0204		0204		/00445-0204
249	00446	4445		JMS	I XLAS	/00446-4445
250	00447	7710		SPA	CLA	/00447-7710
251	00450	5235		JMP	CSDLD	/00450-5235
252						
253	00451	7300	CSDRD,	CLA	CLL	/00451-7300
254	00452	6775	IOT12,	SDLD		/00452-6775
255	00453	7240		CLA	CMA	/00453-7240
256	00454	6777	IOT13,	SDRD		/00454-6777
257	00455	7650		SNA	CLA	/00455-7650
258	00456	5264		JMP	.+6	/00456-5264
259	00457	4445		JMS	I XLAS	/00457-4445
260	00460	7710		SPA	CLA	/00460-7710
261	00461	5251		JMP	CSDRD	/00461-5251
262	00462	4454		JMS	I XERROR	/00462-4454
263	00463	0105		0105		/00463-0105
264	00464	4445		JMS	I XLAS	/00464-4445

265	00465	7710	SPA	CLA	/00465-7710
266	00466	5251	JMP	CSDRD	/00466-5251
267	00467	4105	JMS	LOOP1	/00467-4105
268	00470	5201	JMP	CHKCLA+1	/00470-5201
269	00471	5465	JMP	I XSINGL	/00471-5465
270					
271	00472	0000	ERROR,	0000	/00472-0000
272	00473	4450	JMS	I X8B	/00473-4450
273	00474	1672	TAD	I ERROR	/00474-1672
274	00475	2272	ISZ	ERROR	/00475-2272
275	00476	3032	DCA	ERRARG	/00476-3032
276	00477	4445	JMS	I XLAS	/00477-4445
277	00500	0061	AND	C400	/00500-0061
278	00501	7640	SZA	CLA	/00501-7640
279	00502	5373	JMP	DONTPR	/00502-5373
280	00503	1032	TAD	ERRARG	/00503-1032
281	00504	7104	CLL	RAL	/00504-7104
282	00505	7430	SZL		/00505-7430
283	00506	5356	JMP	ESPEC	/00506-5356
284	00507	7104	CLL	RAL	/00507-7104
285	00510	7420	SNL		/00510-7420
286	00511	5323	JMP	ENORM	/00511-5323
287	00512	7200	CLA		/00512-7200
288	00513	1066	TAD	HEAD2	/00513-1066
289	00514	7640	SZA	CLA	/00514-7640
290	00515	5334	JMP	NOHEAD	/00515-5334
291	00516	2066	ISZ	HEAD2	/00516-2066
292	00517	1067	TAD	HEAD1	/00517-1067
293	00520	1030	TAD	ELIST6	/00520-1030
294	00521	4452	JMS	I XINDIR	/00521-4452
295	00522	5333	JMP	NOHEAD-1	/00522-5333
296					
297	00523	7200	ENORM,	CLA	/00523-7200
298	00524	1066	TAD	HEAD2	/00524-1066
299	00525	7640	SZA	CLA	/00525-7640
300	00526	5334	JMP	NOHEAD	/00526-5334
301	00527	2066	ISZ	HEAD2	/00527-2066
302	00530	1067	TAD	HEAD1	/00530-1067
303	00531	1023	TAD	ELIST1	/00531-1023
304	00532	4452	JMS	I XINDIR	/00532-4452
305	00533	4453	JMS	I XMESAG	/00533-4453
306	00534	1067	NOHEAD,	TAD	/00534-1067
307	00535	1024	TAD	ELIST2	/00535-1024
308	00536	4452	JMS	I XINDIR	/00536-4452
309	00537	4453	JMS	I XMESAG	/00537-4453
310	00540	1032	TAD	ERRARG	/00540-1032
311	00541	7002	BSW		/00541-7002
312	00542	0060	AND	C7	/00542-0060
313	00543	7450	SNA		/00543-7450
314	00544	5350	JMP	.+4	/00544-5350
315	00545	1025	TAD	ELIST3	/00545-1025
316	00546	4452	JMS	I XINDIR	/00546-4452
317	00547	4453	JMS	I XMESAG	/00547-4453
318	00550	1032	TAD	ERRARG	/00550-1032
319	00551	0057	AND	C77	/00551-0057

320	00552	1026	TAD	ELIST4	/00552-1026
321	00553	4452	JMS I	XINDIR	/00553-4452
322	00554	4453	JMS I	XMESAG	/00554-4453
323	00555	5373	JMP	DONTPR	/00555-5373
324					
325	00556	7300	ESPEC,	CLA CLL	/00556-7300
326	00557	1067	TAD	HEAD1	/00557-1067
327	00560	1027	TAD	ELIST5	/00560-1027
328	00561	4452	JMS I	XINDIR	/00561-4452
329	00562	4453	JMS I	XMESAG	/00562-4453
330	00563	4453	JMS I	XMESAG	/00563-4453
331	00564	5013	GODBAD		/00564-5013
332	00565	1034	TAD	OUT	/00565-1034
333	00566	4451	JMS I	XOPRNT	/00566-4451
334	00567	1063	TAD	C240	/00567-1063
335	00570	4070	JMS	TYPE	/00570-4070
336	00571	1035	TAD	IN	/00571-1035
337	00572	4451	JMS I	XOPRNT	/00572-4451
338	00573	4445	DONTPR,	JMS I XLAS	/00573-4445
339	00574	0064	AND	C200	/00574-0064
340	00575	7650	SNA	CLA	/00575-7650
341	00576	7402	HLT		/00576-7402
342	00577	5672	JMP I	ERROR	/00577-5672
343		0600	PAGE		

344							
345	00600	2067	SINGLE,	ISZ	HEAD1	/00600-2067	
346	00601	7300		CLA	CLL	/00601-7300	
347	00602	3066		DCA	HEAD2	/00602-3066	
348	00603	6774		SDLC		/00603-6774	
349	00604	6771	IOT14,	SDSS		/00604-6771	
350	00605	5210		JMP	.+3	/00605-5210	
351	00606	4454		JMS I	XERROR	/00606-4454	
352	00607	0306		0306		/00607-0306	
353	00610	1377		TAD	(1000	/00610-1377	
354	00611	6774	IOT15,	SDLC		/00611-6774	
355	00612	7200	SINGL0,	CLA		/00612-7200	
356	00613	1376		TAD	(-1000	/00613-1376	
357	00614	3036		DCA	CNTR1	/00614-3036	
358	00615	3037		DCA	CNTR2	/00615-3037	
359	00616	6771	IOT16,	SDSS		/00616-6771	
360	00617	7410		SKP		/00617-7410	
361	00620	5232		JMP	SING1	/00620-5232	
362	00621	2037		ISZ	CNTR2	/00621-2037	
363	00622	5216		JMP	.-4	/00622-5216	
364	00623	2036		ISZ	CNTR1	/00623-2036	
365	00624	5216		JMP	.-6	/00624-5216	
366	00625	4454		JMS I	XERROR	/00625-4454	
367	00626	0407		0407		/00626-0407	
368	00627	4445		JMS I	XLAS	/00627-4445	
369	00630	7710		SPA	CLA	/00630-7710	
370	00631	5201		JMP	SINGLE+1	/00631-5201	
371	00632	6771	SING1,	SDSS		/00632-6771	
372	00633	7410		SKP		/00633-7410	
373	00634	5237		JMP	.+3	/00634-5237	
374	00635	4454		JMS I	XERROR	/00635-4454	
375	00636	0210		0210		/00636-0210	
376	00637	4445		JMS I	XLAS	/00637-4445	
377	00640	7710		SPA	CLA	/00640-7710	
378	00641	5232		JMP	SING1	/00641-5232	
379	00642	6771	SING2,	SDSS		/00642-6771	
380	00643	5242		JMP	.-1	/00643-5242	
381	00644	6007		CAF		/00644-6007	
382	00645	4445		JMS I	XLAS	/00645-4445	
383	00646	7710		SPA	CLA	/00646-7710	
384	00647	5242		JMP	SING2	/00647-5242	
385	00650	6771	IOT17,	SDSS		/00650-6771	
386	00651	5257		JMP	SING3-2	/00651-5257	
387	00652	4454		JMS I	XERROR	/00652-4454	
388	00653	0111		0111		/00653-0111	
389	00654	4445		JMS I	XLAS	/00654-4445	
390	00655	7710		SPA	CLA	/00655-7710	
391	00656	5242		JMP	SING2	/00656-5242	
392	00657	1377		TAD	(1000	/00657-1377	
393	00660	6774	IOT18,	SDLC		/00660-6774	
394	00661	6771	SING3,	SDSS		/00661-6771	
395	00662	5261		JMP	.-1	/00662-5261	
396	00663	7200		CLA		/00663-7200	
397	00664	6775	IOT19,	SDLD		/00664-6775	
398	00665	4445		JMS I	XLAS	/00665-4445	

399	00666	7710		SPA CLA	/00666-7710
400	00667	5261		JMP SING3	/00667-5261
401	00670	6771	IOT20,	SDSS	/00670-6771
402	00671	5277		JMP 0677	/00671-5277
403	00672	4454		JMS I XERROR	/00672-4454
404	00673	0104		0104	/00673-0104
405	00674	4445		JMS I XLAS	/00674-4445
406	00675	7710		SPA CLA	/00675-7710
407	00676	5261		JMP SING3	/00676-5261
408	00677	6771	SING4,	SDSS	/00677-6771
409	00700	5277		JMP .-1	/00700-5277
410	00701	7200		CLA	/00701-7200
411	00702	6776	IOT21,	SDRC	/00702-6776
412	00703	4445		JMS I XLAS	/00703-4445
413	00704	7710		SPA CLA	/00704-7710
414	00705	5277		JMP SING4	/00705-5277
415	00706	6771	IOT22,	SDSS	/00706-6771
416	00707	5315		JMP SING5	/00707-5315
417	00710	4454		JMS I XERROR	/00710-4454
418	00711	0103		0103	/00711-0103
419	00712	4445		JMS I XLAS	/00712-4445
420	00713	7710		SPA CLA	/00713-7710
421	00714	5277		JMP SING4	/00714-5277
422	00715	6771	SING5,	SDSS	/00715-6771
423	00716	5315		JMP .-1	/00716-5315
424	00717	7200		CLA	/00717-7200
425	00720	6777	IOT23,	SDRD	/00720-6777
426	00721	4445		JMS I XLAS	/00721-4445
427	00722	7710		SPA CLA	/00722-7710
428	00723	5315		JMP SING5	/00723-5315
429	00724	6771	IOT24,	SDSS	/00724-6771
430	00725	5777		JMP I (SING6	/00725-5777
431	00726	4454		JMS I XERROR	/00726-4454
432	00727	0105		0105	/00727-0105
433	00730	4445		JMS I XLAS	/00730-4445
434	00731	7710		SPA CLA	/00731-7710
435	00732	5315		JMP SING5	/00732-5315
436	00733	5777		JMP I (SING6	/00733-5777
437	00776	7000			
438	00777	1000			
439		1000	PAGE		

440						
441	01000	6771	SING6,	SDSS		/01000-6771
442	01001	5200		JMP	.-1	/01001-5200
443	01002	6772	IOT25,	SDST		/01002-6772
444	01003	7000		NOP		/01003-7000
445	01004	6773	IOT26,	SDSQ		/01004-6773
446	01005	7200		CLA		/01005-7200
447	01006	1377		TAD	(1000	/01006-1377
448	01007	6774	IOT27,	SDLC		/01007-6774
449	01010	6771	IOT28,	SDSS		/01010-6771
450	01011	7410		SKP		/01011-7410
451	01012	5220		JMP	SING7	/01012-5220
452	01013	4454		JMS I	XERROR	/01013-4454
453	01014	0212		0212		/01014-0212
454	01015	4445		JMS I	XLAS	/01015-4445
455	01016	7710		SPA CLA		/01016-7710
456	01017	5200		JMP	SING6	/01017-5200
457	01020	6774	SING7,	SDLC		/01020-6774
458	01021	4105		JMS	LOOP1	/01021-4105
459	01022	5776		JMP I	(SINGLE+1	/01022-5776
460						
461	01023	2067	QUAD,	ISZ	HEAD1	/01023-2067
462	01024	7300		CLA CLL		/01024-7300
463	01025	3066		DCA	HEAD2	/01025-3066
464	01026	6774		SDLC		/01026-6774
465	01027	6773	IOT29,	SDSQ		/01027-6773
466	01030	5233		JMP	1033	/01030-5233
467	01031	4454		JMS I	XERROR	/01031-4454
468	01032	0313		0313		/01032-0313
469	01033	1377		TAD	(1000	/01033-1377
470	01034	6774	IOT30,	SDLC		/01034-6774
471	01035	6777	QUAD0,	SDRD		/01035-6777
472	01036	6771	IOT31,	SDSS		/01036-6771
473	01037	5236		JMP	.-1	/01037-5236
474	01040	6773	IOT32,	SDSQ		/01040-6773
475	01041	5245		JMP	.+4	/01041-5245
476	01042	4454		JMS I	XERROR	/01042-4454
477	01043	0014		0014		/01043-0014
478	01044	5274		JMP	QQLUP	/01044-5274
479	01045	6771	IOT33,	SDSS		/01045-6771
480	01046	7410		SKP		/01046-7410
481	01047	5245		JMP	.-2	/01047-5245
482	01050	6773	IOT34,	SDSQ		/01050-6773
483	01051	5255		JMP	.+4	/01051-5255
484	01052	4454		JMS I	XERROR	/01052-4454
485	01053	0014		0014		/01053-0014
486	01054	5274		JMP	QQLUP	/01054-5274
487	01055	6771	IOT35,	SDSS		/01055-6771
488	01056	5255		JMP	.-1	/01056-5255
489	01057	6773	IOT36,	SDSQ		/01057-6773
490	01060	5264		JMP	.+4	/01060-5264
491	01061	4454		JMS I	XERROR	/01061-4454
492	01062	0014		0014		/01062-0014
493	01063	5274		JMP	QQLUP	/01063-5274
494	01064	6771	IOT37,	SDSS		/01064-6771

495	01065	7410		SKP		/01065-7410
496	01066	5264		JMP	.-2	/01066-5264
497	01067	6773	IOT38,	SDSQ		/01067-6773
498	01070	7410		SKP		/01070-7410
499	01071	5274		JMP	QOLUP	/01071-5274
500	01072	4454		JMS I	XERROR	/01072-4454
501	01073	0115		0115		/01073-0115
502	01074	4445	QOLUP,	JMS I	XLAS	/01074-4445
503	01075	7710		SPA	CLA	/01075-7710
504	01076	5233		JMP	QUAD0-2	/01076-5233
505	01077	6773	QUAD1,	SDSQ		/01077-6773
506	01100	7410		SKP		/01100-7410
507	01101	5304		JMP	.+3	/01101-5304
508	01102	4454		JMS I	XERROR	/01102-4454
509	01103	0216		0216		/01103-0216
510	01104	4445		JMS I	XLAS	/01104-4445
511	01105	7710		SPA	CLA	/01105-7710
512	01106	5277		JMP	QUAD1	/01106-5277
513	01107	6773	QUAD2,	SDSQ		/01107-6773
514	01110	5307		JMP	.-1	/01110-5307
515	01111	6007		CAF		/01111-6007
516	01112	4445		JMS I	XLAS	/01112-4445
517	01113	7710		SPA	CLA	/01113-7710
518	01114	5307		JMP	QUAD2	/01114-5307
519	01115	6773	IOT39,	SDSQ		/01115-6773
520	01116	5324		JMP	1124	/01116-5324
521	01117	4454		JMS I	XERROR	/01117-4454
522	01120	0111		0111		/01120-0111
523	01121	4445		JMS I	XLAS	/01121-4445
524	01122	7710		SPA	CLA	/01122-7710
525	01123	5307		JMP	QUAD2	/01123-5307
526	01124	1377		TAD	(1000	/01124-1377
527	01125	6774	IOT40,	SDLCL		/01125-6774
528	01126	6773	QUAD3,	SDSQ		/01126-6773
529	01127	5326		JMP	.-1	/01127-5326
530	01130	7200		CLA		/01130-7200
531	01131	6775	IOT41,	SDLCL		/01131-6775
532	01132	4445		JMS I	XLAS	/01132-4445
533	01133	7710		SPA	CLA	/01133-7710
534	01134	5326		JMP	QUAD3	/01134-5326
535	01135	6773	IOT42,	SDSQ		/01135-6773
536	01136	5775		JMP I	(QUAD4	/01136-5775
537	01137	4454		JMS I	XERROR	/01137-4454
538	01140	0104		0104		/01140-0104
539	01141	4445		JMS I	XLAS	/01141-4445
540	01142	7710		SPA	CLA	/01142-7710
541	01143	5326		JMP	QUAD3	/01143-5326
542	01144	5775		JMP I	(QUAD4	/01144-5775
543						
544	01145	0000	INDIR,	0000		/01145-0000
545	01146	3031		DCA	IND	/01146-3031
546	01147	1431		TAD I	IND	/01147-1431
547	01150	5745		JMP I	INDIR	/01150-5745
548						
549	01151	0000	RDLAS,	0000		/01151-0000

550	01152	1022	TAD	X8SWI	/01152-1022
551	01153	7700	SMA	CLA	/01153-7700
552	01154	7604	CLA	OSR	/01154-7604
553	01155	1020	TAD	SOFLAS	/01155-1020
554	01156	5751	JMP	I RDLAS	/01156-5751
555	01175	1200			
556	01176	0601			
557	01177	1000			
558		1200			PAGE

559						
560	01200	6773	QUAD4,	SDSQ		/01200-6773
561	01201	5200		JMP	.-1	/01201-5200
562	01202	7200		CLA		/01202-7200
563	01203	6776	IOT43,	SDRC		/01203-6776
564	01204	4445		JMS I	XLAS	/01204-4445
565	01205	7710		SPA	CLA	/01205-7710
566	01206	5200		JMP	QUAD4	/01206-5200
567	01207	6773	IOT44,	SDSQ		/01207-6773
568	01210	5216		JMP	QUAD5	/01210-5216
569	01211	4454		JMS I	XERROR	/01211-4454
570	01212	0103		0103		/01212-0103
571	01213	4445		JMS I	XLAS	/01213-4445
572	01214	7710		SPA	CLA	/01214-7710
573	01215	5200		JMP	QUAD4	/01215-5200
574	01216	6773	QUAD5,	SDSQ		/01216-6773
575	01217	5216		JMP	.-1	/01217-5216
576	01220	7200		CLA		/01220-7200
577	01221	6777	IOT45,	SDRD		/01221-6777
578	01222	4445		JMS I	XLAS	/01222-4445
579	01223	7710		SPA	CLA	/01223-7710
580	01224	5216		JMP	QUAD5	/01224-5216
581	01225	6773	IOT46,	SDSQ		/01225-6773
582	01226	5234		JMP	QUAD6	/01226-5234
583	01227	4454		JMS I	XERROR	/01227-4454
584	01230	0105		0105		/01230-0105
585	01231	4445		JMS I	XLAS	/01231-4445
586	01232	7710		SPA	CLA	/01232-7710
587	01233	5216		JMP	QUAD5	/01233-5216
588	01234	6773	QUAD6,	SDSQ		/01234-6773
589	01235	5234		JMP	.-1	/01235-5234
590	01236	6772	IOT47,	SDST		/01236-6772
591	01237	7000		NOP		/01237-7000
592	01240	6771	IOT48,	SDSS		/01240-6771
593	01241	7000		NOP		/01241-7000
594	01242	7200		CLA		/01242-7200
595	01243	1377		TAD	(1000	/01243-1377
596	01244	6774	IOT49,	SDLC		/01244-6774
597	01245	4445		JMS I	XLAS	/01245-4445
598	01246	7710		SPA	CLA	/01246-7710
599	01247	5234		JMP	QUAD6	/01247-5234
600	01250	6773	IOT50,	SDSQ		/01250-6773
601	01251	7410		SKP		/01251-7410
602	01252	5260		JMP	QUAD7	/01252-5260
603	01253	4454		JMS I	XERROR	/01253-4454
604	01254	0217		0217		/01254-0217
605	01255	4445		JMS I	XLAS	/01255-4445
606	01256	7710		SPA	CLA	/01256-7710
607	01257	5234		JMP	QUAD6	/01257-5234
608	01260	7300	QUAD7,	CLA	CLL	/01260-7300
609	01261	1376		TAD	(-2	/01261-1376
610	01262	3036		DCA	CNTR1	/01262-3036
611	01263	6775	IOT51,	SDL		/01263-6775
612	01264	6771	IOT52,	SDSS		/01264-6771
613	01265	5264		JMP	.-1	/01265-5264

614	01266	6771	IOT53,	SDSS		/01266-6771
615	01267	7410		SKP		/01267-7410
616	01270	5267		JMP	.-1	/01270-5267 ?
617	01271	6771	IOT54,	SDSS		/01271-6771
618	01272	5271		JMP	.-1	/01272-5271
619	01273	2036		ISZ	CNTR1	/01273-2036
620	01274	5263		JMP	QUAD7+3	/01274-5263
621	01275	4445		JMS I	XLAS	/01275-4445
622	01276	7710		SPA	CLA	/01276-7710
623	01277	5260		JMP	QUAD7	/01277-5260
624	01300	6773	IOT55,	SDSQ		/01300-6773
625	01301	5304		JMP	.+3	/01301-5304
626	01302	4454		JMS I	XERROR	/01302-4454
627	01303	0020		0020		/01303-0020
628	01304	4445		JMS I	XLAS	/01304-4445
629	01305	7710		SPA	CLA	/01305-7710
630	01306	5260		JMP	QUAD7	/01306-5260
631	01307	4105		JMS	LOOP1	/01307-4105
632	01310	5775		JMP I	(QUAD+1	/01310-5775
633						
634	01311	2067	TIMING,	ISZ	HEAD1	/01311-2067
635	01312	7300		CLA	CLL	/01312-7300
636	01313	3066		DCA	HEAD2	/01313-3066
637	01314	6774		SDLC		/01314-6774
638	01315	1377		TAD	(1000	/01315-1377
639	01316	6774	IOT56,	SDLC		/01316-6774
640	01317	6771	IOT57,	SDSS		/01317-6771
641	01320	5317		JMP	.-1	/01320-5317
642	01321	6772	IOT58,	SDST		/01321-6772
643	01322	5325		JMP	TIME0	/01322-5325
644	01323	4454		JMS I	XERROR	/01323-4454
645	01324	0321		0321		/01324-0321
646	01325	6773	TIME0,	SDSQ		/01325-6773
647	01326	5325		JMP	.-1	/01326-5325
648	01327	7200		CLA		/01327-7200
649	01330	3036		DCA	CNTR1	/01330-3036
650	01331	2036		ISZ	CNTR1	/01331-2036
651	01332	5331		JMP	.-1	/01332-5331
652	01333	6772	IOT59,	SDST		/01333-6772
653	01334	7410		SKP		/01334-7410
654	01335	5343		JMP	TIME1	/01335-5343
655	01336	4454		JMS I	XERROR	/01336-4454
656	01337	0122		0122		/01337-0122
657	01340	4445		JMS I	XLAS	/01340-4445
658	01341	7710		SPA	CLA	/01341-7710
659	01342	5325		JMP	TIME0	/01342-5325
660	01343	6772	TIME1,	SDST		/01343-6772
661	01344	7410		SKP		/01344-7410
662	01345	5350		JMP	.+3	/01345-5350
663	01346	4454		JMS I	XERROR	/01346-4454
664	01347	0223		0223		/01347-0223
665	01350	4445		JMS I	XLAS	/01350-4445
666	01351	7710		SPA	CLA	/01351-7710
667	01352	5343		JMP	TIME1	/01352-5343
668	01353	5774		JMP I	(TIME2	/01353-5774

669	01374	1400	
670	01375	1024	
671	01376	7776	
672	01377	1000	
673		1400	PAGE

674						
675	01400	6772	TIME2,	SDST		/01400-6772
676	01401	5200		JMP	.-1	/01401-5200
677	01402	6007		CAF		/01402-6007
678	01403	4445		JMS I	XLAS	/01403-4445
679	01404	7710		SPA	CLA	/01404-7710
680	01405	5200		JMP	TIME2	/01405-5200
681	01406	6772	IOT60,	SDST		/01406-6772
682	01407	5215		JMP	TIME3-2	/01407-5215
683	01410	4454		JMS I	XERROR	/01410-4454
684	01411	0111		0111		/01411-0111
685	01412	4445		JMS I	XLAS	/01412-4445
686	01413	7710		SPA	CLA	/01413-7710
687	01414	5200		JMP	TIME2	/01414-5200
688	01415	1377		TAD	(1000	/01415-1377
689	01416	6774	IOT61,	SDLC		/01416-6774
690	01417	6772	TIME3,	SDST		/01417-6772
691	01420	5217		JMP	.-1	/01420-5217
692	01421	6776	IOT62,	SDRC		/01421-6776
693	01422	3035		DCA	IN	/01422-3035
694	01423	4445		JMS I	XLAS	/01423-4445
695	01424	7710		SPA	CLA	/01424-7710
696	01425	5217		JMP	TIME3	/01425-5217
697	01426	1035		TAD	IN	/01426-1035
698	01427	0376		AND	(100	/01427-0376
699	01430	7640		SZA	CLA	/01430-7640
700	01431	5237		JMP	TIME4-2	/01431-5237
701	01432	4454		JMS I	XERROR	/01432-4454
702	01433	0024		0024		/01433-0024
703	01434	4445		JMS I	XLAS	/01434-4445
704	01435	7710		SPA	CLA	/01435-7710
705	01436	5217		JMP	TIME3	/01436-5217
706	01437	1377		TAD	(1000	/01437-1377
707	01440	6774	IOT63,	SDLC		/01440-6774
708	01441	6772	TIME4,	SDST		/01441-6772
709	01442	5241		JMP	.-1	/01442-5241
710	01443	6774	IOT64,	SDLC		/01443-6774
711	01444	4445		JMS I	XLAS	/01444-4445
712	01445	7710		SPA	CLA	/01445-7710
713	01446	5241		JMP	TIME4	/01446-5241
714	01447	6772	IOT65,	SDST		/01447-6772
715	01450	5256		JMP	TIME5	/01450-5256
716	01451	4454		JMS I	XERROR	/01451-4454
717	01452	0102		0102		/01452-0102
718	01453	4445		JMS I	XLAS	/01453-4445
719	01454	7710		SPA	CLA	/01454-7710
720	01455	5241		JMP	TIME4	/01455-5241
721	01456	7300	TIME5,	CLA	CLL	/01456-7300
722	01457	1375		TAD	(3000	/01457-1375
723	01460	6774	IOT66,	SDLC		/01460-6774
724	01461	4774		JMS I	(HANG	/01461-4774 ?
725	01462	6771	IOT67,	SDSS		/01462-6771
726	01463	5261		JMP	.-2	/01463-5261
727	01464	6776	IOT68,	SDRC		/01464-6776
728	01465	0373		AND	(77	/01465-0373

729	01466	1372	TAD	(-22	/01466-1372
730	01467	7640	SZA	CLA	/01467-7640
731	01470	5261	JMP	.-7	/01470-5261
732	01471	6776	IOT69,	SDRC	/01471-6776
733	01472	0371	AND	(7000	/01472-0371
734	01473	1061	TAD	C400	/01473-1061
735	01474	6774	IOT70,	SDLC	/01474-6774
736	01475	3036	DCA	CNTR1	/01475-3036
737	01476	2036	ISZ	CNTR1	/01476-2036
738	01477	5276	JMP	.-1	/01477-5276
739	01500	6772	IOT71,	SDST	/01500-6772
740	01501	7410	SKP		/01501-7410
741	01502	5305	JMP	.+3	/01502-5305
742	01503	4454	JMS I	XERROR	/01503-4454
743	01504	0125		0125	/01504-0125
744	01505	6776	IOT72,	SDRC	/01505-6776
745	01506	0061	AND	C400	/01506-0061
746	01507	7640	SZA	CLA	/01507-7640
747	01510	7410	SKP		/01510-7410
748	01511	5314	JMP	.+3	/01511-5314
749	01512	4454	JMS I	XERROR	/01512-4454
750	01513	0026		0026	/01513-0026
751	01514	4445	JMS I	XLAS	/01514-4445
752	01515	7710	SPA	CLA	/01515-7710
753	01516	5256	JMP	TIME5	/01516-5256
754	01517	7300	TIME6,	CLA CLL	/01517-7300
755	01520	1377	TAD	(1000	/01520-1377
756	01521	6774	IOT73,	SDLC	/01521-6774
757	01522	6771	IOT74,	SDSS	/01522-6771
758	01523	5322	JMP	.-1	/01523-5322
759	01524	1370	TAD	(-5	/01524-1370
760	01525	3037	DCA	CNTR2	/01525-3037
761	01526	3036	DCA	CNTR1	/01526-3036
762	01527	6776	IOT75,	SDRC	/01527-6776
763	01530	6777	IOT76,	SDRD	/01530-6777
764	01531	6775	IOT77,	SDL	/01531-6775
765	01532	2036	ISZ	CNTR1	/01532-2036
766	01533	5327	JMP	.-4	/01533-5327
767	01534	2037	ISZ	CNTR2	/01534-2037
768	01535	5327	JMP	.-6	/01535-5327
769	01536	4445	JMS I	XLAS	/01536-4445
770	01537	7710	SPA	CLA	/01537-7710
771	01540	5325	JMP	TIME6+6	/01540-5325 ?
772	01541	6772	IOT78,	SDST	/01541-6772
773	01542	7410	SKP		/01542-7410
774	01543	5346	JMP	.-3	/01543-5346
775	01544	4454	JMS I	XERROR	/01544-4454
776	01545	0027		0027	/01545-0027
777	01546	4445	JMS I	XLAS	/01546-4445
778	01547	7710	SPA	CLA	/01547-7710
779	01550	5317	JMP	TIME6	/01550-5317
780	01551	4105	JMS	LOOP1	/01551-4105
781	01552	5767	JMP I	(TIMING+1	/01552-5767
782	01553	5766	JMP I	(UTSMRK	/01553-5766
783	01566	1600			

784	01567	1312	
785	01570	7773	
786	01571	7000	
787	01572	7756	
788	01573	0077	
789	01574	2350	
790	01575	3000	
791	01576	0100	
792	01577	1000	
793		1600	PAGE

794						
795	01600	2067	UTSMRK,	ISZ	HEAD1	/01600-2067
796	01601	7300		CLA	CLL	/01601-7300
797	01602	3066		DCA	HEAD2	/01602-3066
798	01603	6774	IOT82,	SDLC		/01603-6774
799	01604	1377		TAD	(1000	/01604-1377
800	01605	6774	IOT83,	SDLC		/01605-6774
801	01606	4445		JMS	I XLAS	/01606-4445
802	01607	7710		SPA	CLA	/01607-7710
803	01610	5201		JMP	UTSMRK+1	/01610-5201
804	01611	6776	IOT84,	SDRC		/01611-6776
805	01612	0376		AND	(77	/01612-0376
806	01613	7440		SZA		/01613-7440
807	01614	7410		SKP		/01614-7410
808	01615	5220		JMP	.+3	/01615-5220
809	01616	4454		JMS	I XERROR	/01616-4454
810	01617	0130		0130		/01617-0130
811	01620	4445		JMS	I XLAS	/01620-4445
812	01621	7710		SPA	CLA	/01621-7710
813	01622	5201		JMP	UTSMRK+1	/01622-5201
814	01623	7300	UTSMK1,	CLA	CLL	/01623-7300
815	01624	1377		TAD	(1000	/01624-1377
816	01625	6774	IOT85,	SDLC		/01625-6774
817	01626	6771	IOT86,	SDSS		/01626-6771
818	01627	5226		JMP	.-1	/01627-5226
819	01630	6776	IOT87,	SDRC		/01630-6776
820	01631	0376		AND	(77	/01631-0376
821	01632	7650		SNA	CLA	/01632-7650
822	01633	5226		JMP	.-5	/01633-5226
823	01634	6774	IOT88,	SDLC		/01634-6774
824	01635	4445		JMS	I XLAS	/01635-4445
825	01636	7710		SPA	CLA	/01636-7710
826	01637	5223		JMP	UTSMK1	/01637-5223
827	01640	6776	IOT89,	SDRC		/01640-6776
828	01641	0376		AND	(77	/01641-0376
829	01642	7440		SZA		/01642-7440
830	01643	7410		SKP		/01643-7410
831	01644	5247		JMP	.+3	/01644-5247
832	01645	4454		JMS	I XERROR	/01645-4454
833	01646	0131		0131		/01646-0131
834	01647	4445		JMS	I XLAS	/01647-4445
835	01650	7710		SPA	CLA	/01650-7710
836	01651	5223		JMP	UTSMK1	/01651-5223
837	01652	7300	UTSMK2,	CLA	CLL	/01652-7300
838	01653	1375		TAD	(3000	/01653-1375
839	01654	6774	IOT90,	SDLC		/01654-6774
840	01655	6771	IOT91,	SDSS		/01655-6771
841	01656	5255		JMP	.-1	/01656-5255
842	01657	6776	IOT92,	SDRC		/01657-6776
843	01660	0376		AND	(77	/01660-0376
844	01661	7650		SNA	CLA	/01661-7650
845	01662	5255		JMP	.-5	/01662-5255
846	01663	1377		TAD	(1000	/01663-1377
847	01664	6774	IOT93,	SDLC		/01664-6774
848	01665	4445		JMS	I XLAS	/01665-4445

849	01666	7710		SPA	CLA	/01666-7710
850	01667	5252		JMP	UTSMK2	/01667-5252
851	01670	6776	IOT94,	SDRC		/01670-6776
852	01671	0376		AND	(77	/01671-0376
853	01672	7440		SZA		/01672-7440
854	01673	7410		SKP		/01673-7410
855	01674	5277		JMP	.+3	/01674-5277
856	01675	4454		JMS	I XERROR	/01675-4454
857	01676	0132			0132	/01676-0132
858	01677	4445		JMS	I XLAS	/01677-4445
859	01700	7710		SPA	CLA	/01700-7710
860	01701	5252		JMP	UTSMK2	/01701-5252
861	01702	7300	UTSMK3,	CLA	CLL	/01702-7300
862	01703	1377		TAD	(1000	/01703-1377
863	01704	6774	IOT95,	SDLC		/01704-6774
864	01705	6771	IOT96,	SDSS		/01705-6771
865	01706	5305		JMP	.-1	/01706-5305
866	01707	6776	IOT97,	SDRC		/01707-6776
867	01710	0376		AND	(77	/01710-0376
868	01711	7650		SNA	CLA	/01711-7650
869	01712	5305		JMP	.-5	/01712-5305
870	01713	1375		TAD	(3000	/01713-1375
871	01714	6774	IOT98,	SDLC		/01714-6774
872	01715	4445		JMS	I XLAS	/01715-4445
873	01716	7710		SPA	CLA	/01716-7710
874	01717	5302		JMP	UTSMK3	/01717-5302
875	01720	6776	IOT99,	SDRC		/01720-6776
876	01721	0376		AND	(77	/01721-0376
877	01722	7440		SZA		/01722-7440
878	01723	7410		SKP		/01723-7410
879	01724	5327		JMP	.+3	/01724-5327
880	01725	4454		JMS	I XERROR	/01725-4454
881	01726	0133			0133	/01726-0133
882	01727	4445		JMS	I XLAS	/01727-4445
883	01730	7710		SPA	CLA	/01730-7710
884	01731	5302		JMP	UTSMK3	/01731-5302
885	01732	5774		JMP	I (UTSMK4	/01732-5774
886	01774	2000				
887	01775	3000				
888	01776	0077				
889	01777	1000				
890		2000	PAGE			

891						
892	02000	7300	UTSMK4,	CLA	CLL	/02000-7300
893	02001	1377		TAD	(1000	/02001-1377
894	02002	6774	IOT100,	SDLC		/02002-6774
895	02003	6771	IOT101,	SDSS		/02003-6771
896	02004	5203		JMP	.-1	/02004-5203
897	02005	6776	IOT102,	SDRC		/02005-6776
898	02006	0376		AND	(77	/02006-0376
899	02007	7650		SNA	CLA	/02007-7650
900	02010	5203		JMP	.-5	/02010-5203
901	02011	1375		TAD	(5000	/02011-1375
902	02012	6774	IOT103,	SDLC		/02012-6774
903	02013	4445		JMS	I XLAS	/02013-4445
904	02014	7710		SPA	CLA	/02014-7710
905	02015	5200		JMP	UTSMK4	/02015-5200
906	02016	6776	IOT104,	SDRC		/02016-6776
907	02017	0376		AND	(77	/02017-0376
908	02020	7440		SZA		/02020-7440
909	02021	7410		SKP		/02021-7410
910	02022	5225		JMP	.+3	/02022-5225
911	02023	4454		JMS	I XERROR	/02023-4454
912	02024	0134		0134		/02024-0134
913	02025	4445		JMS	I XLAS	/02025-4445
914	02026	7710		SPA	CLA	/02026-7710
915	02027	5200		JMP	UTSMK4	/02027-5200
916	02030	4445		JMS	I XLAS	/02030-4445
917	02031	7010		RAR		/02031-7010
918	02032	7630		SZL	CLA	/02032-7630
919	02033	5264		JMP	UTSMK6	/02033-5264
920	02034	7300	UTSMK5,	CLA	CLL	/02034-7300
921	02035	1375		TAD	(5000	/02035-1375
922	02036	6774	IOT105,	SDLC		/02036-6774
923	02037	6771	IOT106,	SDSS		/02037-6771
924	02040	5237		JMP	.-1	/02040-5237
925	02041	6776	IOT107,	SDRC		/02041-6776
926	02042	0376		AND	(77	/02042-0376
927	02043	7650		SNA	CLA	/02043-7650
928	02044	5237		JMP	.-5	/02044-5237
929	02045	1377		TAD	(1000	/02045-1377
930	02046	6774	IOT108,	SDLC		/02046-6774
931	02047	4445		JMS	I XLAS	/02047-4445
932	02050	7710		SPA	CLA	/02050-7710
933	02051	5234		JMP	UTSMK5	/02051-5234
934	02052	6776	IOT109,	SDRC		/02052-6776
935	02053	0376		AND	(77	/02053-0376
936	02054	7440		SZA		/02054-7440
937	02055	7410		SKP		/02055-7410
938	02056	5261		JMP	.+3	/02056-5261
939	02057	4454		JMS	I XERROR	/02057-4454
940	02060	0135		0135		/02060-0135
941	02061	4445		JMS	I XLAS	/02061-4445
942	02062	7710		SPA	CLA	/02062-7710
943	02063	5234		JMP	UTSMK5	/02063-5234
944	02064	4105	UTSMK6,	JMS	LOOP1	/02064-4105
945	02065	5774		JMP	I (UTSMRK+1	/02065-5774

946	02066	1062		TAD	C4000	/02066-1062
947	02067	6774	IOT110,	SDL		/02067-6774
948	02070	4445		JMS I	XLAS	/02070-4445
949	02071	7006		RTL		/02071-7006
950	02072	7710		SPA	CLA	/02072-7710
951	02073	5773		JMP I	(DATREG	/02073-5773
952	02074	4446		JMS I	X8A	/02074-4446
953	02075	5772		JMP I	(XFER	/02075-5772
954		2100	*2100			
955	02100	7300	BLKCH,	CLA	CLL	/02100-7300
956	02101	3115		DCA	DISBL	/02101-3115
957	02102	1166		TAD	[-2702	/02102-1166
958	02103	3117		DCA	BLKCN	/02103-3117
959	02104	4120		JMS	BLKREV	/02104-4120
960	02105	4127		JMS	BLKEND	/02105-4127
961	02106	1165		TAD	[1000	/02106-1165
962	02107	1771		TAD I	(UNIT	/02107-1771
963	02110	6774	IOT171,	SDL		/02110-6774
964	02111	4770		JMS I	(RDQUAD	/02111-4770
965	02112	4770		JMS I	(RDQUAD	/02112-4770
966	02113	4140	FBLKCT,	JMS	BLKSER	/02113-4140
967	02114	1116		TAD	DISDA	/02114-1116
968	02115	7041		CMA	IAC	/02115-7041
969	02116	1115		TAD	DISBL	/02116-1115
970	02117	7640		SZA	CLA	/02117-7640
971	02120	5346		JMP	BLKERR	/02120-5346
972	02121	2115		ISZ	DISBL	/02121-2115
973	02122	2117		ISZ	BLKCN	/02122-2117
974	02123	5313		JMP	FBLKCT	/02123-5313
975	02124	4127		JMS	BLKEND	/02124-4127
976	02125	1164		TAD	[2701	/02125-1164
977	02126	3115		DCA	DISBL	/02126-3115
978	02127	1166		TAD	[-2702	/02127-1166
979	02130	3117		DCA	BLKCN	/02130-3117
980	02131	4120		JMS	BLKREV	/02131-4120
981	02132	4140	RBLKCT,	JMS	BLKSER	/02132-4140
982	02133	1116		TAD	DISDA	/02133-1116
983	02134	7041		CMA	IAC	/02134-7041
984	02135	1115		TAD	DISBL	/02135-1115
985	02136	7640		SZA	CLA	/02136-7640
986	02137	5346		JMP	BLKERR	/02137-5346
987	02140	7040		CMA		/02140-7040
988	02141	1115		TAD	DISBL	/02141-1115
989	02142	3115		DCA	DISBL	/02142-3115
990	02143	2117		ISZ	BLKCN	/02143-2117
991	02144	5332		JMP	RBLKCT	/02144-5332
992	02145	5300		JMP	BLKCH	/02145-5300
993						
994	02146	7300	BLKERR,	CLA	CLL	/02146-7300
995	02147	1115		TAD	DISBL	/02147-1115
996	02150	7402		HLT		/02150-7402
997	02151	7200		CLA		/02151-7200
998	02152	1116		TAD	DISDA	/02152-1116
999	02153	7402		HLT		/02153-7402
1000	02154	5300		JMP	BLKCH	/02154-5300

1001	02170	4707	
1002	02171	2234	
1003	02172	3000	
1004	02173	0201	
1005	02174	1601	
1006	02175	5000	
1007	02176	0077	
1008	02177	1000	
1009		2200	PAGE

1010						
1011	02200	7300	DBLOCK,	CLA	CLL	/02200-7300
1012	02201	3233		DCA	DISBLK	/02201-3233
1013	02202	1377		TAD	(3000	/02202-1377
1014	02203	1234		TAD	UNIT	/02203-1234
1015	02204	6774	IOT111,	SDLC		/02204-6774
1016	02205	7300		CLA	CLL	/02205-7300
1017	02206	6771	DISLUP,	SDSS		/02206-6771
1018	02207	5206		JMP	.-1	/02207-5206
1019	02210	7300		CLA	CLL	/02210-7300
1020	02211	6777	IOT112,	SDRD		/02211-6777
1021	02212	3236		DCA	DISDAT	/02212-3236
1022	02213	6776	IOT113,	SDRC		/02213-6776
1023	02214	0376		AND	(77	/02214-0376
1024	02215	1375		TAD	(-26	/02215-1375
1025	02216	7440		SZA		/02216-7440
1026	02217	5224		JMP	DISEND	/02217-5224
1027	02220	1236		TAD	DISDAT	/02220-1236
1028	02221	2233		ISZ	DISBLK	/02221-2233
1029	02222	5221		JMP	.-1	/02222-5221
1030	02223	5206		JMP	DISLUP	/02223-5206
1031	02224	1374	DISEND,	TAD	(4	/02224-1374
1032	02225	7640		SZA	CLA	/02225-7640
1033	02226	5206		JMP	DISLUP	/02226-5206
1034	02227	6776	IOT114,	SDRC		/02227-6776
1035	02230	7006		RTL		/02230-7006
1036	02231	7032		CML	RTR	/02231-7032
1037	02232	5204		JMP	DISLUP-2	/02232-5204
1038	02233	0000	DISBLK,	0000		/02233-0000
1039	02234	0000	UNIT,	0000		/02234-0000
1040	02235	0000	DISTRK,	0000		/02235-0000
1041	02236	0000	DISDAT,	0000		/02236-0000
1042						
1043	02237	7300	ROCK,	CLA	CLL	/02237-7300
1044	02240	1373		TAD	(1000	/02240-1373
1045	02241	6774	IOT115,	SDLC		/02241-6774
1046	02242	4445		JMS	I XLAS	/02242-4445
1047	02243	7040		CMA		/02243-7040
1048	02244	3001		DCA	0001	/02244-3001
1049	02245	2000		ISZ	0000	/02245-2000
1050	02246	5245		JMP	.-1	/02246-5245
1051	02247	2001		ISZ	0001	/02247-2001
1052	02250	5245		JMP	.-3	/02250-5245
1053	02251	7000		NOP		/02251-7000
1054	02252	1377		TAD	(3000	/02252-1377
1055	02253	6774	IOT116,	SDLC		/02253-6774
1056	02254	4445		JMS	I XLAS	/02254-4445
1057	02255	7040		CMA		/02255-7040
1058	02256	3001		DCA	0001	/02256-3001
1059	02257	2000		ISZ	0000	/02257-2000
1060	02260	5257		JMP	.-1	/02260-5257
1061	02261	2001		ISZ	0001	/02261-2001
1062	02262	5257		JMP	.-3	/02262-5257
1063	02263	5240		JMP	ROCK+1	/02263-5240
1064						

1065	02264	0000	MESSAGE,	0000		/02264-0000
1066	02265	7440		SZA		/02265-7440
1067	02266	5273		JMP	MLOOP-1	/02266-5273
1068	02267	1664		TAD	I MESSAGE	/02267-1664
1069	02270	2264		ISZ	MESSAGE	/02270-2264
1070	02271	7450		SNA		/02271-7450
1071	02272	5664		JMP	I MESSAGE	/02272-5664
1072	02273	3033		DCA	MPNTR	/02273-3033
1073	02274	1433	MLOOP,	TAD	I MPNTR	/02274-1433
1074	02275	7012		RTR		/02275-7012
1075	02276	7012		RTR		/02276-7012
1076	02277	7012		RTR		/02277-7012
1077	02300	4305		JMS	MHALF	/02300-4305
1078	02301	1433		TAD	I MPNTR	/02301-1433
1079	02302	4305		JMS	MHALF	/02302-4305
1080	02303	2033		ISZ	MPNTR	/02303-2033
1081	02304	5274		JMP	MLOOP	/02304-5274
1082						
1083	02305	0000	MHALF,	0000		/02305-0000
1084	02306	0057		AND	C77	/02306-0057
1085	02307	7450		SNA		/02307-7450
1086	02310	5664		JMP	I MESSAGE	/02310-5664
1087	02311	1372		TAD	(-37	/02311-1372
1088	02312	7450		SNA		/02312-7450
1089	02313	5322		JMP	MCRLF	/02313-5322
1090	02314	1371		TAD	(-1	/02314-1371
1091	02315	7510		SPA		/02315-7510
1092	02316	1370		TAD	(100	/02316-1370
1093	02317	1063		TAD	C240	/02317-1063
1094	02320	4070		JMS	TYPE	/02320-4070
1095	02321	5705		JMP	I MHALF	/02321-5705
1096						
1097	02322	4077	MCRLF,	JMS	CRLF	/02322-4077
1098	02323	5705		JMP	I MHALF	/02323-5705
1099						
1100	02324	0000	OPRINT,	0000		/02324-0000
1101	02325	3346		DCA	ONUMB	/02325-3346
1102	02326	1367		TAD	(-4	/02326-1367
1103	02327	3347		DCA	OCNT	/02327-3347
1104	02330	1346		TAD	ONUMB	/02330-1346
1105	02331	7004		RAL		/02331-7004
1106	02332	7004	OPLOOP,	RAL		/02332-7004
1107	02333	7006		RTL		/02333-7006
1108	02334	3346		DCA	ONUMB	/02334-3346
1109	02335	1346		TAD	ONUMB	/02335-1346
1110	02336	0366		AND	(7	/02336-0366
1111	02337	1365		TAD	(260	/02337-1365
1112	02340	4070		JMS	TYPE	/02340-4070
1113	02341	1346		TAD	ONUMB	/02341-1346
1114	02342	2347		ISZ	OCNT	/02342-2347
1115	02343	5332		JMP	OPLOOP	/02343-5332
1116	02344	7200		CLA		/02344-7200
1117	02345	5724		JMP	I OPRINT	/02345-5724
1118	02346	0000	ONUMB,	0000		/02346-0000
1119	02347	0000	OCNT,	0000		/02347-0000

1120						
1121	02350	0000	HANG,	0000		/02350-0000
1122	02351	2055		ISZ	HANG1	/02351-2055
1123	02352	5750		JMP I	HANG	/02352-5750
1124	02353	2056		ISZ	HANG2	/02353-2056
1125	02354	5750		JMP I	HANG	/02354-5750
1126	02355	1364		TAD	(-40	/02355-1364
1127	02356	3056		DCA	HANG2	/02356-3056
1128	02357	4446		JMS I	X8A	/02357-4446
1129	02360	5750		JMP I	HANG	/02360-5750
1130	02364	7740				
1131	02365	0260				
1132	02366	0007				
1133	02367	7774				
1134	02370	0100				
1135	02371	7777				
1136	02372	7741				
1137	02373	1000				
1138	02374	0004				
1139	02375	7752				
1140	02376	0077				
1141	02377	3000				
1142		2400	PAGE			

1143						
1144	02400	7300	BLKCHK,	CLA	CLL	/02400-7300
1145	02401	1377		TAD	(3000	/02401-1377
1146	02402	6774	IOT117,	SDLC		/02402-6774
1147	02403	4315		JMS	RD6MRK	/02403-4315
1148	02404	4307	ENDZ,	JMS	RD1MRK	/02404-4307
1149	02405	1376		TAD	(-22	/02405-1376
1150	02406	7640		SZA	CLA	/02406-7640
1151	02407	5204		JMP	.-3	/02407-5204
1152	02410	6776	IOT118,	SDRC		/02410-6776
1153	02411	7006		RTL		/02411-7006
1154	02412	7032		CML	RTR	/02412-7032
1155	02413	6774	IOT119,	SDLC		/02413-6774
1156	02414	4315		JMS	RD6MRK	/02414-4315
1157	02415	4307		JMS	RD1MRK	/02415-4307
1158	02416	1375		TAD	(-26	/02416-1375
1159	02417	7650		SNA	CLA	/02417-7650
1160	02420	5236		JMP	RVGARD	/02420-5236
1161	02421	5215		JMP	.-4	/02421-5215
1162	02422	4315	FWDEXP,	JMS	RD6MRK	/02422-4315
1163	02423	1374		TAD	(-25	/02423-1374
1164	02424	7440		SZA		/02424-7440
1165	02425	7402		HLT		/02425-7402
1166	02426	4315	BLKMRK,	JMS	RD6MRK	/02426-4315
1167	02427	1375		TAD	(-26	/02427-1375
1168	02430	7450		SNA		/02430-7450
1169	02431	5236		JMP	RVGARD	/02431-5236
1170	02432	7001		IAC		/02432-7001
1171	02433	7440		SZA		/02433-7440
1172	02434	7402		HLT		/02434-7402
1173	02435	5204		JMP	ENDZ	/02435-5204
1174	02436	4315	RVGARD,	JMS	RD6MRK	/02436-4315
1175	02437	1373		TAD	(-32	/02437-1373
1176	02440	7440		SZA		/02440-7440
1177	02441	7402		HLT		/02441-7402
1178	02442	1372		TAD	(-4	/02442-1372
1179	02443	3000		DCA	0	/02443-3000
1180	02444	4315		JMS	RD6MRK	/02444-4315
1181	02445	1371	LOCK,	TAD	(-10	/02445-1371
1182	02446	7440		SZA		/02446-7440
1183	02447	7402		HLT		/02447-7402
1184	02450	2000		ISZ	0	/02450-2000
1185	02451	5244		JMP	.-5	/02451-5244
1186	02452	1370	DATA,	TAD	(-122	/02452-1370
1187	02453	3000		DCA	0	/02453-3000
1188	02454	4315		JMS	RD6MRK	/02454-4315
1189	02455	1367		TAD	(-70	/02455-1367
1190	02456	7440		SZA		/02456-7440
1191	02457	7402		HLT		/02457-7402
1192	02460	2000		ISZ	0	/02460-2000
1193	02461	5254		JMP	.-5	/02461-5254
1194	02462	1372	PREFIN,	TAD	(-4	/02462-1372
1195	02463	3000		DCA	0	/02463-3000
1196	02464	4315		JMS	RD6MRK	/02464-4315
1197	02465	1366		TAD	(-73	/02465-1366

1198	02466	7440		SZA		/02466-7440
1199	02467	7402		HLT		/02467-7402
1200	02470	2000		ISZ	0	/02470-2000
1201	02471	5264		JMP	.-5	/02471-5264
1202	02472	4315	GUARD,	JMS	RD6MRK	/02472-4315
1203	02473	1365		TAD	(-51	/02473-1365
1204	02474	7440		SZA		/02474-7440
1205	02475	7402		HLT		/02475-7402
1206	02476	4315	REVBLK,	JMS	RD6MRK	/02476-4315
1207	02477	1364		TAD	(-45	/02477-1364
1208	02500	7440		SZA		/02500-7440
1209	02501	7402		HLT		/02501-7402
1210	02502	4315	REVEXP,	JMS	RD6MRK	/02502-4315
1211	02503	1374		TAD	(-25	/02503-1374
1212	02504	7440		SZA		/02504-7440
1213	02505	7402		HLT		/02505-7402
1214	02506	5222		JMP	FWDEXP	/02506-5222
1215						
1216	02507	0000	RD1MRK,	0		/02507-0000
1217	02510	6771	IOT120,	SDSS		/02510-6771
1218	02511	5310		JMP	.-1	/02511-5310
1219	02512	6776	IOT121,	SDRC		/02512-6776
1220	02513	0363		AND	(77	/02513-0363
1221	02514	5707		JMP I	RD1MRK	/02514-5707
1222						
1223	02515	0000	RD6MRK,	0		/02515-0000
1224	02516	1362		TAD	(-6	/02516-1362
1225	02517	3307		DCA	RD1MRK	/02517-3307
1226	02520	6771	IOT122,	SDSS		/02520-6771
1227	02521	5320		JMP	.-1	/02521-5320
1228	02522	6776	IOT123,	SDRC		/02522-6776
1229	02523	2307		ISZ	RD1MRK	/02523-2307
1230	02524	5320		JMP	.-4	/02524-5320
1231	02525	0363		AND	(77	/02525-0363
1232	02526	5715		JMP I	RD6MRK	/02526-5715
1233	02562	7772				
1234	02563	0077				
1235	02564	7733				
1236	02565	7727				
1237	02566	7705				
1238	02567	7710				
1239	02570	7656				
1240	02571	7770				
1241	02572	7774				
1242	02573	7746				
1243	02574	7753				
1244	02575	7752				
1245	02576	7756				
1246	02577	3000				
1247		2600	PAGE			

1248						
1249	02600	7300	SELECT,	CLA	CLL	/02600-7300
1250	02601	4447		JMS	I X8C	/02601-4447
1251	02602	3067		DCA	HEAD1	/02602-3067
1252	02603	3066		DCA	HEAD2	/02603-3066
1253	02604	6774	IOT124,	SDLC		/02604-6774
1254	02605	6772	IOT125,	SDST		/02605-6772
1255	02606	5211		JMP	.+3	/02606-5211
1256	02607	4454		JMS	I XERROR	/02607-4454
1257	02610	2036		2036		/02610-2036
1258	02611	1062		TAD	C4000	/02611-1062
1259	02612	6774	IOT126,	SDLC		/02612-6774
1260	02613	7200		CLA		/02613-7200
1261	02614	6776	IOT127,	SDRC		/02614-6776
1262	02615	3035		DCA	IN	/02615-3035
1263	02616	4445		JMS	I XLAS	/02616-4445
1264	02617	7710		SPA	CLA	/02617-7710
1265	02620	5200		JMP	SELECT	/02620-5200
1266	02621	1035		TAD	IN	/02621-1035
1267	02622	0377		AND	(100	/02622-0377
1268	02623	7640		SZA	CLA	/02623-7640
1269	02624	5227		JMP	.+3	/02624-5227
1270	02625	4454		JMS	I XERROR	/02625-4454
1271	02626	2037		2037		/02626-2037
1272	02627	4445		JMS	I XLAS	/02627-4445
1273	02630	7710		SPA	CLA	/02630-7710
1274	02631	5200		JMP	SELECT	/02631-5200
1275	02632	1376	SELCT1,	TAD	(4400	/02632-1376
1276	02633	6774	IOT128,	SDLC		/02633-6774
1277	02634	4445		JMS	I XLAS	/02634-4445
1278	02635	7710		SPA	CLA	/02635-7710
1279	02636	5232		JMP	SELCT1	/02636-5232
1280	02637	6776	IOT129,	SDRC		/02637-6776
1281	02640	3035		DCA	IN	/02640-3035
1282	02641	1035		TAD	IN	/02641-1035
1283	02642	0061		AND	C400	/02642-0061
1284	02643	7650		SNA	CLA	/02643-7650
1285	02644	5247		JMP	.+3	/02644-5247
1286	02645	4454		JMS	I XERROR	/02645-4454
1287	02646	2040		2040		/02646-2040
1288	02647	4445		JMS	I XLAS	/02647-4445
1289	02650	7710		SPA	CLA	/02650-7710
1290	02651	5232		JMP	SELCT1	/02651-5232
1291	02652	6774	SELCT2,	SDLC		/02652-6774
1292	02653	4445		JMS	I XLAS	/02653-4445
1293	02654	7710		SPA	CLA	/02654-7710
1294	02655	5252		JMP	SELCT2	/02655-5252
1295	02656	6776	IOT130,	SDRC		/02656-6776
1296	02657	3035		DCA	IN	/02657-3035
1297	02660	1035		TAD	IN	/02660-1035
1298	02661	0377		AND	(100	/02661-0377
1299	02662	7650		SNA	CLA	/02662-7650
1300	02663	5266		JMP	.+3	/02663-5266
1301	02664	4454		JMS	I XERROR	/02664-4454
1302	02665	2047		2047		/02665-2047

1303	02666	4445		JMS I XLAS	/02666-4445
1304	02667	7710		SPA CLA	/02667-7710
1305	02670	5252		JMP SELECT2	/02670-5252
1306	02671	4105		JMS LOOP1	/02671-4105
1307	02672	5200		JMP SELECT	/02672-5200
1308					
1309	02673	2067		ISZ HEAD1	/02673-2067
1310	02674	7300	WL0,	CLA CLL	/02674-7300
1311	02675	3066		DCA HEAD2	/02675-3066
1312	02676	6774		SDLC	/02676-6774
1313	02677	6776	IOT131,	SDRC	/02677-6776
1314	02700	3035		DCA IN	/02700-3035
1315	02701	4445		JMS I XLAS	/02701-4445
1316	02702	7710		SPA CLA	/02702-7710
1317	02703	5274		JMP WL0	/02703-5274
1318	02704	1035		TAD IN	/02704-1035
1319	02705	0064		AND C200	/02705-0064
1320	02706	7640		SZA CLA	/02706-7640
1321	02707	5312		JMP .+3	/02707-5312
1322	02710	4454		JMS I XERROR	/02710-4454
1323	02711	2041		2041	/02711-2041
1324	02712	4445		JMS I XLAS	/02712-4445
1325	02713	7710		SPA CLA	/02713-7710
1326	02714	5274		JMP WL0	/02714-5274
1327	02715	1061	WL1,	TAD C400	/02715-1061
1328	02716	6774	IOT132,	SDLC	/02716-6774
1329	02717	4445		JMS I XLAS	/02717-4445
1330	02720	7710		SPA CLA	/02720-7710
1331	02721	5315		JMP WL1	/02721-5315
1332	02722	6776	IOT133,	SDRC	/02722-6776
1333	02723	3035		DCA IN	/02723-3035
1334	02724	1035		TAD IN	/02724-1035
1335	02725	0061		AND C400	/02725-0061
1336	02726	7650		SNA CLA	/02726-7650
1337	02727	5332		JMP .+3	/02727-5332
1338	02730	4454		JMS I XERROR	/02730-4454
1339	02731	2042		2042	/02731-2042
1340	02732	4445		JMS I XLAS	/02732-4445
1341	02733	7710		SPA CLA	/02733-7710
1342	02734	5315		JMP WL1	/02734-5315
1343	02735	4105		JMS LOOP1	/02735-4105
1344	02736	5274		JMP WL0	/02736-5274
1345	02737	4453		JMS I XMESAG	/02737-4453
1346	02740	2743		OK	/02740-2743
1347	02741	7402		HLT	/02741-7402
1348	02742	5341		JMP .-1	/02742-5341
1349	02743	3717	OK,	TEXT /_OK/	/02743-3717
1350	02744	1300			
1351	02776	4400			
1352	02777	0100			
1353		3000	PAGE		

1354					
1355		7200	BUFF1=7200		
1356		7400	BUFF2=7400		
1357					
1358	03000	7300	XFER, CLA CLL		/03000-7300
1359	03001	3035	DCA IN		/03001-3035
1360	03002	1377	TAD (FILL0		/03002-1377
1361	03003	4224	JMS WREAD		/03003-4224
1362	03004	1376	TAD (FILL1		/03004-1376
1363	03005	4224	JMS WREAD		/03005-4224
1364	03006	1375	TAD (FILL25		/03006-1375
1365	03007	4224	JMS WREAD		/03007-4224
1366	03010	1374	TAD (FILPAT		/03010-1374
1367	03011	4224	JMS WREAD		/03011-4224
1368	03012	1373	TAD (FILINC		/03012-1373
1369	03013	4224	JMS WREAD		/03013-4224
1370	03014	1372	TAD (FILDEC		/03014-1372
1371	03015	4224	JMS WREAD		/03015-4224
1372	03016	1371	TAD (SPEC1		/03016-1371
1373	03017	4224	JMS WREAD		/03017-4224
1374	03020	1370	TAD (SPEC2		/03020-1370
1375	03021	4224	JMS WREAD		/03021-4224
1376	03022	4767	JMS I (PASCNT		/03022-4767
1377	03023	5202	JMP XFER+2		/03023-5202
1378					
1379	03024	0000	WREAD, 0000		/03024-0000
1380	03025	3044	DCA FILPNT		/03025-3044
1381	03026	3766	DCA I (SUNIT		/03026-3766
1382	03027	1365	TAD (-200		/03027-1365
1383	03030	4444	JMS I FILPNT		/03030-4444
1384	03031	7200	BUFF1		/03031-7200
1385	03032	3043	DCA BLK		/03032-3043
1386	03033	1364	TAD (MESS57		/03033-1364
1387	03034	3041	DCA XHEAD1		/03034-3041
1388	03035	1363	WRBL1, TAD (MESS58		/03035-1363
1389	03036	3042	DCA XHEAD2		/03036-3042
1390	03037	1043	TAD BLK		/03037-1043
1391	03040	4762	JMS I (WRITE		/03040-4762
1392	03041	7200	BUFF1		/03041-7200
1393	03042	7600	-200		/03042-7600
1394	03043	1361	TAD (MESS59		/03043-1361
1395	03044	3042	DCA XHEAD2		/03044-3042
1396	03045	1043	TAD BLK		/03045-1043
1397	03046	4760	JMS I (READ		/03046-4760
1398	03047	7400	BUFF2		/03047-7400
1399	03050	7577	-201		/03050-7577
1400	03051	1365	TAD (-200		/03051-1365
1401	03052	4757	JMS I (COMPAR		/03052-4757
1402	03053	7200	BUFF1		/03053-7200
1403	03054	7401	BUFF2+1		/03054-7401
1404	03055	1356	TAD (MESS60		/03055-1356
1405	03056	3042	DCA XHEAD2		/03056-3042
1406	03057	1043	TAD BLK		/03057-1043
1407	03060	4755	JMS I (READR		/03060-4755
1408	03061	7400	BUFF2		/03061-7400

1409	03062	7577		-201	/03062-7577
1410	03063	1043		TAD BLK	/03063-1043
1411	03064	1354		TAD (100	/03064-1354
1412	03065	3043		DCA BLK	/03065-3043
1413	03066	4446		JMS I X8A	/03066-4446
1414	03067	1043		TAD BLK	/03067-1043
1415	03070	1353		TAD (-2701	/03070-1353
1416	03071	7710		SPA CLA	/03071-7710
1417	03072	5235		JMP WRBL1	/03072-5235
1418	03073	1352		TAD (2701	/03073-1352
1419	03074	3043		DCA BLK	/03074-3043
1420	03075	1351		TAD (MESS61	/03075-1351
1421	03076	3041		DCA XHEAD1	/03076-3041
1422	03077	1350	WRBL2,	TAD (MESS62	/03077-1350
1423	03100	3042		DCA XHEAD2	/03100-3042
1424	03101	1043		TAD BLK	/03101-1043
1425	03102	4747		JMS I (WRITER	/03102-4747
1426	03103	7200		BUFF1	/03103-7200
1427	03104	7600		-200	/03104-7600
1428	03105	1356		TAD (MESS60	/03105-1356
1429	03106	3042		DCA XHEAD2	/03106-3042
1430	03107	1043		TAD BLK	/03107-1043
1431	03110	4755		JMS I (READR	/03110-4755
1432	03111	7400		BUFF2	/03111-7400
1433	03112	7577		-201	/03112-7577
1434	03113	1365		TAD (-200	/03113-1365
1435	03114	4757		JMS I (COMPAR	/03114-4757
1436	03115	7200		BUFF1	/03115-7200
1437	03116	7401		BUFF2+1	/03116-7401
1438	03117	1361		TAD (MESS59	/03117-1361
1439	03120	3042		DCA XHEAD2	/03120-3042
1440	03121	1043		TAD BLK	/03121-1043
1441	03122	4760		JMS I (READ	/03122-4760
1442	03123	7400		BUFF2	/03123-7400
1443	03124	7577		-201	/03124-7577
1444	03125	1043		TAD BLK	/03125-1043
1445	03126	1346		TAD (-100	/03126-1346
1446	03127	3043		DCA BLK	/03127-3043
1447	03130	4446		JMS I X8A	/03130-4446
1448	03131	1043		TAD BLK	/03131-1043
1449	03132	7700		SMA CLA	/03132-7700
1450	03133	5277		JMP WRBL2	/03133-5277
1451	03134	4445		JMS I XLAS	/03134-4445
1452	03135	7010		RAR	/03135-7010
1453	03136	7630		SZL CLA	/03136-7630
1454	03137	5624		JMP I WREAD	/03137-5624
1455	03140	1766		TAD I (SUNIT	/03140-1766
1456	03141	1062		TAD C4000	/03141-1062
1457	03142	7450		SNA	/03142-7450
1458	03143	5624		JMP I WREAD	/03143-5624
1459	03144	3766		DCA I (SUNIT	/03144-3766
1460	03145	5232		JMP WRBL1-3	/03145-5232
1461	03146	7700			
1462	03147	3671			
1463	03150	6133			

1464	03151	6117
1465	03152	2701
1466	03153	5077
1467	03154	0100
1468	03155	3714
1469	03156	6105
1470	03157	3200
1471	03160	4600
1472	03161	6073
1473	03162	4500
1474	03163	6061
1475	03164	6046
1476	03165	7600
1477	03166	4477
1478	03167	3477
1479	03170	3461
1480	03171	3443
1481	03172	3421
1482	03173	3400
1483	03174	3276
1484	03175	3260
1485	03176	3243
1486	03177	3227
1487		3200 PAGE

1488						
1489	03200	0000	COMPAR,	0000		/03200-0000
1490	03201	3224		DCA	CCNTR	/03201-3224
1491	03202	1600		TAD I	COMPAR	/03202-1600
1492	03203	3225		DCA	GPNTR	/03203-3225
1493	03204	2200		ISZ	COMPAR	/03204-2200
1494	03205	1600		TAD I	COMPAR	/03205-1600
1495	03206	3226		DCA	TPNTR	/03206-3226
1496	03207	2200		ISZ	COMPAR	/03207-2200
1497	03210	1377		TAD	(DATMES	/03210-1377
1498	03211	3776		DCA I	(DATHD	/03211-3776
1499	03212	1625	COMLUP,	TAD I	GPNTR	/03212-1625
1500	03213	7041		CMA	IAC	/03213-7041
1501	03214	1626		TAD I	TPNTR	/03214-1626
1502	03215	7640		SZA	CLA	/03215-7640
1503	03216	4775		JMS I	(DATERR	/03216-4775
1504	03217	2225		ISZ	GPNTR	/03217-2225
1505	03220	2226		ISZ	TPNTR	/03220-2226
1506	03221	2224		ISZ	CCNTR	/03221-2224
1507	03222	5212		JMP	COMLUP	/03222-5212
1508	03223	5600		JMP I	COMPAR	/03223-5600
1509	03224	0000	CCNTR,	0000		/03224-0000
1510	03225	0000	GPNTR,	0000		/03225-0000
1511	03226	0000	TPNTR,	0000		/03226-0000
1512						
1513	03227	0000	FILL0,	0000		/03227-0000
1514	03230	3241		DCA	FILL0C	/03230-3241
1515	03231	1627		TAD I	FILL0	/03231-1627
1516	03232	3242		DCA	FILL0P	/03232-3242
1517	03233	2227		ISZ	FILL0	/03233-2227
1518	03234	3642		DCA I	FILL0P	/03234-3642
1519	03235	2242		ISZ	FILL0P	/03235-2242
1520	03236	2241		ISZ	FILL0C	/03236-2241
1521	03237	5234		JMP	.-3	/03237-5234
1522	03240	5627		JMP I	FILL0	/03240-5627
1523	03241	0000	FILL0C,	0000		/03241-0000
1524	03242	0000	FILL0P,	0000		/03242-0000
1525						
1526	03243	0000	FILL1,	0000		/03243-0000
1527	03244	3256		DCA	FILL1C	/03244-3256
1528	03245	1643		TAD I	FILL1	/03245-1643
1529	03246	3257		DCA	FILL1P	/03246-3257
1530	03247	2243		ISZ	FILL1	/03247-2243
1531	03250	7240		CLA	CMA	/03250-7240
1532	03251	3657		DCA I	FILL1P	/03251-3657
1533	03252	2257		ISZ	FILL1P	/03252-2257
1534	03253	2256		ISZ	FILL1C	/03253-2256
1535	03254	5250		JMP	.-4	/03254-5250
1536	03255	5643		JMP I	FILL1	/03255-5643
1537	03256	0000	FILL1C,	0000		/03256-0000
1538	03257	0000	FILL1P,	0000		/03257-0000
1539						
1540	03260	0000	FILL25,	0000		/03260-0000
1541	03261	3273		DCA	FILL2C	/03261-3273
1542	03262	1660		TAD I	FILL25	/03262-1660

1543	03263	3275	DCA	FILL2P	/03263-3275	
1544	03264	2260	ISZ	FILL25	/03264-2260	
1545	03265	1274	TAD	FILL2K	/03265-1274	
1546	03266	3675	DCA I	FILL2P	/03266-3675	
1547	03267	2275	ISZ	FILL2P	/03267-2275	
1548	03270	2273	ISZ	FILL2C	/03270-2273	
1549	03271	5265	JMP	.-4	/03271-5265	
1550	03272	5660	JMP I	FILL25	/03272-5660	
1551	03273	0000	FILL2C,	0000	/03273-0000	
1552	03274	2525	FILL2K,	2525	/03274-2525	
1553	03275	0000	FILL2P,	0000	/03275-0000	
1554						
1555	03276	0000	FILPAT,	0000	/03276-0000	
1556	03277	3323	DCA	FILLC1	/03277-3323	
1557	03300	1676	TAD I	FILPAT	/03300-1676	
1558	03301	3321	DCA	FILLP1	/03301-3321	
1559	03302	2276	ISZ	FILPAT	/03302-2276	
1560	03303	1325	FILPL1,	TAD	FILTP	/03303-1325
1561	03304	3322	DCA	FILLP2	/03304-3322	
1562	03305	1331	TAD	FILTC	/03305-1331	
1563	03306	3324	DCA	FILLC2	/03306-3324	
1564	03307	1722	FILPL2,	TAD I	FILLP2	/03307-1722
1565	03310	3721	DCA I	FILLP1	/03310-3721	
1566	03311	2321	ISZ	FILLP1	/03311-2321	
1567	03312	2323	ISZ	FILLC1	/03312-2323	
1568	03313	7410	SKP		/03313-7410	
1569	03314	5676	JMP I	FILPAT	/03314-5676	
1570	03315	2322	ISZ	FILLP2	/03315-2322	
1571	03316	2324	ISZ	FILLC2	/03316-2324	
1572	03317	5307	JMP	FILPL2	/03317-5307	
1573	03320	5303	JMP	FILPL1	/03320-5303	
1574	03321	0000	FILLP1,	0000	/03321-0000	
1575	03322	0000	FILLP2,	0000	/03322-0000	
1576	03323	0000	FILLC1,	0000	/03323-0000	
1577	03324	0000	FILLC2,	0000	/03324-0000	
1578	03325	3326	FILTP,	+.1	/03325-3326	
1579	03326	2225		2225	/03326-2225	
1580	03327	5522		5522	/03327-5522	
1581	03330	2555		2555	/03330-2555	
1582	03331	7775	FILTC,	FILTP-FILTC+1	/03331-7775	
1583	03375	4000				
1584	03376	4037				
1585	03377	4041				
1586		3400	PAGE			

1587						
1588	03400	0000	FILINC,	0000		/03400-0000
1589	03401	3216		DCA	FILICT	/03401-3216
1590	03402	1600		TAD I	FILINC	/03402-1600
1591	03403	3217		DCA	FILIPT	/03403-3217
1592	03404	2200		ISZ	FILINC	/03404-2200
1593	03405	3220		DCA	FILIDT	/03405-3220
1594	03406	1220		TAD	FILIDT	/03406-1220
1595	03407	3617		DCA I	FILIPT	/03407-3617
1596	03410	2220		ISZ	FILIDT	/03410-2220
1597	03411	7000		NOP		/03411-7000
1598	03412	2217		ISZ	FILIPT	/03412-2217
1599	03413	2216		ISZ	FILICT	/03413-2216
1600	03414	5206		JMP	.-6	/03414-5206
1601	03415	5600		JMP I	FILINC	/03415-5600
1602	03416	0000	FILICT,	0000		/03416-0000
1603	03417	0000	FILIPT,	0000		/03417-0000
1604	03420	0000	FILIDT,	0000		/03420-0000
1605						
1606	03421	0000	FILDEC,	0000		/03421-0000
1607	03422	3240		DCA	FILDCT	/03422-3240
1608	03423	1621		TAD I	FILDEC	/03423-1621
1609	03424	3241		DCA	FILDPT	/03424-3241
1610	03425	2221		ISZ	FILDEC	/03425-2221
1611	03426	3242		DCA	FILDDT	/03426-3242
1612	03427	1242		TAD	FILDDT	/03427-1242
1613	03430	3641		DCA I	FILDPT	/03430-3641
1614	03431	7040		CMA		/03431-7040
1615	03432	1242		TAD	FILDDT	/03432-1242
1616	03433	2241		ISZ	FILDPT	/03433-2241
1617	03434	2240		ISZ	FILDCT	/03434-2240
1618	03435	5226		JMP	.-7	/03435-5226
1619	03436	7200		CLA		/03436-7200
1620	03437	5621		JMP I	FILDEC	/03437-5621
1621	03440	0000	FILDCT,	0000		/03440-0000
1622	03441	0000	FILDPT,	0000		/03441-0000
1623	03442	0000	FILDDT,	0000		/03442-0000
1624						
1625	03443	0000	SPEC1,	0000		/03443-0000
1626	03444	3256		DCA	SP1CT	/03444-3256
1627	03445	1643		TAD I	SPEC1	/03445-1643
1628	03446	3257		DCA	SP1PT	/03446-3257
1629	03447	2243		ISZ	SPEC1	/03447-2243
1630	03450	1260		TAD	SPEC1D	/03450-1260
1631	03451	3657		DCA I	SP1PT	/03451-3657
1632	03452	2257		ISZ	SP1PT	/03452-2257
1633	03453	2256		ISZ	SP1CT	/03453-2256
1634	03454	5250		JMP	.-4	/03454-5250
1635	03455	5643		JMP I	SPEC1	/03455-5643
1636	03456	0000	SP1CT,	0000		/03456-0000
1637	03457	0000	SP1PT,	0000		/03457-0000
1638	03460	6161	SPEC1D,	6161		/03460-6161
1639						
1640	03461	0000	SPEC2,	0000		/03461-0000
1641	03462	3274		DCA	SP2CT	/03462-3274

1642	03463	1661	TAD I	SPEC2	/03463-1661
1643	03464	3275	DCA	SP2PT	/03464-3275
1644	03465	2261	ISZ	SPEC2	/03465-2261
1645	03466	1276	TAD	SPEC2D	/03466-1276
1646	03467	3675	DCA I	SP2PT	/03467-3675
1647	03470	2275	ISZ	SP2PT	/03470-2275
1648	03471	2274	ISZ	SP2CT	/03471-2274
1649	03472	5266	JMP	.-4	/03472-5266
1650	03473	5661	JMP I	SPEC2	/03473-5661
1651	03474	0000	SP2CT,	0000	/03474-0000
1652	03475	0000	SP2PT,	0000	/03475-0000
1653	03476	3434	SPEC2D,	3434	/03476-3434
1654					
1655	03477	0000	PASCNT,	0000	/03477-0000
1656	03500	4453	JMS I	XMESAG	/03500-4453
1657	03501	3511	PASS		/03501-3511
1658	03502	2035	ISZ	IN	/03502-2035
1659	03503	7000	NOP		/03503-7000
1660	03504	1035	TAD	IN	/03504-1035
1661	03505	4451	JMS I	XOPRNT	/03505-4451
1662	03506	4453	JMS I	XMESAG	/03506-4453
1663	03507	3515	COMP		/03507-3515
1664	03510	5677	JMP I	PASCNT	/03510-5677
1665	03511	3720	PASS,	TEXT /_PASS /	
1666	03512	0123			
1667	03513	2340			
1668	03514	0000			
1669	03515	4003	COMP,	TEXT / COMPLETE/	
1670	03516	1715			
1671	03517	2014			
1672	03520	0524			
1673	03521	0500			
1674					
1675	03522	0000	DECX8A,	0000	/03522-0000
1676	03523	1022	TAD	X8SWI	/03523-1022
1677	03524	7700	SMA	CLA	/03524-7700
1678	03525	5722	JMP I	DECX8A	/03525-5722
1679	03526	6002	IOF		/03526-6002
1680	03527	6201	CDF	0	/03527-6201
1681	03530	6272	CIF	70	/03530-6272
1682	03531	4733	JMS I	.+2	/03531-4733
1683	03532	5722	JMP I	DECX8A	/03532-5722
1684	03533	6500		6500	/03533-6500
1685					
1686	03534	0000	DECX8B,	0000	/03534-0000
1687	03535	1022	TAD	X8SWI	/03535-1022
1688	03536	7700	SMA	CLA	/03536-7700
1689	03537	5734	JMP I	DECX8B	/03537-5734
1690	03540	7240	CLA	CMA	/03540-7240
1691	03541	1777	TAD I	(ERROR	/03541-1777
1692	03542	6002	IOF		/03542-6002
1693	03543	6201	CDF	0	/03543-6201
1694	03544	6272	CIF	70	/03544-6272
1695	03545	5746	JMP I	+.1	/03545-5746
1696	03546	6520		6520	/03546-6520

1697					
1698	03547	0000	DECX8C,	0000	/03547-0000
1699	03550	1022		TAD X8SWI	/03550-1022
1700	03551	7700		SMA CLA	/03551-7700
1701	03552	5747		JMP I DECX8C	/03552-5747
1702	03553	1022		TAD X8SWI	/03553-1022
1703	03554	7040		CMA	/03554-7040
1704	03555	0060		AND C7	/03555-0060
1705	03556	3020		DCA SOFLAS	/03556-3020
1706	03557	1376		TAD (-40	/03557-1376
1707	03560	3056		DCA HANG2	/03560-3056
1708	03561	5775		JMP I (DATREG	/03561-5775
1709	03575	0201			
1710	03576	7740			
1711	03577	0472			
1712		3600	PAGE		

1713					
1714	03600	0000	RSERCH,	0000	/03600-0000
1715	03601	3270		DCA	RSLOOK
1716	03602	1113		TAD	M10
1717	03603	3114		DCA	BLKTRY
1718	03604	1377		TAD	(1000
1719	03605	1776		TAD I	(SUNIT
1720	03606	6774	RSRCH0,	SDLC	
1721	03607	6776	IOT134,	SDRC	
1722	03610	0375		AND	(100
1723	03611	7640		SZA	CLA
1724	03612	5563		JMP I	[SELERR
1725	03613	4774		JMS I	(RDQUAD
1726	03614	4774		JMS I	(RDQUAD
1727	03615	6771	RSRCH1,	SDSS	
1728	03616	7410		SKP	
1729	03617	6777	IOT135,	SDRD	
1730	03620	6771	IOT136,	SDSS	
1731	03621	5220		JMP	.-1
1732	03622	6776	IOT138,	SDRC	
1733	03623	0373		AND	(77
1734	03624	1372		TAD	(-26
1735	03625	7450		SNA	
1736	03626	5240		JMP	RSRCH2
1737	03627	1371		TAD	(4
1738	03630	7640		SZA	CLA
1739	03631	5215		JMP	RSRCH1
1740	03632	6776	IOT13A,	SDRC	
1741	03633	7006		RTL	
1742	03634	7032		CML	RTR
1743	03635	2114		ISZ	BLKTRY
1744	03636	5206		JMP	RSRCH0
1745	03637	5261		JMP	RSTURN+5
1746	03640	6776	RSRCH2,	SDRC	
1747	03641	7006		RTL	
1748	03642	6777	IOT137,	SDRD	
1749	03643	7041		CMA	IAC
1750	03644	1270		TAD	RSLOOK
1751	03645	7450		SNA	
1752	03646	5265		JMP	RSOK
1753	03647	7041		CMA	IAC
1754	03650	7420		SNL	
1755	03651	1371		TAD	(4
1756	03652	7630		SZL	CLA
1757	03653	5215		JMP	RSRCH1
1758	03654	6776	RSTURN,	SDRC	
1759	03655	7006		RTL	
1760	03656	7032		CML	RTR
1761	03657	2114		ISZ	BLKTRY
1762	03660	5206		JMP	RSRCH0
1763	03661	7200		CLA	
1764	03662	1270		TAD	RSLOOK
1765	03663	7402		HLT	
1766	03664	5263		JMP	.-1
1767	03665	7630	RSOK,	SZL	CLA

1768	03666	5215		JMP	RSRCH1	/03666-5215
1769	03667	5600		JMP I	RSERCH	/03667-5600
1770	03670	0000	RSLOOK,	0000		/03670-0000
1771						
1772	03671	0000	WRITER,	0000		/03671-0000
1773	03672	3770		DCA I	(WCNT	/03672-3770
1774	03673	1671		TAD I	WRITER	/03673-1671
1775	03674	3767		DCA I	(WADDR	/03674-3767
1776	03675	2271		ISZ	WRITER	/03675-2271
1777	03676	1671		TAD I	WRITER	/03676-1671
1778	03677	3766		DCA I	(WCOUNT	/03677-3766
1779	03700	1271		TAD	WRITER	/03700-1271
1780	03701	7001		IAC		/03701-7001
1781	03702	3765		DCA I	(WRITE	/03702-3765
1782	03703	4764		JMS I	(CSUMRT	/03703-4764
1783	03704	0025		0025		/03704-0025
1784	03705	7177		BUFF1-1		/03705-7177
1785	03706	7600		-200		/03706-7600
1786	03707	4763		JMS I	(SBCXOR	/03707-4763
1787	03710	4331		JMS	WRTLCK	/03710-4331
1788	03711	1770		TAD I	(WCNT	/03711-1770
1789	03712	4200		JMS	RSERCH	/03712-4200
1790	03713	5762		JMP I	(WRITE1	/03713-5762
1791						
1792	03714	0000	READR,	0000		/03714-0000
1793	03715	3761		DCA I	(RCNT	/03715-3761
1794	03716	1714		TAD I	READR	/03716-1714
1795	03717	3760		DCA I	(RADDR	/03717-3760
1796	03720	2314		ISZ	READR	/03720-2314
1797	03721	1714		TAD I	READR	/03721-1714
1798	03722	3757		DCA I	(RCOUNT	/03722-3757
1799	03723	1314		TAD	READR	/03723-1314
1800	03724	7001		IAC		/03724-7001
1801	03725	3756		DCA I	(READ	/03725-3756
1802	03726	1761		TAD I	(RCNT	/03726-1761
1803	03727	4200		JMS	RSERCH	/03727-4200
1804	03730	5755		JMP I	(READ1	/03730-5755
1805						
1806	03731	0000	WRTLCK,	0000		/03731-0000
1807	03732	1776		TAD I	(SUNIT	/03732-1776
1808	03733	6774	IOT151,	SDLC		/03733-6774
1809	03734	6776	IOT15A,	SDRC		/03734-6776
1810	03735	0064		AND	C200	/03735-0064
1811	03736	7640		SZA	CLA	/03736-7640
1812	03737	5562		JMP I	[WRDERR	/03737-5562
1813	03740	5731		JMP I	WRTLCK	/03740-5731
1814	03755	4612				
1815	03756	4600				
1816	03757	4660				
1817	03760	4657				
1818	03761	4656				
1819	03762	4520				
1820	03763	4714				
1821	03764	4301				
1822	03765	4500				

1823	03766	4553
1824	03767	4552
1825	03770	4476
1826	03771	0004
1827	03772	7752
1828	03773	0077
1829	03774	4707
1830	03775	0100
1831	03776	4477
1832	03777	1000
1833	4000	PAGE

1834					
1835	04000	0000	DATERR,	0000	/04000-0000
1836	04001	4445	JMS I	XLAS	/04001-4445
1837	04002	0061	AND	C400	/04002-0061
1838	04003	7640	SZA	CLA	/04003-7640
1839	04004	5232	JMP	DATHLT-3	/04004-5232
1840	04005	1237	TAD	DATHD	/04005-1237
1841	04006	7650	SNA	CLA	/04006-7650
1842	04007	5217	JMP	DATNUM	/04007-5217
1843	04010	4247	JMS	HEADTP	/04010-4247
1844	04011	1237	TAD	DATHD	/04011-1237
1845	04012	4453	JMS I	XMESAG	/04012-4453
1846	04013	3237	DCA	DATHD	/04013-3237
1847	04014	4077	JMS	CRLF	/04014-4077
1848	04015	4453	JMS I	XMESAG	/04015-4453
1849	04016	5013	GODBAD		/04016-5013
1850	04017	1777	DATNUM,	TAD I (GPNTR	/04017-1777
1851	04020	3240	DCA	DATPNT	/04020-3240
1852	04021	1640	TAD I	DATPNT	/04021-1640
1853	04022	4451	JMS I	XOPRNT	/04022-4451
1854	04023	1063	TAD	C240	/04023-1063
1855	04024	4070	JMS	TYPE	/04024-4070
1856	04025	1776	TAD I	(TPNTR	/04025-1776
1857	04026	3240	DCA	DATPNT	/04026-3240
1858	04027	1640	TAD I	DATPNT	/04027-1640
1859	04030	4451	JMS I	XOPRNT	/04030-4451
1860	04031	4077	JMS	CRLF	/04031-4077
1861	04032	4445	JMS I	XLAS	/04032-4445
1862	04033	0064	AND	C200	/04033-0064
1863	04034	7650	SNA	CLA	/04034-7650
1864	04035	7402	DATHLT,	HLT	/04035-7402
1865	04036	5600	JMP I	DATERR	/04036-5600
1866	04037	0000	DATHD,	0000	/04037-0000
1867	04040	0000	DATPNT,	0000	/04040-0000
1868	04041	3704	DATMES,	TEXT /_DATA ERROR/	
1869	04042	0124			
1870	04043	0140			
1871	04044	0522			
1872	04045	2217			
1873	04046	2200			
1874					
1875	04047	0000	HEADTP,	0000	/04047-0000
1876	04050	7340	CLA	CLL CMA	/04050-7340
1877	04051	1247	TAD	HEADTP	/04051-1247
1878	04052	3775	DCA I	(ERROR	/04052-3775
1879	04053	4450	JMS I	X8B	/04053-4450
1880	04054	4453	JMS I	XMESAG	/04054-4453
1881	04055	4076	UMESS		/04055-4076
1882	04056	6776	IOT139,	SDRC	/04056-6776
1883	04057	7710	SPA	CLA	/04057-7710
1884	04060	7001	IAC		/04060-7001
1885	04061	1374	TAD	(260	/04061-1374
1886	04062	4070	JMS	TYPE	/04062-4070
1887	04063	4453	JMS I	XMESAG	/04063-4453
1888	04064	4102	BLOCK		/04064-4102

1889	04065	1043	TAD	BLK	/04065-1043
1890	04066	4451	JMS I	XOPRNT	/04066-4451
1891	04067	4077	JMS	CRLF	/04067-4077
1892	04070	4453	JMS I	XMESAG	/04070-4453
1893	04071	0041	XHEAD1		/04071-0041
1894	04072	4453	JMS I	XMESAG	/04072-4453
1895	04073	0042	XHEAD2		/04073-0042
1896	04074	4077	JMS	CRLF	/04074-4077
1897	04075	5647	JMP I	HEADTP	/04075-5647
1898	04076	3725	UMESS,	TEXT /_UNIT /	
1899	04077	1611			
1900	04100	2440			
1901	04101	0000			
1902	04102	3702	BLOCK,	TEXT /_BLOCK # /	
1903	04103	1417			
1904	04104	0313			
1905	04105	4043			
1906	04106	4000			
1907					
1908	04107	0000	CHKERR,	0000	/04107-0000
1909	04110	3327	DCA	CHKDAT	/04110-3327
1910	04111	6776	IOT140,	SDRC	/04111-6776
1911	04112	0062	AND	C4000	/04112-0062
1912	04113	6774	IOT141,	SDLC	/04113-6774
1913	04114	4247	JMS	HEADTP	/04114-4247
1914	04115	4453	JMS I	XMESAG	/04115-4453
1915	04116	4130	CHKMES		/04116-4130
1916	04117	4445	JMS I	XLAS	/04117-4445
1917	04120	0064	AND	C200	/04120-0064
1918	04121	7640	SZA	CLA	/04121-7640
1919	04122	5707	JMP I	CHKERR	/04122-5707
1920	04123	1327	TAD	CHKDAT	/04123-1327
1921	04124	7402	HLT		/04124-7402
1922	04125	7200	CLA		/04125-7200
1923	04126	5707	JMP I	CHKERR	/04126-5707
1924	04127	0000	CHKDAT,	0000	/04127-0000
1925	04130	3703	CHKMES,	TEXT /_CHECKSUM ERROR/	
1926	04131	1005			
1927	04132	0313			
1928	04133	2325			
1929	04134	1540			
1930	04135	0522			
1931	04136	2217			
1932	04137	2200			
1933	04174	0260			
1934	04175	0472			
1935	04176	3226			
1936	04177	3225			
1937		4200	PAGE		

1938					
1939	04200	4777	WRDERR,	JMS I (HEADTP	/04200-4777
1940	04201	6776	IOT142,	SDRC	/04201-6776
1941	04202	0062	AND	C4000	/04202-0062
1942	04203	6774	IOT143,	SDLC	/04203-6774
1943	04204	4453	JMS I	XMESAG	/04204-4453
1944	04205	4213	WRDMES		/04205-4213
1945	04206	4445	JMS I	XLAS	/04206-4445
1946	04207	0064	AND	C200	/04207-0064
1947	04210	7650	WRDHLT,	SNA CLA	/04210-7650
1948	04211	7402	HLT		/04211-7402
1949	04212	5776	JMP I	(WRBL1+2	/04212-5776
1950	04213	3725	WRDMES,	TEXT /_UNIT WRITE LOCKED/	
1951	04214	1611			
1952	04215	2440			
1953	04216	2722			
1954	04217	1124			
1955	04220	0540			
1956	04221	1417			
1957	04222	0313			
1958	04223	0504			
1959	04224	0000			
1960					
1961	04225	4777	SELERR,	JMS I (HEADTP	/04225-4777
1962	04226	4453	JMS I	XMESAG	/04226-4453
1963	04227	4235	SELMES		/04227-4235
1964	04230	4445	JMS I	XLAS	/04230-4445
1965	04231	0064	AND	C200	/04231-0064
1966	04232	7650	SNA CLA		/04232-7650
1967	04233	7402	SELHT,	HLT	/04233-7402
1968	04234	5776	JMP I	(WRBL1+2	/04234-5776
1969	04235	3723	SELMES,	TEXT /_SELECT ERROR/	
1970	04236	0514			
1971	04237	0503			
1972	04240	2440			
1973	04241	0522			
1974	04242	2217			
1975	04243	2200			
1976					
1977	04244	0000	TYMERR,	0000	/04244-0000
1978	04245	6776	IOT144,	SDRC	/04245-6776
1979	04246	0062	AND	C4000	/04246-0062
1980	04247	6774	IOT145,	SDLC	/04247-6774
1981	04250	4777	JMS I	(HEADTP	/04250-4777
1982	04251	4453	JMS I	XMESAG	/04251-4453
1983	04252	4260	TYMMES		/04252-4260
1984	04253	4445	JMS I	XLAS	/04253-4445
1985	04254	0064	AND	C200	/04254-0064
1986	04255	7650	SNA CLA		/04255-7650
1987	04256	7402	TYMHLT,	HLT	/04256-7402
1988	04257	5775	JMP I	(WREAD+3	/04257-5775
1989	04260	3724	TYMMES,	TEXT /_TIMING ERROR/	
1990	04261	1115			
1991	04262	1116			
1992	04263	0740			

1993	04264	0522				
1994	04265	2217				
1995	04266	2200				
1996						
1997	04267	0000	CLRWT,	0000		/04267-0000
1998	04270	6773	IOT168,	SDSQ		/04270-6773
1999	04271	5270	JMP	.-1		/04271-5270
2000	04272	6772	IOT154,	SDST		/04272-6772
2001	04273	7610	SKP	CLA		/04273-7610
2002	04274	4161	JMS	[TYMERR		/04274-4161 ?
2003	04275	6776	IOT169,	SDRC		/04275-6776
2004	04276	0374	AND	(7000		/04276-0374
2005	04277	6774	IOT170,	SDLC		/04277-6774
2006	04300	5667	JMP I	CLRWT		/04300-5667
2007						
2008	04301	0000	CSUMRT,	0000		/04301-0000
2009	04302	1701	TAD I	CSUMRT		/04302-1701
2010	04303	3773	DCA I	(CHKSUM		/04303-3773
2011	04304	2301	ISZ	CSUMRT		/04304-2301
2012	04305	1701	TAD I	CSUMRT		/04305-1701
2013	04306	3017	DCA	AUTO		/04306-3017
2014	04307	2301	ISZ	CSUMRT		/04307-2301
2015	04310	1701	TAD I	CSUMRT		/04310-1701
2016	04311	3320	DCA	XXX		/04311-3320
2017	04312	2301	ISZ	CSUMRT		/04312-2301
2018	04313	1417	TAD I	AUTO		/04313-1417
2019	04314	4772	JMS I	(SBCXOR		/04314-4772
2020	04315	2320	ISZ	XXX		/04315-2320
2021	04316	5313	JMP	.-3		/04316-5313
2022	04317	5701	JMP I	CSUMRT		/04317-5701
2023	04320	0000	XXX,	0000		/04320-0000
2024						
2025	04321	0000	CHKCHK,	0000		/04321-0000
2026	04322	4301	JMS	CSUMRT		/04322-4301
2027	04323	0000	0000			/04323-0000
2028	04324	7377	BUFF2-1			/04324-7377
2029	04325	7575	-203			/04325-7575
2030	04326	1773	TAD I	(CHKSUM		/04326-1773
2031	04327	7040	CMA			/04327-7040
2032	04330	0371	AND	(77		/04330-0371
2033	04331	7440	SZA			/04331-7440
2034	04332	4560	JMS I	[CHKERR		/04332-4560
2035	04333	5721	JMP I	CHKCHK		/04333-5721
2036	04371	0077				
2037	04372	4714				
2038	04373	4744				
2039	04374	7000				
2040	04375	3027				
2041	04376	3037				
2042	04377	4047				
2043		4400	PAGE			

2044						
2045	04400	0000	SEARCH,	0000		/04400-0000
2046	04401	3276		DCA	SLOOK	/04401-3276
2047	04402	1113		TAD	M10	/04402-1113
2048	04403	3114		DCA	BLKTRY	/04403-3114
2049	04404	1377		TAD	(3000	/04404-1377
2050	04405	1277		TAD	SUNIT	/04405-1277
2051	04406	6774	SRCH0,	SDLC		/04406-6774
2052	04407	6776	IOT146,	SDRC		/04407-6776
2053	04410	0376		AND	(100	/04410-0376
2054	04411	7640		SZA	CLA	/04411-7640
2055	04412	5563		JMP	I [SELERR	/04412-5563
2056	04413	4775		JMS	I (RDQUAD	/04413-4775
2057	04414	4775		JMS	I (RDQUAD	/04414-4775
2058	04415	6771	SRCH1,	SDSS		/04415-6771
2059	04416	7410		SKP		/04416-7410
2060	04417	6777	IOT147,	SDRD		/04417-6777
2061	04420	6771	IOT148,	SDSS		/04420-6771
2062	04421	5220		JMP	.-1	/04421-5220
2063	04422	6776	IOT149,	SDRC		/04422-6776
2064	04423	0374		AND	(77	/04423-0374
2065	04424	1373		TAD	(-26	/04424-1373
2066	04425	7450		SNA		/04425-7450
2067	04426	5240		JMP	SRCH2	/04426-5240
2068	04427	1372		TAD	(4	/04427-1372
2069	04430	7640		SZA	CLA	/04430-7640
2070	04431	5215		JMP	SRCH1	/04431-5215
2071	04432	6776	IOT14A,	SDRC		/04432-6776
2072	04433	7006		RTL		/04433-7006
2073	04434	7032		CML	RTR	/04434-7032
2074	04435	2114		ISZ	BLKTRY	/04435-2114
2075	04436	5206		JMP	SRCH0	/04436-5206
2076	04437	5261		JMP	BADBLK	/04437-5261
2077	04440	6776	SRCH2,	SDRC		/04440-6776
2078	04441	7006		RTL		/04441-7006
2079	04442	6777	IOT150,	SDRD		/04442-6777
2080	04443	7041		CMA	IAC	/04443-7041
2081	04444	1276		TAD	SLOOK	/04444-1276
2082	04445	7450		SNA		/04445-7450
2083	04446	5273		JMP	LOCBED	/04446-5273
2084	04447	7041		CMA	IAC	/04447-7041
2085	04450	7420		SNL		/04450-7420
2086	04451	1371		TAD	(2	/04451-1371
2087	04452	7630		SZL	CLA	/04452-7630
2088	04453	5215		JMP	SRCH1	/04453-5215
2089	04454	6776	IOT15B,	SDRC		/04454-6776
2090	04455	7006		RTL		/04455-7006
2091	04456	7032		CML	RTR	/04456-7032
2092	04457	2114		ISZ	BLKTRY	/04457-2114
2093	04460	5206		JMP	SRCH0	/04460-5206
2094	04461	7200	BADBLK,	CLA		/04461-7200
2095	04462	1276		TAD	SLOOK	/04462-1276
2096	04463	3043		DCA	BLK	/04463-3043
2097	04464	3041		DCA	XHEAD1	/04464-3041
2098	04465	3042		DCA	XHEAD2	/04465-3042

2099	04466	4453	JMS I	XMESAG	/04466-4453
2100	04467	5000	BKSRCH		/04467-5000
2101	04470	4770	JMS I	(HEADTP	/04470-4770
2102	04471	7402	HLT		/04471-7402
2103	04472	5271	JMP	.-1	/04472-5271
2104	04473	7620	LOCBED,	SNL CLA	/04473-7620
2105	04474	5215	JMP	SRCH1	/04474-5215
2106	04475	5600	JMP I	SEARCH	/04475-5600
2107	04476	0000	SLOOK,	0000	/04476-0000
2108	04477	0000	SUNIT,	0000	/04477-0000
2109		4476	WCNT=SLOOK		
2110					
2111	04500	0000	WRITE,	0000	/04500-0000
2112	04501	3276	DCA	WCNT	/04501-3276
2113	04502	1700	TAD I	WRITE	/04502-1700
2114	04503	3352	DCA	WADDR	/04503-3352
2115	04504	2300	ISZ	WRITE	/04504-2300
2116	04505	1700	TAD I	WRITE	/04505-1700
2117	04506	3353	DCA	WCOUNT	/04506-3353
2118	04507	2300	ISZ	WRITE	/04507-2300
2119	04510	4767	JMS I	(CSUMRT	/04510-4767
2120	04511	0025	0025		/04511-0025
2121	04512	7177	BUFF1-1		/04512-7177
2122	04513	7600	-200		/04513-7600
2123	04514	4766	JMS I	(SBCXOR	/04514-4766
2124	04515	4765	JMS I	(WRTLCK	/04515-4765
2125	04516	1276	TAD	WCNT	/04516-1276
2126	04517	4200	JMS	SEARCH	/04517-4200
2127	04520	4764	WRITE1,	JMS I (REVGRD	/04520-4764
2128	04521	4775	JMS I	(RDQUAD	/04521-4775
2129	04522	6776	IOT152,	SDRC	/04522-6776
2130	04523	1061	TAD	C400	/04523-1061
2131	04524	6774	IOT153,	SDLC	/04524-6774
2132	04525	1363	TAD	(25	/04525-1363
2133	04526	4762	JMS I	(WRQUAD	/04526-4762
2134	04527	1752	WRITE2,	TAD I WADDR	/04527-1752
2135	04530	2352	ISZ	WADDR	/04530-2352
2136	04531	7000	NOP		/04531-7000
2137	04532	4762	JMS I	(WRQUAD	/04532-4762
2138	04533	2353	ISZ	WCOUNT	/04533-2353
2139	04534	5327	JMP	WRITE2	/04534-5327
2140	04535	4762	JMS I	(WRQUAD	/04535-4762
2141	04536	1761	TAD I	(CHKSUM	/04536-1761
2142	04537	7040	CMA		/04537-7040
2143	04540	0374	AND	(77	/04540-0374
2144	04541	7106	CLL	RTL	/04541-7106
2145	04542	7006	RTL		/04542-7006
2146	04543	7006	RTL		/04543-7006
2147	04544	4762	JMS I	(WRQUAD	/04544-4762
2148	04545	4760	JMS I	(CLRWT	/04545-4760
2149	04546	6776	IOT155,	SDRC	/04546-6776
2150	04547	0062	AND	C4000	/04547-0062
2151	04550	6774	IOT156,	SDLC	/04550-6774
2152	04551	5700	JMP I	WRITE	/04551-5700
2153	04552	0000	WADDR,	0000	/04552-0000

2154	04553	0000	WCOUNT, 0000
2155	04560	4267	
2156	04561	4744	
2157	04562	4701	
2158	04563	0025	
2159	04564	4661	
2160	04565	3731	
2161	04566	4714	
2162	04567	4301	
2163	04570	4047	
2164	04571	0002	
2165	04572	0004	
2166	04573	7752	
2167	04574	0077	
2168	04575	4707	
2169	04576	0100	
2170	04577	3000	
2171		4600	PAGE

/04553-0000

2172						
2173	04600	0000	READ,	0000		/04600-0000
2174	04601	3256		DCA	RCNT	/04601-3256
2175	04602	1600		TAD I	READ	/04602-1600
2176	04603	3257		DCA	RADDR	/04603-3257
2177	04604	2200		ISZ	READ	/04604-2200
2178	04605	1600		TAD I	READ	/04605-1600
2179	04606	3260		DCA	RCOUNT	/04606-3260
2180	04607	2200		ISZ	READ	/04607-2200
2181	04610	1256		TAD	RCNT	/04610-1256
2182	04611	4777		JMS I	(SEARCH	/04611-4777
2183	04612	6771	READ1,	SDSS		/04612-6771
2184	04613	5212		JMP	.-1	/04613-5212
2185	04614	6776	IOT16A,	SDRC		/04614-6776
2186	04615	0376		AND	(77	/04615-0376
2187	04616	1375		TAD	(-32	/04616-1375
2188	04617	7450		SNA		/04617-7450
2189	04620	5225		JMP	.+5	/04620-5225
2190	04621	1374		TAD	(10	/04621-1374
2191	04622	7640		SZA	CLA	/04622-7640
2192	04623	5212		JMP	READ1	/04623-5212
2193	04624	5274		JMP	IOT162	/04624-5274
2194	04625	4307		JMS	RDQUAD	/04625-4307
2195	04626	4307		JMS	RDQUAD	/04626-4307
2196	04627	4307		JMS	RDQUAD	/04627-4307
2197	04630	0376		AND	(77	/04630-0376
2198	04631	7410		SKP		/04631-7410
2199	04632	4307	READ2,	JMS	RDQUAD	/04632-4307
2200	04633	3657		DCA I	RADDR	/04633-3657
2201	04634	2257		ISZ	RADDR	/04634-2257
2202	04635	7000		NOP		/04635-7000
2203	04636	2260		ISZ	RCOUNT	/04636-2260
2204	04637	5232		JMP	READ2	/04637-5232
2205	04640	4307		JMS	RDQUAD	/04640-4307
2206	04641	3657		DCA I	RADDR	/04641-3657
2207	04642	2257		ISZ	RADDR	/04642-2257
2208	04643	4307		JMS	RDQUAD	/04643-4307
2209	04644	0373		AND	(7700	/04644-0373
2210	04645	3657		DCA I	RADDR	/04645-3657
2211	04646	6772	IOT157,	SDST		/04646-6772
2212	04647	7410		SKP		/04647-7410
2213	04650	4561		JMS I	[TYMERR	/04650-4561
2214	04651	6776	IOT158,	SDRC		/04651-6776
2215	04652	0062		AND	C4000	/04652-0062
2216	04653	6774	IOT159,	SDLC		/04653-6774
2217	04654	4772		JMS I	(CHKCHK	/04654-4772
2218	04655	5600		JMP I	READ	/04655-5600
2219	04656	0000	RCNT,	0000		/04656-0000
2220	04657	0000	RADDR,	0000		/04657-0000
2221	04660	0000	RCOUNT,	0000		/04660-0000
2222						
2223	04661	0000	REVGRD,	0000		/04661-0000
2224	04662	6771	IOT160,	SDSS		/04662-6771
2225	04663	5262		JMP	.-1	/04663-5262
2226	04664	6776	IOT161,	SDRC		/04664-6776

2227	04665	0376	AND	(77	/04665-0376
2228	04666	1375	TAD	(-32	/04666-1375
2229	04667	7450	SNA		/04667-7450
2230	04670	5661	JMP I	REVG RD	/04670-5661
2231	04671	1374	TAD	(10	/04671-1374
2232	04672	7640	SZA	CLA	/04672-7640
2233	04673	5262	JMP	REVG RD+1	/04673-5262
2234	04674	6776	IOT162,	SDRC	/04674-6776
2235	04675	0062	AND	C4000	/04675-0062
2236	04676	6774	IOT163,	SDLC	/04676-6774
2237	04677	7402	HLT		/04677-7402
2238	04700	5277	JMP	.-1	/04700-5277
2239					
2240	04701	0000	WRQUAD,	0000	/04701-0000
2241	04702	6773	IOT164,	SDSQ	/04702-6773
2242	04703	5302	JMP	.-1	/04703-5302
2243	04704	6775	IOT165,	SDL D	/04704-6775
2244	04705	7600	M0200A,	CLA+400	/04705-7600
2245	04706	5701	JMP I	WRQUAD	/04706-5701
2246					
2247	04707	0000	RDQUAD,	0000	/04707-0000
2248	04710	6773	IOT166,	SDSQ	/04710-6773
2249	04711	5310	JMP	.-1	/04711-5310
2250	04712	6777	IOT167,	SDRD	/04712-6777
2251	04713	5707	JMP I	RDQUAD	/04713-5707
2252					
2253	04714	0000	SBCXOR,	0000	/04714-0000
2254	04715	7040	CMA		/04715-7040
2255	04716	3345	DCA	SBWORD	/04716-3345
2256	04717	1345	TAD	SBWORD	/04717-1345
2257	04720	0344	AND	CHKSUM	/04720-0344
2258	04721	7041	CMA	IAC	/04721-7041
2259	04722	7104	CLL	RAL	/04722-7104
2260	04723	1345	TAD	SBWORD	/04723-1345
2261	04724	1344	TAD	CHKSUM	/04724-1344
2262	04725	3344	DCA	CHKSUM	/04725-3344
2263	04726	1345	TAD	SBWORD	/04726-1345
2264	04727	7112	CLL	RTR	/04727-7112
2265	04730	7012	RTR		/04730-7012
2266	04731	7012	RTR		/04731-7012
2267	04732	3345	DCA	SBWORD	/04732-3345
2268	04733	1345	TAD	SBWORD	/04733-1345
2269	04734	0344	AND	CHKSUM	/04734-0344
2270	04735	7041	CMA	IAC	/04735-7041
2271	04736	7104	CLL	RAL	/04736-7104
2272	04737	1345	TAD	SBWORD	/04737-1345
2273	04740	1344	TAD	CHKSUM	/04740-1344
2274	04741	0376	AND	(77	/04741-0376
2275	04742	3344	DCA	CHKSUM	/04742-3344
2276	04743	5714	JMP I	SBCXOR	/04743-5714
2277	04744	0000	CHKSUM,	0000	/04744-0000
2278	04745	0000	SBWORD,	0000	/04745-2327
2279	04772	4321			
2280	04773	7700			
2281	04774	0010			

2282	04775	7746	
2283	04776	0077	
2284	04777	4400	
2285		5000	PAGE

2286			
2287	05000	3702	BKSRCH, TEXT /_BLOCK SEARCH FAILED/
2288	05001	1417	
2289	05002	0313	
2290	05003	4023	
2291	05004	0501	
2292	05005	2203	
2293	05006	1040	
2294	05007	0601	
2295	05010	1114	
2296	05011	0504	
2297	05012	0000	
2298	05013	3707	GODBAD, TEXT /_GOOD BAD_/
2299	05014	1717	
2300	05015	0440	
2301	05016	0201	
2302	05017	0437	
2303	05020	0000	
2304	05021	3714	MESS1, TEXT /_LOAD AND READ DATA REGISTER ERROR/
2305	05022	1701	
2306	05023	0440	
2307	05024	0116	
2308	05025	0440	
2309	05026	2205	
2310	05027	0104	
2311	05030	4004	
2312	05031	0124	
2313	05032	0140	
2314	05033	2205	
2315	05034	0711	
2316	05035	2324	
2317	05036	0522	
2318	05037	4005	
2319	05040	2222	
2320	05041	1722	
2321	05042	0000	
2322	05043	3714	MESS2, TEXT /_LOAD AND READ COMMAND REGISTER ERROR/
2323	05044	1701	
2324	05045	0440	
2325	05046	0116	
2326	05047	0440	
2327	05050	2205	
2328	05051	0104	
2329	05052	4003	
2330	05053	1715	
2331	05054	1501	
2332	05055	1604	
2333	05056	4022	
2334	05057	0507	
2335	05060	1123	
2336	05061	2405	
2337	05062	2240	
2338	05063	0522	
2339	05064	2217	
2340	05065	2200	

2341	05066	3711	MESS3, TEXT /_INITIALIZE TEST/
2342	05067	1611	
2343	05070	2411	
2344	05071	0114	
2345	05072	1132	
2346	05073	0540	
2347	05074	2405	
2348	05075	2324	
2349	05076	0000	
2350	05077	3703	MESS4, TEXT /_CAF DID NOT CLEAR COMMAND REGISTER/
2351	05100	0106	
2352	05101	4004	
2353	05102	1104	
2354	05103	4016	
2355	05104	1724	
2356	05105	4003	
2357	05106	1405	
2358	05107	0122	
2359	05110	4003	
2360	05111	1715	
2361	05112	1501	
2362	05113	1604	
2363	05114	4022	
2364	05115	0507	
2365	05116	1123	
2366	05117	2405	
2367	05120	2200	
2368	05121	3703	MESS5, TEXT /_CHECK SDLC, SDLD, SDRC, SDRD AND AC CLEAR/
2369	05122	1005	
2370	05123	0313	
2371	05124	4023	
2372	05125	0414	
2373	05126	0354	
2374	05127	4023	
2375	05130	0414	
2376	05131	0454	
2377	05132	4023	
2378	05133	0422	
2379	05134	0354	
2380	05135	4023	
2381	05136	0422	
2382	05137	0440	
2383	05140	0116	
2384	05141	0440	
2385	05142	0103	
2386	05143	4003	
2387	05144	1405	
2388	05145	0122	
2389	05146	0000	
2390	05147	4023	MESS6, TEXT / SDLC/
2391	05150	0414	
2392	05151	0300	
2393	05152	4023	MESS7, TEXT / SDRC/
2394	05153	0422	
2395	05154	0300	

2396	05155	4023	MESS8, TEXT / SDLD/
2397	05156	0414	
2398	05157	0400	
2399	05160	4023	MESS9, TEXT / SDRD/
2400	05161	0422	
2401	05162	0400	
2402	05163	3723	MESS10, TEXT /_SINGLE LINE FLAG SKIP INSTRUCTION AND LOGIC/
2403	05164	1116	
2404	05165	0714	
2405	05166	0540	
2406	05167	1411	
2407	05170	1605	
2408	05171	4006	
2409	05172	1401	
2410	05173	0740	
2411	05174	2313	
2412	05175	1120	
2413	05176	4011	
2414	05177	1623	
2415	05200	2422	
2416	05201	2503	
2417	05202	2411	
2418	05203	1716	
2419	05204	4001	
2420	05205	1604	
2421	05206	4014	
2422	05207	1707	
2423	05210	1103	
2424	05211	0000	
2425	05212	4017	MESS11, TEXT / OR SDSS ALWAYS SKIPS/
2426	05213	2240	
2427	05214	2304	
2428	05215	2323	
2429	05216	4001	
2430	05217	1427	
2431	05220	0131	
2432	05221	2340	
2433	05222	2313	
2434	05223	1120	
2435	05224	2300	
2436	05225	4017	MESS12, TEXT / OR SDSS DOES NOT SKIP/
2437	05226	2240	
2438	05227	2304	
2439	05230	2323	
2440	05231	4004	
2441	05232	1705	
2442	05233	2340	
2443	05234	1617	
2444	05235	2440	
2445	05236	2313	
2446	05237	1120	
2447	05240	0000	
2448	05241	4023	MESS13, TEXT / SDSS/
2449	05242	0423	
2450	05243	2300	

2451	05244	4003	MESS14, TEXT / CAF/
2452	05245	0106	
2453	05246	0000	
2454	05247	4023	MESS15, TEXT / SDST, SDSQ, OR SDLC/
2455	05250	0423	
2456	05251	2454	
2457	05252	4023	
2458	05253	0423	
2459	05254	2154	
2460	05255	4017	
2461	05256	2240	
2462	05257	2304	
2463	05260	1403	
2464	05261	0000	
2465	05262	3721	MESS19, TEXT /_QUAD LINE FLAG SKIP INSTRUCTION AND LOGIC/
2466	05263	2501	
2467	05264	0440	
2468	05265	1411	
2469	05266	1605	
2470	05267	4006	
2471	05270	1401	
2472	05271	0740	
2473	05272	2313	
2474	05273	1120	
2475	05274	4011	
2476	05275	1623	
2477	05276	2422	
2478	05277	2503	
2479	05300	2411	
2480	05301	1716	
2481	05302	4001	
2482	05303	1604	
2483	05304	4014	
2484	05305	1707	
2485	05306	1103	
2486	05307	0000	
2487	05310	4017	MESS20, TEXT / OR SDSQ ALWAYS SKIPS/
2488	05311	2240	
2489	05312	2304	
2490	05313	2321	
2491	05314	4001	
2492	05315	1427	
2493	05316	0131	
2494	05317	2340	
2495	05320	2313	
2496	05321	1120	
2497	05322	2300	
2498	05323	4023	MESS21, TEXT / SET TOO SOON/
2499	05324	0524	
2500	05325	4024	
2501	05326	1717	
2502	05327	4023	
2503	05330	1717	
2504	05331	1600	
2505	05332	4017	MESS22, TEXT / OR SDSQ DOES NOT SKIP/

2506	05333	2240	
2507	05334	2304	
2508	05335	2321	
2509	05336	4004	
2510	05337	1705	
2511	05340	2340	
2512	05341	1617	
2513	05342	2440	
2514	05343	2313	
2515	05344	1120	
2516	05345	0000	
2517	05346	4023	MESS23, TEXT / SDSQ/
2518	05347	0423	
2519	05350	2100	
2520	05351	4023	MESS28, TEXT / SDST, SDSS, OR SDLC/
2521	05352	0423	
2522	05353	2454	
2523	05354	4023	
2524	05355	0423	
2525	05356	2354	
2526	05357	4017	
2527	05360	2240	
2528	05361	2304	
2529	05362	1403	
2530	05363	0000	
2531	05364	4003	MESS29, TEXT " COUNTER FLIP/FLOP NOT PROPERLY CLEARED"
2532	05365	1725	
2533	05366	1624	
2534	05367	0522	
2535	05370	4006	
2536	05371	1411	
2537	05372	2057	
2538	05373	0614	
2539	05374	1720	
2540	05375	4016	
2541	05376	1724	
2542	05377	4020	
2543	05400	2217	
2544	05401	2005	
2545	05402	2214	
2546	05403	3140	
2547	05404	0314	
2548	05405	0501	
2549	05406	2205	
2550	05407	0400	
2551	05410	3724	MESS30, TEXT /_TIMING ERROR SKIP INSTRUCTION AND LOGIC/
2552	05411	1115	
2553	05412	1116	
2554	05413	0740	
2555	05414	0522	
2556	05415	2217	
2557	05416	2240	
2558	05417	2313	
2559	05420	1120	
2560	05421	4011	

2561	05422	1623	
2562	05423	2422	
2563	05424	2503	
2564	05425	2411	
2565	05426	1716	
2566	05427	4001	
2567	05430	1604	
2568	05431	4014	
2569	05432	1707	
2570	05433	1103	
2571	05434	0000	
2572	05435	4017	MESS31, TEXT / OR SDST ALWAYS SKIPS/
2573	05436	2240	
2574	05437	2304	
2575	05440	2324	
2576	05441	4001	
2577	05442	1427	
2578	05443	0131	
2579	05444	2340	
2580	05445	2313	
2581	05446	1120	
2582	05447	2300	
2583	05450	4011	MESS32, TEXT / IN READ MODE OR SDST DOES NOT SKIP/
2584	05451	1640	
2585	05452	2205	
2586	05453	0104	
2587	05454	4015	
2588	05455	1704	
2589	05456	0540	
2590	05457	1722	
2591	05460	4023	
2592	05461	0423	
2593	05462	2440	
2594	05463	0417	
2595	05464	0523	
2596	05465	4016	
2597	05466	1724	
2598	05467	4023	
2599	05470	1311	
2600	05471	2000	
2601	05472	4023	MESS33, TEXT / SDST/
2602	05473	0423	
2603	05474	2400	
2604	05475	4023	MESS35, TEXT / STATUS BIT NOT SET IN COMMAND REGISTER/
2605	05476	2401	
2606	05477	2425	
2607	05500	2340	
2608	05501	0211	
2609	05502	2440	
2610	05503	1617	
2611	05504	2440	
2612	05505	2305	
2613	05506	2440	
2614	05507	1116	
2615	05510	4003	

2616	05511	1715	
2617	05512	1501	
2618	05513	1604	
2619	05514	4022	
2620	05515	0507	
2621	05516	1123	
2622	05517	2405	
2623	05520	2200	
2624	05521	4011	MESS37, TEXT / IN WRITE MODE/
2625	05522	1640	
2626	05523	2722	
2627	05524	1124	
2628	05525	0540	
2629	05526	1517	
2630	05527	0405	
2631	05530	0000	
2632	05531	4004	MESS38, TEXT " DOES NOT CLEAR WRITE FLIP/FLOP"
2633	05532	1705	
2634	05533	2340	
2635	05534	1617	
2636	05535	2440	
2637	05536	0314	
2638	05537	0501	
2639	05540	2240	
2640	05541	2722	
2641	05542	1124	
2642	05543	0540	
2643	05544	0614	
2644	05545	1120	
2645	05546	5706	
2646	05547	1417	
2647	05550	2000	
2648	05551	4016	MESS39, TEXT / NOT SET BY SDRC SDRD, OR SDLC/
2649	05552	1724	
2650	05553	4023	
2651	05554	0524	
2652	05555	4002	
2653	05556	3140	
2654	05557	2304	
2655	05560	2203	
2656	05561	4023	
2657	05562	0422	
2658	05563	0454	
2659	05564	4017	
2660	05565	2240	
2661	05566	2304	
2662	05567	1403	
2663	05570	0000	
2664			MESS43,
2665	05571	3725	TEXT /_UP TO SPEED CIRCUITRY CHECK USING 'CLEAR MARK TRACK REGISTER' FEATURE/
2666	05572	2040	
2667	05573	2417	
2668	05574	4023	
2669	05575	2005	
2670	05576	0504	

2671	05577	4003	
2672	05600	1122	
2673	05601	0325	
2674	05602	1124	
2675	05603	2231	
2676	05604	4003	
2677	05605	1005	
2678	05606	0313	
2679	05607	4025	
2680	05610	2311	
2681	05611	1607	
2682	05612	4047	
2683	05613	0314	
2684	05614	0501	
2685	05615	2240	
2686	05616	1501	
2687	05617	2213	
2688	05620	4024	
2689	05621	2201	
2690	05622	0313	
2691	05623	4022	
2692	05624	0507	
2693	05625	1123	
2694	05626	2405	
2695	05627	2247	
2696	05630	4006	
2697	05631	0501	
2698	05632	2425	
2699	05633	2205	
2700	05634	0000	
2701	05635	4047	MESS44, TEXT / 'GO' /
2702	05636	0717	
2703	05637	4700	
2704	05640	4047	MESS45, TEXT / 'STOP' /
2705	05641	2324	
2706	05642	1720	
2707	05643	4700	
2708	05644	4047	MESS46, TEXT / 'REV' TO 'FWD' /
2709	05645	2205	
2710	05646	2647	
2711	05647	4024	
2712	05650	1740	
2713	05651	4706	
2714	05652	2704	
2715	05653	4700	
2716	05654	4047	MESS47, TEXT / 'FWD' TO 'REV' /
2717	05655	0627	
2718	05656	0447	
2719	05657	4024	
2720	05660	1740	
2721	05661	4722	
2722	05662	0526	
2723	05663	4700	
2724	05664	4047	MESS48, TEXT / 'UNIT 0' TO 'UNIT 1' /
2725	05665	2516	

2726	05666	1124	
2727	05667	4060	
2728	05670	4740	
2729	05671	2417	
2730	05672	4047	
2731	05673	2516	
2732	05674	1124	
2733	05675	4061	
2734	05676	4700	
2735	05677	4047	MESS49, TEXT / 'UNIT 1' TO 'UNIT 0' /
2736	05700	2516	
2737	05701	1124	
2738	05702	4061	
2739	05703	4740	
2740	05704	2417	
2741	05705	4047	
2742	05706	2516	
2743	05707	1124	
2744	05710	4060	
2745	05711	4700	
2746	05712	3747	MESS50, TEXT /_'SELECT ERROR' TESTS/
2747	05713	2305	
2748	05714	1405	
2749	05715	0324	
2750	05716	4005	
2751	05717	2222	
2752	05720	1722	
2753	05721	4740	
2754	05722	2405	
2755	05723	2324	
2756	05724	2300	
2757	05725	3724	MESS51, TEXT /_TIMING ERROR SET/
2758	05726	1115	
2759	05727	1116	
2760	05730	0740	
2761	05731	0522	
2762	05732	2217	
2763	05733	2240	
2764	05734	2305	
2765	05735	2400	
2766	05736	3716	MESS52, TEXT /_NO SELECT ERROR STATUS FROM UNIT 1/
2767	05737	1740	
2768	05740	2305	
2769	05741	1405	
2770	05742	0324	
2771	05743	4005	
2772	05744	2222	
2773	05745	1722	
2774	05746	4023	
2775	05747	2401	
2776	05750	2425	
2777	05751	2340	
2778	05752	0622	
2779	05753	1715	
2780	05754	4025	

2781	05755	1611	
2782	05756	2440	
2783	05757	6100	
2784	05760	3747	MESS53, TEXT /_'WRITE' SELECT ERROR/
2785	05761	2722	
2786	05762	1124	
2787	05763	0547	
2788	05764	4023	
2789	05765	0514	
2790	05766	0503	
2791	05767	2440	
2792	05770	0522	
2793	05771	2217	
2794	05772	2200	
2795	05773	3747	MESS54, TEXT /_'WRITE LOCK OUT' TESTS/
2796	05774	2722	
2797	05775	1124	
2798	05776	0540	
2799	05777	1417	
2800	06000	0313	
2801	06001	4017	
2802	06002	2524	
2803	06003	4740	
2804	06004	2405	
2805	06005	2324	
2806	06006	2300	
2807	06007	3716	MESS55, TEXT /_NO WRITE LOCK OUT STATUS FROM UNIT 0/
2808	06010	1740	
2809	06011	2722	
2810	06012	1124	
2811	06013	0540	
2812	06014	1417	
2813	06015	0313	
2814	06016	4017	
2815	06017	2524	
2816	06020	4023	
2817	06021	2401	
2818	06022	2425	
2819	06023	2340	
2820	06024	0622	
2821	06025	1715	
2822	06026	4025	
2823	06027	1611	
2824	06030	2440	
2825	06031	6000	
2826	06032	3747	MESS56, TEXT /_'WRITE' WRITE LOCK OUT/
2827	06033	2722	
2828	06034	1124	
2829	06035	0547	
2830	06036	4027	
2831	06037	2211	
2832	06040	2405	
2833	06041	4014	
2834	06042	1703	
2835	06043	1340	

2836	06044	1725	
2837	06045	2400	
2838	06046	3704	MESS57, TEXT /_DATA WRITTEN FORWARD/
2839	06047	0124	
2840	06050	0140	
2841	06051	2722	
2842	06052	1124	
2843	06053	2405	
2844	06054	1640	
2845	06055	0617	
2846	06056	2227	
2847	06057	0122	
2848	06060	0400	
2849	06061	3727	MESS58, TEXT /_WRITE DATA FORWARD/
2850	06062	2211	
2851	06063	2405	
2852	06064	4004	
2853	06065	0124	
2854	06066	0140	
2855	06067	0617	
2856	06070	2227	
2857	06071	0122	
2858	06072	0400	
2859	06073	3722	MESS59, TEXT /_READ DATA FORWARD/
2860	06074	0501	
2861	06075	0440	
2862	06076	0401	
2863	06077	2401	
2864	06100	4006	
2865	06101	1722	
2866	06102	2701	
2867	06103	2204	
2868	06104	0000	
2869	06105	3722	MESS60, TEXT /_READ DATA BACKWARD/
2870	06106	0501	
2871	06107	0440	
2872	06110	0401	
2873	06111	2401	
2874	06112	4002	
2875	06113	0103	
2876	06114	1327	
2877	06115	0122	
2878	06116	0400	
2879	06117	3704	MESS61, TEXT /_DATA WRITTEN BACKWARD/
2880	06120	0124	
2881	06121	0140	
2882	06122	2722	
2883	06123	1124	
2884	06124	2405	
2885	06125	1640	
2886	06126	0201	
2887	06127	0313	
2888	06130	2701	
2889	06131	2204	
2890	06132	0000	

2891	06133	3727	MESS62, TEXT /_WRITE DATA BACKWARD/
2892	06134	2211	
2893	06135	2405	
2894	06136	4004	
2895	06137	0124	
2896	06140	0140	
2897	06141	0201	
2898	06142	0313	
2899	06143	2701	
2900	06144	2204	
2901	06145	0000	
2902	06146	3716	MESS63, TEXT /_NO UNIT 0 SELECTED/
2903	06147	1740	
2904	06150	2516	
2905	06151	1124	
2906	06152	4060	
2907	06153	4023	
2908	06154	0514	
2909	06155	0503	
2910	06156	2405	
2911	06157	0400	
2912	06160	4016	MESSNC, TEXT / NOT CLEARED BY/
2913	06161	1724	
2914	06162	4003	
2915	06163	1405	
2916	06164	0122	
2917	06165	0504	
2918	06166	4002	
2919	06167	3100	
2920	06170	4003	MESSCL, TEXT / CLEARED BY/
2921	06171	1405	
2922	06172	0122	
2923	06173	0504	
2924	06174	4002	
2925	06175	3100	
2926	06176	4001	MESSAS, TEXT / ALWAYS SET/
2927	06177	1427	
2928	06200	0131	
2929	06201	2340	
2930	06202	2305	
2931	06203	2400	
2932	06204	4004	MESSNS, TEXT / DOES NOT SET/
2933	06205	1705	
2934	06206	2340	
2935	06207	1617	
2936	06210	2440	
2937	06211	2305	
2938	06212	2400	
2939	06213	3700	MESSCR, TEXT /_/
2940	06214	3701	MESSAC, TEXT /_AC/
2941	06215	0300	
2942	06216	3723	MESSSL, TEXT /_SINGLE LINE FLAG/
2943	06217	1116	
2944	06220	0714	
2945	06221	0540	

2946	06222	1411			
2947	06223	1605			
2948	06224	4006			
2949	06225	1401			
2950	06226	0700			
2951	06227	3721	MESSQL, TEXT	/_QUAD LINE FLAG/	
2952	06230	2501			
2953	06231	0440			
2954	06232	1411			
2955	06233	1605			
2956	06234	4006			
2957	06235	1401			
2958	06236	0700			
2959	06237	3724	MESSTE, TEXT	/_TIMING ERROR/	
2960	06240	1115			
2961	06241	1116			
2962	06242	0740			
2963	06243	0522			
2964	06244	2217			
2965	06245	2200			
2966	06246	3715	MESSME, TEXT	/_MARK TRACK ERROR/	
2967	06247	0122			
2968	06250	1340			
2969	06251	2422			
2970	06252	0103			
2971	06253	1340			
2972	06254	0522			
2973	06255	2217			
2974	06256	2200			
2975	06257	0000	LIST1,	0000	/0 /06257-0000
2976	06260	5066		MESS3	/1 /06260-5066
2977	06261	5121		MESS5	/2 /06261-5121
2978	06262	5163		MESS10	/3 /06262-5163
2979	06263	5262		MESS19	/4 /06263-5262
2980	06264	5410		MESS30	/5 /06264-5410
2981	06265	5571		MESS43	/6 /06265-5571
2982	06266	6213	LIST2,	MESSCR	/0 /06266-6213
2983	06267	6213		MESSCR	/1 /06267-6213
2984	06270	6214		MESSAC	/2 /06270-6214
2985	06271	6216		MESSSL	/3 /06271-6216
2986	06272	6227		MESSQL	/4 /06272-6227
2987	06273	6237		MESSTE	/5 /06273-6237
2988	06274	6246		MESSME	/6 /06274-6246
2989	06275	6213		MESSCR	/7 /06275-6213
2990	06276	6213		MESSCR	/10 /06276-6213
2991	06277	6213		MESSCR	/11 /06277-6213
2992	06300	6213		MESSCR	/12 /06300-6213
2993	06301	0000	LIST3,	0000	/0 /06301-0000
2994	06302	6160		MESSNC	/1 /06302-6160
2995	06303	6170		MESSCL	/2 /06303-6170
2996	06304	6176		MESSAS	/3 /06304-6176
2997	06305	6204		MESSNS	/4 /06305-6204
2998	06306	0000	LIST4,	0000	/0 /06306-0000
2999	06307	5077		MESS4	/1 /06307-5077
3000	06310	5147		MESS6	/2 /06310-5147

3001	06311	5152		MESS7	/3	/06311-5152
3002	06312	5155		MESS8	/4	/06312-5155
3003	06313	5160		MESS9	/5	/06313-5160
3004	06314	5212		MESS11	/6	/06314-5212
3005	06315	5225		MESS12	/7	/06315-5225
3006	06316	5241		MESS13	/10	/06316-5241
3007	06317	5244		MESS14	/11	/06317-5244
3008	06320	5247		MESS15	/12	/06320-5247
3009	06321	5310		MESS20	/13	/06321-5310
3010	06322	5323		MESS21	/14	/06322-5323
3011	06323	5332		MESS22	/15	/06323-5332
3012	06324	5346		MESS23	/16	/06324-5346
3013	06325	5351		MESS28	/17	/06325-5351
3014	06326	5364		MESS29	/20	/06326-5364
3015	06327	5435		MESS31	/21	/06327-5435
3016	06330	5450		MESS32	/22	/06330-5450
3017	06331	5472		MESS33	/23	/06331-5472
3018	06332	5475		MESS35	/24	/06332-5475
3019	06333	5521		MESS37	/25	/06333-5521
3020	06334	5531		MESS38	/26	/06334-5531
3021	06335	5551		MESS39	/27	/06335-5551
3022	06336	5635		MESS44	/30	/06336-5635
3023	06337	5640		MESS45	/31	/06337-5640
3024	06340	5644		MESS46	/32	/06340-5644
3025	06341	5654		MESS47	/33	/06341-5654
3026	06342	5664		MESS48	/34	/06342-5664
3027	06343	5677		MESS49	/35	/06343-5677
3028	06344	5725		MESS51	/36	/06344-5725
3029	06345	5736		MESS52	/37	/06345-5736
3030	06346	5760		MESS53	/40	/06346-5760
3031	06347	6007		MESS55	/41	/06347-6007
3032	06350	6032		MESS56	/42	/06350-6032
3033	06351	6061		MESS58	/43	/06351-6061
3034	06352	6073		MESS59	/44	/06352-6073
3035	06353	6105		MESS60	/45	/06353-6105
3036	06354	6133		MESS62	/46	/06354-6133
3037	06355	6146		MESS63	/47	/06355-6146
3038	06356	5021	LIST5,	MESS1	/0	/06356-5021
3039	06357	5043		MESS2	/1	/06357-5043
3040	06360	5712	LIST6,	MESS50	/0	/06360-5712
3041	06361	5773		MESS54	/1	/06361-5773
3042		6400	PAGE			

3043						
3044	06400	4445	MODIFY,	JMS I	XLAS	/06400-4445
3045	06401	0221		AND	MODMS1	/06401-0221
3046	06402	3223		DCA	MODCON	/06402-3223
3047	06403	1230		TAD	MODTAB	/06403-1230
3048	06404	3224		DCA	MODPT1	/06404-3224
3049	06405	1227		TAD	MODSIZ	/06405-1227
3050	06406	3226		DCA	MODCNT	/06406-3226
3051	06407	1624	MODLUP,	TAD I	MODPT1	/06407-1624
3052	06410	3225		DCA	MODPT2	/06410-3225
3053	06411	1625		TAD I	MODPT2	/06411-1625
3054	06412	0222		AND	MODMS2	/06412-0222
3055	06413	1223		TAD	MODCON	/06413-1223
3056	06414	3625		DCA I	MODPT2	/06414-3625
3057	06415	2224		ISZ	MODPT1	/06415-2224
3058	06416	2226		ISZ	MODCNT	/06416-2226
3059	06417	5207		JMP	MODLUP	/06417-5207
3060	06420	7402		HLT		/06420-7402
3061	06421	0030	MODMS1,	0030		/06421-0030
3062	06422	7747	MODMS2,	7747		/06422-7747
3063	06423	0000	MODCON,	0000		/06423-0000
3064	06424	0000	MODPT1,	0000		/06424-0000
3065	06425	0000	MODPT2,	0000		/06425-0000
3066	06426	0000	MODCNT,	0000		/06426-0000
3067	06427	7461	MODSIZ,	-MODEND+MODTAB		/06427-7461
3068	06430	6431	MODTAB,	.+1		/06430-6431
3069	06431	0207		IOT1		/06431-0207
3070	06432	0212		IOT2		/06432-0212
3071	06433	0214		IOT3		/06433-0214
3072	06434	0245		IOT4		/06434-0245
3073	06435	0247		IOT5		/06435-0247
3074	06436	0311		IOT6		/06436-0311
3075	06437	0316		IOT7		/06437-0316
3076	06440	0404		IOT8		/06440-0404
3077	06441	0420		IOT9		/06441-0420
3078	06442	0422		IOT10		/06442-0422
3079	06443	0436		IOT11		/06443-0436
3080	06444	0452		IOT12		/06444-0452
3081	06445	0454		IOT13		/06445-0454
3082				/IOT14B		/06446-0603
3083	06446	0604		IOT14		/06446-0604
3084	06447	0611		IOT15		/06447-0611
3085	06450	0616		IOT16		/06450-0616
3086	06451	0632		SING1		/06451-0632
3087	06452	0642		SING2		/06452-0642
3088	06453	0650		IOT17		/06453-0650
3089	06454	0660		IOT18		/06454-0660
3090	06455	0661		SING3		/06455-0661
3091	06456	0664		IOT19		/06456-0664
3092	06457	0670		IOT20		/06457-0670
3093	06460	0677		SING4		/06460-0677
3094	06461	0702		IOT21		/06461-0702
3095	06462	0706		IOT22		/06462-0706
3096	06463	0715		SING5		/06463-0715
3097	06464	0720		IOT23		/06464-0720

3098	06465	0724	IOT24	/06465-0724
3099	06466	1000	SING6	/06466-1000
3100	06467	1002	IOT25	/06467-1002
3101	06470	1004	IOT26	/06470-1004
3102	06471	1007	IOT27	/06471-1007
3103	06472	1010	IOT28	/06472-1010
3104			/SING7	/06473-1020
3105			/IOT29B	/06473-1026
3106	06473	1027	IOT29	/06473-1027
3107	06474	1034	IOT30	/06474-1034
3108	06475	1035	QUAD0	/06475-1035
3109	06476	1036	IOT31	/06476-1036
3110	06477	1040	IOT32	/06477-1040
3111	06500	1045	IOT33	/06500-1045
3112	06501	1050	IOT34	/06501-1050
3113	06502	1055	IOT35	/06502-1055
3114	06503	1057	IOT36	/06503-1057
3115	06504	1064	IOT37	/06504-1064
3116	06505	1067	IOT38	/06505-1067
3117	06506	1077	QUAD1	/06506-1077
3118	06507	1107	QUAD2	/06507-1107
3119	06510	1115	IOT39	/06510-1115
3120	06511	1125	IOT40	/06511-1125
3121	06512	1126	QUAD3	/06512-1126
3122	06513	1131	IOT41	/06513-1131
3123	06514	1135	IOT42	/06514-1135
3124	06515	1200	QUAD4	/06515-1200
3125	06516	1203	IOT43	/06516-1203
3126	06517	1207	IOT44	/06517-1207
3127	06520	1216	QUAD5	/06520-1216
3128	06521	1221	IOT45	/06521-1221
3129	06522	1225	IOT46	/06522-1225
3130	06523	1234	QUAD6	/06523-1234
3131	06524	1236	IOT47	/06524-1236
3132	06525	1240	IOT48	/06525-1240
3133	06526	1244	IOT49	/06526-1244
3134	06527	1250	IOT50	/06527-1250
3135	06530	1263	IOT51	/06530-1263
3136	06531	1264	IOT52	/06531-1264
3137	06532	1266	IOT53	/06532-1266
3138	06533	1271	IOT54	/06533-1271
3139	06534	1300	IOT55	/06534-1300
3140			/IOT56B	/06535-1314
3141	06535	1316	IOT56	/06535-1316
3142	06536	1317	IOT57	/06536-1317
3143	06537	1321	IOT58	/06537-1321
3144	06540	1325	TIME0	/06540-1325
3145	06541	1333	IOT59	/06541-1333
3146	06542	1343	TIME1	/06542-1343
3147	06543	1400	TIME2	/06543-1400
3148	06544	1406	IOT60	/06544-1406
3149	06545	1416	IOT61	/06545-1416
3150	06546	1417	TIME3	/06546-1417
3151	06547	1421	IOT62	/06547-1421
3152	06550	1440	IOT63	/06550-1440

3153	06551	1441	TIME4	/06551-1441
3154	06552	1443	IOT64	/06552-1443
3155	06553	1447	IOT65	/06553-1447
3156	06554	1460	IOT66	/06554-1460
3157	06555	1462	IOT67	/06555-1462
3158	06556	1464	IOT68	/06556-1464
3159	06557	1471	IOT69	/06557-1471
3160	06560	1474	IOT70	/06560-1474
3161	06561	1500	IOT71	/06561-1500
3162	06562	1505	IOT72	/06562-1505
3163	06563	1521	IOT73	/06563-1521
3164	06564	1522	IOT74	/06564-1522
3165	06565	1527	IOT75	/06565-1527
3166	06566	1530	IOT76	/06566-1530
3167	06567	1531	IOT77	/06567-1531
3168	06570	1541	IOT78	/06570-1541
3169	06571	1603	IOT82	/06571-1603
3170	06572	1605	IOT83	/06572-1605
3171	06573	1611	IOT84	/06573-1611
3172	06574	1625	IOT85	/06574-1625
3173	06575	1626	IOT86	/06575-1626
3174	06576	1630	IOT87	/06576-1630
3175	06577	1634	IOT88	/06577-1634
3176	06600	1640	IOT89	/06600-1640
3177	06601	1654	IOT90	/06601-1654
3178	06602	1655	IOT91	/06602-1655
3179	06603	1657	IOT92	/06603-1657
3180	06604	1664	IOT93	/06604-1664
3181	06605	1670	IOT94	/06605-1670
3182	06606	1704	IOT95	/06606-1704
3183	06607	1705	IOT96	/06607-1705
3184	06610	1707	IOT97	/06610-1707
3185	06611	1714	IOT98	/06611-1714
3186	06612	1720	IOT99	/06612-1720
3187	06613	2002	IOT100	/06613-2002
3188	06614	2003	IOT101	/06614-2003
3189	06615	2005	IOT102	/06615-2005
3190	06616	2012	IOT103	/06616-2012
3191	06617	2016	IOT104	/06617-2016
3192	06620	2036	IOT105	/06620-2036
3193	06621	2037	IOT106	/06621-2037
3194	06622	2041	IOT107	/06622-2041
3195	06623	2046	IOT108	/06623-2046
3196	06624	2052	IOT109	/06624-2052
3197	06625	2067	IOT110	/06625-2067
3198	06626	2204	IOT111	/06626-2204
3199	06627	2206	DISLUP	/06627-2206
3200	06630	2211	IOT112	/06630-2211
3201	06631	2213	IOT113	/06631-2213
3202	06632	2227	IOT114	/06632-2227
3203	06633	2241	IOT115	/06633-2241
3204	06634	2253	IOT116	/06634-2253
3205	06635	2402	IOT117	/06635-2402
3206	06636	2410	IOT118	/06636-2410
3207	06637	2413	IOT119	/06637-2413

3208	06640	2510	IOT120	/06640-2510
3209	06641	2512	IOT121	/06641-2512
3210	06642	2520	IOT122	/06642-2520
3211	06643	2522	IOT123	/06643-2522
3212	06644	2604	IOT124	/06644-2604
3213	06645	2605	IOT125	/06645-2605
3214	06646	2612	IOT126	/06646-2612
3215	06647	2614	IOT127	/06647-2614
3216	06650	2633	IOT128	/06650-2633
3217	06651	2637	IOT129	/06651-2637
3218	06652	2652	SELCT2	/06652-2652
3219	06653	2656	IOT130	/06653-2656
3220			/IOT131B	/06654-2676
3221	06654	2677	IOT131	/06654-2677
3222	06655	2716	IOT132	/06655-2716
3223	06656	2722	IOT133	/06656-2722
3224	06657	3606	RSRCHO	/06657-3606
3225	06660	3607	IOT134	/06660-3607
3226	06661	3615	RSRCH1	/06661-3615
3227	06662	3617	IOT135	/06662-3617
3228	06663	3620	IOT136	/06663-3620
3229	06664	3632	IOT13A	/06664-3632
3230	06665	3642	IOT137	/06665-3642
3231	06666	3622	IOT138	/06666-3622
3232	06667	3640	RSRCH2	/06667-3640
3233	06670	3654	RSTURN	/06670-3654
3234	06671	4056	IOT139	/06671-4056
3235	06672	4111	IOT140	/06672-4111
3236	06673	4113	IOT141	/06673-4113
3237	06674	4201	IOT142	/06674-4201
3238	06675	4203	IOT143	/06675-4203
3239	06676	4245	IOT144	/06676-4245
3240	06677	4247	IOT145	/06677-4247
3241	06700	4406	SRCHO	/06700-4406
3242	06701	4407	IOT146	/06701-4407
3243	06702	4415	SRCH1	/06702-4415
3244	06703	4417	IOT147	/06703-4417
3245	06704	4420	IOT148	/06704-4420
3246	06705	4422	IOT149	/06705-4422
3247	06706	4432	IOT14A	/06706-4432
3248	06707	4442	IOT150	/06707-4442
3249	06710	4454	IOT15B	/06710-4454
3250	06711	4440	SRCH2	/06711-4440
3251	06712	3733	IOT151	/06712-3733
3252	06713	3734	IOT15A	/06713-3734
3253	06714	4522	IOT152	/06714-4522
3254	06715	4524	IOT153	/06715-4524
3255	06716	4272	IOT154	/06716-4272
3256	06717	4546	IOT155	/06717-4546
3257	06720	4550	IOT156	/06720-4550
3258	06721	4646	IOT157	/06721-4646
3259	06722	4651	IOT158	/06722-4651
3260	06723	4653	IOT159	/06723-4653
3261	06724	4662	IOT160	/06724-4662
3262	06725	4614	IOT16A	/06725-4614

3263	06726	4612	READ1	/06726-4612
3264	06727	4664	IOT161	/06727-4664
3265	06730	4674	IOT162	/06730-4674
3266	06731	4676	IOT163	/06731-4676
3267	06732	4702	IOT164	/06732-4702
3268	06733	4704	IOT165	/06733-4704
3269	06734	4710	IOT166	/06734-4710
3270	06735	4712	IOT167	/06735-4712
3271	06736	4270	IOT168	/06736-4270
3272	06737	4275	IOT169	/06737-4275
3273	06740	4277	IOT170	/06740-4277
3274	06741	2110	IOT171	/06741-2110
3275	06742	0123	IOT172	/06742-0123
3276	06743	0130	IOT173	/06743-0130
3277	06744	0132	IOT174	/06744-0132
3278	06745	0141	IOT175	/06745-0141
3279	06746	0143	IOT176	/06746-0143
3280	06747	0145	MODEND, IOT177	/06747-0145
3281				
3282			\$	
3283	00160	4107		
3284	00161	4244		
3285	00162	4200		
3286	00163	4225		
3287	00164	2701		
3288	00165	1000		
3289	00166	5076		
3290	00167	6777		
3291	00170	7752		
3292	00171	7756		
3293	00172	0077		
3294	00173	4707		
3295	00174	2234		
3296	00175	3000		
3297	00176	0212		
3298	00177	0215		

AUTO	0017	DECX8C	3547	HANG2	0056	IOT14A	4432
BADBLK	4461	DISBL	0115	HEADTP	4047	IOT140	4111
BKSrch	5000	DISBLK	2233	HEAD1	0067	IOT141	4113
BLK	0043	DISDA	0116	HEAD2	0066	IOT142	4201
BLKCH	2100	DISDAT	2236	IN	0035	IOT143	4203
BLKCHK	2400	DISEND	2224	IND	0031	IOT144	4245
BLKCN	0117	DISLUP	2206	INDIR	1145	IOT145	4247
BLKEND	0127	DISTRK	2235	INITST	0307	IOT146	4407
BLKERR	2146	DONTPR	0573	IOT1	0207	IOT147	4417
BLKMRK	2426	ELIST1	0023	IOT10	0422	IOT148	4420
BLKREV	0120	ELIST2	0024	IOT100	2002	IOT149	4422
BLKSER	0140	ELIST3	0025	IOT101	2003	IOT15	0611
BLKTRY	0114	ELIST4	0026	IOT102	2005	IOT15A	3734
BLOCK	4102	ELIST5	0027	IOT103	2012	IOT15B	4454
BUFF1	7200	ELIST6	0030	IOT104	2016	IOT150	4442
BUFF2	7400	ENDZ	2404	IOT105	2036	IOT151	3733
CCNTR	3224	ENORM	0523	IOT106	2037	IOT152	4522
CHKCHK	4321	ERRARG	0032	IOT107	2041	IOT153	4524
CHKCLA	0400	ERROR	0472	IOT108	2046	IOT154	4272
CHKDAT	4127	ESPEC	0556	IOT109	2052	IOT155	4546
CHKERR	4107	FBLKCT	2113	IOT11	0436	IOT156	4550
CHKMES	4130	FILDCT	3440	IOT110	2067	IOT157	4646
CHKSUM	4744	FILDDT	3442	IOT111	2204	IOT158	4651
CLOOP	0270	FILDEC	3421	IOT112	2211	IOT159	4653
CLRWT	4267	FILDPT	3441	IOT113	2213	IOT16	0616
CNTR1	0036	FILICT	3416	IOT114	2227	IOT16A	4614
CNTR2	0037	FILIDT	3420	IOT115	2241	IOT160	4662
COMLUP	3212	FILINC	3400	IOT116	2253	IOT161	4664
COMP	3515	FILIPT	3417	IOT117	2402	IOT162	4674
COMPAR	3200	FILLC1	3323	IOT118	2410	IOT163	4676
COMREG	0240	FILLC2	3324	IOT119	2413	IOT164	4702
CRLF	0077	FILLP1	3321	IOT12	0452	IOT165	4704
CSDLC	0403	FILLP2	3322	IOT120	2510	IOT166	4710
CSDLD	0435	FILL0	3227	IOT121	2512	IOT167	4712
CSDRC	0417	FILL0C	3241	IOT122	2520	IOT168	4270
CSDRD	0451	FILL0P	3242	IOT123	2522	IOT169	4275
CSUMRT	4301	FILL1	3243	IOT124	2604	IOT17	0650
C200	0064	FILL1C	3256	IOT125	2605	IOT170	4277
C240	0063	FILL1P	3257	IOT126	2612	IOT171	2110
C400	0061	FILL2C	3273	IOT127	2614	IOT172	0123
C4000	0062	FILL2K	3274	IOT128	2633	IOT173	0130
C7	0060	FILL2P	3275	IOT129	2637	IOT174	0132
C77	0057	FILL25	3260	IOT13	0454	IOT175	0141
DATA	2452	FILPAT	3276	IOT13A	3632	IOT176	0143
DATERR	4000	FILPL1	3303	IOT130	2656	IOT177	0145
DATHD	4037	FILPL2	3307	IOT131	2677	IOT18	0660
DATHLT	4035	FILPNT	0044	IOT132	2716	IOT19	0664
DATLUP	0233	FILTC	3331	IOT133	2722	IOT2	0212
DATMES	4041	FILTP	3325	IOT134	3607	IOT20	0670
DATNUM	4017	FWDEXP	2422	IOT135	3617	IOT21	0702
DATPNT	4040	GODBAD	5013	IOT136	3620	IOT22	0706
DATREG	0201	GPNTR	3225	IOT137	3642	IOT23	0720
DBLOCK	2200	GUARD	2472	IOT138	3622	IOT24	0724
DECX8A	3522	HANG	2350	IOT139	4056	IOT25	1002
DECX8B	3534	HANG1	0055	IOT14	0604	IOT26	1004

IOT27	1007	IOT77	1531	MESS23	5346	NOHEAD	0534
IOT28	1010	IOT78	1541	MESS28	5351	OCNT	2347
IOT29	1027	IOT8	0404	MESS29	5364	OK	2743
IOT3	0214	IOT82	1603	MESS3	5066	ONUMB	2346
IOT30	1034	IOT83	1605	MESS30	5410	OPLOOP	2332
IOT31	1036	IOT84	1611	MESS31	5435	OPRINT	2324
IOT32	1040	IOT85	1625	MESS32	5450	OUT	0034
IOT33	1045	IOT86	1626	MESS33	5472	PASCNT	3477
IOT34	1050	IOT87	1630	MESS35	5475	PASS	3511
IOT35	1055	IOT88	1634	MESS37	5521	PREFIN	2462
IOT36	1057	IOT89	1640	MESS38	5531	QUAD	1023
IOT37	1064	IOT9	0420	MESS39	5551	QUAD0	1035
IOT38	1067	IOT90	1654	MESS4	5077	QUAD1	1077
IOT39	1115	IOT91	1655	MESS43	5571	QUAD2	1107
IOT4	0245	IOT92	1657	MESS44	5635	QUAD3	1126
IOT40	1125	IOT93	1664	MESS45	5640	QUAD4	1200
IOT41	1131	IOT94	1670	MESS46	5644	QUAD5	1216
IOT42	1135	IOT95	1704	MESS47	5654	QUAD6	1234
IOT43	1203	IOT96	1705	MESS48	5664	QUAD7	1260
IOT44	1207	IOT97	1707	MESS49	5677	QOLUP	1074
IOT45	1221	IOT98	1714	MESS5	5121	RADDR	4657
IOT46	1225	IOT99	1720	MESS50	5712	RBLKCT	2132
IOT47	1236	LIST1	6257	MESS51	5725	RCNT	4656
IOT48	1240	LIST2	6266	MESS52	5736	RCOUNT	4660
IOT49	1244	LIST3	6301	MESS53	5760	RDLAS	1151
IOT5	0247	LIST4	6306	MESS54	5773	RDQUAD	4707
IOT50	1250	LIST5	6356	MESS55	6007	RD1MRK	2507
IOT51	1263	LIST6	6360	MESS56	6032	RD6MRK	2515
IOT52	1264	LOCBED	4473	MESS57	6046	READ	4600
IOT53	1266	LOCK	2445	MESS58	6061	READR	3714
IOT54	1271	LOOP1	0105	MESS59	6073	READ1	4612
IOT55	1300	MCRLF	2322	MESS6	5147	READ2	4632
IOT56	1316	MESSAGE	2264	MESS60	6105	REVBK	2476
IOT57	1317	MESSAC	6214	MESS61	6117	REVEXP	2502
IOT58	1321	MESSAS	6176	MESS62	6133	REVGRD	4661
IOT59	1333	MESSCL	6170	MESS63	6146	ROCK	2237
IOT6	0311	MESSCR	6213	MESS7	5152	RSERCH	3600
IOT60	1406	MESSME	6246	MESS8	5155	RSLOOK	3670
IOT61	1416	MESSNC	6160	MESS9	5160	RSOK	3665
IOT62	1421	MESSNS	6204	MHALF	2305	RSRCH0	3606
IOT63	1440	MESSQL	6227	MLOOP	2274	RSRCH1	3615
IOT64	1443	MESSSL	6216	MODCNT	6426	RSRCH2	3640
IOT65	1447	MESSSTE	6237	MODCON	6423	RSTURN	3654
IOT66	1460	MESS1	5021	MODEND	6747	RVGARD	2436
IOT67	1462	MESS10	5163	MODIFY	6400	SBCXOR	4714
IOT68	1464	MESS11	5212	MODLUP	6407	SBWORD	4745
IOT69	1471	MESS12	5225	MODMS1	6421	SDLC	6774
IOT7	0316	MESS13	5241	MODMS2	6422	SDLD	6775
IOT70	1474	MESS14	5244	MODPT1	6424	SDRC	6776
IOT71	1500	MESS15	5247	MODPT2	6425	SDRD	6777
IOT72	1505	MESS19	5262	MODSIZ	6427	SDSQ	6773
IOT73	1521	MESS2	5043	MODTAB	6430	SDSS	6771
IOT74	1522	MESS20	5310	MPNTR	0033	SDST	6772
IOT75	1527	MESS21	5323	MO200A	4705	SEARCH	4400
IOT76	1530	MESS22	5332	M10	0113	SELCT1	2632

SELECT2	2652	WCOUNT	4553
SELECT	2600	WLO	2674
SELERR	4225	WL1	2715
SELHT	4233	WRBL1	3035
SELMES	4235	WRBL2	3077
SINGLE	0600	WRDERR	4200
SINGLO	0612	WRDHLT	4210
SING1	0632	WRDMES	4213
SING2	0642	WREAD	3024
SING3	0661	WRITE	4500
SING4	0677	WRITER	3671
SING5	0715	WRITE1	4520
SING6	1000	WRITE2	4527
SING7	1020	WRQUAD	4701
SLOOK	4476	WRTLCK	3731
SOFLAS	0020	XERROR	0054
SPEC1	3443	XFER	3000
SPEC1D	3460	XHEAD1	0041
SPEC2	3461	XHEAD2	0042
SPEC2D	3476	XINDIR	0052
SP1CT	3456	XLAS	0045
SP1PT	3457	XMESAG	0053
SP2CT	3474	XOPRNT	0051
SP2PT	3475	XSINGL	0065
SRCH0	4406	XXX	4320
SRCH1	4415	X8A	0046
SRCH2	4440	X8B	0050
START	0200	X8C	0047
SUNIT	4477	X8SWI	0022
TIME0	1325		
TIME1	1343		
TIME2	1400		
TIME3	1417		
TIME4	1441		
TIME5	1456		
TIME6	1517		
TIMING	1311		
TPNTR	3226		
TYMERR	4244		
TYMHLT	4256		
TYMMES	4260		
TYPE	0070		
UMESS	4076		
UNIT	2234		
UNK1	0021		
UNK2	0040		
UTSMK1	1623		
UTSMK2	1652		
UTSMK3	1702		
UTSMK4	2000		
UTSMK5	2034		
UTSMK6	2064		
UTSMRK	1600		
WADDR	4552		
WCNT	4476		

ERRORS DETECTED: 0
LINKS GENERATED: 0

AUTO	13#	2013	2018							
BADBLK	2076	2094#								
BKSRCH	2100	2287#								
BLK	33#	1385	1390	1396	1406	1410	1412	1414	1419	1424
	1430	1440	1444	1446	1448	1889	2096			
BLKCH	955#	992	1000							
BLKCHK	1144#									
BLKCN	81#	958	973	979	990					
BLKEND	91#	99	960	975						
BLKERR	971	986	994#							
BLKMRK	1166#									
BLKREV	83#	89	959	980						
BLKSER	101#	111	966	981						
BLKTRY	78#	1717	1743	1761	2048	2074	2092			
BLOCK	1888	1902#								
BUFF1	1355#	1384	1392	1402	1426	1436	1784	2121		
BUFF2	1356#	1398	1403	1408	1432	1437	1442	2028		
CCNTR	1490	1506	1509#							
CHKCHK	2025#	2035	2217							
CHKCLA	204	211#	268							
CHKDAT	1909	1920	1924#							
CHKERR	1908#	1919	1923	2034						
CHKMES	1915	1925#								
CHKSUM	2010	2030	2141	2257	2261	2262	2269	2273	2275	2277#
CLOOP	165	171#								
CLRWT	1997#	2006	2148							
CNTR1	28#	357	364	610	619	649	650	736	737	761
	765									
CNTR2	29#	358	362	760	767					
COMLUP	1499#	1507								
COMP	1663	1669#								
COMPAR	1401	1435	1489#	1491	1493	1494	1496	1508		
COMREG	147#	159	170	179	183	185				
CRLF	63#	68	1097	1847	1860	1891	1896			
CSDLC	214#	220	225							
CSDLD	240#	246	251							
CSDRC	226#	234	239							
CSDRD	253#	261	266							
CSUMRT	1782	2008#	2009	2011	2012	2014	2015	2017	2022	2026
	2119									
C200	50#	339	1319	1810	1862	1917	1946	1965	1985	
C240	49#	334	1093	1854						
C400	47#	172	277	734	745	1283	1327	1335	1837	2130
C4000	48#	946	1258	1456	1911	1941	1979	2150	2215	2235
C7	46#	312	1704							
C77	45#	319	1084							
DATA	1186#									
DATERR	1503	1835#	1865							
DATHD	1498	1840	1844	1846	1866#					
DATHLT	1839	1864#								
DATLUP	135	141#								
DATMES	1497	1868#								
DATNUM	1842	1850#								
DATPNT	1851	1852	1857	1858	1867#					
DATREG	115#	130	140	142	144	951	1708			
DBLOCK	1011#									
DECX8A	36	1675#	1678	1683						
DECX8B	38	1686#	1689							

DECX8C	37	1698#	1701							
DISBL	79#	956	969	972	977	984	988	989	995	
DISBLK	1012	1028	1038#							
DISDA	80#	105	967	982	998					
DISDAT	1021	1027	1041#							
DISEND	1026	1031#								
DISLUP	1017#	1030	1033	1037	3199					
DISTRK	1040#									
DONTPR	279	323	338#							
ELIST1	17#	303								
ELIST2	18#	307								
ELIST3	19#	315								
ELIST4	20#	320								
ELIST5	21#	327								
ELIST6	22#	293								
ENDZ	1148#	1173								
ENORM	286	297#								
ERRARG	24#	275	280	310	318					
ERROR	42	271#	273	274	342	1691	1878			
ESPEC	283	325#								
FBLKCT	966#	974								
FILDCT	1607	1617	1621#							
FILDDT	1611	1612	1615	1623#						
FILDEC	1370	1606#	1608	1610	1620					
FILDPT	1609	1613	1616	1622#						
FILICT	1589	1599	1602#							
FILIDT	1593	1594	1596	1604#						
FILINC	1368	1588#	1590	1592	1601					
FILIPT	1591	1595	1598	1603#						
FILLC1	1556	1567	1576#							
FILLC2	1563	1571	1577#							
FILLP1	1558	1565	1566	1574#						
FILLP2	1561	1564	1570	1575#						
FILLO	1360	1513#	1515	1517	1522					
FILLOC	1514	1520	1523#							
FILLOP	1516	1518	1519	1524#						
FILL1	1362	1526#	1528	1530	1536					
FILL1C	1527	1534	1537#							
FILL1P	1529	1532	1533	1538#						
FILL2C	1541	1548	1551#							
FILL2K	1545	1552#								
FILL2P	1543	1546	1547	1553#						
FILL25	1364	1540#	1542	1544	1550					
FILPAT	1366	1555#	1557	1559	1569					
FILPL1	1560#	1573								
FILPL2	1564#	1572								
FILPNT	34#	1380	1383							
FILTC	1562	1582#	1582							
FILTP	1560	1578#	1582							
FWDEXP	1162#	1214								
GODBAD	331	1849	2298#							
GPNTR	1492	1499	1504	1510#	1850					
GUARD	1202#									
HANG	724	1121#	1123	1125	1129					
HANG1	43#	1122								
HANG2	44#	1124	1127	1707						
HEADTP	1843	1875#	1877	1897	1913	1939	1961	1981	2101	
HEAD1	53#	117	146	211	292	302	306	326	345	461

IOT141	1912#	3236	
IOT142	1940#	3237	
IOT143	1942#	3238	
IOT144	1978#	3239	
IOT145	1980#	3240	
IOT146	2052#	3242	
IOT147	2060#	3244	
IOT148	2061#	3245	
IOT149	2063#	3246	
IOT15	354#	3084	
IOT15A	1809#	3252	
IOT15B	2089#	3249	
IOT150	2079#	3248	
IOT151	1808#	3251	
IOT152	2129#	3253	
IOT153	2131#	3254	
IOT154	2000#	3255	
IOT155	2149#	3256	
IOT156	2151#	3257	
IOT157	2211#	3258	
IOT158	2214#	3259	
IOT159	2216#	3260	
IOT16	359#	3085	
IOT16A	2185#	3262	
IOT160	2224#	3261	
IOT161	2226#	3264	
IOT162	2193	2234#	3265
IOT163	2236#	3266	
IOT164	2241#	3267	
IOT165	2243#	3268	
IOT166	2248#	3269	
IOT167	2250#	3270	
IOT168	1998#	3271	
IOT169	2003#	3272	
IOT17	385#	3088	
IOT170	2005#	3273	
IOT171	963#	3274	
IOT172	86#	3275	
IOT173	92#	3276	
IOT174	94#	3277	
IOT175	102#	3278	
IOT176	104#	3279	
IOT177	106#	3280	
IOT18	393#	3089	
IOT19	397#	3091	
IOT2	124#	3070	
IOT20	401#	3092	
IOT21	411#	3094	
IOT22	415#	3095	
IOT23	425#	3097	
IOT24	429#	3098	
IOT25	443#	3100	
IOT26	445#	3101	
IOT27	448#	3102	
IOT28	449#	3103	
IOT29	465#	3106	
IOT3	126#	3071	
IOT30	470#	3107	

IOT31	472#	3109
IOT32	474#	3110
IOT33	479#	3111
IOT34	482#	3112
IOT35	487#	3113
IOT36	489#	3114
IOT37	494#	3115
IOT38	497#	3116
IOT39	519#	3119
IOT4	152#	3072
IOT40	527#	3120
IOT41	531#	3122
IOT42	535#	3123
IOT43	563#	3125
IOT44	567#	3126
IOT45	577#	3128
IOT46	581#	3129
IOT47	590#	3131
IOT48	592#	3132
IOT49	596#	3133
IOT5	154#	3073
IOT50	600#	3134
IOT51	611#	3135
IOT52	612#	3136
IOT53	614#	3137
IOT54	617#	3138
IOT55	624#	3139
IOT56	639#	3141
IOT57	640#	3142
IOT58	642#	3143
IOT59	652#	3145
IOT6	188#	3074
IOT60	681#	3148
IOT61	689#	3149
IOT62	692#	3151
IOT63	707#	3152
IOT64	710#	3154
IOT65	714#	3155
IOT66	723#	3156
IOT67	725#	3157
IOT68	727#	3158
IOT69	732#	3159
IOT7	193#	3075
IOT70	735#	3160
IOT71	739#	3161
IOT72	744#	3162
IOT73	756#	3163
IOT74	757#	3164
IOT75	762#	3165
IOT76	763#	3166
IOT77	764#	3167
IOT78	772#	3168
IOT8	215#	3076
IOT82	798#	3169
IOT83	800#	3170
IOT84	804#	3171
IOT85	816#	3172
IOT86	817#	3173

QUAD1	505#	512	3117							
QUAD2	513#	518	525	3118						
QUAD3	528#	534	541	3121						
QUAD4	536	542	560#	566	573	3124				
QUAD5	568	574#	580	587	3127					
QUAD6	582	588#	599	607	3130					
QUAD7	602	608#	620	623	630					
Q0LUP	478	486	493	499	502#					
RADDR	1795	2176	2200	2201	2206	2207	2210	2220#		
RBLKCT	981#	991								
RCNT	1793	1802	2174	2181	2219#					
RCOUNT	1798	2179	2203	2221#						
RDLAS	35	549#	554							
RDQUAD	87	88	964	965	1725	1726	2056	2057	2128	2194
	2195	2196	2199	2205	2208	2247#	2251			
RD1MRK	1148	1157	1216#	1221	1225	1229				
RD6MRK	1147	1156	1162	1166	1174	1180	1188	1196	1202	1206
	1210	1223#	1232							
READ	1397	1441	1801	2173#	2175	2177	2178	2180	2218	
READR	1407	1431	1792#	1794	1796	1797	1799			
READ1	1804	2183#	2192	3263						
READ2	2199#	2204								
REVBK	1206#									
REVEXP	1210#									
REVGRD	2127	2223#	2230	2233						
ROCK	1043#	1063								
RSERCH	1714#	1769	1789	1803						
RSLOOK	1715	1750	1764	1770#						
RSOK	1752	1767#								
RSRCH0	1720#	1744	1762	3224						
RSRCH1	1727#	1739	1757	1768	3226					
RSRCH2	1736	1746#	3232							
RSTURN	1745	1758#	3233							
RVGARD	1160	1169	1174#							
SBCXOR	1786	2019	2123	2253#	2276					
SBWORD	2255	2256	2260	2263	2267	2268	2272	2278#		
SDLC	7#	86	152	188	215	227	348	354	393	448
	457	464	470	527	596	637	639	689	707	710
	723	735	756	798	800	816	823	839	847	863
	871	894	902	922	930	947	963	1015	1045	1055
	1146	1155	1253	1259	1276	1291	1312	1328	1720	1808
	1912	1942	1980	2005	2051	2131	2151	2216	2236	
SDLD	8#	121	124	241	254	397	531	611	764	2243
SDRC	9#	94	106	154	193	229	411	563	692	727
	732	744	762	804	819	827	842	851	866	875
	897	906	925	934	1022	1034	1152	1219	1228	1261
	1280	1295	1313	1332	1721	1732	1740	1746	1758	1809
	1882	1910	1940	1978	2003	2052	2063	2071	2077	2089
	2129	2149	2185	2214	2226	2234				
SDRD	10#	104	126	256	425	471	577	763	1020	1729
	1748	2060	2079	2250						
SDSQ	6#	445	465	474	482	489	497	505	513	519
	528	535	560	567	574	581	588	600	624	646
	1998	2241	2248							
SDSS	4#	92	102	349	359	371	379	385	394	401
	408	415	422	429	441	449	472	479	487	494
	592	612	614	617	640	725	757	817	840	864
	895	923	1017	1217	1226	1727	1730	2058	2061	2183

	2224									
SDST	5#	443	590	642	652	660	675	681	690	708
	714	739	772	1254	2000	2211				
SEARCH	2045#	2106	2126	2182						
SELECT1	1275#	1279	1290							
SELECT2	1291#	1294	1305	3218						
SELECT	114	1249#	1265	1274	1307					
SELERR	1724	1961#	2055							
SELHT	1967#									
SELMES	1963	1969#								
SINGLE	51	345#	370	459						
SINGLO	355#									
SING1	361	371#	378	3086						
SING2	379#	384	391	3087						
SING3	386	394#	400	407	3090					
SING4	408#	414	421	3093						
SING5	416	422#	428	435	3096					
SING6	430	436	441#	456	3099					
SING7	451	457#								
SLOOK	2046	2081	2095	2107#	2109					
SOFLAS	14#	553	1705							
SPEC1	1372	1625#	1627	1629	1635					
SPEC1D	1630	1638#								
SPEC2	1374	1640#	1642	1644	1650					
SPEC2D	1645	1653#								
SP1CT	1626	1633	1636#							
SP1PT	1628	1631	1632	1637#						
SP2CT	1641	1648	1651#							
SP2PT	1643	1646	1647	1652#						
SRCH0	2051#	2075	2093	3241						
SRCH1	2058#	2070	2088	2105	3243					
SRCH2	2067	2077#	3250							
START	114#									
SUNIT	1381	1455	1459	1719	1807	2050	2108#			
TIME0	643	646#	659	3144						
TIME1	654	660#	667	3146						
TIME2	668	675#	680	687	3147					
TIME3	682	690#	696	705	3150					
TIME4	700	708#	713	720	3153					
TIME5	715	721#	753							
TIME6	754#	771	779							
TIMING	634#	781								
TPNTR	1495	1501	1505	1511#	1856					
TYMERR	1977#	2002	2213							
TYMHLT	1987#									
TYMMES	1983	1989#								
TYPE	55#	61	65	67	335	1094	1112	1855	1886	
UMESS	1881	1898#								
UNIT	85	962	1014	1039#						
UNK1	15#									
UNK2	30#									
UTSMK1	814#	826	836							
UTSMK2	837#	850	860							
UTSMK3	861#	874	884							
UTSMK4	885	892#	905	915						
UTSMK5	920#	933	943							
UTSMK6	919	944#								
UTSMRK	782	795#	803	813	945					

_00174	85						
_00175	84						
_00176	66						
_00177	64						
_00374	204						
_00375	155	194					
_00376	151	161	187				
_00377	114						
_00776	356						
_00777	353	392	430	436			
_01175	536	542					
_01176	459						
_01177	447	469	526				
_01374	668						
_01375	632						
_01376	609						
_01377	595	638					
_01566	782						
_01567	781						
_01570	759						
_01571	733						
_01572	729						
_01573	728						
_01574	724						
_01575	722						
_01576	698						
_01577	688	706	755				
_01774	885						
_01775	838	870					
_01776	805	820	828	843	852	867	876
_01777	799	815	846	862			
_02170	964	965					
_02171	962						
_02172	953						
_02173	951						
_02174	945						
_02175	901	921					
_02176	898	907	926	935			
_02177	893	929					
_02364	1126						
_02365	1111						
_02366	1110						
_02367	1102						
_02370	1092						
_02371	1090						
_02372	1087						
_02373	1044						
_02374	1031						
_02375	1024						
_02376	1023						
_02377	1013	1054					
_02562	1224						
_02563	1220	1231					
_02564	1207						
_02565	1203						
_02566	1197						
_02567	1189						
_02570	1186						

_02571	1181		
_02572	1178	1194	
_02573	1175		
_02574	1163	1211	
_02575	1158	1167	
_02576	1149		
_02577	1145		
_02776	1275		
_02777	1267	1298	
_03146	1445		
_03147	1425		
_03150	1422		
_03151	1420		
_03152	1418		
_03153	1415		
_03154	1411		
_03155	1407	1431	
_03156	1404	1428	
_03157	1401	1435	
_03160	1397	1441	
_03161	1394	1438	
_03162	1391		
_03163	1388		
_03164	1386		
_03165	1382	1400	1434
_03166	1381	1455	1459
_03167	1376		
_03170	1374		
_03171	1372		
_03172	1370		
_03173	1368		
_03174	1366		
_03175	1364		
_03176	1362		
_03177	1360		
_03375	1503		
_03376	1498		
_03377	1497		
_03575	1708		
_03576	1706		
_03577	1691		
_03755	1804		
_03756	1801		
_03757	1798		
_03760	1795		
_03761	1793	1802	
_03762	1790		
_03763	1786		
_03764	1782		
_03765	1781		
_03766	1778		
_03767	1775		
_03770	1773	1788	
_03771	1737	1755	
_03772	1734		
_03773	1733		
_03774	1725	1726	
_03775	1722		

_03776	1719	1807		
_03777	1718			
_04174	1885			
_04175	1878			
_04176	1856			
_04177	1850			
_04371	2032			
_04372	2019			
_04373	2010	2030		
_04374	2004			
_04375	1988			
_04376	1949	1968		
_04377	1939	1961	1981	
_04560	2148			
_04561	2141			
_04562	2133	2137	2140	2147
_04563	2132			
_04564	2127			
_04565	2124			
_04566	2123			
_04567	2119			
_04570	2101			
_04571	2086			
_04572	2068			
_04573	2065			
_04574	2064	2143		
_04575	2056	2057	2128	
_04576	2053			
_04577	2049			
_04772	2217			
_04773	2209			
_04774	2190	2231		
_04775	2187	2228		
_04776	2186	2197	2227	2274
_04777	2182			

V5A

