

900893

704045-11P1

28

KLNR

SUFFIX

PURPOSE: To aid the operator in testing or diagnosing failures associated with all Sigma 7 Byte String (excluding EBC), Stack, Multiple and Convert instructions.

REQUIRED

CONFIGURATION:

Any Sigma 7 with card or paper tape reader.

PREREQUISITES:

The operations and functions tested by AUTO must be successfully operating.

LOADING

INSTRUCTIONS:

CONTROL MODE in LOCAL, WATCHDOG TIMER in NORMAL, INTERLEAVE SELECT in NORMAL, AUDIO in ON, PARITY ERROR MODE in CONT, SENSE all OFF.

1. Clear memory
2. Perform standard LOAD procedure
3. Program execution begins automatically if LOAD is successful.

SUCCESS INDICATIONS:

SS3 and SS4 OFF - Continued execution of the program without a WAIT or ALARM indication.

SS3 ON - A typed REPORT or a WAIT (INSTRUCTION ADDRESS indicators = 1 EO₁₆) if typewriter is OFF see SS3 option.

SS4 ON - No error messages if typewriter is ON.

ERROR INDICATIONS

AND PROCEDURES:

SS4 OFF - typewriter ON - Error message followed by WAIT (INSTRUCTION ADDRESS indicators = 1 EO₁₆).

SS4 OFF - typewriter OFF - WAIT executed (1 EO₁₆).

SS4 ON - SS3 ON - Error message if typewriter is ON.

SS4 ON - SS3 OFF - No error indications.

See section entitled "ERRORS"

* Registers include FAST MEMORY, MEMORY and PROGRAM STATUS

OPTIONS:

Suffix has an error counter which can be displayed on demand and also when an error occurs. A pass counter is also included. The pass counter indicates the number of completed runs of the program from its most recent load time, and the number of individual tests performed during the present pass.

The system provides several modes of operation. The selection of these modes is done with the Sense Switches, and are described below.

SS1 ON = Short Loop

OFF = Normal operation

The short loop provides a means of accessing any "Object Instruction" * at the highest possible constant frequency to allow the operator the ability to observe signal levels relative to the instruction with the aid of an oscilloscope. An error WAIT will not occur. The loop consists of those instructions necessary to initialize the pertinent registers ** of the Object Instruction, a means of executing the Object Instruction, and those instructions necessary to test and respond to the Sense Switch settings. SENSE switches 2, 3, and 4 are inoperative when SS1 is ON.

SS2 ON = Long Loop

OFF = Normal Operation

This loop does the following: Reinitializes all the registers ** of the Object Instruction, executes the Object Instruction, tests all the pertinent registers ** and then loops back.

When a catastrophic error occurs such as the Instruction being destroyed, or when the contents of an initializing table in core are destroyed, the short loop will not sufficiently reinitialize the Object Instruction. Therefore, Long Loop must be employed.

*The term "Object Instruction" is understood to mean an instruction which is the object of the present TEST being performed.

** "Registers" includes; FAST MEMORY, MEMORY and PROGRAM STATUS WORDS.

SS3 ON = Report

OFF = Normal Operation

Report is the Display of pertinent information. This information is only available at the end of each object test. The program description will state what information is being displayed.

If the typewriter is ON, the program will WAIT at $1EO_{16}$ after printing unless SS4 is ON.

SS4 ON = No Halt or Errors

OFF = Halt on Errors

The ability to bypass error halts is particularly useful when used with the "Long Loop" option (refer SS2). The counters and the visual and audio error indicators provided by the system assure the operator that no error will go unnoticed when the error halts are being inhibited.

TYPEWRITER ON = TYPE ERROR MESSAGE

OFF = NO MESSAGE

There are two types of output: (1) Error Display, and (2) Report.

The Error Display occurs when an error is detected and the typewriter switch is on.

The Report occurs when Sense Switch 3 is set and the typewriter is on.

Both outputs yield the Object Data Block address, the Error Counter, the Pass Counter and the Object Instruction. The Error Display also prints an Error Identifier, the erroneous result, the predetermined result and the differences between the two results.

TEST SELECTION:

If the INTERRUPT button is depressed at any time during program execution, a WAIT will be executed with the INSTRUCTION ADDRESS indicator = FE_{16} . A specific test may be continuously executed by inserting the test address into bits 12 thru 31 of register 1 setting SENSE switch 1 or 2 and clearing the WAIT. Normal operation can be restored by turning off SENSE switch 1 and 2.

PROGRAM DESCRIPTION: The memory parity interrupt is constantly monitored. If a parity error occurs, the program will execute a WAIT with P equal to (EC)₁₆. Information concerning which plain the error occurred on can be found in register 4.

The interrupt button is used to reset the Object Test in the event of a Catastrophic failure. A WAIT will be executed with P equal to (FE)₁₆. By setting SELECT ADDRESS to 273₁₆, ADDR STOP to ON and allowing the program to continue to that point, the operator can single step or single phase, through the execution of the Object Test Instruction for a more precise observation. This procedure is outlined under "ERRORS".

→ The interrupt button can also be used to change the Object Test by inserting the desired test address into the address bits of Register One.

The program consists of a "DRIVE PROGRAM" and a "DATA FIELD". The Data Field is comprised of many DATA BLOCKS, each of which contain pre-settings of programmable registers, the instruction to be tested and the pre-determined result with which to test the registers. The Driver provides the "CONTROLS" to use the information in the Data Field for Error detection and Display.

The Driver consists of 5 major portions. They are (1) INITIALIZE, (2) SET UP, (3) EXECUTE, (4) TEST, (5) and CONTROL. These names are used to facilitate the description of the program.

SUFFIX features a wide variety of modes of operation and controls as well as a high degree of error discernibility. The discriminating bit configurations are generated from logic layouts and will provide ERROR DETECTION to the "signal" level.

The program is designed to initialize itself at load time. This initialization resets the Error and Pass Counters to zero. A DATA

BLOCK pointer is set to point to the Object Data Block. The DATA BLOCKS vary in length depending on the Object instruction.

The INITIALIZE portion of the program moves the Object Data Block into a working area called TABLE. The TABLE is always cleared prior to this move. The first word of the data block is a number which indicates how many words are in the Block. The format of the Block is as follows:

TABLE + 0 Negative Count

- 1 Object Instruction
- 2 $(CC)_{co-3} + (FC)(4-8) + (MS+DM, AM)(8-11) + \text{LINKAGE}(12-3)$
- 3 PSW1 out
- 4 Reg 12 in-Index
- 5 Reg 12 out
- 6 Memory in/Reg 0 in
- 7 Memory out/Reg 0 out
- 8 Reg 13 in-Indirect Address
- 9 Reg 13 out
- 10 Memory +1 in/Reg 1 in
- 11 Memory +1 out/Reg 1 out

The first 12 bits of the third word are used to initialize PSW1 bits 0 through 11. The rest of the bits are used for initializing address modification for trap conditions.

After INITIALIZE, comes SET UP and PERFORM. When the move is completed, the programmable registers are set up (SETUP), and the Object instruction is performed (PERFORM). The Sense Switches are then tested and if Short Loop is called for, Registers 12 and 13, memory and memory +1 and the Program status words are reinitialized and the object instruction is performed. (In the case of the TBS instruction a table is also reinitialized.) This process continues until sense switch 1 is reset. This allows the program to continue on to TEST.

During TEST, all the programmable registers are tested against pre-determined results. Each register is tested in a subroutine called ERROR. If an error is detected, the program looks to see if the typewriter is on-line and not busy. If it is busy and on-line the program waits. If it is on-line and not busy, the program proceeds to a subroutine called EDIT which edits the data for typewriter output and then proceeds to another subroutine called OUTPUT. This subroutine types out the data and then the program proceeds to the error halt test. There it halts or proceeds, depending on Sense Switch 3, and exits ERROR.

After all the registers have been tested, the Sense Switches are interrogated for SENSE Switch 4 (REPORT), and then for SENSE switch 2 (LONG LOOP). If the long loop is called for the program branches back to SET UP. If not, the program continues on to INITIALIZE. These last decisions are made in the CONTROL portion of the program.

ERRORS:

The program runs until a memory parity or a normal error WAIT (P equal to $(EC)_{16}$ or $(EO)_{16}$ respectively) is encountered. If the program loses control, depress the interrupt button. A halt should occur at Location 273_{16} . Allow program to proceed to that point. By single stepping through EXECUTE, the operator may learn the nature of the failure. If this does not work, reload the program with Sense Switch 4 set. This will cause the REPORT WAIT or timeout to occur after each test. By inference, the operator may determine which test is causing the loss of control.

The normal error WAIT is at Location $(IDF)_{16}$. The contents of the registers is as follows:

R1 Present List Address

R2 Errors

R3 Passes (Bits 0-15)/Module (Bits 16-31)

R4 Instruction

R5 Error Identifier and Address

10000000 = Instruction

20000000 = Location +1 of the execution location

30000000 = Indirect Address word

4000000X = Index Register - R1

50000001 = PSW1

50000002 = PSW2

6000000X = Register X. X=0 through F(1510)

7000WXYZ = Memory word in Location WXYZ

7100WXYZ = Memory word in Location WXYZ (FMT table*)

7200WXYZ = Memory word in Location WXYZ (VMT table **)

Also, in connection with locations (WXYZ), the actual data may be found in tables MT1 through MT4 - actual locations may be determined from listing (e.g., if the identifier is 7100 WXYZ, and according to the object BLOCK containing the instruction that failed, MT1 was the object table for FMT, the data word in question would be found in location MT1 + WXYZ - FMT.).

R6 Erroneous Result

R7 Predetermined Result

R8 Difference between R6 and R7 (Exclusive OR)

Explanation of Identifiers:

The programmable registers that are most likely to fail if a machine malfunction is to occur are:

- (1) The location occupied by the instruction, because - the instruction is pointed out by an EXU instruction. The memory address register is pointing at the object location during a large portion of the EXU instruction.
- (2) The location following the EXU instruction, because - its address is in the Q register during the execution of the Object Instruction.

*FMT - Fixed Memory Table - usually a source table

**VMT - Variable Memory Table - usually a destination table

- (3) The Indirect Address word, because - its address is in P register during much of the Object Instructions execution if the IA bit is set.
- (4) The Index Register - Register I is the only register referenced for indexing. (RI is a variable.)
- (5) The program status words, because - these reflect the state of the machine and must reflect the proper response.
- (6) Registers 0, 12, and 13, because - they are the only registers referred to by the instructions R field and must thereby be monitored.
- (7) The contents of the effective tables, because - these addresses are in the P register during the major portion of the Object instructions execution.

PROGRAM LOADER:

All 9 CPU Diagnostic programs use the Diagnostic Loader and are in the diagnostic load format.

The loader is designed to use a minimum amount of the total system's capability in order to provide the best possibility of a successful load.

The first 24 bits of each card contain the byte address of the location in which the card will be loaded. The Address is right justified. The next 8 bits contain a byte count of the bytes on the card. This will usually be 74_H bytes (29_D words). The next 116_D bytes will be the program in binary.

The loader makes use of this format and employs command chaining to simplify the loader and eliminate use of the adder. The first command pair reads the first 3 bytes of the card into the address portion of the third command pair; the second command pair reads the next byte into the byte count of the third command pair; and, the third command pair reads the rest of the card into its designated memory locations.

The last card loads a branch into the loader which transfers control to the designated location in the program. The loader uses the AUTOMATIC FILL LOADER by loading register 0 with a pointer to the above mentioned command chaining pairs and branching back to location 27_H of the AUTO FILL LOADER.

27	SIO,0	$*25_H$	
28	TIO,0	$*25_H$	Loaded by AUTO FILE
29	BCS,C _H	28 _H	
2A	LW,0	2C _H	
2B	BCR,0	27 _H	
2C	PZE,0	$DA(2E_H)$	DA = Double Word Address DA92E _H) = 17 _H
2E	Rd	DA(32 _H +1)*	DA = Byte Address DA(32 _H +1) = C9 _H
2F		3	BA(32 _H +1) = C9 _H
30	Rd	BA(33 _H +3)*	BA(33 _H +3) = CF _H
31		1	
32	Rd	()	
33		()	

*The +1, +3 refer to the 1st and 3rd byte of the word respectively.

SIGMET E1, L0

1 SYSTEM SIG7FDP
2 TITLE 'SUFFIX(2)'
3 SOCW
4 FORMS THE ADDRESS FIELD SPECIFIES HOW THE WORD IS DIVIDED AND
5 HOW MANY BITS THERE WILL BE IN EACH PART OF THE WORD.
6 EFFECTIVE AT ASSEMBLY TIME ONLY.
7 I FORM 4,28
8 J FORM 8,24
9 K FORM 4,4,4,20
10 *
11 * PRUCS EFFECTIVE AT ASSEMBLY TIME ONLY.
12 *
13 * P SPECIFIES A DOUBLEWORD ADDRESS
14 *
15 00000000 P CNAME
16 * PROC
17 LF GEN,32 DA(AF(1))
18 * PEND
19 *
20 * JJ CONVERTS TO BYTE ADDRESS
21 00000000 JJ CNAME
22 * PROC
23 LF GEN,8,24 AF(1),BA(AF(2))
24 * PEND
25 *
26 * FILL FILLS ALL LOCATIONS BETWEEN AF AND \$ WITH ZEROS
27 00000000 FILL CNAME
28 * PROC
29 LF EQU \$
30 DO ABSVAL(AF)-ABSVAL(\$)
31 GEN,32 0
32 FIN
33 PEND
34 *

35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51
52
53
54
55
56
57
58
59
60
61
62
63
64
65
66
67
68
69
70

SUFFIX(2)
PAGE

* SUFFIX - SIGMA CPU DIAGNOSTIC SYSTEM

* * * * * SENSE SWITCH DEFINITIONS

* SS1 SET=SHORT LOOP
RESET=NORMAL OPERATION

* SS2 SET=LONG LOOP
RESET=NORMAL OPERATION

* SS3 SET=REPORT
RESET=NORMAL OPERATION

* SS4 SET=NO HALT ON ERRORS
• RESET=HALT ON ERRORS

* * * * * REGISTER CONTENTS ON ERROR HALT

* R1 PRESENT LIST ADDRESS

* R2 ERRORS

* R3 PASSES

* R4 INSTRUCTION

* R5 ERROR IDENTIFIER AND ADDRESS:

10000000 = INSTRUCTION

20000000 = LOCATION+1 OF THE EXECUTION LOCATION

30000000 = INDIRECT ADDRESS

40000001 = INDEX REGISTER-R1

5000000X = PROGRAM STATUS WORD X: X=1 OR 2

6000000X = REGISTER X: X=0 THROUGH F(1111)

7000WXYZ = MEMORY WORD IN LOCATION WXYZ (WXYZ=0-FFFF)

7100WXYZ = MEMORY WORD IN LOCATION WXYZ (FMT TABLE)

7200WXYZ = MEMORY WORD IN LOCATION WXYZ (VMT TABLE)

* R6 ERRONEOUS RESULT

* R7 PREDETERMINED RESULT

* R8 DIFFERENCE BETWEEN R6 AND R7

SUFFIX(2)					
		PAGE	ORG	X'40'	TRAP LOCATIONS
71					
72	1 00040				
	1 00040				
73	1 00040	0F00005E	NABTR	XPSD,0	NA0
74	1 00041	0F000072	UIITR	XPSD,0	UII
75	1 00042	0F000078	SLTR	XPSD,0	SL
76	1 00043	0F00007E	FXPOTR	XPSD,0	FXPO
77	1 00044	0F000084	FLPFTR	XPSD,0	FLPF
78	1 00045	0F00008A	DFTR	XPSD,0	DF
79	1 00046	0F000090	WDTRTR	XPSD,0	WDTR
80	1 00047	0F0003D8	BRANCH	XPSD,0	RETURN
81	1 00048	0F000096	CAL1TR	XPSD,0	CAL1
82	1 00049	0F0000AA	CAL2TR	XPSD,0	CAL2
83	1 0004A	0F0000BE	CAL3TR	XPSD,0	CAL3
84	1 0004B	0F0000D2	CAL4TR	XPSD,0	CAL4
85		*			INTERRUPT LOCATIONS
86	1 0004C	00000000 A		FILE	X'154'
	1 0004D	00000000 A			
	1 0004E	00000000 A			
	1 0004F	00000000 A			
	1 00050	00000000 A			
	1 00051	00000000 A			
	1 00052	00000000 A			
	1 00053	00000000 A			
87	1 00054	331003E4		MTW,1	CNT3CP
88	1 00055	331003E5		MTW,1	CNT4CP
89	1 00056	0F0000E6		XPSD,0	PARITY
90	1 00057	00000000 A		FILL	X'5A'
	1 00058	00000000 A			MEMORY PARITY
	1 00059	00000000 A			
91	1 0005A	0F000360		XPSD,0	CNT3Z
92	1 0005B	0F000360		XPSD,0	CNT4Z
93	1 0005C	0F0000EE		XPSD,0	INOUT
94	1 0005D	0F0000F6		XPSD,0	RESET
					I/O
					INTERRUPT BUTTON

SUFFIX(2)
PAGE

95						
96			*			
97	1 0005E				NON-ALLOWED OPERATION TRAP	
98	1 0005E	00000000 A	NA0	BOUND 8		
99	1 0005F	00000000 A		PZE		
100	1 00060	00000062		PZE		
101	1 00061	00000000 A		PZE,0 \$+2		
102	1 00062	OF0003D8	NA0RET	XPSD,0 RETURN	NONALLOWED OPERATION	IS
103	1 00063	OF0003D8	MPVRET	XPSD,0 RETURN	MEMORY PROTECT VIOLATION	TRACCR1 IS
104	1 00064	OF0003D8	MVRET	XPSD,0 RETURN	MODE VIOLATION	TRACCR2 IS
105	1 00065	OF0003D8		XPSD,0 RETURN		
106	1 00066	OF0003D8	NEARET	XPSD,0 RETURN	NONEXISTANT ADDRESS	TRACCR4 IS
107	1 00067	OF0003D8		XPSD,0 RETURN		
108	1 00068	OF0003D8		XPSD,0 RETURN		
109	1 00069	OF0003D8		XPSD,0 RETURN		
110	1 C006A	OF0003D8	NEIRET	XPSD,0 RETURN	NONEEXISTANT INSTRUCTION	TRACCR3 IS
111	1 0006B	OF0003D8		XPSD,0 RETURN		
112	1 C006C	OF0003D8		XPSD,0 RETURN		
113	1 0006D	OF0003D8		XPSD,0 RETURN		
114	1 C006E	OF0003D8		XPSD,0 RETURN		
115	1 0006F	OF0003D8		XPSD,0 RETURN		
116	1 00070	OF0003D8		XPSD,0 RETURN		
117	1 00071	OF0003D8		XPSD,0 RETURN		
118.			*		UNIMPLEMENTED INSTRUCTION TRAP	
119	1 00072			BOUND 8		
120	1 00072	00000000 A	UII	PZE		
121	1 00073	00000000 A		PZE		
122	1 00074	00000076		PZE,0 \$+2		
123	1 00075	00000000 A		PZE		
124	1 00076	OF0003D8	UIIRET	XPSD,0 RETURN		
125			*		STACK LIMIT REACHED TRAP	
126	1 00078			BOUND 8		
127	1 00078	00000000 A	SL	PZE		
128	1 00079	00000000 A		PZE		
129	1 0007A	0000007C		PZE,0 \$+2		
130	1 0007B	00000000 A		PZF		
131	1 0007C	OF0003D8	SLRET	XPSD,0 RETURN		

			SUFFIX(2)	PAGE	
132					FIXED POINT ARITHMETIC OVERFLOW TRAP
133			*		
134	1 0007E			BQUND 8	
135	1 0007E	00000000 A	FXPO	PZE	
136	1 0007F	00000000 A		PZE	
137	1 00080	00000082		PZE,0 \$+2	
138	1 00081	00000000 A		PZE	
139	1 00082	7020007E		LC FXPO	
140	1 00083	0F0003D8	FPORET	XPSD,0 RETURN	
141			*		FLOATING POINT ARITHMETIC FAULT TRAP
142	1 00084			BQUND 8	
143	1 00084	00000000 A	FLPF	PZE	
144	1 00085	00000000 A		PZE	
145	1 00086	00000088		PZE,0 \$+2	
146	1 00087	00000000 A		PZE	
147	1 00088	70200084		LC FLPF	
148	1 00089	0F0003D8	FPPRET	XPSD,0 RETURN	
149			*		DECIMAL ARITHMETIC FAULT TRAP
150	1 0008A			BQUND 8	
151	1 0008A	00000000 A	DF	PZE	
152	1 0008B	00000000 A		PZE	
153	1 0008C	0000008E		PZE,0 \$+2	
154	1 0008D	00000000 A		PZE	
155	1 0008E	7020008A		LC DF	
156	1 0008F	0F0003D8	DFRET	XPSD,0 RETURN	
157			*		WATCHDOG TIMER RUNOUT TRAP
158	1 00090	00000000 A	WDTR	PZE	
159	1 00091	00000000 A		PZE	
160	1 00092	00000094		PZE,0 \$+2	
161	1 00093	00000000 A		PZE	
162	1 00094	0F0003D8	WDTRET	XPSD,0 RETURN	

		SUFFIX(2)		PAGE	CALL 1 TRAP	
163		*				
164						
165	1 00096			BOUND 8		
166	1 00096	00000000 A	CAL.1	PZE		
167	1 00097	00000000 A		PZE		
168	1 00098	0000009A		PZE,0 \$+2		
169	1 00099	00000000 A		PZE		
170	1 0009A	0F0003D8	C1RET	XPSD,0 RETURN	TRACC=0	
171	1 0009B	0F0003D8		XPSD,0 RETURN	TRACC=1 I9=1	
172	1 0009C	0F3003D8		XPSD,3 RETURN	TRACC=2 I9=1	
173	1 0009D	0F0003D8		XPSD,0 RETURN	TRACC=3 I9=1	
174	1 0009E	0F0003D8		XPSD,0 RETURN	TRACC=4 I9=1	
175	1 0009F	0F0003D8		XPSD,0 RETURN	TRACC=5 I9=1	
176	1 000A0	0F0003D8		XPSD,0 RETURN	TRACC=6 I9=1	
177	1 000A1	0F0003D8		XPSD,0 RETURN	TRACC=7 I9=1	
178	1 000A2	0F0003D8		XPSD,0 RETURN	TRACC=8 I9=1	
179	1 000A3	0F0003D8		XPSD,0 RETURN	TRACC=9 I9=1	
180	1 000A4	0F0003D8		XPSD,0 RETURN	TRACC=10 I9=1	
181	1 000A5	0F0003D8		XPSD,0 RETURN	TRACC=11 I9=1	
182	1 000A6	0F0003D8		XPSD,0 RETURN	TRACC=12 I9=1	
183	1 000A7	0F0003D8		XPSD,0 RETURN	TRACC=13 I9=1	
184	1 000A8	0F0003D8		XPSD,0 RETURN	TRACC=14 I9=1	
185	1 000A9	0F0003D8		XPSD,0 RETURN	TRACC=15 I9=1	

136

187

188 1 00CAA

189 1 000AA 00000000 A CAL2

190 1 000AB 00000000 A

191 1 00CAC 000000AE

192 1 00CAD 00000000 A

193 1 000AE OF0003D8 C2RET

194 1 000AF OF0003D8

195 1 000B0 OF0003D8

196 1 000B1 OF0003D8

197 1 000B2 OF0003D8

198 1 000B3 OF0003D8

199 1 000B4 OF0003D8

200 1 00CB5 OF0003D8

201 1 00CB6 OFCC03D8

202 1 00CB7 OF0003D8

203 1 00CB8 OF0003D8

204 1 000B9 OF0003D8

205 1 000BA OF0003D8

206 1 000BB OF0003D8

207 1 000BC OF0003D8

208 1 000BD OF0003D8

SUFFIX(2)

PAGE

BOUND 8

PZE

PZE

PZE,0 \$+2

PZE

XPSD,0 RETURN

CALL 2 TRAP

TRACC=0 I9=1

TRACC=1 I9=1

TRACC=2 I9=1

TRACC=3 I9=1

TRACC=4 I9=1

TRACC=5 I9=1

TRACC=6 I9=1

TRACC=7 I9=1

TRACC=8 I9=1

TRACC=9 I9=1

TRACC=10 I9=1

TRACC=11 I9=1

TRACC=12 I9=1

TRACC=13 I9=1

TRACC=14 I9=1

TRACC=15 I9=1

SUFFIX(2)
PAGE

209				CALL 3 TRAP
210				
211	1 000BE		*	OUND 8
212	1 000BE	00000000 A	CAL3	PZE
213	1 000BF	00000000 A		PZE
214	1 00CC0	000000C2		PZE,0 \$+2
215	1 000C1	00000000 A		PZE
216	1 000C2	0F0003D8	C3RET	XPSD,0 RETURN
217	1 000C3	0F0003D8		XPSD,0 RETURN
218	1 000C4	0F0003D8		XPSD,0 RETURN
219	1 000C5	0F0003D8		XPSD,0 RETURN
220	1 000C6	0F0003D8		XPSD,0 RETURN
221	1 000C7	0F0003D8		XPSD,0 RETURN
222	1 000C8	0F0003D8		XPSD,0 RETURN
223	1 000C9	0F0003D8		XPSD,0 RETURN
224	1 000CA	0F0003D8		XPSD,0 RETURN
225	1 000CB	0F0003D8		XPSD,0 RETURN
226	1 000CC	0F0003D8		XPSD,0 RETURN
227	1 000CD	0F0003D8		XPSD,0 RETURN
228	1 000CE	0F0003D8		XPSD,0 RETURN
229	1 000CF	0F0003D8		XPSD,0 RETURN
230	1 000D0	0F0003D8		XPSD,0 RETURN
231	1 000D1	0F0003D8		XPSD,0 RETURN
				TRACC=0
				TRACC=1 I9=1
				TRACC=2 I9=1
				TRACC=3 I9=1
				TRACC=4 I9=1
				TRACC=5 I9=1
				TRACC=6 I9=1
				TRACC=7 I9=1
				TRACC=8 I9=1
				TRACC=9 I9=1
				TRACC=10 I9=1
				TRACC=11 I9=1
				TRACC=12 I9=1
				TRACC=13 I9=1
				TRACC=14 I9=1
				TRACC=15 I9=1

		SUFFIX(2)		PAGE	CALL 4: TRAP	
232		*				
233						
234	1 000D2		BOUND 8			
235	1 000D2	00000000 A	CAL4	PZE		
236	1 000D3	00000000 A		PZE		
237	1 000D4	000000D6		PZE,0	\$+2	
238	1 000D5	00000000 A		PZE		
239	1 000D6	0F0003D8	CARET	XPSD,0	RETURN	TRACC=0
240	1 000D7	0F0003D8		XPSD,0	RETURN	TRACC=1 I9=1
241	1 000D8	0F0003D8		XPSD,0	RETURN	TRACC=2 I9=1
242	1 000D9	0F0003D8		XPSD,0	RETURN	TRACC=3 I9=1
243	1 000DA	0F0003D8		XPSD,0	RETURN	TRACC=4 I9=1
244	1 000DB	0F0003D8		XPSD,0	RETURN	TRACC=5 I9=1
245	1 000DC	0F0003D8		XPSD,0	RETURN	TRACC=6 I9=1
246	1 000DD	0F0003D8		XPSD,0	RETURN	TRACC=7 I9=1
247	1 000DE	0F0003D8		XPSD,0	RETURN	TRACC=8 I9=1
248	1 000DF	0F0003D8		XPSD,0	RETURN	TRACC=9 I9=1
249	1 000E0	0F0003D8		XPSD,0	RETURN	TRACC=10 I9=1
250	1 000E1	0F0003D8		XPSD,0	RETURN	TRACC=11 I9=1
251	1 000E2	0F0003D8		XPSD,0	RETURN	TRACC=12 I9=1
252	1 000E3	0F0003D8		XPSD,0	RETURN	TRACC=13 I9=1
253	1 000E4	0F0003D8		XPSD,0	RETURN	TRACC=14 I9=1
254	1 000E5	0F0003D8		XPSD,0	RETURN	TRACC=15 I9=1

10

		SUFFIX(2)		
		PAGE		
255		*		
256				
257	1 000E6		BOUND 8	
258	1 000E6	00000000 A	PZE,0 0	PARITY INTERRUPT SERVICE ROUTINE
259	1 000E7	00000000 A	PZE,0 0	
260	1 000E8	000000EA	PZE,0 PARITY+4	
261	1 000E9	00000000 A	PZE,0 0	
262	1 000EA	6C400010 A	RD,4 X'10!	RECORD PARITY ERROR PLANS
263	1 000EB	2E000000 A	WAIT,0 0	
264	1 000EC	0E3003E0	LPSD,3 REPEAT	RELEASE PARITY INTERRUPT REPEAT TEST
265		*		INPUT/OUTPUT TRAP
266	1 000EE		BOUND 8	
267	1 000EE	00000000 A	INPUT PZE	
268	1 000EF	00000000 A	PZE	
269	1 000F0	000000F2	PZE,0 \$+2	
270	1 000F1	00000000 A	PZE	
271	1 000F2	6E000001 A	A10,0 1	ACKNOWLEDGE INTERRUPT
272	1 000F3	0E3003DC	LPSD,3 IOREL	
273	1 000F4	703000EE	LCF INOUT	
274	1 000F5	0F0003D8	IORET XPSD,0 RETURN	
275		*		INTERRUPT BUTTON SERVICE ROUTINE
276	1 000F6		BOUND 8	
277	1 000F6	00000000 A	RESET PZE,0 0	
278	1 000F7	00000000 A	PZE,0 0	
279	1 000F8	000000FA	PZE,0 RESET+4	
280	1 000F9	00000000 A	PZE,0 0	
281	1 000FA	323003E7	LW,3 PASSES	RESET PASSES TO LAST SETTING
282	1 000FB	322003E6	LW,2 ERRORS	RESET ERRORS TO LAST SETTING
283	1 000FC	32100113	LW,1 SAVE	REINITIALIZE LOAD WITH LAST SETTING
284	1 000FD	2E000000 A	WAIT,0 0	
285	1 000FE	0E3003E0	LPSD,3 REPEAT	REPEAT LAST TEST
286	1 000FF	00000000 A	FILL X'100!	

			SUFFIX(2)	PAGE		
287				LW,2	ZERO	PRESET ERROR COUNT
288	1 00100	32200360	START	LW,3	ZER0	PRESET PASS COUNT
289	1 00101	32300360		LW,5	PCPINT	PARITY AND CONTROL PANEL INTERRUPT
290	1 00102	32500327		WD,5	X'1200'	ARM AND ENABLE
291	1 00103	6D501200 A		LW,1	NEG51	INITIALIZE LINE COUNT
292	1 00104	32100319		STW,1	LINE	
293	1 00105	3510031B		LW,1	NEG2	
294	1 00106	32100341		STW,1	FIRST	RESET FIRST PASS COUNTER
295	1 00107	3510031C		LW,1	LOAD	PRESET LOAD FROM LIST
296	1 00108	321002FA	CYCLE	LW,4	ZERO	
297	1 00109	32400360		STW,1	SAVE	
298	1 0010A	35100113		LW,5	NOTAE	ALL BUT PARITY AND PANEL INTERRUPT
299	1 0010B	32500326		WD,5	X'1100'	DISARM
300	1 0010C	6D501100 A		WD,5	X'1500'	DISABLE
301	1 0010D	7D501500 A		STW,2	ERRORS	
302	1 0010E	352003E6		STW,3	PASSES	
303	1 0010F	353003E7		LW,6	NEG12	
304	1 00110	32600317		STW,4	TABLE+12,6	STORE ZEROS IN TABLE
305	1 00111	354C03C4		BIR,6	\$-1	
306	1 00112	65600111		SAVE	LW,4	
307	1 00113	32400610		BCS,3	LIST+C	
308	1 00114	69300118		NOTEND	NOTEND	TEST FOR MODULE END
309	1 00115	4B30030D		AND,3	M1Q15	DELETE MODULE COUNT
310	1 00116	20310000 A		AI,3	X'10000'	INCREMENT PASS COUNT
311	1 00117	68000108		BCR,0	CYCLE	PREPARE TO SET TABLE
312	1 00118	325002FB	NOTEND	LW,5	STORE	
313	1 00119	32600004 A		LW,6	4	COUNT
314	1 0011A	3510011C	MOVE	STW,1	FROM	MOVE LIST TO TABLE
315	1 0011B	3550011D		STW,5	TO	
316	1 0011C	32400610	FROM	LW,4	LIST+C	
317	1 0011D	35400388	TO	STW,4	TABLE+I	
318	1 0011E	20100001 A		AI,1	1	
319	1 0011F	20500001 A		AI,5	1	
320	1 00120	6560011A		BIR,6	MOVE	
321	1 00121	3510011C		STW,1	FROM	SET MODULE POINTER = NEXT MODULE
322	1 00122	32100318		LW,1	NEG16	RT2 TO VRTR
323	1 00123	3242040C		LW,4	RT2+16,1	

			SUFFIX(2)	
362	1 0013A	68300174	BCR,3	SETSHT
363	1 0014B	320002E5	LW,9	BYTINS
364	1 0014C	450002E5	CS,8	BYTINS
365	1 0014D	6830015F	BCR,3	BYTEST
366	1 0014E	3210003C6	LW,5	TABLE+14
367	1 0014F	320002E1	LW,9	INKEB
368	1 00150	458002E2	CS,8	INKEB
369	1 00151	68300159	BCR,3	\$+8
370	1 00152	21100001 A	CT,1	1
371	1 00153	68200159	BCR,2	\$+6
372	1 00154	22100002 A	L1,1	2
373	1 00155	35500156	STW,5	\$+1
374	1 00156	320203EB	LW,13	RT1+1,1
375	1 00157	35000004 A	STW,13	4
376	1 00158	354002EF	STW,4	INDX
377	1 00159	321003C7	LW,1	TABLE+15
378	1 0015A	3550015B	STW,5	\$+1
379	1 0015B	320203EB	LW,13	RT1+1,1
380	1 0015C	35D2053D	STW,13	VRTR+1,1
381	1 0015D	6410015B	BCR,1	\$+2
382	1 0015E	68300174	BCR,0	SETSHT
383	1 0015F	322003C6	LW,2	TABLE+14
384	1 00160	3230030A	LW,3	VNTRCH
385	1 00161	321003C7	LW,1	TABLE+15
386	1 00162	68300168	BCR,3	\$+6
387	1 00163	72D40000 A	LW,13	0,2
388	1 00164	75C60000 A	STW,13	0,3
389	1 00165	20200001 A	AI,2	1
390	1 00166	20300001 A	AI,3	1
391	1 00167	64100163	BCR,1	\$+4
392	1 00168	324003C2	LW,4	TABLE+10
393	1 00169	354002EF	STW,4	INDX
394	1 0016A	324003C3	LW,4	TABLE+11
395	1 0016B	329002E6	LW,9	INSMASK
396	1 0016C	458002E7	CS,8	EBSINS
397	1 0016D	68300170	BCR,3	\$+3
398	1 0016E	458002E8	CS,8	TBSINS
399	1 0016F	69300171	BCS,3	\$+2

BRANCH IF EBS
STORE CHANGES TO UNPACKED SIZE

SKIP IF FSW

BRANCH IF NOT OVER 1

LW,13 RT1+1,1,VRTR+1,1

CHANGES TO VTR-BYTE SWING

14

			SUFFIX(2)		
400	1 00170	326002EC	LW,6	SHT1RT	SHORT 1 RETURN IF EBS OR TBS
401	1 00171	458002E9	CS,8	CBSINS	
402	1 00172	69300174	BCS,3	\$+2	
403	1 00173	327002EA	LW,7	CBSLN	
404	1 00174	3540053F	SET SHT	STW,4	PRESET CHANGE IF CBS
405	1 00175	35600278	STW,6	SHTRET	STORE SHORT 1 OR SHORT 2 RETURN
406	1 00176	35700269	STW,7	VMTCHL	STORE VMT CHANGE OR BRANCH
407	1 00177	32C003B9	LW,12	TABLE+1	INSTRUCTION
408	1 00178	35C003CD	STW,12	INSTR	
409	1 00179	32C00047	LW,12	XPSD	XPSD 0, RETURN
410	1 0017A	35C00275	STW,12	LOC+1	
411	1 0017B	32C003CE	LW,12	IA	INDIRECT ADDRESS
412	1 0017C	35C002EB	STW,12	WKIA	
413	1 0017D	32800308	LW,8	LOC2AD	
414	1 0017E	358003DA	STW,8	RETURN+2	SET RETURN TO LOC+2
415	1 0017F	324003BA	LW,4	TABLE+2	PSW1 IN
416	1 00180	4B40030C	AND,4	LINKADD	SELECT LINK ADDRESS AND DELETE MS.
417	1 00181	354003E2	STW,4	PSW1	
418	1 00182	32500360	LW,5	ZERO	CLEAR R5
419	1 00183	4B40030B	AND,4	COND	CLEAR ADDRESS PORTION OF PSW1
420	1 00184	0E0003E2	LPSD,0	PSW1	LINKAGE

→264

				SUFFIX(2)	PAGE	
421				*		
422						
423	1 00185	32500310	SI9NA0	LW,5	I9	SET XPSD FOR NOA TRAP
424	1 00186	4850032B	RI9NA0	EOR,5	NA0XD	SET I9=1
425	1 00187	35500040		STW,5	NA0TR	SET I9=0
426	1 00188	4840032C		EOR,4	NA0AD	
427	1 00189	35400060		STW,4	NA0+2	SET PSW1 BITS 0-11 FOR NA0 TRAP
428	1 0018A	68000244		BCR,0	<u>SETPSW</u>	
429			*			SET PSW1 BITS 0-11 FOR UII TRAP
430	1 0018B	4840032D	UIISW	EOR,4	UIIAD	
431	1 0018C	35400074		STW,4	UII+2	
432	1 0018D	68000244		BCR,0	<u>SETPSW</u>	
433			*			SET PSW1 BITS 0-11 FOR SL TRAP
434	1 0018E	4840032E	SLSW	EOR,4	SLAD	
435	1 0018F	3540007A		STW,4	SL+2	
436	1 00190	68000244		BCR,0	<u>SETPSW</u>	
437			*			SET PSW1 BITS 0-11 FOR EXPO TRAP
438	1 00191	4840032F	EXP0SH	EOR,4	FXPOAD	
439	1 00192	35400080		STW,4	FXP0+2	
440	1 00193	68000244		BCR,0	<u>SETPSW</u>	
441			*			SET PSW1 BITS 0-11 FOR FLPF TRAP
442	1 00194	48400330	FLPF0W	EOR,4	FLPFAD	
443	1 00195	35400086		STW,4	FLPF+2	
444	1 00196	6800018C		BCR,0	UIISW+1	
445			*			SET PSW1 BITS 0-11 FOR DF TRAP
446	1 00197	48400331	DFSW	EOR,4	DFAD	
447	1 00198	3540008C		STW,4	DF+2	
448	1 00199	6800018C		BCR,0	UIISW+1	

16

			SUFFIX(2)			
			PAGE			
449			*			
450						
451	1 0019A	48400332	WDTRSW	EOR,4	WDTRAD	SET PSW1 BITS 0-11 FOR WDTR TRAP
452	1 0019B	35400092		STW,4	WDTR+2	
453	1 0019C	68000244		BCR,0	SETPSW	
454			*			SET XPSD FOR CAL1
455	1 0019D	32500310	SI9CL1	LW,5	I9	SET I9=1
456	1 0019E	48500333	RI9CL1	EOR,5	CAL1XD	SET I9=0
457	1 0019F	35500048		STW,5	CAL1TR	
458	1 001A0	48400337		EOR,4	CAL1AD	
459	1 001A1	35400098		STW,4	CAL1+2	
460	1 001A2	68000244		BCR,0	SETPSW	
461			*			SET XPSD FOR CAL2
462	1 001A3	32500310	SI9CL2	LW,5	I9	SET I9=1
463	1 001A4	48500334	RI9CL2	EOR,5	CAL2XD	SET I9=0
464	1 001A5	35500049		STW,5	CAL2TR	
465	1 001A6	48400338		EOR,4	CAL2AD	
466	1 001A7	354000AC		STW,4	CAL2+2	
467	1 001A8	68000244		BCR,0	SETPSW	
468			*			SET XPSD FOR CAL3
469	1 001A9	32500310	SI9CL3	LW,5	I9	SET I9=1
470	1 001AA	48500335	RI9CL3	EOR,5	CAL3XD	SET I9=0
471	1 001AB	3550004A		STW,5	CAL3TR	
472	1 001AC	48400339		EOR,4	CAL3AD	
473	1 001AD	354000C0		STW,4	CAL3+2	
474	1 001AE	68000244		BCR,0	SETPSW	
475			*			SET XPSD FOR CAL4
476	1 001AF	32500310	SI9CL4	LW,5	I9	SET I9=1
477	1 001B0	48500336	RI9CL4	EOR,5	CAL4XD	SET I9=0
478	1 001B1	3550004B		STW,5	CAL4TR	
479	1 001B2	4840033A		EOR,4	CAL4AD	
480	1 001B3	354000D4		STW,4	CAL4+2	
481	1 001B4	68000244		BCR,0	SETPSW	RETURN TO LONG

SUFFIX(2)

PAGE

FILL

X'1CE'

482

483	1 001B5	00000000 A
	1 001B6	00000000 A
	1 001B7	00000000 A
	1 001B8	00000000 A
	1 001B9	00000000 A
	1 001BA	00000000 A
	1 001BB	00000000 A
	1 001BC	00000000 A
	1 001BD	00000000 A
	1 001BE	00000000 A
	1 001BF	00000000 A
	1 001C0	00000000 A
	1 001C1	00000000 A
	1 001C2	00000000 A
	1 001C3	00000000 A
	1 001C4	00000000 A
	1 001C5	00000000 A
	1 001C6	00000000 A
	1 001C7	00000000 A
	1 001C8	00000000 A
	1 001C9	00000000 A
	1 001CA	00000000 A
	1 001CB	00000000 A
	1 001CC	00000000 A
	1 001CD	00000000 A

484

ERRORLEVEL 2

485	1 001CE		BOUND 8
486	1 001CE	00000000 A	ERROR PZE
487	1 001CF	00000000 A	PZE
488	1 001D0	000001D2	PZE,0
489	1 001D1	00000000 A	ERROR
490	1 001D2	32800006 A	LW,8 6
491	1 001D3	48800007 A	EUR,8 7
492	1 001D4	693001D6	BCS,3 TSTDVC
493	1 001D5	0E0001CE	LPSD,0 ERROR
494	1 001D6	652001D7	TSTDVC BIR,2 \$+1

PICK UP RESULT
 COMPARE WITH DETERMINED RESULT
 DIFF 0
 INCREMENT ERROR COUNTER

		SUFFIX(2)		
495	1 00107	40000041 A	ND,0 X'41'	TURN ON ALARM
496	1 00108	40000001 A	TIO,11 TYPE	PREPARE FOR TYPEWRITER USAGE
497	1 00109	43B0030E	AND,11 603	SELECT TYPEWRITER STATUS INFO
498	1 0010A	63B001E1	BCR,3 EDIT	TYPEWRITER READY
499	1 0010B	43B0030E	EOR,11 603	
500	1 0010C	63B001D8	BCR,3 \$-4	TYPEWRITER BUSY
501	1 0010D	60000000 A	HTEST RD,0 0	KHEAD SENSE SWITCHES
502	1 0010E	691001E0	BCS,1 NOHALT	
503	1 0C1DF	20000000 A	WAIT -->	COMMON ERROR HALT
504	1 0010F	6E0001CE	NOHALT LPSD,0 ERROR -3	

203

		SUFFIX(2)		PAGE			
505			*				
506							
507	1 001E1	32C002FC	EDIT	LW,12	STRMC1	EDIT-LEVEL 3	SET STORAGE WORD
508	1 001E2	32900315		LW,9	NEG8		
509	1 001E3	32A00005 A		LW,10	5	TEST RS#0	
510	1 001E4	693001E6		BCS,3	REPORT+2	DISPLAY	
511	1 001E5	3290033F	REPORT	LW,9	NEG4		
512	1 001E6	32A002F5		LW,10	LOADR	SET REGISTER PICKUP	
513	1 001E7	35A001E8		STW,10	LDREG		
514	1 001E8	32A00001 A	LDREG	LW,10	1	PICK UP REGISTER 1 THRU 8(D26) ON A	
515	1 001E9	35A003E8		STW,10	WORD		
516	1 001EA	359003E9		STW,9	COUNT		
517	1 001EB	32F00341		LW,15	NEG2	SET WORD COUNT(H)*2	
518	1 001EC	320002F6		LW,0	LWN	SET N=4	
519	1 001ED	32A002F8		LW,10	LWERH	SET FRAME = FOFOPOFOP, FOFOPOFOP	
520	1 001EE	32E002F0		LW,11	ANFR0	SET CHAR POSITIONS 1234,5678	
521	1 001EF	4B900313		AND,9	ONE	TEST COUNT EVEN	
522	1 001F0	693001F5		BCS,3	ODD		
523	1 001F1	32F00314	EVEN	LW,15	NEG3	SET WORD COUNT(H)*3	
524	1 001F2	320002F7		LW,0	LWN2	SET N= 2,4,6,8,2	
525	1 001F3	32A002F9		LW,10	LWERH2	SET FRAME=4010101010, F010101010, F0F01010	
526	1 001F4	32B002F1		LW,11	ANFR2	SET CHAR POSITIONS 12,34,6,78	
527	1 001F5	32E002F2	ODD	LW,14	ANHK	SET DIGIT PICK = BITS 0-3, 4-7, FTC	
528	1 001F6	350001F9	WORDS	STW,0	SETN	SET NUMBER PICK UP	
529	1 001F7	35A001FA		STW,10	SETRH	SET FRAME PICK UP	
530	1 001F8	35C00215		STW,12	STRD	SET STORAGE LOCATION	
531	1 001F9	3200033F	SETN	LW,0	NUMBER	SET NUMBER	
532	1 001FA	32D00344	SETFRM	LW,13	FRAM	SET FRAME (FINAL CHAR-DYTE FUNCTION)	
533	1 001FB	35B00210	BYTES	STW,11	ANDE	SET FILTER	
534	1 001FC	35D003EB		STW,13	WK0	SAVE FRAME	
535	1 001FD	35E00205		STW,14	ANDM	SET MASK (ORIGINAL CHAR POSITION)	
536	1 001FE	32A002F3		LW,10	LWBIT	SET BIT PICK UP	
537	1 001FF	32C0039F		LW,12	NEG7	SET BIT COUNT	
538	1 00200	32D000360		LW,13	ZERO	SET CHAR GENERATOR TO ZERO	

SUFFIX(2)			
PAGE			
539			
540	1 00201	35A00203	BITS
541	1 00202	35A00208	LWB
542	1 00203	3290033B	
543	1 00204	4B9003E8	ANDM
544	1 00205	4B900349	
545	1 00206	69300208	BCS,3
546	1 00207	0E0003DE	LPSD,0
547	1 00208	3290033B	LWBT
548	1 00209	48D00009 A	
549	1 0020A	65A0020B	BUMPER
550	1 0020B	65C00201	
551	1 0020C	4BD00350	
552	1 0020D	48D002F4	
553	1 0020E	35D0020F	LWBY
554	1 0020F	32D00360	LW,13
555	1 00210	4BD00351	ANDF
556	1 00211	48D003EB	
557	1 00212	65B00213	EOR,13
558	1 00213	65E00214	BIR,11
559	1 00214	650001FB	\$+1
560	1 00215	35D003A4	STRWD
561	1 00216	320001F9	STW,13
562	1 00217	32A001FA	LW,0
563	1 00218	32C00215	SETN
564	1 00219	6500021A	LW,10
565	1 0021A	65A0021B	SETFRM
566	1 0021B	65C0021C	LW,12
567	1 0021C	65F001F6	STRWD
568	1 0021D	329003E9	BIR,0
569	1 0021E	32A001E8	\$+1
570	1 0021F	65A00220	BIR,10
571	1 00220	659001E7	BIR,9
			COUNT
			LDREG
			\$+1
			LDREG=1
			D
			PICK UP BIT 1,2,4OR 8
			(BIT)*(WORD)
			(BIT)*(WORD)*(MASK)
			LWBT IF WORD HAS BIT IN MASK POSITION
			PICK UP BIT
			MERGE BIT WITH CHAR BEING CONSTRUCTED
			INCREMENT BIT PICK UP
			CONTINUE CHAR CONSTRUCTION
			PICK OF BINARY 4 BIT CHAR
			CONSTRUCT BYTE PICK UP WORD
			PICK UP CONVERTED BYTE
			SELECT DESIRED TYPE
			MERGE BYTE INTO CONVERTED WORD
			INCREMENT CONVERTED BYTE POSITION
			INCREMENT SELECTED CHAR POSITION
			TEST FOR N CHAR'S
			STORE CONVERTED WORD
			SET NUMBER PICK UP
			SET FRAME PICK UP
			PICK UP STORE WORD
			INCREMENT NUMBER PICK UP
			INCREMENT FRAME PICK UP
			INCREMENT STORE LOCATION
			INCREMENT M = BRANCH IF M NOT ZERO
			SET COUNT
			SET REGISTER PICK UP
			INCREMENT REGISTER PICK UP
			BRANCH TO LDREG IF COUNT NOT ZERO

		SUFFIX(2)	PAGE		
572				OUTPUT LEVEL 3	
573				LINE COUNT (~51)	
574	1 00221	32F0031B	LW,15	LINE	
575	1 00222	32E0031C	LW,14	FIRST	
576	1 00223	65E00227	BIR,14	SKIP6	
577	1 00224	65F0022C	BIR,15	LINOUT	
578	1 00225	32000370	LW,0	PSIXCR	
579	1 00226	0F000238	XPSD,0	PRINT	
580	1 00227	32000371	SKIP6	LW,0	PTITLE
581	1 00228	0F000238	XPSD,0	PRINT	
582	1 00229	32000372	LW,0	PHEAD	
583	1 0022A	0F000238	XPSD,0	PRINT	
584	1 0022B	32F00319	LW,15	NEG51	
585	1 0022C	32000374	LINOUT	LW,0	PLONGL
586	1 0022D	32A00005 A	LW,10	5	
587	1 0022E	69300230	BCS,3	I0	
588	1 0022F	32000373	LW,0	PSHRTL	
589	1 00230	0F000238	I0	XPSD,0	PRINT
590	1 00231	35F0031B	STW,15	LINE	
591	1 00232	35E0031C	STW,14	FIRST	
592	1 00233	6D000040 A	WD,0	X140!	
593	1 00234	0E000236	LPSD,0	GETOUT	
594	1 00236	003001DD	BOUND 8		
595	1 00236	00000000 A	GETOUT	PZE,3	HLTEST
596	1 00237		PZE		

20-788-01004

7-10-87

PRINT LEVEL 4

			SUFFIX(2)	PAGE
597				
598			*	
599	1 00238		PRINT	BOUND 8
600	1 00238	00000000 A		PZE
601	1 00239	00000C00 A		PZE
602	1 0023A	0000023C		PZE,0 PRINT#4
603	1 0023B	00000000 A		PZE
604	1 0023C	4CB00001 A	BUSY	SI0,11 TYPE
605	1 0023D	4BB0030E		AND,11 6Q3
606	1 0023E	68300243		BCR,3 EXITIO
607	1 0023F	48B0030E		EOR,11 6Q3
608	1 00240	6830023C		BCR,3 BUSY
609	1 00241	4FB00001 A		HIO,11 TYPE
610	1 00242	2E000000 A		WAIT
611	1 00243	0E000238	EXITIO	LPSD,0 PRINT

SELECT TYPEWRITER FOR OUTPUT

READY

BUSY

UNAVAILABLE OR INOPERATIVE

231

			SUFFIX(2)	PAGE		
612				LW,4	TABLE+2	
613	1 00244	324003BA	SETPSH	AND,4	COND	CLEAR ADDRESS
614	1 00245	4840030B		EOR,4	LOCADD	SET ADDRESS TO LOC
615	1 00246	48400309		STW,4	PSW1	
616	1 00247	354003E2		LW,1	NEG16	
617	1 00248	32100318		LW,13	RT2+16,1	RT2 TO BRT
618	1 00249	32D2040C		STW,13	VRT+16,1	
619	1 0024A	35D2053E		BIR,1	\$~2	
620	1 0024B	65100249		LW,12	TABLE+5	R120 AND R120 TO VRTR
621	1 0024C	32C003BD		LW,13	TABLE+9	
622	1 0024D	32D003C1		STD,12	VRTR+12	
623	1 0024E	15C0054A		LW,1	NEG64	PRESET FMT
624	1 0024F	3210031A		LW,12	TABLE+12	
625	1 00250	32C003C4		STW,12	\$+1	
626	1 00251	35C00252		LW,7	MT1+64,1	LW,7 MT1+64,1+DP+64,1
627	1 00252	3272045C		STW,7	FMT+64,1	
628	1 00253	3572058E		BIR,1	\$~2	
629	1 00254	65100252		LW,0	RT1	
630	1 00255	320003EC		LD,2	RT1+2	LOAD
631	1 00256	122003EE		LD,4	RT1+4	RT1 TABLE
632	1 00257	124003F0		LD,6	RT1+6	IF
633	1 00258	126003F2		LD,8	RT1+8	STM
634	1 00259	128003F4		LD,10	RT1+10	PSM
635	1 0025A	12A003F6		LD,14	RT1+14	OR PSW
636	1 0025B	12E003FA		LD,2	RT2+2	
637	1 0025C	122003FE	LD20	LD,4	RT2+4	
638	1 0025D	12400400		LD,6	RT2+6	
639	1 0025E	12600402		LD,8	RT2+8	
640	1 0025F	12800404		LD,10	RT2+10	
641	1 00260	12A00406		LD,14	RT2+14	
642	1 00261	12E0040A		LW,0	TABLE+6	
643	1 00262	320003BE		LW,1	NEG64	RESET VRT
644	1 00263	3210031A	SHORT1	LW,13	TABLE+13	
645	1 00264	32D003C5		STW,13	\$+1	
646	1 00265	35D00266		LW,13	MT1+64,1	LW,13 MT1+64,1+EP1+64,1
647	1 00266	32D2045C		STW,13	VMT+64,1	
648	1 00267	35D205D0				

			SUFFIX(2)		
649	1 00268	65100266	BIR,1	\$-2	
650	1 00269	321003C7	LW,1	TABLE+15	(LW,1 TABLE+15)/BCR,0 /
651	1 0026A	32D203C7	LW,13	TABLE+15,1	SHORT2)
652	1 0026B	35D2053F	STW,13	VMT+1,1	
653	1 0026C	6410026A	BDR,1	\$-2	
654	1 0026D	32C0031E	SHORT2	LW,12	TABLE+6
655	1 0026E	32D00362	LW,13	TABLE+10	MEMORY 1 IN
656	1 0026F	15C00304	STD,12	MEMORY	MEMORY 2 IN .
657	1 00270	321002EF	LW,1	INX	R12/R1 IN
658	1 00271	32C0030C	LW,12	TABLE+4	R12 IN
659	1 00272	32D003C0	LW,13	TABLE+4	R13 IN
660	1 00273	0E000332	LPD,0	PSW1 --- SPC	
661	1 00274	670003CD	LOC	EXU	EXECUTE INSTRUCTION
662	1 00275	07000303		XPSD,0	RETURN
663	1 00276	6C000000 A		RD,0	0
664	1 00277	68000262		BCR,8	READ BREAKPOINTS
665	1 00278	68000263	SHTRT,1	BCR,0	BRANCH IF BREAKPOINT 1 RESET
666	1 00279	3500053E	STD,0	SHTRT1	BCR,0 SHORT1/SHORT2
667	1 0027A	3510052F	STW,0	VRT	
668	1 0027B	15200530	STW,1	VRT+1	
669	1 0027C	15400532	STD,2	VRT+2	
670	1 0027D	15600534	STD,4	VRT+4	
671	1 0027E	15800536	STD,6	VRT+6	
672	1 0027F	15A00538	STD,8	VRT+8	
673	1 00280	15C0053A	STD,10	VRT+10	
674	1 00281	15E0053C	STD,12	VRT+12	
675	1 00282	32100CF8	TESTS	STD,14	
676	1 00283	351003EA	LW,1	VRT+14	
677	1 00284	32100113	STW,1	RETURN+2	SET RETURN TO VERT+2
678	1 00285	322003E6	LW,1	SAVE	LIST POINTER
679	1 00286	323003E7	LW,2	ERRORS	ERROR COUNT
680	1 00287	324002B9	LW,3	PASSES	NUMBER OF PASSES
681	1 00288	325002AD	LW,4	TABLE+4	INSTRUCTION
682	1 00289	327003B9	LW,5	INSTID	TEST INSTRUCTION
683	1 0028A	326003CD	LW,6	INTID	
684	1 0028B	0F0001CE	XPSD,0	END	
685	1 0028C	323003CE	LW,7	XPSD	TEST XPSD
686	1 0028D	32700317	LW,7	XPSD	

687	1	0028E	32600275
688	1	0028F	0F0001CE
689	1	00290	3250031F
690	1	00291	327003CE
691	1	00292	326002EB
692	1	00293	0F0001CE
693	1	00294	32500320
694	1	00295	3270053F
695	1	00296	3260052F
696	1	00297	0F0001CE
697	1	00298	32500321
698	1	00299	327003B8
699	1	0029A	326003D8
700	1	0029B	0F0001CE
701	1	0029C	20500001 A
702	1	0029D	327003E3
703	1	0029E	326003B9
704	1	0029F	0F0001CE
705	1	002A0	32100318
706	1	002A1	32500322
707	1	002A2	351003A A
708	1	002A3	3272054E
709	1	002A4	3262053E
710	1	002A5	32100113
711	1	002A6	0F0001CE
712	1	002A7	20500001 A
713	1	002A8	321003EA
714	1	002A9	651002A2
715	1	002AA	328003E9
716	1	002AB	329002E5
717	1	002AC	458002E5
718	1	002AD	683002D7
719	1	002AE	32100113
720	1	002AF	32500323
721	1	002B0	327003DE
722	1	002B1	326003D4
723	1	002B2	0F0001CE
724	1	002B3	20500001 A

SUFFIX(2)
STCNT1

LW,6	LOC+1
XPSD,0	ERROR
LW,5	IAID
LW,7	IA
LW,6	WKIA
XPSD,0	ERROR
LW,5	IXID
LW,7	VRTR+1
LW,6	VRT+1
XPSD,0	ERROR
LW,5	PSDMID
LW,7	TABLE+3
LW,6	RETURN
XPSD,0	ERROR
AI,5	1
LW,7	PSW2
LW,6	RETURN+1
XPSD,0	ERROR
LW,1	NEG16
LW,5	REGID
STW,1	SVCNT
LW,7	VRTR+16+3
LW,6	VRT+16+2
LW,1	SAVE
XPSD,0	ERROR
AI,5	1
LW,1	SVCNT
BIR,1	STCNT1
LW,8	TABLE+1
LW,9	BYTINS
CS,8	BYTINS
BCR,3	TSTMT
LW,1	SAVE
LW,5	MEMD
LW,7	TABLE+7
LW,6	MEMORY
XPSD,0	ERROR
AI,5	1

TEST INDIRECT ADDRESSING

TEST INDEXING

TEST PGDM1

TEST PGDM2

TEST DECISION

BRANCH BY BIRE INVERSION

TEST MEMORY WORD 1

TEST MEMORY WORD 2

			SUFFIX(2)	
725	1 002B4	327003C3	LW,7	TABLE+11
726	1 002B5	326003D5	LW,6	MEMORY+1
727	1 002B6	0F0001CE	XPSD,0	ERROR
728	1 002B7	3210031A	TSTFMT	LW,1 NEG64
729	1 002B8	32C003C4		LW,12 TABLE+12
730	1 002B9	35C002BC		STW,12 \$+3
731	1 002BA	32500324		LW,5 FMTID
732	1 002BB	351003EA	STCNT2	STW,1 SVECNT
733	1 002BC	3272045C		LW,7 MT1+64,1
734	1 002BD	3262058E		LW,6 FMT+64,1
735	1 002BE	32100113		LW,1 SAVE
736	1 002BF	0F0001CE		XPSD,0 ERROR
737	1 002C0	20500001 A		AI,5 1
738	1 002C1	321003EA		LW,1 SVECNT
739	1 002C2	651002BB		BIR,1 STCNT2
740	1 002C3	3210031A	TSTVNT	LW,1 NEG64
741	1 002C4	32500325		LW,5 VMTID
742	1 002C5	351003EA	STCNT3	STW,1 SVECNT
743	1 002C6	32720610		LW,7 VMTR+64,1
744	1 002C7	326205D0		LW,6 VMT+64,1
745	1 002C8	32100113		LW,1 SAVE
746	1 002C9	0F0001CE		XPSD,0 ERROR
747	1 002CA	20500001 A		AI,5 1
748	1 002CB	321003EA		LW,1 SVECNT
749	1 002CC	651002C5		BIR,1 STCNT3
750	1 002CD	32500360		LW,5 ZERO
751	1 002CE	32600307		LW,6 RETEND
752	1 002CF	356001CE		STW,6 ERROR
753	1 002D0	32100113		LW,1 SAVE
754	1 002D1	6C000000 A		RD,0 0
755	1 002D2	692001D8		BCS,2 TSTDVC+2
756	> 1 002D3	6D000040 A	END	WD,0 X140
757	1 002D4	653002D5		BIR,3 \$+1
758	1 002D5	6C000000 A		RD,0 0
759	1 002D6	69400109		BCS,4 CYCLE+1
760	1 002D7	3210011C		LW,1 FROM
761	1 002D8	0E0003E0		LPSD,0 MODULE
				SET INTERRUPT FOR REPORT
				SET RETURN FROM OUTPUT END
				SS3 = REPORT
				TURN OFF ALARM
				INCREMENT MODULE COUNTER
				READ SENSE SWITCHES
				RESTORE NEW LIST ADDRESS
				UPDATEN POINTER

				SUFFIX(2)	PAGE	CONSTANTS AND WORKING STORAGE
762				*		
763						
764	1 002D9	00000000 A	HEM210	DATA	0,-1	
	1 002DA	FFFFFFFFFF A				
765	1 002DB	0000041C	LWMT12	PZE,0	HT1	
766	1 002DC	0000045C		PZE,0	MT2	
767	1 002DD	6880027A	STRGP1	BCR,8	STRG+1	
768	1 002DE	68800282	BCRTST	BCR,8	TESTS	
769	1 002DF	68800279	ST0REG	BCR,8	STRG	
770	1 002E0	00000000 A	STHISK	J	11,0	
771	1 002E1	28000000 A	MSK2B	J	X12B1,0	
772	1 002E2	09000000 A	MSK09	J	9,0	
773	1 002E3	7E000000 A	CVMASK	DATA	X'7E000000'	
774	1 002E4	28000000 A	CVINST	DATA	X'28000000'	
775	1 002E5	40000000 A	BYTINS	DATA	X'40000000'	
776	1 002E6	7F000000 A	INNSMK	DATA	X'7F000000'	
777	1 002E7	63000000 A	EBSINS	DATA	X'63000000'	
778	1 002E8	41000000 A	TBSINS	DATA	X'41000000'	
779	1 002E9	60000000 A	CBSINS	DATA	X'60000000'	
780	1 002EA	321003C7	CBSLW	LW,1	TABLE+15	
781	1 002EB	00000000 A	WKIA	PZE		
782	1 002EC	68000263	SHT1RT	BCR,0	SHORT1	
783	1 002ED	6800026D	SHT2RT	BCR,0	SHORT2	
784	1 002EE	00020000 A	IXMSK	DATA	X'20000'	
785	1 002EF	00000000 A	INDX	PZE		
786	1 002F0	4BD00351	ANFR0	AND,13	FILTER	PICK OFF CONVERTED BYTE
787	1 002F1	4BD00353	ANFR2	AND,13	FILTER+2	
788	1 002F2	4BD00349	ANMK	AND,9	MASK	PICK OFF CHAR. TO BE CONVERTED
789	1 002F3	3290033B	LWBIT	LW,9	BIT	PICK UP MARCHING BITS
790	1 002F4	32D00360	LWBYTE	LW,13	BYTE	SELECT BYTE
791	1 002F5	32A00001 A	LOADR	LW,10	1	PICK UP REGISTERS FOR OUTPUT
792	1 002F6	3200033F	LWN	LW,0	NUMBER	PICK UP NUMBERS
793	1 002F7	32000341	LWN2	LW,0	NUMBER+2	
794	1 002F8	32D00344	LWFRM	LW,13	FRAME	PICK UP FRAMES
795	1 002F9	32D00346	LWFRM2	LW,13	FRAME+2	
796	1 002FA	32400610	LOAD	LW,4	LIST	LOAD TRANSFER VEHICAL WITH DATA MODU
797	1 002FB	354003B8	STORE	STW,4	TABLE	SET TABLE

SUFFIX(2)					
798	1 002FC	35D003A4	STRMG1	STW,13	IMAGE+1
799	1 002FD	324003ED	LWRT1	LW,4	RT1+1
800	1 002FE	324003FD	LWRT2	LW,4	RT2+1
801	1 002FF	68000263	LDRT1	BCR,0	SH0RT1
802	1 00300	122003FE	LDRT2	LD,2	RT2+2
803	1 00301	00000590	IACV	PZE,0	VMT
804	1 00302	000003D4	IAPUPU	PZE,0	MEMORY
805	1 00303	0000052E	IASTM	PZE,0	VRT
806	1 00304	0000040C	IALM	PZE,0	RT3
807	1 00305	40000000 A	LMSTM	DATA	X'40000000'
808	1 00306	49000000 A	STM	DATA	X'49000000'
809	1 00307	000002D3	RETEND	PZE,0	END
810	1 00308	00000276	LOC2AD	PZE,0	LOC+2
811	1 00309	00000274	L0CADD	PZE,0	L0C
812	1 0030A	00001740	VMTRCH	J	0,BA(VMTR)
813	1 0030B	FFF00000 A	CUND	DATA	X'FFF00000'
814	1 0030C	FF3FFFFF A	LINKADD	DATA	X'FF3FFFFF'
815	1 0030D	FFFF0000 A	M1Q15	DATA	X'FFFF0000'
816	1 0030E	60000000 A	603	DATA	X'60000000'
817	1 0030F	20000000 A	203	DATA	X'20000000'
818	1 00310	00400000 A	I9	DATA	X'400000'
819	1 00311	00B0B000 A	SEP	DATA	X'B0B000'
820	1 00312	0000000C A	CEE	DATA	12
821	1 00313	00000001 A	ONE	DATA	1
822	1 00314	FFFFFFFD A	NEG3	DATA	-3
823	1 00315	FFFFFFF8 A	NEG8	DATA	-8
824	1 00316	FFFFFFF6 A	NEG10	DATA	-10
825	1 00317	FFFFFFF4 A	NEG12	DATA	-12
826	1 00318	FFFFFFF0 A	NEG16	DATA	-16
827	1 00319	FFFFFFCD A	NEG51	DATA	-51
828	1 0031A	FFFFFFCO A	NEG64	DATA	-64
829	1 0031B	FFFFFFCD A	LINE	DATA	-51
830	1 0031C	FFFFFFFE A	FIRST	DATA	-2
831	1 0031D	10000000 A	INSTID	I	1,0
832	1 0031E	20000275	XPSID	I	2,LOC+1
833	1 0031F	30000000 A	IAID	I	3,0
834	1 00320	40000001 A	IXID	I	4,1
835	1 00321	50000001 A	PSDWID	I	5,1

INSTRUCTION

LOCATION+1

INDIRECT ADDRESS

INDEX

PROGRAM STATUS DOUBLEWORD

				SUFFIX(2)		REGISTERS MEMORY WORDS
836	1	00322	60000000 A	REGID	I	6,0
837	1	00323	700003D4	MEMID	I	7, MEMORY
838	1	00324	7100054E	FMTID	CB,0	FMT
839	1	00325	72000590	VMTID	LB,0	VMT
840	1	00326	0000F7EF A	NOTAE	DATA	X'F7EF'
841	1	00327	00000810 A	PCPINT	DATA	X'810'
842	1	00328	00000020 A	IOINT	DATA	X'20'
843	1	00329	000000F4	IOAD	PZE,0	I0RET-1
844	1	0032A	000001EA	MEMAD	P	MEMORY
845	1	0032B	0F00005E	NAXD	XPSD,0	NA0
846	1	0032C	00000062	NA0AD	PZE,0	NA0+4
847	1	0032D	00000076	UIIAD	PZE,0	UII+4
848	1	0032E	0000007C	SLAD	PZE,0	SL+4
849	1	0032F	00000082	FXPOAD	PZE,0	FXP0+4
850	1	00330	00000088	FLPFAD	PZE,0	FLPF+4
851	1	00331	0000008E	DFAD	PZE,0	DF+4
852	1	00332	00000094	WDTRAD	PZE,0	WDTR+4
853	1	00333	0F000096	CAL1XD	XPSD,0	CAL1
854	1	00334	0F0000AA	CAL2XD	XPSD,0	CAL2
855	1	00335	0F0000BE	CAL3XD	XPSD,0	CAL3
856	1	00336	0F0000D2	CAL4XD	XPSD,0	CAL4
857	1	00337	0000009A	CAL1AD	PZE,0	CAL1+4
858	1	00338	000000AE	CAL2AD	PZE,0	CAL2+4
859	1	00339	000000C2	CAL3AD	PZE,0	CAL3+4
860	1	0033A	000000D6	CAL4AD	PZE,0	CAL4+4
861	1	0033B	11111111 A	BIT	DATA	X'11111111'
862	1	0033C	22222222 A		DATA	X'22222222'
863	1	0033D	44444444 A		DATA	X'44444444'
864	1	0033E	88888888 A		DATA	X'88888888'
865	1	0033F	FFFFFFFFFF A	NUMBER	DATA	-4,-4,-2,-4,-2
	1	00340	FFFFFFFFFF A			
	1	00341	FFFFFFFE A			
	1	00342	FFFFFFFC A			
	1	00343	FFFFFFFE A			
866	1	00344	F0F0F0F0 A	FRAME	DATA	X'F0F0F0F0'
867	1	00345	F0F0F0F0 A		DATA	X'F0F0F0F0'
868	1	00346	4040F0F0 A		DATA	X'4040F0F0'
869	1	00347	F0F0F0F0 A		DATA	X'F0F0F0F0'

			SUFFIX(2)
870	1 00348	F0F04040 A	DATA X'F0F04040'
871	1 00349	F0000000 A	DATA X'F0000000'
872	1 0034A	0F000000 A	DATA X'F0000000'
873	1 0034B	00F00000 A	DATA X'F000000'
874	1 0034C	000F0000 A	DATA X'F00000'
875	1 0034D	0000F000 A	DATA X'F0000'
876	1 0034E	00000F00 A	DATA X'F0000'
877	1 0034F	000000F0 A	DATA X'F000'
878	1 00350	0000000F A	DATA X'F000'

				SUFFIX(2)	
			PAGE		
879					
880	1	00351	FF000000 A	FILTER	DATA X'FF000000'
881	1	00352	00FF0000 A		DATA X'FF0000'
882	1	00353	0000FF00 A		DATA X'FF00'
883	1	00354	000000FF A		DATA X'FF'
884	1	00355	FF000000 A		DATA X'FF000000'
885	1	00356	00FF0000 A		DATA X'FF0000'
886	1	00357	0000FF00 A		DATA X'FF00'
887	1	00358	000000FF A		DATA X'FF'
888	1	00359	FF000000 A		DATA X'FF000000'
889	1	0035A	00FF0000 A		DATA X'FF00000'
890	1	0035B	00000000 A	FILL	X'360'
		1 0035C	00000000 A		
		1 0035D	00000000 A		
		1 0035E	00000000 A		
		1 0035F	00000000 A		

SUFFIX(2)					
			PAGE		
891			DATA	0	
892	1 00360	00000000 A	BYTE	X'01010101'	1
893	1 00361	01010101 A	DATA	X'02020202'	2
894	1 00362	02020202 A	DATA	X'03030303'	3
895	1 00363	03030303 A	DATA	X'04040404'	4
896	1 00364	04040404 A	DATA	X'05050505'	5
897	1 00365	05050505 A	DATA	X'06060606'	6
898	1 00366	06060606 A	DATA	X'07070707'	7
899	1 00367	07070707 A	DATA	X'08080808'	8
900	1 00368	08080808 A	DATA	X'09090909'	9
901	1 00369	09090909 A	DATA	X'131313131'	A
902	1 0036A	31313131 A	DATA	X'32323232'	B
903	1 0036B	32323232 A	DATA	X'33333333'	C
904	1 0036C	33333333 A	DATA	X'34343434'	D
905	1 0036D	34343434 A	DATA	X'35353535'	E
906	1 0036E	35353535 A	DATA	X'36363636'	F
907	1 0036F	36363636 A	DATA		
908		*			COMMAND PAIRS
909	1 00370	000001BB	PSIXCR	P	SIXCR
910	1 00371	000001BC	PTITLE	P	TITLE
911	1 00372	000001BD	PHEAD	P	HEAD
912	1 00373	000001BE	PSHRTL	P	SHRTL
913	1 00374	000001BF	PLONGL	P	LONGL
914	1 00376		BOUND	B	
915	1 00376	01000E00	SIXCR	JJ	1,TTL
916	1 00377	08000006 A	DATA	X'8000006'	
917	1 00378	01000E00	TITLE	JJ	1,TTL
918	1 00379	0800003A A	DATA	X'800003A'	
919	1 0037A	01000E3C	HEAD	JJ	1,HDG
920	1 0037B	08000050 A	DATA	X'8000050'	
921	1 0037C	01000E8C	SHRTL	JJ	1,IMAGE
922	1 0037D	0800002C A	DATA	X'800002C'	
923	1 0037E	01000E8C	LONGL	JJ	1,IMAGE
924	1 0037F	08000054 A	DATA	X'8000054'	

SUFFIX(2)

			PAGE	
925			DATA	X'15151515'
926	1 00380	15151515 A	TTL	
927	1 00381	15151540 A		DATA X'15151540'
928	1 00382	40404040 A		DATA X'40404040'
929	1 00383	40404040 A		DATA X'40404040'
930	1 00384	40404040 A		DATA X'40404040'
931	1 00385	40404040 A		DATA X'40404040'
932	1 00386	40404040 A		DATA X'40404040'
933	1 00387	40404040 A		DATA X'40404040'
934	1 00388	40404040 A		DATA X'40404040'
935	1 00389	40E2E4C6 A		DATA X'40E2E4C6'
936	1 0038A	C6C9E740 A		DATA X'C6C9E740'
937	1 0038B	C5D9D9D6 A		DATA X'C5D9D9D6'
938	1 0038C	D940C4C9 A		DATA X'D940C4C9'
939	1 0038D	E2D7D3C1 A		DATA X'E2D7D3C1'
940	1 0038E	E8404040 A		DATA X'E8404040'
941	1 0038F	15404040 A	HDG	DATA X'15404040'
942	1 00390	40D3C9E2 A		DATA X'40D3C9E2'
943	1 00391	E3404040 A		DATA X'E3404040'
944	1 00392	4040C5D9 A		DATA X'4040C5D9'
945	1 00393	D9D6D9E2 A		DATA X'D9D6D9E2'
946	1 00394	40404040 A		DATA X'40404040'
947	1 00395	D7C1E2E2 A		DATA X'D7C1E2E2'
948	1 00396	C5E24040 A		DATA X'C5E24040'
949	1 00397	404040C9 A		DATA X'404040C9'
950	1 00398	D5E2E340 A		DATA X'D5E2E340'
951	1 00399	4040C9C4 A		DATA X'4040C9C4'
952	1 0039A	C5D5E3C9 A		DATA X'C5D5E3C9'
953	1 0039B	C6C9C5D9 A		DATA X'C6C9C5D9'
954	1 0039C	40404040 A		DATA X'40404040'
955	1 0039D	C9E24040 A		DATA X'C9E24040'
956	1 0039E	4040E2C8 A		DATA X'4040E2C8'
957	1 0039F	D6E4D3C4 A		DATA X'D6E4D3C4'
958	1 003A0	40C2C540 A		DATA X'40C2C540'
959	1 003A1	404040C4 A		DATA X'404040C4'
960	1 003A2	C9C6C615 A		DATA X'C9C6C615'
961	1 003A3	40404015 A	IMAGE	DATA X'40404015'

962

1	003A4	00000000	A
1	003A5	00000000	A
1	003A6	00000000	A
1	003A7	00000000	A
1	003A8	00000000	A
1	003A9	00000000	A
1	003AA	00000000	A
1	003AB	00000000	A
1	003AC	00000000	A
1	003AD	00000000	A
1	003AE	00000000	A
1	003AF	00000000	A
1	003B0	00000000	A
1	003B1	00000000	A
1	003B2	00000000	A
1	003B3	00000000	A
1	003B4	00000000	A
1	003B5	00000000	A
1	003B6	00000000	A

SUFFIX(2)
FILL \$+19

963
 964 1 003B8
 965 1 003B8 00000000 A TABLE FILL \$+20
 1 003B9 00000000 A
 1 003BA 00000000 A
 1 003BB 00000000 A
 1 003BC 00000000 A
 1 003BD 00000000 A
 1 003BE 00000000 A
 1 003BF 00000000 A
 1 003C0 00000000 A
 1 003C1 00000000 A
 1 003C2 00000000 A
 1 003C3 00000000 A
 1 003C4 00000000 A
 1 003C5 00000000 A
 1 003C6 00000000 A
 1 003C7 00000000 A
 1 003C8 00000000 A
 1 003C9 00000000 A
 1 003CA 00000000 A
 1 003CB 00000000 A
 966 1 003CC 00000000 A TEST FILL \$+12
 1 003CD 00000000 A
 1 003CE 00000000 A
 1 003CF 00000000 A
 1 003D0 00000000 A
 1 003D1 00000000 A
 1 003D2 00000000 A
 1 003D3 00000000 A
 1 003D4 00000000 A
 1 003D5 00000000 A
 1 003D6 00000000 A
 1 003D7 00000000 A
 967 1 003D8 00000000 A RETURN PZE
 968 1 003D9 00000000 A PZE
 969 1 003DA 00000276 PZE,0 L0042

SUFFIX(2)

970	1 003DB	00000000 A		PZE
971	1 003DC	000000F4	I0REL	PZE,0 IORET-1
972	1 003DD	00000000 A		PZE
973	1 003DE	0000020A	BUMP	PZE,0 BUMPER
974	1 003DF	00000000 A		PZE
975	1 003E0	00000109	REPEAT	PZE,0 CYCLE+1
976	1 003E1	00000000 A		PZE
977	1 003E2	00000000 A	PSW1	PZE
978	1 003E3	00000000 A	PSW2	PZE
979	1 003E4	00000000 A	CNT3CP	PZE
980	1 003E5	00000000 A	CNT4CP	PZE
981	1 003E6	00000000 A	ERRORS	PZE
982	1 003E7	00000000 A	PASSES	PZE
983	1 003E8	00000000 A	WORD	PZE
984	1 003E9	00000000 A	COUNT	PZE
985	1 003EA	00000000 A	SVECNT	PZE
986	1 003EB	00000000 A	WKG	PZE
987	1 003EC			BOUNDS
988			RT1	FILL \$
989		00000008		DO 8
990	1 003EC	01234567 A		DATA X'1234567', X'FEDCBA98'
	1 003ED	FEDCBA98 A		
991				ELSE
989				DO 8
990	1 003EE	01234567 A		DATA X'1234567', X'FEDCBA98'
	1 003EF	FEDCBA98 A		
991				ELSE
989				DO 8
990	1 003F0	01234567 A		DATA X'1234567', X'FEDCBA98'
	1 003F1	FEDCBA98 A		
991				ELSE
989				DO 8
990	1 003F2	01234567 A		DATA X'1234567', X'FEDCBA98'
	1 003F3	FEDCBA98 A		
991				ELSE
989				DO 8
990	1 003F4	01234567 A		DATA X'1234567', X'FEDCBA98'
	1 003F5	FEDCBA98 A		

991			SUFFIX(2)	
992			ELSE	
993			DO	8
994	1 003F6	01234567 A	DATA	X'12345671,X'FEDCBA98'
995	1 003F7	FEDCBA98 A		
996			ELSE	
997			DO	8
998	1 003F8	01234567 A	DATA	X'12345671,X'FEDCBA98'
999	1 003F9	FEDCBA98 A		
990			ELSE	
991			DO	8
992			DATA	X'12345671,X'FEDCBA98'
993				
994	1 003FA	01234567 A	DATA	X'12345671,X'FEDCBA98'
995	1 003FB	FEDCBA98 A		
996			ELSE	
997			FIN	
998			FILL	\$
999	00000008		DO	8
990			DATA	X'FEDCBA981,X'12345671
991				
992			ELSE	
993			DO	8
994	1 003FC	FEDCBA98 A	DATA	X'FEDCBA981,X'12345671
995	1 003FD	01234567 A		
996			ELSE	
997			DO	8
998	1 003FE	FEDCBA98 A	DATA	X'FEDCBA981,X'12345671
999	1 003FF	01234567 A		
990			ELSE	
991			DO	8
992			DATA	X'FEDCBA981,X'12345671
993				
994	1 00400	FEDCBA98 A	DATA	X'FEDCBA981,X'12345671
995	1 00401	01234567 A		
996			ELSE	
997			DO	8
998	1 00402	FEDCBA98 A	DATA	X'FEDCBA981,X'12345671
999	1 00403	01234567 A		
990			ELSE	
991			DO	8
992			DATA	X'FEDCBA981,X'12345671
993				
994	1 00404	FEDCBA98 A	DATA	X'FEDCBA981,X'12345671
995	1 00405	01234567 A		
996			ELSE	
997			DO	8
998	1 00406	FEDCBA98 A	DATA	X'FEDCBA981,X'12345671
999	1 00407	01234567 A		

SUFFIX(2)			
996			ELSE
994			DO 8
995	1 00408	FEDCBA98 A	DATA X'FEDCBA98' X'1234567'
	1 00409	01234567 A	
996			ELSE
997			DO 8
998	1 0040A	FEDCBA98 A	DATA X'FEDCBA98' X'1234567'
	1 0040B	01234567 A	
996			ELSE
997			FIN
998		RT3	FILL \$
999			DO 8
1000	1 0040C	00000000 A	DATA 0x-1
	1 0040D	FFFFFFF A	
1001			ELSE
999			DO 8
1000	1 0040E	00000000 A	DATA 0x-1
	1 0040F	FFFFFFF A	
1001			ELSE
999			DO 8
1000	1 00410	00000000 A	DATA 0x-1
	1 00411	FFFFFFF A	
1001			ELSE
999			DO 8
1000	1 00412	00000000 A	DATA 0x-1
	1 00413	FFFFFFF A	
1001			ELSE
999			DO 8
1000	1 00414	00000000 A	DATA 0x-1
	1 00415	FFFFFFF A	
1001			ELSE
999			DO 8
1000	1 00416	00000000 A	DATA 0x-1
	1 00417	FFFFFFF A	
1001			ELSE
999			DO 8
1000	1 00418	00000000 A	DATA 0x-1
	1 00419	FFFFFFF A	

		SUFFIX(2)		
1001		ELSE		
999		DO	8	
1000	1 0041A	DATA	0, +1	
	1 0041B			
1001		ELSE		
1002		FIN		
1003		FILL	\$	
1004	00000020	DO	32	
1005	1 0041C	DATA	X'FOFOFOFO!, X'FOFOFOF!	
	1 0041D			
1006		ELSE		
1004		DO	32	
1005	1 0041E	DATA	X'FOFOFOFO!, X'FOFOFOF!	
	1 0041F			
1006		ELSE		
1004		DO	32	
1005	1 00420	DATA	X'FOFOFOFO!, X'FOFOFOF!	
	1 00421	OFOFOFOF A		
1006		ELSE		
1004		DO	32	
1005	1 00422	DATA	X'FOFOFOFO!, X'FOFOFOF!	
	1 00423	OFOFOFOF A		
1006		ELSE		
1004		DO	32	
1005	1 00424	DATA	X'FOFOFOFO!, X'FOFOFOF!	
	1 00425	OFOFOFOF A		
1006		ELSE		
1004		DO	32	
1005	1 00426	DATA	X'FOFOFOFO!, X'FOFOFOF!	
	1 00427	OFOFOFOF A		
1006		ELSE		
1004		DO	32	
1005	1 00428	DATA	X'FOFOFOFO!, X'FOFOFOF!	
	1 00429	OFOFOFOF A		
1006		ELSE		
1004		DO	32	
1005	1 0042A	DATA	X'FOFOFOFO!, X'FOFOFOF!	
	1 0042B	OFOFOFOF A		

SUFFIX(2)			
1006		ELSE	
1004		DO	32
1005	1 0042C	FOFOFOFO A	X'FOFOFOFO1,X'FOFOFOF1
	1 0042D	OFOFOFOF A	
1006		ELSE	
1004		DO	32
1005	1 0042E	FOFOFOFO A	X'FOFOFOFO1,X'FOFOFOF1
	1 0042F	OFOFOFOF A	
1006		ELSE	
1004		DO	32
1005	1 00430	FOFOFOFO A	X'FOFOFOFO1,X'FOFOFOF1
	1 00431	OFOFOFOF A	
1006		ELSE	
1004		DO	32
1005	1 00432	FOFOFOFO A	X'FOFOFOFO1,X'FOFOFOF1
	1 00433	OFOFOFOF A	
1006		ELSE	
1004		DO	32
1005	1 00434	FOFOFOFO A	X'FOFOFOFO1,X'FOFOFOF1
	1 00435	OFOFOFOF A	
1006		ELSE	
1004		DO	32
1005	1 00436	FOFOFOFO A	X'FOFOFOFO1,X'FOFOFOF1
	1 00437	OFOFOFOF A	
1006		ELSE	
1004		DO	32
1005	1 00438	FOFOFOFO A	X'FOFOFOFO1,X'FOFOFOF1
	1 00439	OFOFOFOF A	
1006		ELSE	
1004		DO	32
1005	1 0043A	FOFOFOFO A	X'FOFOFOFO1,X'FOFOFOF1
	1 0043B	OFOFOFOF A	
1006		ELSE	
1004		DO	32
1005	1 0043C	FOFOFOFO A	X'FOFOFOFO1,X'FOFOFOF1
	1 0043D	OFOFOFOF A	
1006		ELSE	
1004		DO	32

			SUFFIX(2)
1005	1 0043E	FOFOFOFO A	DATA X!FOF EOFOF, X!FOFOFO!
	1 0043F	OFOFOFOF A	ELSE
1006			DO 32
1004			DATA X!FOFOFOFO!, X!FOFOFO!
1003	1 00440	FOFOFOFO A	ELSE
	1 00441	OFOFOFOF A	DO 32
1006			DATA X!FOFOFCFO!, X!FOFCFOF!
1004			ELSE
1005	1 00442	FOFOFOFO A	DO 32
	1 00443	OFCFOFOF A	DATA X!FOFOFOFO!, X!FOFOFO!
1006			ELSE
1004			DO 32
1005	1 00444	FOFOFOFO A	DATA X!FOFOFOFO!, X!FOFOFO!
	1 00445	OFOFOFOF A	ELSE
1006			DO 32
1004			DATA X!FOFOFOFO!, X!FOFOFO!
1005	1 00446	FOFOFOFO A	ELSE
	1 00447	OFOFOFOF A	DO 32
1006			DATA X!FOFOFOFO!, X!FOFOFO!
1004			ELSE
1005	1 00448	FOFOFOFO A	DO 32
	1 00449	OFOFOFOF A	DATA X!FOFOFOFO!, X!FOFOFO!
1006			ELSE
1004			DO 32
1005	1 0045A	FOFOFOFO A	DATA X!FOFOFOFO!, X!FOFOFO!
	1 0045B	OFOFOFOF A	ELSE
1006			DO 32
1004			DATA X!FOFOFOFO!, X!FOFOFO!
1005	1 0045C	FOFOFOFO A	ELSE
	1 0045D	OFOFOFOF A	DO 32
1006			DATA X!FOFOFOFO!, X!FOFOFO!
1004			ELSE
1005	1 0045E	FOFOFOFO A	DO 32
	1 0045F	OFOFOFOF A	DATA X!FOFOFOFO!, X!FOFOFO!
1006			ELSE
1004			DO 32
1005	1 0045G	FOFOFOFO A	DATA X!FOFOFOFO!, X!FOFOFO!
	1 0045H	OFOFOFOF A	ELSE

SUFFIX(2)			
1006		ELSE	
1004		DO	32
1005	1 00452	FOFOFOFO A	X'FOFOFOFO!, X'FOFOFOF!
	1 00453	OFOFOFOF A	
1006		ELSE	
1004		DO	32
1005	1 00454	FoFOFOFO A	X'FOFOFOFO!, X'FOFOFOF!
	1 00455	OFOFOFOF A	
1006		ELSE	
1004		DO	32
1005	1 00456	FOFOFOFO A	X'FOFOFOFO!, X'FOFOFOF!
	1 00457	OFOFOFOF A	
1006		ELSE	
1004		DO	32
1005	1 00458	FOFOFOFO A	X'FOFOFOFO!, X'FOFOFOF!
	1 00459	OFOFOFOF A	
1006		ELSE	
1004		DO	32
1005	1 0045A	FOFOFOFO A	X'FOFOFOFO!, X'FOFOFOF!
	1 0045B	OFOFOFOF A	
1006		ELSE	
1007		FIN	
1008	*		
1009	1 0045C	00000001 A	DATA 1
1010	1 0045D	00000002 A	DATA 2
1011	1 0045E	00000004 A	DATA 4
1012	1 0045F	00000008 A	DATA 8
1013	1 00460	00000010 A	DATA X'10'
1014	1 00461	00000020 A	DATA X'20'
1015	1 00462	00000040 A	DATA X'40'
1016	1 00463	00000080 A	DATA X'80'
1017	1 00464	00000100 A	DATA X'100'
1018	1 00465	00000200 A	DATA X'200'
1019	1 00466	00000400 A	DATA X'400'
1020	1 00467	00000800 A	DATA X'800'
1021	1 00468	00001000 A	DATA X'1000'
1022	1 00469	00002000 A	DATA X'2000'
1023	1 0046A	00004000 A	DATA X'4000'

MTR USED WITH C71-CSV

SUFFIX(2)

1024	1 0046B	00008000 A	DATA	X'8000'
1025	1 0046C	00010000 A	DATA	X'10000'
1026	1 0046D	00020000 A	DATA	X'20000'
1027	1 0046E	00040000 A	DATA	X'40000'
1028	1 0046F	00080000 A	DATA	X'80000'
1029	1 00470	00100000 A	DATA	X'100000'
1030	1 00471	00200000 A	DATA	X'200000'
1031	1 00472	00400000 A	DATA	X'400000'
1032	1 00473	00800000 A	DATA	X'800000'
1033	1 00474	01000000 A	DATA	X'1000000'
1034	1 00475	02000000 A	DATA	X'2000000'
1035	1 00476	04000000 A	DATA	X'4000000'
1036	1 00477	08000000 A	DATA	X'8000000'
1037	1 00478	10000000 A	DATA	X'10000000'
1038	1 00479	20000000 A	DATA	X'20000000'
1039	1 0047A	40000000 A	DATA	X'40000000'
1040	1 0047B	80000000 A	DATA	X'80000000'
1041	1 0047C	F0F0F0F0 A	DATA	X'F0F0F0F0'
1042	1 0047D	0F0F0F0F A	DATA	X'F0F0F0F'
1043	1 0047E	00000000 A	DATA	0
1044	1 0047F	00000001 A	DATA	1
1045	1 00480	FFFFFFFFFF A	DATA	"1
1046	1 00481	0F0F0F0F A	DATA	X'F0F0F0F'
1047	1 00482	F0F0F0F0 A	DATA	X'F0F0F0F0'
1048	1 00483	00000001 A	DATA	1
1049	1 00484	FFFFFFFFFF A	DATA	"1
1050	1 00485	F0F0F0F0 A	DATA	X'F0F0F0F0'
1051	1 00486	0F0F0F12 A	DATA	X'F0F0F12'
1052	1 00487	0F0F0F0F A	DATA	X'F0F0F0F'
1053	1 00488	0F0F0F0F A	DATA	X'F0F0F0F'
1054	1 00489	D2D2D2D2 A	DATA	X'D2D2D2D2'
1055	1 0048A	F0F0F0F0 A	DATA	X'F0F0F0F0'
1056	1 0048B	1E1E1E1F A	DATA	X'1E1E1E1F'
1057	1 0048C	00000000 A	DATA	0
1058	1 0048D	00000001 A	DATA	1
1059	1 0048E	00000000 A	DATA	0
1060	1 0048F	80000000 A	DATA	X'80000000'
1061	1 00490	00000000 A	DATA	0

SUFFIX(2)

1062	1	00491	00000001	A	DATA	1
1063	1	00492	00000000	A	DATA	0
1064	1	00493	FFFFFFFF	A	DATA	-1
1065	1	00494	00000000	A	DATA	0
1066	1	00495	00000001	A	DATA	1
1067	1	00496	00000000	A	DATA	0
1068	1	00497	F0FOFOFO	A	DATA	X!FOFOFOFO
1069	1	00498	00000000	A	DATA	0
1070	1	00499	00000001	A	DATA	1
1071	1	0049A	00000000	A	DATA	0
1072	1	0049B	0F0FOFOF	A	DATA	X!FOFOFOF
1073	1	0049C	0696968B	A	DATA	X!696968B
1074	1	0049D			BOUND	8
1075	1	0049E	FOFOFOFO	A	DATA	X!FOFOFOFO
1076	1	0049F	OFOFOF1F	A	DATA	X!FOFOF1F
1077	1	004A0	FOFOF2F0	A	DATA	X!FOFOF2F0
1078	1	004A1	F0F4FOFO	A	DATA	X!FQF4FOFO
1079	1	004A2	F8FOFOFO	A	DATA	X!F8FOFOFO
1080	1	004A3	FOFOFOEO	A	DATA	X!FOFOFOEO
1081	1	004A4	FOFOODOFO	A	DATA	X!FOFOODOFO
1082	1	004A5	FOBOFOFO	A	DATA	X!FOBOFOFO
1083	1	004A6	Z0FOFOFO	A	DATA	X!Z0FOFOFO
1084	1	004A7	FOFOFOFO	A	DATA	X!FOFOFOFO
1085	1	004A8	FOFOFOFO	A	DATA	X!FOFOFOFO
1086	1	004A9	FOFOFOFO	A	DATA	X!FOFOFOFO
1087	1	004AA	QFOFFOFO	A	DATA	X!FOFFOFO
1088	1	004AC			BOUND	8
1089			00000010		FILE	\$
1090				XXX	CNAME	
1091					PROC	
1092				F	FORM	8,8
1093				X	SET	0
1094				XX	SET	X!01000001
1095					DO	64
1096					F	X,XX
1097				X	SET	X+4
1098				XX	SET	XX+X,00000001
1099					ELSE	

		SUFFIX(2)	
1100			FIN
1101			PEND
1102	1 004AC	00010203 A	XXX
	1 004AD	04050607 A	
	1 004AE	08090A0B A	
	1 004AF	0C0D0E0F A	
	1 004B0	10111213 A	
	1 004B1	14151617 A	
	1 004B2	18191A1B A	
	1 004B3	1C1D1E1F A	
	1 004B4	20212223 A	
	1 004B5	24252627 A	
	1 004B6	28292A2B A	
	1 004B7	2C2D2E2F A	
	1 004B8	30313233 A	
	1 004B9	34353637 A	
	1 004BA	38393A3B A	
	1 004BB	3C3D3E3F A	
	1 004BC	40414243 A	
	1 004BD	44454647 A	
	1 004BE	48494A4B A	
	1 004BF	4C4D4E4F A	
	1 004C0	50515253 A	
	1 004C1	54555657 A	
	1 004C2	58595A5B A	
	1 004C3	5C5D5E5F A	
	1 004C4	60616263 A	
	1 004C5	64656667 A	
	1 004C6	68696A6B A	
	1 004C7	6C6D6E6F A	
	1 004C8	70717273 A	
	1 004C9	74757677 A	
	1 004CA	78797A7B A	
	1 004CB	7C7D7E7F A	
	1 004CC	80818283 A	
	1 004CD	84858687 A	
	1 004CE	88898A8B A	
	1 004CF	8C8D8E8F A	

SUFFIX(2)

	1 004D0	90919293	A		
	1 004D1	94999697	A		
	1 004D2	99999A9B	A		
	1 004D3	SC0DCE9F	A		
	1 004D4	A0A1A2A3	A		
	1 004D5	A4A5A6A7	A		
	1 004D6	A8A9AAAB	A		
	1 004D7	ACADAEAF	A		
	1 004D8	B0B1B2B3	A		
	1 004D9	B4B5B6B7	A		
	1 004DA	B8B9BAB0	A		
	1 004DB	BCBDBEBF	A		
	1 004DC	C0C1C2C3	A		
	1 004DD	C4C5C6C7	A		
	1 004DE	C8C9CACB	A		
	1 004DF	CCCDCCECF	A		
	1 004E0	D0D1D2D3	A		
	1 004E1	D4D5D6D7	A		
	1 004E2	D8D9DADB	A		
	1 004E3	DCDDDEDFA	A		
	1 004E4	E0E1E2E3	A		
	1 004E5	E4E5E6E7	A		
	1 004E6	E8E9EAEB	A		
	1 004E7	ECEDEEEF	A		
	1 004E8	F0F1F2F3	A		
	1 004E9	F4F5F6F7	A		
	1 004EA	F8F9FAFB	A		
	1 004EB	FCFDFFFF	A		
1103	1 004EC	00212020	A	EPI	DATA X1212020!
1104	1 004EE				EGUND 8
1105	1 004EE	00000000	A	ERR1	FILL \$464
	1 004EF	00000000	A		
	1 004F0	00000000	A		
	1 004F1	00000000	A		
	1 004F2	00000000	A		
	1 004F3	00000000	A		
	1 004F4	00000000	A		
	1 004F5	00000000	A		

SUFFIX(2)

47

1 004F6	00000000	A
1 004F7	00000C00	A
1 004F8	00000000	A
1 004F9	00000000	A
1 004FA	00000000	A
1 004FB	00000000	A
1 004FC	00000000	A
1 004FD	00000000	A
1 004FE	00000000	A
1 004FF	00000000	A
1 00500	00000000	A
1 00501	00000000	A
1 00502	00000000	A
1 00503	00000000	A
1 00504	00000000	A
1 00505	00000000	A
1 00506	00000000	A
1 00507	00000000	A
1 00508	00000000	A
1 00509	00000000	A
1 0050A	00000000	A
1 0050B	00000000	A
1 0050C	00000000	A
1 0050D	00000000	A
1 0050E	00000000	A
1 0050F	00000000	A
1 00510	00000000	A
1 00511	00000000	A
1 00512	00000000	A
1 00513	00000000	A
1 00514	00000000	A
1 00515	00000000	A
1 00516	00000000	A
1 00517	00000000	A
1 00518	00000000	A
1 00519	00000000	A
1 0051A	00000000	A
1 0051B	00000000	A

SUFFIX(2)

48

	1 0051C	00000000	A			
	1 0051D	00000000	A			
	1 0051E	00000000	A			
	1 0051F	00000000	A			
	1 00520	00000000	A			
	1 00521	00000000	A			
	1 00522	00000000	A			
	1 00523	00000000	A			
	1 00524	00000000	A			
	1 00525	00000000	A			
	1 00526	00000000	A			
	1 00527	00000000	A			
	1 00528	00000000	A			
	1 00529	00000000	A			
	1 0052A	00000000	A			
	1 0052B	00000000	A			
	1 0052C	00000000	A			
	1 0052D	00000000	A			
1106	1 0052E	00000000	A	VRT	FILL	\$416
	1 0052F	00000000	A			
	1 00530	00000000	A			
	1 00531	00000000	A			
	1 00532	00000000	A			
	1 00533	00000000	A			
	1 00534	00000000	A			
	1 00535	00000000	A			
	1 00536	00000000	A			
	1 00537	00000000	A			
	1 00538	00000000	A			
	1 00539	00000000	A			
	1 0053A	00000000	A			
	1 0053B	00000000	A			
	1 0053C	00000000	A			
	1 0053D	00000000	A			
1107	1 0053E	00000000	A	VRT	FILL	\$416
	1 0053F	00000000	A			
	1 00540	00000000	A			
	1 00541	00000000	A			

SUFFIX(2)

	1 00542	00000000	A			
	1 00543	00000000	A			
	1 00544	00000000	A			
	1 00545	00000000	A			
	1 00546	00000000	A			
	1 00547	00000000	A			
	1 00548	00000000	A			
	1 00549	00000000	A			
	1 0054A	00000000	A			
	1 0054B	00000000	A			
	1 0054C	00000000	A			
	1 0054D	00000000	A			
1108	1 0054E	00000000	A	FMT	FILL	\$+66
	1 0054F	00000000	A			
	1 00550	00000000	A			
	1 00551	00000000	A			
	1 00552	00000000	A			
	1 00553	00000000	A			
	1 00554	00000000	A			
	1 00555	00000000	A			
	1 00556	00000000	A			
	1 00557	00000000	A			
	1 00558	00000000	A			
	1 00559	00000000	A			
	1 0055A	00000000	A			
	1 0055B	00000000	A			
	1 0055C	00000000	A			
	1 0055D	00000000	A			
	1 0055E	00000000	A			
	1 0055F	00000000	A			
	1 00560	00000000	A			
	1 00561	00000000	A			
	1 00562	00000000	A			
	1 00563	00000000	A			
	1 00564	00000000	A			
	1 00565	00000000	A			
	1 00566	00000000	A			
	1 00567	00000000	A			

SUFFIX(2)

50

1	00568	00000000	A
1	00569	00000000	A
1	0056A	00000000	A
1	0056B	00000000	A
1	0056C	00000000	A
1	0056D	00000000	A
1	0056E	00000000	A
1	0056F	00000000	A
1	00570	00000000	A
1	00571	00000000	A
1	00572	00000000	A
1	00573	00000000	A
1	00574	00000000	A
1	00575	00000000	A
1	00576	00000000	A
1	00577	00000000	A
1	00578	00000000	A
1	00579	00000000	A
1	0057A	00000000	A
1	0057B	00000000	A
1	0057C	00000000	A
1	0057D	00000000	A
1	0057E	00000000	A
1	0057F	00000000	A
1	00580	00000000	A
1	00581	00000000	A
1	00582	00000000	A
1	00583	00000000	A
1	00584	00000000	A
1	00585	00000000	A
1	00586	00000000	A
1	00587	00000000	A
1	00588	00000000	A
1	00589	00000000	A
1	0058A	00000000	A
1	0058B	00000000	A
1	0058C	00000000	A
1	0058D	00000000	A

SUFFIX(a)

1103	1	0058E	00000000	A			
	1	0058F	00000000	A	VHT	FILL	\$+5%
	1	00590	00000000	A			
	1	00591	00000000	A			
	1	00592	00000000	A			
	1	00593	00000000	A			
	1	00594	00000000	A			
	1	00595	00000000	A			
	1	00596	00000000	A			
	1	00597	00000000	A			
	1	00598	00000000	A			
	1	00599	00000000	A			
	1	005A0	00000000	A			
	1	005A1	00000000	A			
	1	005A2	00000000	A			
	1	005A3	00000000	A			
	1	005A4	00000000	A			
	1	005A5	00000000	A			
	1	005A6	00000000	A			
	1	005A7	00000000	A			
	1	005A8	00000000	A			
	1	005A9	00000000	A			
	1	005AA	00000000	A			
	1	005AB	00000000	A			
	1	005AC	00000000	A			
	1	005AD	00000000	A			
	1	005AE	00000000	A			
	1	005AF	00000000	A			
	1	005B0	00000000	A			
	1	005B1	00000000	A			
	1	005B2	00000000	A			
	1	005B3	00000000	A			

SUFFIX(2)

52-

1	005B4	00000000	A				
1	005B5	00000000	A				
1	005B6	00000000	A				
1	005B7	00000000	A				
1	005B8	00000000	A				
1	005B9	00000000	A				
1	005BA	00000000	A				
1	005BB	00000000	A				
1	005BC	00000000	A				
1	005BD	00000000	A				
1	005BE	00000000	A				
1	005BF	00000000	A				
1	005C0	00000000	A				
1	005C1	00000000	A				
1	005C2	00000000	A				
1	005C3	00000000	A				
1	005C4	00000000	A				
1	005C5	00000000	A				
1	005C6	00000000	A				
1	005C7	00000000	A				
1	005C8	00000000	A				
1	005C9	00000000	A				
1	005CA	00000000	A				
1	005CB	00000000	A				
1	005CC	00000000	A				
1	005CD	00000000	A				
1	005CE	00000000	A				
1	005CF	00000000	A				
1110	1	005D0	00000000	A	VITR	FILL	\$467
	1	005D1	00000000	A			
	1	005D2	00000000	A			
	1	005D3	00000000	A			
	1	005D4	00000000	A			
	1	005D5	00000000	A			
	1	005D6	00000000	A			
	1	005D7	00000000	A			
	1	005D8	00000000	A			
	1	005D9	00000000	A			

SUFFIX(2)

1	005DA	00000000 A
1	005DB	00000000 A
1	005DC	00000000 A
1	005DD	00000000 A
1	005DE	00000000 A
1	005DF	00000000 A
1	005E0	00000000 A
1	005E1	00000000 A
1	005E2	00000000 A
1	005E3	00000000 A
1	005E4	00000000 A
1	005E5	00000000 A
1	005E6	00000000 A
1	005E7	00000000 A
1	005E8	00000000 A
1	005E9	00000000 A
1	005EA	00000000 A
1	005EB	00000000 A
1	005EC	00000000 A
1	005ED	00000000 A
1	005EE	00000000 A
1	005EF	00000000 A
1	005F0	00000000 A
1	005F1	00000000 A
1	005F2	00000000 A
1	005F3	00000000 A
1	005F4	00000000 A
1	005F5	00000000 A
1	005F6	00000000 A
1	005F7	00000000 A
1	005F8	00000000 A
1	005F9	00000000 A
1	005FA	00000000 A
1	005FB	00000000 A
1	005FC	00000000 A
1	005FD	00000000 A
1	005FE	00000000 A
1	005FF	00000000 A

SUFFIX(2)

1 00600	00000000	A
1 00601	00000000	A
1 00602	00000000	A
1 00603	00000000	A
1 00604	00000000	A
1 00605	00000000	A
1 00606	00000000	A
1 00607	00000000	A
1 00608	00000000	A
1 00609	00000000	A
1 0060A	00000000	A
1 0060B	00000000	A
1 0060C	00000000	A
1 0060D	00000000	A
1 0060E	00000000	A
1 0060F	00000000	A

SUFFIX(2)					
			PAGE		
1111					
1112			*		
1113	1 00610	FFFFFEFO A	LIST	DATA -16	LM COUNT
1114	1 00611	2A00040C		LM,0 RT3	INSTRUCTION
1115	1 00612	07300244		K 0,7,3,SETPSW	PSW1 IN
1116	1 00613	07300276		K 0,7,3,L6C+2	PSW1 OUT
1117	1 00614	FEDCBA98 A		DATA X!FEDCBA98!	R12 IN
1118	1 00615	00000000 A		DATA 0	R12 OUT
1119	1 00616	FFFF FFFF A		DATA -1	M1 IN
1120	1 00617	FFFFFFF A		DATA -1	M1 OUT
1121	1 00618	01234567 A		DATA X!1234567!	R13 IN
1122	1 00619	FFFFFFF A		DATA -1	R13 OUT
1123	1 0061A	00000000 A		DATA 0	M2 IN
1124	1 0061B	00000000 A		DATA 0	M2 OUT
1125	1 0061C	3272045C		LW,7 MT1+64,1	FMT
1126	1 0061D	32D2049C		LW,13 MT2+64,1	VMT/VMTR
1127	1 0061E	32D2040B		LW,13 RT3~1,1	VRTRCH
1128	1 0061F	00000010 A		DATA 16	RC
1129			*		LM INDEXING
1130	1 00620	FFFFFEFO A		DATA -16	COUNT
1131	1 00621	2A02040D		LM,0 RT3+1,1	INSTRUCTION
1132	1 00622	F0300244		K 15,0,3,SETPSW	PSW1 IN
1133	1 00623	F0300276		K 15,0,3,L6C+2	PSW1 OUT
1134	1 00624	FFFFFFF A		DATA -1	R12 IN-INDEX
1135	1 00625	00000000 A		PZE	R12 OUT
1136	1 00626	00000000 A		PZE	M1 IN
1137	1 00627	00000000 A		PZE	M1 OUT
1138	1 00628	FEDCBA98 A		DATA X!FEDCBA98!	R13 IN
1139	1 00629	FFFFFFF A		DATA -1	R13 OUT
1140	1 0062A	FFFFFFF A		DATA -1	M2 IN
1141	1 0062B	FFFFFFF A		DATA -1	M2 OUT
1142	1 0062C	3272045C		LW,7 MT1+64,1	FMT
1143	1 0062D	32D2049C		LW,13 MT2+64,1	VMT/VMTR
1144	1 0062E	32D2040B		LW,13 RT3~1,1	VRTRCH
1145	1 0062F	0000000F A		DATA 15	RC
1146			*		LM INDIRECT ADDRESSING
1147	1 00630	FFFFFEFO A		DATA -16	COUNT

			SUFFIX(2)		INSTRUCTION
1148	1 00631	AA0002EB	LM,0	*WKIA	
1149	1 00632	17000244	K	1,7,0,SETPSW	PSW1 IN
1150	1 00633	17000276	K	1,7,0,LOC+2	PSW1 OUT
1151	1 00634	FFFFFFF A	DATA	-1	R12 IN
1152	1 00635	FFFFFFF A	DATA	-1	R12 OUT
1153	1 00636	FFFFFFF A	DATA	-1	M1 IN
1154	1 00637	FFFFFFF A	DATA	-1	M1 OUT
1155	1 00638	0000040C	PZE,0	RT3	R13 IN-INDIRECT ADDRESS
1156	1 00639	0000040C	PZE,0	RT3	R13 OUT
1157	1 0063A	00000000 A	PZE		M2 IN
1158	1 0063B	00000000 A	PZE		M2 OUT
1159	1 0063C	3272045C	LW,7	M1+64,1	FMT
1160	1 0063D	32D2049C	LW,13	M12+64,1	VMT/VNTR
1161	1 0063E	32D2040B	LW,13	RT3+12,1	VRTRCH
1162	1 0063F	00000001 A	DATA	1	RC
1163					LM--INDIRECT ADDRESSING-INDEXING
1164	1 00640	FFFFFFF0 A	DATA	-16	COUNT
1165	1 00641	AA0202EB	LM,0	*WKIA,1	INSTRUCTION
1166	1 00642	E0000244	K	14,0,0,SETPSW	PSW1 IN
1167	1 00643	E0000276	K	14,0,0,LOC+2	PSW1 OUT
1168	1 00644	FFFFFFF A	DATA	-1	R12 IN-INDEX
1169	1 00645	00000000 A	PZE		R12 OUT
1170	1 00646	00000000 A	PZE		M1 2N
1171	1 00647	00000000 A	PZE		M1 OUT
1172	1 00648	0000040D	PZE,0	RT3+1	R13 IN-INDIRECT ADDRESS
1173	1 00649	FFFFFFF A	DATA	-1	R13 OUT
1174	1 0064A	FFFFFFF A	DATA	-1	M2 IN
1175	1 0064B	FFFF FFFF A	DATA	-1	M2 OUT
1176	1 0064C	3272045C	LW,7	M1+64,1	FMT
1177	1 0064D	32D2049C	LW,13	M12+64,1	VMT/VNTR
1178	1 0064E	32D2040B	LW,13	RT3+12,1	VRTRCH
1179	1 0064F	0000000E A	DATA	15	RC
1180					STM
1181	1 00650	FFFFFFF0 A	DATA	-16	COUNT
1182	1 00651	2B30052E	STM,0	VRT	INSTRUCTION
1183	1 00652	07300244	K	0,7,3,SETPSW	PSW1 IN
1184	1 00653	07300276	K	0,7,3,LOC+2	PSW1 OUT
1185	1 00654	FEDCBA98 A.	DATA	X1FEDCBA98	R12 IN

				SUFFIX(2)	
1186	1	00655	FEDCBA98 A	DATA	X'FEDCBA98'
1187	1	00656	01234567 A	DATA	X'1234567'
1188	1	00657	01234567 A	DATA	X'1234567'
1189	1	00658	FEDCBA98 A	DATA	X'FEDCBA98'
1190	1	00659	FEDCBA98 A	DATA	X'FEDCBA98'
1191	1	0065A	01234567 A	DATA	X'1234567'
1192	1	0065B	01234567 A	DATA	X'1234567'
1193	1	0065C	32D2049C	LW,7	MT1+64,1
1194	1	0065D	32D2049C	LW,13	MT2+64,1
1195	1	0065E	32D203EB	LW,13	RT1+1,1
1196	1	0065F	00000010 A	DATA	16
1197			"		
1198	1	00660	FFFFFFF0 A	DATA	-16
1199	1	00661	2BE3FA96	STM,17	VRT-X'CBAA98',1
1200	1	00662	20300245	K	2,0,3,SETPSW
1201	1	00663	20300276	K	2,0,3,L00+2
1202	1	00664	FEDCBA98 A	DATA	X'FEDCBA98'
1203	1	00665	FEDCBA98 A	DATA	X'FEDCBA98'
1204	1	00666	01234567 A	DATA	X'1234567'
1205	1	00667	01234567 A	DATA	X'1234567'
1206	1	00668	01234567 A	DATA	X'1234567'
1207	1	00669	01234567 A	DATA	X'1234567'
1208	1	0066A	FEDCBA98 A	DATA	X'FEDCBA98'
1209	1	0066B	FEDCBA98 A	DATA	X'FEDCBA98'
1210	1	0066C	32720491	LW,7	MT1+64,1
1211	1	0066D	32D20491	LW,13	MT2+64,1
1212	1	0066E	32D203E1	LW,13	RT1+1,1
1213	1	0066F	00000001 A	DATA	1
1214			"		
1215	1	00670	FFFFFF0 A	DATA	-16
1216	1	00671	A8000003	STM,0	*WK1A
1217	1	00672	E7000247	K	14,7,0,SETPSW
1218	1	00673	E7000270	K	14,7,0,L00+2
1219	1	00674	01234567 A	DATA	X'1234567'
1220	1	00675	01234567 A	DATA	X'1234567'
1221	1	00676	FEDCBA98 A	DATA	X'FEDCBA98'
1222	1	00677	FEDCBA98 A	DATA	X'FEDCBA98'
1223	1	00678	00000001 A	PZL,0	Vxx

STM~INDEXING
COUNT
INSTRUCTION
PSW1 IN
PSW1 OUT
R12,IN,INDEX
R12 OUT
M1 IN
M1 OUT
R13 IN
R13 OUT
M2 IN
M2 OUT
FMT
VMT/VHTR
VRTRCH
RC
STM~INDEXING AND ADDRESSING
COUNT
INSTRUCTION
PSW1 IN
PSW1 OUT
R12 IN
R12 OUT
M1 IN
M1 OUT
R13 IN,IN,INDEX AND ADDRESS

SUFFIX(2)					
1224	1 00679	0000052E	PZE,0	VRT	R13 OUT
1225	1 0067A	01234567 A	DATA	X'1234567'	M2 IN
1226	1 0067B	01234567 A	DATA	X'1234567'	M2 OUT
1227	1 0067C	3272045C	LW,7	MT1+64,1	FMT
1228	1 0067D	32D2049C	LW,13	MT2+64,1	VMT/VMTR
1229	1 0067E	32D203EB	LW,13	RT1-1,1	VRTRCH
1230	1 0067F	0000000E A	DATA	14	RC
1231		*			STM-INDIRECT ADDRESSING-INDEXING
1232	1 00680	FFFFFFFFFF A	DATA	-16	COUNT
1233	1 00681	AB0202EB	STM,0	*WKIA,1	INSTRUCTION
1234	1 00682	00000244	K	0,0,0,SETPSW	PSW1 IN
1235	1 00683	00000276	K	0,0,0,LLOC+2	PSW1 OUT
1236	1 00684	000CBA98 A	DATA	X'CBA98'	R12 IN-INDEX
1237	1 00685	000CBA98 A	DATA	X'CBA98'	R12 OUT
1238	1 00686	00000000 A	PZE		M1 IN
1239	1 00687	00000000 A	PZE		M1 OUT
1240	1 00688	00014A96	PZE,0	VRT-X'CBA98'	R13 IN
1241	1 00689	00014A96	PZE,0	VRT-X'CBA98'	R13 OUT
1242	1 0068A	01234567 A	DATA	X'1234567'	M2 IN
1243	1 0068B	01234567 A	DATA	X'1234567'	M2 OUT
1244	1 0068C	3272045C	LW,7	MT1+64,1	FMT
1245	1 0068D	32D2049C	LW,13	MT2+64,1	VMT/VMTR
1246	1 0068E	32D203EB	LW,13	RT1-1,1	VRTRCH
1247	1 0068F	00000010 A	DATA	16	RC
1248		*			PLW
1249	1 00690	FFFFFFFFFF A	DATA	-16	COUNT
1250	1 00691	08C003D4	PLW,12	MEMORY	INSTRUCTION
1251	1 00692	F7300273	K	15,7,3,SETPSW	PSW1 IN
1252	1 00693	17300276	K	1,7,3,LLOC+2	PSW1 OUT
1253	1 00694	FFFFFFFFFF A	DATA	-1	R12 IN
1254	1 00695	00000000 A	DATA	0	R12 OUT
1255	1 00696	0000040C	PZE,0	RT3	M1 IN
1256	1 00697	00000403	PZE,0	RT3-1	M1 OUT
1257	1 00698	FFFFFFFFFF A	DATA	-1	R13 IN
1258	1 00699	FFFFFFFFFF A	DATA	-1	R13 OUT
1259	1 0069A	00000001 A	DATA	X'1'	M2 IN
1260	1 0069B	00010000 A	DATA	X'10000'	M2 OUT
1261	1 0069C	3272045C	LW,7	MT1+64,1	FMT

SUFFIX(2)			
1262	1 0069D	32D2049C	LW,13 MT2+64,1
1263	1 0069E	32D203BD	LW,13 TABLE+5,1
1264	1 0069F	00000001 A	DATA 1
1265		*	PLW-0DD REGISTER-INDEXING
1266	1 006A0	FFFFFFFFFF A	DATA -16
1267	1 006A1	08D203D2	PLW,13 MEMORY-2,1
1268	1 006A2	F0300244	K 15,0,3,SETPSW
1269	1 006A3	00300276	K 0,0,3,LOC+2
1270	1 006A4	00000001 A	DATA 1
1271	1 006A5	00000001 A	DATA 1
1272	1 006A6	0000040C	PZE,0 RT3
1273	1 006A7	0000040B	PZE,0 RT3-1
1274	1 006A8	FFFFFFFFFF A	DATA -1
1275	1 006A9	00000000 A	DATA 0
1276	1 006AA	00000002 A	DATA X'2'
1277	1 006AB	00010001 A	DATA X'10001'
1278	1 006AC	3272045C	LW,7 MT1+64,1
1279	1 006AD	32D2049C	LW,13 MT2+64,1
1280	1 006AE	32D203BD	LW,13 TABLE+5,1
1281	1 006AF	00000001 A	DATA 1
1282		*	PLW-INDIRECT ADDRESSING-INDEXING
1283	1 006B0	FFFFFFFFFF A	DATA -16
1284	1 006B1	88C202EB	PLW,12 *WKIA,1
1285	1 006B2	07000251	K 0,7,0,SETPSW
1286	1 006B3	07000276	K 0,7,0,LOC+2
1287	1 006B4	00000014 A	DATA 20
1288	1 006B5	00000000 A	PZE
1289	1 006B6	0000040C	PZE,0 RT3
1290	1 006B7	0000040B	PZE,0 RT3-1
1291	1 006B8	000003AC	PZE,0 MEMORY-40
1292	1 006B9	000003AC	PZE,0 MEMORY-40
1293	1 006BA	0000FFFF A	DATA X'FFFF'
1294	1 006BB	0001FFFF A	DATA X'1FFFF'
1295	1 006BC	3272045C	LW,7 MT1+64,1
1296	1 006BD	32D2049C	LW,13 MT2+64,1
1297	1 006BE	32D203BD	LW,13 TABLE+5,1
1298	1 006BF	00000001 A	DATA 1
1299		*	PLW-INDIRECT ADDRESSING-

SUFFIX(2)			
1300	1 006C0	FFFFFFFFFF A	DATA -16
1301	1 006C1	88C002E	PLW,12 *WKIA
1302	1 006C2	00000244	K 0,0,0,SETPSW
1303	1 006C3	30000276	K 3,0,0,L0C+2
1304	1 006C4	FFFFFFFFFF A	DATA -1
1305	1 006C5	FFFFFFFFFF A	DATA -1
1306	1 006C6	0000040C	PZE,0 RT3
1307	1 006C7	0000040C	PZE,0 RT3
1308	1 006C8	000003D4	PZE,0 MEMORY
1309	1 006C9	000003D4	PZE,0 MEMORY
1310	1 006CA	00018000 A	DATA X'18000'
1311	1 006CB	00018000 A	DATA X'18000'
1312	1 006CC	3272045C	LW,7 MT1+64,1
1313	1 006CD	32D2049C	LW,13 MT2+64,1
1314	1 006CE	32D203BD	LW,13 TABLE+5,1
1315	1 006CF	00000001 A	DATA 1
1316		*	PLW
1317	1 006D0	FFFFFFFFFF A	DATA -16
1318	1 006D1	08C003D4	PLW,12 MEMORY
1319	1 006D2	F0000244	K 15,0,0,SETPSW
1320	1 006D3	80000276	K 8,0,0,L0C+2
1321	1 006D4	FFFFFFFFFF A	DATA -1
1322	1 006D5	FFFFFFFFFF A	DATA -1
1323	1 006D6	0000040C	PZE,0 RT3
1324	1 006D7	0000040C	PZE,0 RT3
1325	1 006D8	00000000 A	PZE
1326	1 006D9	00000000 A	PZE
1327	1 006DA	FFFFF0001 A	DATA X'FFFFF0001'
1328	1 006DB	FFFFF0001 A	DATA X'FFFFF0001'
1329	1 006DC	3272045C	LW,7 MT1+64,1
1330	1 006DD	32D2049C	LW,13 MT2+64,1
1331	1 006DE	32D203BD	LW,13 TABLE+5,1
1332	1 006DF	00000001 A	DATA 1
1333		*	PLW
1334	1 006E0	FFFFFFFFFF A	DATA -16
1335	1 006E1	08C003D4	PLW,12 MEMORY
1336	1 006E2	83100244	K 8,3,1,SETPSW
1337	1 006E3	73100276	K 7,3,1,L0C+2

SUFFIX(2)					
1338	1 006E4	FFFFFFFFFF A	DATA -1	R12 IN	
1339	1 006E5	FFFFFFFFFF A	DATA -1	R12 OUT	
1340	1 006E6	0000040C	PZE,0 RT3	M1 IN	
1341	1 006E7	0000040C	PZE,0 RT3	M1 OUT	
1342	1 006E8	00000000 A	PZE	R13 IN	
1343	1 006E9	00000000 A	PZE	R13 OUT	
1344	1 006EA	00008000 A	DATA X'8000'	M2 IN	
1345	1 006EB	00008000 A	DATA X'8000'	M2 OUT	
1346	1 006EC	3272045C	LW,7 MT1+64,1	FMT	
1347	1 006ED	32D2049C	LW,13 MT2+64,1	VMT/VMTA	
1348	1 006EE	32D203BD	LW,13 TABLE+5,1	VRTRCH	
1349	1 006EF	00000001 A	DATA 1	RC	
1350		*		PLW	
1351	1 006F0	FFFFFFFFFF A	DATA -16	COUNT	
1352	1 006F1	08C003D4	PLW,12 MEMORY	INSTRUCTION	
1353	1 006F2	42200244	K 4,2,2,SETPSW	PSW1 IN	
1354	1 006F3	B2200276	K 11,2,2,LDC+2	PSW1 OUT	
1355	1 006F4	FFFFFFFFFF A	DATA -1	R12 IN	
1356	1 006F5	FFFFFFFFFF A	DATA -1	R12 OUT	
1357	1 006F6	0000040C	PZE,0 RT3	M1 IN	
1358	1 006F7	0000040C	PZE,0 RT3	M1 OUT	
1359	1 006F8	00000000 A	PZE	R13 IN	
1360	1 006F9	00000000 A	PZE	R13 OUT	
1361	1 006FA	FFFF8000 A	DATA X'FFFF8000'	M2 IN	
1362	1 006FB	FFFF8000 A	DATA X'FFFF8000'	M2 OUT	
1363	1 006FC	3272045C	LW,7 MT1+64,1	FMT	
1364	1 006FD	32D2049C	LW,13 MT2+64,1	VMT/VMTA	
1365	1 006FE	32D203BD	LW,13 TABLE+5,1	VRTRCH	
1366	1 006FF	00000001 A	DATA 1	RC	
1367		*		PLW-TRAP	
1368	1 00700	FFFFFFFFFF A	DATA -16	COUNT	
1369	1 00701	08C003D4	PLW,12 MEMORY	INSTRUCTION	
1370	1 00702	C730018E	K 12,7,3,SLSH	PSW1 IN	
1371	1 00703	C730007D	K 12,7,3,SLNCFH	PSW1 OUT	
1372	1 00704	FFFFFFFFFF A	DATA -1	R12 IN	
1373	1 00705	FFFFFFFFFF A	DATA -1	R12 OUT	
1374	1 00706	0000040C	PZE,0 RT3	M1 IN	
1375	1 00707	0000040C	PZE,0 RT3	M1 OUT	

				SUFFIX(2)	
1376	1	00708	00000000 A	PZE	R13 IN
1377	1	00709	00000000 A	PZE	R13 OUT
1378	1	0070A	00C10000 A	DATA X'10000'	M2 IN
1379	1	0070B	00C10000 A	DATA X'10000'	M2 OUT
1380	1	0070C	3272045C	LW,7 MT1+64,1	FMT
1381	1	0070D	32D2049C	LW,13 MT2+64,1	VMT/VMTR
1382	1	0070E	32D203BD	LW,13 TABLE+5,1	VRTRCH
1383	1	0070F	00000001 A	DATA 1	RC
1384	*				PLW-TRAP
1385	1	00710	FFFFFFFFFF A	DATA -16	COUNT
1386	1	00711	08C003D4	PLW,12 MEMORY	INSTRUCTION
1387	1	00712	8730018E	K 8,7,3,SLSW	PSW1 IN
1388	1	00713	8730007D	K 8,7,3,SLRETF1	PSW1 OUT
1389	1	00714	FFFFFFFFFF A	DATA -1	R12 IN
1390	1	00715	FFFFFFFFFF A	DATA -1	R12 OUT
1391	1	00716	00000040C	PZE,0 RT3	M1 IN
1392	1	00717	00000040C	PZE,0 RT3	M1 OUT
1393	1	00718	00000000 A	PZE	R13 IN
1394	1	00719	00000000 A	PZE	R13 OUT
1395	1	0071A	00000000 A	PZE	M2 IN
1396	1	0071B	00000000 A	PZE	M2 OUT
1397	1	0071C	3272045C	LW,7 MT1+64,1	FMT
1398	1	0071D	32D2049C	LW,13 MT2+64,1	VMT/VMTR
1399	1	0071E	32D203BD	LW,13 TABLE+5,1	VRTRCH
1400	1	0071F	00000001 A	DATA 1	RC
1401	*				PLW-INDEX TRAP
1402	1	00720	FFFFFFFFFF A	DATA -16	COUNT
1403	1	00721	08C203D0	PLW,12 MEMORY-4,1	INSTRUCTION
1404	1	00722	7730018E	K 7,7,3,SLSW	PSW1 IN
1405	1	00723	7730007D	K 7,7,3,SLRETF1	PSW1 OUT
1406	1	00724	00000002 A	DATA 2	R12 IN-INDEX
1407	1	00725	00000002 A	DATA 2	R12 OUT
1408	1	00726	00000040C	PZE,0 RT3	M1 IN
1409	1	00727	00000040C	PZE,0 RT3	M1 OUT
1410	1	00728	00000000 A	PZE	R13 IN
1411	1	00729	00000000 A	PZE	R13 OUT
1412	1	0072A	7FFF0007 A	DATA X'17FF100071	M2 IN
1413	1	0072B	7FFF0007 A	DATA X'17FFF00071	M2 OUT

			SUFFIX(2)		
1414	1	0072C	3272045C	LW,7	MT1+64,1
1415	1	0072D	32D2049C	LW,13	MT2+64,1
1416	1	0072E	32D203BD	LW,13	TABLE+5,1
1417	1	0072F	00000001 A	DATA	1
1418					
1419	1	00730	FFFFFFFFFF A	DATA	-16
1420	1	00731	88C002EB	PLW,12	*WKIA
1421	1	00732	4730018E	K	4,7,3,SLGP
1422	1	00733	4730007D	K	4,7,3,SLRET+1
1423	1	00734	FFFFFFF F A	DATA	-1
1424	1	00735	FFFFFFF F A	DATA	-1
1425	1	00736	0000040C	PZE,0	RT3
1426	1	00737	0000040C	PZE,0	RT3
1427	1	00738	000003D4	PZE,0	MEMORY
1428	1	00739	000003D4	PZE,0	MEMORY
1429	1	0073A	7FFF0000 A	DATA	X17FFF00001
1430	1	0073B	7FFF0000 A	DATA	X17FFF00001
1431	1	0073C	3272045C	LW,7	MT1+64,1
1432	1	0073D	32D2049C	LW,13	MT2+64,1
1433	1	0073E	32D203BD	LW,13	TABLE+5,1
1434	1	0073F	00000001 A	DATA	1
1435					
1436	1	00740	FFFFFFFFFF A	DATA	-16
1437	1	00741	09C003D4	PSH,12	MEMORY
1438	1	00742	07300244	K	0,7,3,SETC3W
1439	1	00743	47300276	K	4,7,3,SLGP4B
1440	1	00744	01234567 A	DATA	X112345671
1441	1	00745	01234567 A	DATA	X112345671
1442	1	00746	00000520	PZE,0	VRT+1
1443	1	00747	0000052E	PZE,0	VRT
1444	1	00748	00000000 A	DATA	0
1445	1	00749	00000000 A	DATA	0
1446	1	0074A	00010000 A	DATA	X1000001
1447	1	0074B	00000001 A	DATA	1
1448	1	0074C	3272045C	LW,7	MT1+64,1
1449	1	0074D	32D2049C	LW,13	MT2+64,1
1450	1	0074E	32D203BD	LW,13	RT1+1,1
1451	1	0074F	000000010 A	DATA	16

SUFFIX(2)					
1452	*				
1453	1 00750	FFFFFFF0 A	DATA	-16	PSW~8DD REGISTER INDEXING
1454	1 00751	09D203D0	PSW,13	MEMORY-4,1	COUNT
1455	1 00752	F0300244	K	15,0,3,SETPSW	INSTRUCTION
1456	1 00753	00300276	K	0,0,3,L0C+2	PSW1 IN
1457	1 00754	00000002 A	DATA	2	PSW1 OUT
	1 00755	00000002 A	DATA	2	R12 IN-INDEX
1458	1 00756	0000052D	PZE,0	VRT-1	R12 OUT
1460	1 00757	0000052E	PZE,0	VRT	M1 IN
1461	1 00758	01234567 A	DATA	X'1234567'	M1 OUT
1462	1 00759	01234567 A	DATA	X'1234567'	R13 IN
1463	1 0075A	FFFF0000 A	DATA	X'FFFF0000'	R13 OUT
1464	1 0075B	FFFFE0001 A	DATA	X'FFFFE0001'	M2 IN
1465	1 0075C	32D2045C	LW,7	MT1+64,1	M2 OUT
1466	1 0075D	32D2049C	LW,13	MT2+64,1	FMT
1467	1 0075E	32D203EB	LW,13	RT1+1,1	VMTR/VMTR
1468	1 0075F	00000010 A	DATA	16	VRTRCH
1469	*				RC
1470	1 00760	FFFFFFF0 A	DATA	-16	PSW-INDIRECT ADDRESSING
1471	1 00761	89C002EB	PSW,12	*WKIA	COUNT
1472	1 00762	B7000244	K	11,7,0,SETPSW	INSTRUCTION
1473	1 00763	07000276	K	0,7,0,L0C+2	PSW1 IN
1474	1 00764	01234567 A	DATA	X'1234567'	PSW1 OUT
1475	1 00765	01234567 A	DATA	X'1234567'	R12 IN
1476	1 00766	0000052D	PZE,0	VRT-1	R12 OUT
1477	1 00767	0000052E	PZE,0	VRT	M1 IN
1478	1 00768	000003D4	PZE,0	MEMORY	M1 OUT
1479	1 00769	000003D4	PZE,0	MEMORY	R13 IN-INDIRECT ADDRESS
1480	1 0076A	FFFF0000 A	DATA	X'FFFF0000'	R13 OUT
1481	1 0076B	FFFFE0001 A	DATA	X'FFFFE0001'	M2 IN
1482	1 0076C	3272045C	LW,7	MT1+64,1	M2 OUT
1483	1 0076D	32D2049C	LW,13	MT2+64,1	FMT
1484	1 0076E	32D203EB	LW,13	RT1+1,1	VMTR/VMTR
1485	1 0076F	00000010 A	DATA	16	VRTRCH
1486	*				RC
1487	1 00770	FFFFFFF0 A	DATA	-16	PSW-INDIRECT ADDRESSING- INDEXING
1488	1 00771	89C202EB	PSW,12	*WKIA,1	COUNT
1489	1 00772	D0000244	K	13,0,0,SETPSW	INSTRUCTION
					ABORT
					PSW1 IN

				SUFFIX(2)	
1490	1 00773	20000276	K	2,0,0,L0C+2	PSW1 OUT
1491	1 00774	FFFFFFFFFF A	DATA	-16	R12 IN-INDEX
1492	1 00775	FFFFFFFFFF A	DATA	-16	R12 OUT
1493	1 00776	0000052D	PZE,0	VRT-1	M1 IN
1494	1 00777	0000052D	PZE,0	VRT-1	M1 OUT
1495	1 00778	000003F4	PZE,0	MEMORY+32	R13 IN-INDIRECT ADDRESS
1496	1 00779	000003F4	PZE,0	MEMORY+32	R13 OUT
1497	1 0077A	FFFFFFFFFF A	DATA	-1	M2 IN
1498	1 0077B	FFFFFFFFFF A	DATA	-1	M2 OUT
1499	1 0077C	3272045C	LW,7	MT1+64,1	FMT
1500	1 0077D	32D2049C	LW,13	MT2+64,1	VMT/VMTR
1501	1 0077E	32D203FA	LW,13	RT2-2,1	VRTRCH
1502	1 0077F	00000010 A	DATA	16	RC
1503		*			PSW-ABORT
1504	1 00780	FFFFFFFFFF A	DATA	-16	COUNT
1505	1 00781	09C003D4	PSW,12	MEMORY	INSTRUCTION
1506	1 00782	30000244	K	3,0,0,SETPSW	PSW1 IN
1507	1 00783	C0000276	K	12,0,0,L0C+2	PSW1 OUT
1508	1 00784	00000000 A	PZE		R12 IN
1509	1 00785	00000000 A	PZE		R12 OUT
1510	1 00786	0000052D	PZE,0	VRT-1	M1 IN
1511	1 00787	0000052D	PZE,0	VRT-1	M1 OUT
1512	1 00788	FFFFFFFFFF A	DATA	-1	R13 IN
1513	1 00789	FFFFFFFFFF A	DATA	-1	R13 OUT
1514	1 0078A	80000002 A	DATA	X'80000002'	M2 IN
1515	1 0078B	80000002 A	DATA	X'80000002'	M2 OUT
1516	1 0078C	3272045C	LW,7	MT1+64,1	FMT
1517	1 0078D	32D2049C	LW,13	MT2+64,1	VMT/VMTR
1518	1 0078E	32D203FA	LW,13	RT2-2,1	VRTRCH
1519	1 0078F	00000010 A	DATA	16	RC
1520		*			PSW-ABORT
1521	1 00790	FFFFFFFFFF A	DATA	-16	COUNT
1522	1 00791	09C003D4	PSW,12	MEMORY	INSTRUCTION
1523	1 00792	20000244	K	2,0,0,SETPSW	PSW1 IN
1524	1 00793	D0000276	K	13,0,0,L0C+2	PSW1 OUT
1525	1 00794	FFFFFFFFFF A	DATA	-1	R12 IN
1526	1 00795	FFFFFFFFFF A	DATA	-1	R12 OUT
1527	1 00796	0000052D	PZE,0	VRT-1	M1 IN

SUFFIX(2)						
1528	1	00797	0000052D	PZE,0	VRT-1	M1 OUT
1529	1	00798	00000000 A	PZE		R13 IN
1530	1	00799	00000000 A	PZE		R13 OUT
1531	1	0079A	80000000 A	DATA	X'80000000'	M2 IN
1532	1	0079B	80000000 A	DATA	X'80000000'	M2 OUT
1533	1	0079C	32D2045C	LW,7	MT1+64,1	FMT
1534	1	0079D	32D2049C	LW,13	MT2+64,1	VMT/VMTR
1535	1	0079E	32D203FA	LW,13	RT2-2,1	VRTRCH
1536	1	0079F	00000010 A	DATA	16	RC
1537			*			PSW-ABORT
1538	1	007A0	FFFFFFFO A	DATA	-16	COUNT
1539	1	007A1	09C003D4	PSW,12	MEMORY	INSTRUCTION
1540	1	007A2	10000244	K	1,0,0,SETPSW	PSW1 IN
1541	1	007A3	E0000276 "	K	14,0,0,L9C+2	PSW1 OUT
1542	1	007A4	00000000 A	PZE	0	R12 IN
1543	1	007A5	00000000 A	PZE	0	R12 OUT
1544	1	007A6	0000052D	PZE,0	VRT-1	M1 IN
1545	1	007A7	0000052D	PZE,0	VRT-1	M1 OUT
1546	1	007A8	FFFFFFFF A	DATA	-1	R13 IN
1547	1	007A9	FFFFFFFF A	DATA	-1	R13 OUT
1548	1	007AA	8000FFFF A	DATA	X'8000FFFF'	M2 IN
1549	1	007AB	8000FFFF A	DATA	X'8000FFFF'	M2 OUT
1550	1	007AC	3272045C	LW,7	MT1+64,1	FMT
1551	1	007AD	32D2049C	LW,13	MT2+64,1	VMT/VMTR
1552	1	007AE	32D203FA	LW,13	RT2-2,1	VRTRCH
1553	1	007AF	00000010 A	DATA	16	RC
1554			*			PSW-TRAP
1555	1	007B0	FFFFFFFO A	DATA	-16	COUNT
1556	1	007B1	09C003D4	PSW,12	MEMORY	INSTRUCTION
1557	1	007B2	D730018E	K	13,7,3,SLSW	PSW1 IN
1558	1	007B3	D730007D	K	13,7,3,SURET+1	PSW1 OUT
1559	1	007B4	FFFFFFFF A	DATA	-1	R12 IN
1560	1	007B5	FFFFFFFF A	DATA	-1	R12 OUT
1561	1	007B6	0000052D	PZE,0	VRT-1	M1 IN
1562	1	007B7	0000052D	PZE,0	VRT-1	M1 OUT
1563	1	007B8	00000000 A	PZE		R13 IN
1564	1	007B9	00000000 A	PZE		R13 OUT
1565	1	007BA	00027FFF A	DATA	X'27FFF'	M2 IN

SUFFIX(2)					
1566	1	007B3	00027FFF A	DATA	X'27FFF'
1567	1	007BC	3272045C	LW,7	MT1+64,1
1568	1	007BD	32D2049C	LW,13	MT2+64,1
1569	1	007BE	32D203FA	LW,13	RT2+2,1
1570	1	007BF	00000010 A	DATA	16
1571			*		PSW-TRAP
1572	1	007C0	FFFFFFF0 A	DATA	-16
1573	1	007C1	09C003D4	PSW,12	MEMORY
1574	1	007C2	3730018E	K	3,7,3,SLSW
1575	1	007C3	3730007D	K	3,7,3,SLRET+1
1576	1	007C4	FEDCBA98 A	DATA	X'FEDCBA98'
1577	1	007C5	FEDCBA98 A	DATA	X'FEDCBA98'
1578	1	007C6	0000052D	PZE,0	VRT-1
1579	1	007C7	0000052D	PZE,0	VRT-1
1580	1	007C8	01234567 A	DATA	X'1234567'
1581	1	007C9	01234567 A	DATA	X'1234567'
1582	1	007CA	00000003 A	DATA	3
1583	1	007CB	00000003 A	DATA	3
1584	1	007CC	3272045C	LW,7	MT1+64,1
1585	1	007CD	32D2049C	LW,13	MT2+64,1
1586	1	007CE	32D203FA	LW,13	RT2+2,1
1587	1	007CF	00000010 A	DATA	16
1588			*		PSW-INDEX-TRAP
1589	1	007D0	FFFFFFF0 A	DATA	-16
1590	1	007D1	09C203FC	PSW,12	MEMORY+40,1
1591	1	007D2	2730018E	K	2,7,3,SLSW
1592	1	007D3	2730007D	K	2,7,3,SLRET+1
1593	1	007D4	FFFFF1EC A	DATA	-20
1594	1	007D5	FFFFF1EC A	DATA	-20
1595	1	007D6	0000052D	PZE,0	VRT-1
1596	1	007D7	0000052D	PZE,0	VRT-1
1597	1	007D8	FFFFFFF0 A	DATA	-1
1598	1	007D9	FFFFFFF0 A	DATA	-1
1599	1	007DA	00000000 A	PZE	
1600	1	007DB	00000000 A	PZE	
1601	1	007DC	3272045C	LW,7	MT1+64,1
1602	1	007DD	32D2049C	LW,13	MT2+64,1
1603	1	007DE	32D203FA	LW,13	RT2+2,1

				SUFFIX(2)		
1604	1	007DF	00000010 A	DATA	16	RC
1605	*					PSW-INDIRECT ADDRESS-TRAP
1606	1	007E0	FFFFFFFFFF A	DATA	16	COUNT
1607	1	007E1	89C002EB	PSW,12	*WKIA	INSTRUCTION
1608	1	007E2	1730018E	K	1,7,3,SLSW	PSW1 IN
1609	1	007E3	1730007D	K	1,7,3,SLRET+1	PSW1 OUT
1610	1	007E4	00000000 A	PZE		R12 IN
1611	1	007E5	00000000 A	PZE		R12 OUT
1612	1	007E6	0000052D	PZE,0	VRT-1	M1 IN
1613	1	007E7	0000052D	PZE,0	VRT-1	M1 OUT
1614	1	007E8	000003D4	PZE,0	MEMORY	R13 IN
1615	1	007E9	000003D4	PZE,0	MEMORY	R13 OUT
1616	1	007EA	00007FFF A	DATA	X17FFF!	M2 IN
1617	1	007EB	00007FFF A	DATA	X17FFF!	M2 OUT
1618	1	007EC	32D2045C	LW,7	MT1+64,1	FMT
1619	1	007ED	32D2049C	LW,13	MT2+64,1	VMT/VMTR
1620	1	007EE	32D203FA	LW,13	RT2-2,1	VRTRCH
1621	1	007EF	00000010 A	DATA	16	RC
1622	*					PLM
1623	1	007F0	FFFFFFFFFF A	DATA	16	COUNT
1624	1	007F1	0A0003D4	PLM,0	MEMORY	INSTRUCTION
1625	1	007F2	073C0254	K	0,7,3,SETPSW	PSW1 IN
1626	1	007F3	17300276	K	1,7,3,L000E	PSW1 OUT
1627	1	007F4	FFFFFFFFFF A	DATA	1	R12 IN
1628	1	007F5	00000000 A	DATA	0	R12 OUT
1629	1	007F6	0000041B	PZE,C	RT3+15	M1 IN
1630	1	007F7	0000040B	PZE,0	RT3-1	M1 OUT
1631	1	007F8	00000000 A	DATA	0	R13 IN
1632	1	007F9	FFFFFFFFFF A	DATA	1	R13 OUT
1633	1	007FA	00000010 A	DATA	16	M2 IN
1634	1	007FB	00100000 A	DATA	X1000000	M2 OUT
1635	1	007FC	32D2045C	LW,7	MT1+64,1	FMT
1636	1	007FD	32D2049C	LW,13	MT2+64,1	VMT/VMTR
1637	1	007FE	32D2040B	LW,13	RT3-1,1	VRTRCH
1638	1	007FF	00000010 A	DATA	16	RC
1639	*					PLM INDEXING
1640	1	00800	FFFFFFFFFF A	DATA	16	COUNT
1641	1	00801	0A0203D6	PLM,0	MEMORY+2,5	INSTRUCTION

			SUFFIX(2)		
1642	1	0080	10300244	K	1,0,3,SETPSW
1643	1	00803	00300276	K	0,0,3,L0C42
1644	1	0804	FFFFFFFFFF A	DATA	-1
1645	1	00805	FFFFFFFFFF A	DATA	-1
1646	1	00806	0000040C	PZE,0	RT3
1647	1	00807	0000040B	PZE,0	RT3-1
1648	1	00808	FFFFFFFFFF A	DATA	-1
1649	1	00809	FFFFFFFFFF A	DATA	-1
1650	1	0080A	0000000A A	DATA	10
1651	1	0080B	00010009 A	DATA	X'100001'
1652	1	0080C	3272045C	LW,7	MT1+64,1
1653	1	0080D	32D2045C	LW,13	MT2+64,1
1654	1	0080E	32D2040B	LW,13	RT3-1,1
1655	1	0080F	00000001 A	DATA	1
1656					PLM-INDIRECT ADDRESSING
1657	1	00810	FFFFFFFFFF A	DATA	-16
1658	1	00811	8A0002EB	PLM,0	*WKIA
1659	1	00812	17000244	K	1,7,0,SETPSW
1660	1	00813	07000276	K	0,7,0,L0C42
1661	1	00814	00000000 A	PZE	
1662	1	00815	00000000 A	PZE	
1663	1	00816	0000040C	PZE,0	RT3
1664	1	00817	0000040B	PZE,0	RT3-1
1665	1	00818	00000304	PZE,0	MEMORY
1666	1	00819	00000304	PZE,0	MEMORY
1667	1	0081A	00030002 A	DATA	X'30002'
1668	1	0081B	00010001 A	DATA	X'140001'
1669	1	0081C	3272045C	LW,7	MT1+64,1
1670	1	0081D	32D2045C	LW,13	MT2+64,1
1671	1	0081E	32D2040B	LW,13	RT3-1,1
1672	1	0081F	00000001 A	DATA	1
1673					PLM-INDIRECT ADDRESSING-INDEX
1674	1	00820	FFFFFFFFFF A	DATA	-16
1675	1	00821	8A0202EB	PLM,0	*WKIA,1
1676	1	00822	F0000244	K	15,0,0,SETPSW
1677	1	00823	00000276	K	0,0,0,L0C42
1678	1	00824	FFFFFFFFFF A	DATA	-1
1679	1	00825	00000000 A	PZE	

SUFFIX(2)			
1680	1 00826	0000041A	PZE,0 RT3+14
1681	1 00827	0000040B	PZE,0 RT3-1
1682	1 00828	000003D6	PZE,0 MEMORY+2
1683	1 00829	FFFFFFFFFF A	DATA -1
1684	1 0082A	00000010 A	DATA 16
1685	1 0082B	000F0001 A	DATA X'F0001'
1686	1 0082C	3272045C	LW,7 MT1+64,1
1687	1 0082D	32D2049C	LW,13 MT2+64,1
1688	1 0082E	32D2040B	LW,13 RT3-1,1
1689	1 0082F	0000000F A	DATA 15
1690			RC
1691	1 00830	FFFFFFFFFF A	DATA -16
1692	1 00831	8A0202EB	PLM,0 *WKIA,1
1693	1 00832	C0000244	K 12,0,0,SETPSW
1694	1 00833	10000276	K 1,0,0,L0C+2
1695	1 00834	FFFFFFFFFF A	DATA -1
1696	1 00835	FFFFFFFFFF A	DATA -1
1697	1 00836	00000417	PZE,0 RT3+11
1698	1 00837	0000040B	PZE,0 RT3-1
1699	1 00838	000003D6	PZE,0 MEMORY+2
1700	1 00839	000003D6	PZE,0 MEMORY+2
1701	1 0083A	0FFF0000CA	DATA X'FFF0000C'
1702	1 0083B	100B0000 A	DATA X'100B0000'
1703	1 0083C	3272045C	LW,7 MT1+64,1
1704	1 0083D	32D2049C	LW,13 MT2+64,1
1705	1 0083E	32D2040B	LW,13 RT3-1,1
1706	1 0083F	00000000 A	DATA 12
1707			PLM-ABORT
1708	1 00840	FFFFFFFFFF A	DATA -16
1709	1 00841	0AF003D4	PLM,13 MEMORY
1710	1 00842	D0000244	K 13,0,0,SETPSW
1711	1 00843	20000276	K 2,0,0,L0C+2
1712	1 00844	FFFFFFFFFF A	DATA -1
1713	1 00845	FFFFFFFFFF A	DATA -1
1714	1 00846	0000041A	PZE,0 RT3+14
1715	1 00847	0000041A	PZE,0 RT3+14
1716	1 00848	00000000 A	PZE
1717	1 00849	00000000 A	PZE

SUFFIX(2)			
1718	1 0084A	00028	A
1719	1 0084B	00028	A
1720	1 0084C	32720	
1721	1 0084D	32D20	
1722	1 0084E	32D20	
1723	1 0084F	00000000	A
1724		*	
1725	1 00850	FFFFFFF0	A
1726	1 00851	0AC00004	
1727	1 00852	C0000004	
1728	1 00853	300000276	
1729	1 00854	00000000	A
1730	1 00855	00000000	A
1731	1 00856	00000417	
1732	1 00857	00000417	
1733	1 00858	FFFFFFF0	A
1734	1 00859	FFFFFFF0	A
1735	1 0085A	00018000	A
1736	1 0085B	00018000	A
1737	1 0085C	3272045C	
1738	1 0085D	32D2045C	
1739	1 0085E	32D2040B	
1740	1 0085F	00000000	A
1741		*	
1742	1 00860	FFFFFFF0	A
1743	1 00861	8A0202E8	
1744	1 00862	90000264	
1745	1 00863	60000276	
1746	1 00864	FFFFFFF0	A
1747	1 00865	FFFFFFF0	A
1748	1 00866	00000414	
1749	1 00867	00000414	
1750	1 00868	00000306	
1751	1 00869	00000306	
1752	1 0086A	00008008	A
1753	1 0086B	00008008	A
1754	1 0086C	3272045C	
1755	1 0086D	32D2049C	

PLM-ABORT COUNT INSTRUCTIONS PSW1 IN PSW1 OUT R12 IN R12 OUT M1 IN M1 OUT R13 IN R13 OUT M2 IN M2 OUT FMT VRTRCH RC PLM-INDIRECT ADDRESSING+INDEXING COUNT INSTRUCTION ABORT PSW1 IN PSW1 OUT R12 IN+INDEX R12 OUT M1 IN M1 OUT R13 IN+INDIRECT ADDRESSING R13 OUT M2 IN M2 OUT FMT VMT/VMTR

		SUFFIX(2)			
1756	1 0086E	32D2040B	LW,13	RT3-1,1	VRTRCH
1757	1 0086F	00000000 A	DATA	0	RC
1758		*			PLM-ABORT
1759	1 00870	FFFFFFF0 A	DATA	-16	COUNT
1760	1 00871	0A0003D4	PLM,0	MEMORY	INSTRUCTION
1761	1 00872	80000244	K	8,0,0,SETPSW	PSW1 IN
1762	1 00873	70000276	K	7,0,0,L0C42	PSW1 OUT
1763	1 00874	00000000 A	PZE		R12 IN
1764	1 00875	00000000 A	PZE		R12 OUT
1765	1 00876	00000413	PZE,0	RT3+7	M1 IN
1766	1 00877	00000413	PZE,0	RT3+7	M1 OUT
1767	1 00878	FFFFFFF0 A	DATA	-1	R13 IN
1768	1 00879	FFFFFFF0 A	DATA	-1	R13 OUT
1769	1 0087A	00008000 A	DATA	X'8000'	M2 IN
1770	1 0087B	00008000 A	DATA	X'8000'	M2 OUT
1771	1 0087C	3272045C	LW,7	MT1+64,1	FMT
1772	1 0087D	32D2049C	LW,13	MT2+64,1	VMT/VMTR
1773	1 0087E	32D2040B	LW,13	RT3-1,1	VRTRCH
1774	1 0087F	00000000 A	DATA	0	RC
1775		*			PLM-ABORT
1776	1 00880	FFFFFFF0 A	DATA	-16	COUNT
1777	1 00881	0A0003D4	PLM,0	MEMORY	INSTRUCTION
1778	1 00882	70000244	K	7,0,0,SETPSW	PSW1 IN
1779	1 00883	80000276	K	8,0,0,L0C42	PSW1 OUT
1780	1 00884	FFFFFFF0 A	DATA	-1	R12 IN
1781	1 00885	FFFFFFF0 A	DATA	-1	R12 OUT
1782	1 00886	00000412	PZE,0	RT3+6	
1783	1 00887	00000412	PZE,0	RT3+6	
1784	1 00888	00000000 A	PZE		
1785	1 00889	00000000 A	PZE		
1786	1 0088A	FFF90008 A	DATA	X'FFFF90008'	M2 IN
1787	1 0088B	FFF90008 A	DATA	X'FFFF90008'	M2 OUT
1788	1 0088C	3272045C	LW,7	MT1+64,1	FMT
1789	1 0088D	32D2049C	LW,13	MT2+64,1	VMT/VMTR
1790	1 0088E	32D2040B	LW,13	RT3-1,1	VRTRCH
1791	1 0088F	00000000 A	DATA	0	RC
1792		*			PLM-ABORT
1793	1 00890	FFFFFFF0 A	DATA	-16	COUNT

			SUFFIX(2)		INSTRUCTION
1794	1 00891	0A0003D4	PLM,0	MEMORY	
1795	1 00892	50000244	K	5,0,0,SETPSW	PSW1 IN
1796	1 00893	A0000276	K	10,0,0,L0C42	PSW1 OUT
1797	1 00894	00000000 A	PZE		R12 IN
1798	1 00895	00000000 A	PZE		R12 OUT
1799	1 00896	00000410	PZE,0	RT3+4	M1 IN
1800	1 00897	00000410	PZE,0	RT3+4	M1 OUT
1801	1 00898	FFFFFFFFFF A	DATA	-1	R13 IN
1802	1 00899	FFFFFFFFFF A	DATA	-1	R13 OUT
1803	1 0089A	FFFEB8004 A	DATA	X!FFFEB8004!	M2 IN
1804	1 0089B	FFFEB8004 A	DATA	X!FFFEB8004!	M2 OUT
1805	1 0089C	3272045C	LW,7	MT1+64,1	FMT
1806	1 0089D	32D2049C	LW,13	MT2+64,1	VMT/VMTR
1807	1 0089E	32D2040B	LW,13	RT3-1,1	VRTRCH
1808	1 0089F	00000000 A	DATA	0	RC
1809					PLM-ABORT
1810	1 008A0	FFFFFFFFFF A	DATA	-16	COUNT
1811	1 008A1	0A0003D4	PLM,0	MEMORY	INSTRUCTION
1812	1 008A2	40000244	K	4,0,0,SETPSW	PSW1 IN
1813	1 008A3	B0000276	K	11,0,0,L0C42	PSW1 OUT
1814	1 008A4	FFFFFFFFFF A	DATA	-1	R12 IN
1815	1 008A5	FFFFFFFFFF A	DATA	-1	R12 OUT
1816	1 008A6	0000040F	PZE,0	RT3+3	M1 IN
1817	1 008A7	0000040F	PZE,0	RT3+3	M1 OUT
1818	1 008A8	00000000 A	PZE		R13 IN
1819	1 008A9	00000000 A	PZE		R13 OUT
1820	1 008AA	FFFEC8000 A	DATA	X!FFFC8000!	M2 IN
1821	1 008AB	FFFEC8000 A	DATA	X!FFFC8000!	M2 OUT
1822	1 008AC	3272045C	LW,7	MT1+64,1	FMT
1823	1 008AD	32D2049C	LW,13	MT2+64,1	VMT/VMTR
1824	1 008AE	32D2040B	LW,13	RT3-1,1	VRTRCH
1825	1 008AF	00000000 A	DATA	0	RC
1826					PLM-TRAP
1827	1 008B0	FFFFFFFFFF A	DATA	-16	COUNT
1828	1 008B1	0A0003D4	PLM,0	MEMORY	INSTRUCTION
1829	1 008B2	D730018E	K	13,7,3,SLSW	PSW1 IN
1830	1 008B3	D730007D	K	13,7,3,SLRET	PSW1 OUT
1831	1 008B4	00000000 A	PZE		R12 IN

SUFFIX(2)					
1832	1	008B5	00000000 A	PZE	R12 OUT
1833	1	008B6	00000418	PZE,0	M1 IN
1834	1	008B7	00000418	PZE,0	M1 OUT
1835	1	008B8	FFFFFFFFFF A	DATA	R13 IN
1836	1	008B9	FFFFFFFFFF A	DATA	R13 OUT
1837	1	008BA	00FF0000C A	DATA	M2 IN
1838	1	008BB	00FF0000C A	DATA	M2 OUT
1839	1	008BC	3272045C	LW,7	FMT
1840	1	008BD	32D2049C	LW,13	VMT/VMTR
1841	1	008BE	32D2040B	LW,13	VRTRCH
1842	1	008BF	00000000 A	DATA	RC
1843			*		PLM-INDIRECT ADDRESSING-INDEXING
1844	1	008C0	FFFFFFFFFF A	DATA	COUNT
1845	1	008C1	8AC202E8	PLM,12	INSTRUCTION TRAP
1846	1	008C2	C730018E	K	PSW1 IN
1847	1	008C3	C730007D	K	PSW1 OUT
1848	1	008C4	00000001 A	DATA	R12 IN-INDEX
1849	1	008C5	00000001 A	DATA	R12 OUT
1850	1	008C6	00000417	PZE,0	M1 IN
1851	1	008C7	00000417	PZE,0	M1 OUT
1852	1	008C8	000003D2	PZE,0	R13 IN-INDIRECT ADDRESS
1853	1	008C9	000003D2	PZE,0	R13 OUT
1854	1	008CA	000F0000 A	DATA	M2 IN
1855	1	008CB	000F0000 A	DATA	M2 OUT
1856	1	008CC	3272045C	LW,7	FMT
1857	1	008CD	32D2049C	LW,13	VMT/VMTR
1858	1	008CE	32D2040B	LW,13	VRTRCH
1859	1	008CF	00000000 A	DATA	RC
1860			*		PLM-TRAP
1861	1	008D0	FFFFFFFFFF A	DATA	COUNT
1862	1	008D1	0AD003D4	PLM,13	INSTRUCTION
1863	1	008D2	9730018E	K	PSW1 IN
1864	1	008D3	9730007D	K	PSW1 OUT
1865	1	008D4	FFFFFFFFFF A	DATA	R12 IN
1866	1	008D5	FFFFFFFFFF A	DATA	R12 OUT
1867	1	008D6	00000414	PZE,0	M1 IN
1868	1	008D7	00000414	PZE,0	M1 OUT
1869	1	008D8	00000000 A	PZE	R13 IN

SUFFIX(2)					
1870	1	008D9	00000000 A	PZE	R13 OUT
1871	1	008DA	00000008 A	DATA	M2 IN
1872	1	008DB	00000008 A	DATA	M2 OUT
1873	1	008DC	3272045C	LW,7	MT1+64,1
1874	1	008DD	32D2049C	LW,13	MT2+64,1
1875	1	008DE	32D204CB	LW,13	RT3-1,1
1876	1	008DF	00000000 A	DATA	RC
1877	*				PLM-TRAP
1878	1	008E0	FFFFFFF0 A	DATA	COUNT
1879	1	008E1	0A100304	PLM,1	INSTRUCTION
1880	1	008E2	87300185	K	PSW1 IN
1881	1	008E3	87300070	K	PSW1 OUT
1882	1	008E4	00000000 A	PZE	R12 IN
1883	1	008E5	00000000 A	PZE	R12 OUT
1884	1	008E6	00000413	PZE,0	M1 IN
1885	1	008E7	00000410	PZE,0	M1 OUT
1886	1	008E8	FFFFFFFE A	DATA	R13 IN
1887	1	008E9	FFFFFFFE A	DATA	R13 OUT
1888	1	008EA	00000000 A	PZE	M2 IN
1889	1	008EB	00000000 A	PZE	M2 OUT
1890	1	008EC	3272045C	LW,7	FMT
1891	1	008ED	32D2049C	LW,13	VMT/VMTR
1892	1	008EE	32D204CB	LW,13	VRTRCH
1893	1	008EF	00000000 A	DATA	RC
1894	*				PLM-TRAP
1895	1	008F0	FFFFFFF0 A	DATA	COUNT
1896	1	008F1	0A200304	PLM,2	INSTRUCTION
1897	1	008F2	77300301	K	PSW1 IN
1898	1	008F3	77300070	K	PSW1 OUT
1899	1	008F4	FFFFFFFE A	DATA	R12 IN
1900	1	008F5	FFFFFFFE A	DATA	R12 OUT
1901	1	008F6	00000410	PZE,0	M1 IN
1902	1	008F7	00000410	PZE,0	M1 OUT
1903	1	008F8	00000000 A	PZE	R13 IN
1904	1	008F9	00000000 A	PZE	R13 OUT
1905	1	008FA	7FF90008 A	DATA	M2 IN
1906	1	008FB	71F90008 A	DATA	M2 OUT
1907	1	008FC	3272045C	LW,7	FMT

SUFFIX(2)					
1900	1 008FD	32D2049C	LW,13	MT2+64,1	VMT/VMTR
1909	1 008FE	32D2040B	LW,13	RT3-1,1	VRTRCH
1910	1 C08FF	00000000 A	DATA	0	RC
1911					PLM-TRAP
1912	1 00900	FFFFFFFFFF A	DATA	-16	COUNT
1913	1 00901	0A3003D4	PLM,3	MEMORY	INSTRUCTION
1914	1 00902	5730018E	K	5,7,3,SLSH	PSW1 IN
1915	1 00903	5730007D	K	5,7,3,GLRUT+1	PSW1 OUT
1916	1 00904	00000000 A	PZE		R12 IN
1917	1 00905	00000000 A	PZE		R12 OUT
1918	1 00906	00000010	PZE,0	RT3+4	M1 IN
1919	1 00907	00000010	PZE,0	RT3+4	M1 OUT
1920	1 00908	FFFFFFFFFF A	DATA	-1	R13 IN
1921	1 00909	FFFFFFFFFF A	DATA	-1	R13 OUT
1922	1 0090A	7FFF80004 A	DATA	X'7FFF80004'	M2 IN
1923	1 0090B	7FFF80004 A	DATA	X'7FFF80004'	M2 OUT
1924	1 0090C	3272049C	LW,7	MT1+64,1	FMT
1925	1 0090D	32D2049C	LW,13	MT2+64,1	VMT/VMTR
1926	1 0090E	32D2040B	LW,13	RT3-1,1	VRTRCH
1927	1 0090F	00000000 A	DATA	0	RC
1928					PLM-TRAP
1929	1 00910	FFFFFFFFFF A	DATA	-16	COUNT
1930	1 00911	0A4003D4	PLM,4	MEMORY	INSTRUCTION
1931	1 00912	4730018E	K	4,7,3,SLSH	PSW1 IN
1932	1 00913	4730007D	K	4,7,3,GLRUT+3	PSW1 OUT
1933	1 00914	FFFFFFFFFF A	DATA	-1	R12 IN
1934	1 00915	FFFFFFFFFF A	DATA	-1	R12 OUT
1935	1 00916	00000017	PZE,0	RT3+3	M1 IN
1936	1 00917	00000017	PZE,0	RT3+3	M1 OUT
1937	1 00918	00000000 A	PZE		R13 IN
1938	1 00919	00000000 A	PZE		R13 OUT
1939	1 0091A	7FFC0000 A	DATA	X'7FFC0000'	M2 IN
1940	1 0091B	7FFC0000 A	DATA	X'7FFC0000'	M2 OUT
1941	1 0091C	3272049C	LW,7	MT1+64,1	FMT
1942	1 0091D	32D2049C	LW,13	MT2+64,1	VMT/VMTR
1943	1 0091E	32D2040B	LW,13	RT3-1,1	VRTRCH
1944	1 0091F	00000000 A	DATA	0	RC
1945					PSW

SUFFIX(2)				
1946	1 00920	FFFFFFFFFF A	DATA -16	COUNT
1947	1 00921	0B0003D4	PSM,0 MEMORY	INSTRUCTION
1948	1 00922	00300244	K 0,0,3,SETPSW	PSW1 IN
1949	1 00923	40300276	K 4,0,3,L0C+2	PSW1 OUT
1950	1 00924	01234567 A	DATA X'1234567'	R12 IN
1951	1 00925	01234567 A	DATA X'1234567'	R12 OUT
1952	1 00926	0000052D	PZE,0 VRT-1	M1 IN
1953	1 00927	0000053D	PZE,0 VRT+15	M1 OUT
1954	1 00928	FEDCBA98 A	DATA X'FEDCBA98'	R13 IN
1955	1 00929	FEDCBA98 A	DATA X'FEDCBA98'	R13 OUT
1956	1 0092A	00100000 A	DATA X'100000'	M2 IN
1957	1 0092B	00000010 A	DATA 16	M2 OUT
1958	1 0092C	3272045C	LW,7 MT1+64,1	FMT
1959	1 0092D	32D2049C	LW,13 MT2+64,1	VMTR/VMTR
1960	1 0092E	32D203EB	LW,13 RT1-1,1	VRTRCH
1961	1 0092F	00000010 A	DATA 16	RC
1962		*		PSM
1963	1 00930	FFFFFFFFFF A	DATA -16	COUNT
1964	1 00931	0B0003D4	PSM,0 MEMORY	INSTRUCTION
1965	1 00932	07000244	K 0,7,0,SETPSW	PSW1 IN
1966	1 00933	07000276	K 0,7,0,L0C+2	PSW1 OUT
1967	1 00934	01234567 A	DATA X'1234567'	R12 2N
1968	1 00935	01234567 A	DATA X'1234567'	R12 3UT
1969	1 00936	0000052D	PZE,0 VRT-1	M1 IN
1970	1 00937	0000053D	PZE,0 VRT+15	M1 OUT
1971	1 00938	FEDCBA98 A	DATA X'FEDCBA98'	R13 IN
1972	1 00939	FEDCBA98 A	DATA X'FEDCBA98'	R13 OUT
1973	1 0093A	00110000 A	DATA X'110000'	M2 IN
1974	1 0093B	00010010 A	DATA X'10010'	M2 OUT
1975	1 0093C	3272045C	LW,7 MT1+64,1	FMT
1976	1 0093D	32D2049C	LW,13 MT2+64,1	VMTR/VMTR
1977	1 0093E	32D203EB	LW,13 RT1-1,1	VRTRCH
1978	1 0093F	00000010 A	DATA 16	RC
1979		*		PSM-INDEXING
1980	1 00940	FFFFFFFFFF A	DATA -16	COUNT
1981	1 00941	0B028EA4	PSM,0 MEMORY+X'68AD01,1	INSTRUCTION
1982	1 00942	B0000244	K 11,0,0,SETPSW	PSW1 IN
1983	1 00943	00000276	K 0,0,0,L0C+2	PSW1 OUT

			SUFFIX(2)		
1984	1 00944	FEDCBA98 A	DATA X'FEDCBA98'	R12 IN-INDEX	
1985	1 00945	FEDCBA98 A	DATA X'FEDCBA98'	R12 OUT	
1986	1 00946	0000052D	PZE,0 VRT-1	M1 IN	
1987	1 00947	00000538	PZE,0 VRT+10	M1 OUT	
1988	1 00948	01234567 A	DATA X'1234567'	R13 IN	
1989	1 00949	01234567 A	DATA X'1234567'	R13 OUT	
1990	1 0094A	7FFF7FF4 A	DATA X'7FFF7FF4'	M2 IN	
1991	1 0094B	7FF47FFF A	DATA X'7FF47FFF'	M2 OUT	
1992	1 0094C	3272045C	LW,7 MT1+64,1	FMT	
1993	1 0094D	32D2049C	LW,13 MT2+64,1	VMT/VMTR	
1994	1 0094E	32D203EB	LW,13 RT1-1,1	VRTRCH	
1995	1 0094F	0000000B A	DATA 11	RC	
1996		*		PSM-INDIRECT ADDRESSING	
1997	1 00950	FFFFFFFFFF A	DATA -16	COUNT	
1998	1 00951	8B0002EB	PSM,0 *WKIA	INSTRUCTION	
1999	1 00952	C0000244	K 12,0,0,SETPSW	PSW1 IN	
2000	1 00953	40000276	K 4,0,0,L0C+2	PSW1 OUT	
2001	1 00954	FEDCBA98 A	DATA X'FEDCBA98'	R12 IN	
2002	1 00955	FEDCBA98 A	DATA X'FEDCBA98'	R12 OUT	
2003	1 00956	0000052D	PZE,0 VRT-1	M1 IN	
2004	1 00957	00000539	PZE,0 VRT+11	M1 OUT	
2005	1 00958	00000304	PZE,0 MEMORY	R13 IN-INDIRECT ADDRESS	
2006	1 00959	01234567 A	DATA X'1234567'	R13 OUT	
2007	1 0095A	000C0001 A	DATA X'0C0001'	M2 IN	
2008	1 0095B	0000000D A	DATA 13	M2 OUT	
2009	1 0095C	3272045C	LW,7 MT1+64,1	FMT	
2010	1 0095D	32D2049C	LW,13 MT2+64,1	VMT/VMTR	
2011	1 0095E	32D203EB	LW,13 RT1-1,1	VRTRCH	
2012	1 0095F	0000000C A	DATA 12	RC	
2013		*		PSM-INDIRECT ADDRESSING-INDEXING	
2014	1 00960	FFFFFFFFFF A	DATA -16	COUNT	
2015	1 00961	8B0202EB	PSM,0 *WKIA,1	INSTRUCTION	
2016	1 00962	B0000244	K 11,0,0,SETPSW	PSW1 IN	
2017	1 00963	00000276	K 0,0,0,L0C+2	PSW1 OUT	
2018	1 00964	FEDCBA98 A	DATA X'FEDCBA98'	R12 IN-INDEX	
2019	1 00965	FEDCBA98 A	DATA X'FEDCBA98'	R12 OUT	
2020	1 00966	0000052D	PZE,0 VRT-1	M1 IN	
2021	1 00967	00000538	PZE,0 VRT+10	M1 OUT	

				SUFFIX(2)	
2022	1	00968	00008EA4	PZE,0	MEMORY+X'68AD0'
2023	1	00969	01234567 A	DATA	X'1234567'
2024	1	0096A	000C0000 A	DATA	X'C0000'
2025	1	0096B	0001000B A	DATA	X'1000B'
2026	1	0096C	3272045C	LW,7	MT1+64,1
2027	1	0096D	32D2049C	LW,13	MT2+64,1
2028	1	0096E	32D203EB	LW,13	RT1-1,1
2029	1	0096F	00000008 A	DATA	11
2030			*		PSM-ABORT
2031	1	00970	FFFFFFFFFF A	DATA	-16
2032	1	00971	0BC003D4	PSM,12	MEMORY
2033	1	00972	D0000244	K	13,0,0,SETPSW
2034	1	00973	20000276	K	2,0,0,L6C+2
2035	1	00974	FFFFFFF F A	DATA	-1
2036	1	00975	FFFFFFF F A	DATA	-1
2037	1	00976	00000520	PZE,0	VRT-1
2038	1	00977	00000520	PZE,0	VRT1-1
2039	1	00978	00000000 A	PZE	
2040	1	00979	00000000 A	PZE	
2041	1	0097A	000EFFFB3 A	DATA	X'1000EFFFB3'
2042	1	0097B	000EFFFB3 A	DATA	X'1000EFFFB3'
2043	1	0097C	3272045C	LW,7	MT1+64,1
2044	1	0097D	32D2049C	LW,13	MT2+64,1
2045	1	0097E	32D203EB	LW,13	RT1-1,1
2046	1	0097F	00000000 A	DATA	0
2047			*		PSM-INDIRECT ADDRESSING-ABORT
2048	1	00980	FFFFFFFFFF A	DATA	-16
2049	1	00981	8BD00C2EB	PSM,13	*WKIA
2050	1	00982	70000244	K	7,0,0,SETPSW
2051	1	00983	80000276	K	8,0,0,L6C+2
2052	1	00984	00000000 A	PZE	
2053	1	00985	00000000 A	PZE	
2054	1	00986	00000520	PZE,0	VRT-1
2055	1	00987	00000520	PZE,0	VRT-1
2056	1	00988	000003D4	PZE,0	MEMORY
2057	1	00989	000003D4	PZE,0	MEMORY
2058	1	0098A	80067FF8 A	DATA	X'180067FF8'
2059	1	0098B	80067FF8 A	DATA	X'180067FF8'

			SUFFIX(2)		
2060	1 0098C	3272045C	LW,7	MT1+64,1	FMT
2061	1 0098D	32D2049C	LW,13	MT2+64,1	VMT/VMTR
2062	1 0098E	32D203EB	LW,13	RT1-1,1	VRTRCH
2063	1 0098F	00000000 A	DATA	0	RC
2064		*			PSM-INDEXING-ABORT
2065	1 00990	FFFFFFFFFF A	DATA	-16	COUNT
2066	1 00991	081203D2	PSM,1	MEMORY-2,1	INSTRUCTION
2067	1 00992	60000244	K	6,0,0,SETPSW	PSW1 IN
2068	1 00993	90000276	K	9,0,0,LOC+2	PSW1 OUT
2069	1 00994	00000001 A	DATA	1	R12 IN-INDEX
2070	1 00995	00000001 A	DATA	1	R12 OUT
2071	1 00996	0000052D	PZE,0	VRT-1	M1 IN
2072	1 00997	0000052D	PZE,0	VRT-1	M1 OUT
2073	1 00998	FFFFFFFFFF A	DATA	-1	R13 IN
2074	1 00999	FFFFFFFFFF A	DATA	-1	R13 OUT
2075	1 009A0	80050000 A	DATA	X'80050000'	M2 IN
2076	1 009A0	80050000 A	DATA	X'80050000'	M2 OUT
2077	1 009A0	3272045C	LW,7	MT1+64,1	FMT
2078	1 009A0	32D2049C	LW,13	MT2+64,1	VMT/VMTR
2079	1 009A0	32D203EB	LW,13	RT1-1,1	VRTRCH
2080	1 009A0	00000000 A	DATA	0	RC
2081		*			PSM-INDIRECT ADDRESSING-INDEXING
2082	1 009A0	FFFFFFFFFF A	DATA	-16	COUNT
2083	1 009A1	800202E3	PSM,2	*WKIA,1	INSTRUCTION
2084	1 009A2	50000244	K	5,0,0,SETPSW	PSW1 IN
2085	1 009A3	A0000276	K	10,0,0,LOC+2	PSW1 OUT
2086	1 009A4	FFFFFFFFFF C0 A	DATA	-64	R12 IN-INDEX
2087	1 009A5	FFFFFFFFFF C0 A	DATA	-64	R12 OUT
2088	1 009A6	0000052D	PZE,0	VRT-1	M1 IN
2089	1 009A7	0000052D	PZE,0	VRT-1	M1 OUT
2090	1 009A8	00000454	PZE,0	MEMORY+128	R13 IN-INDIRECT ADDRESS
2091	1 009A9	00000454	PZE,0	MEMORY+128	R13 OUT
2092	1 009AA	8004FFFB A	DATA	X'8004FFFB'	M2 IN
2093	1 009AB	8004FFFB A	DATA	X'8004FFFB'	M2 OUT
2094	1 009AC	3272045C	LW,7	MT1+64,1	FMT
2095	1 009AD	32D2049C	LW,13	MT2+64,1	VMT/VMTR
2096	1 009AE	32D203EB	LW,13	RT1-1,1	VRTRCH
2097	1 009AF	00000000 A	DATA	0	RC

SUFFIX(2)					
2098	*				PSM-ABORT
2099	1 00980	FFFFFFFFFF A	DATA -16	COUNT	
2100	1 00981	0B3003D4	PSM,3 MEMORY	INSTRUCTION	
2101	1 00982	30000244	K 3,0,0,SETPSW	PSW1 IN	
2102	1 00983	C0000276	K 12,0,0,L0C+2	PSW1 OUT	
2103	1 00984	FFFFFFFFFF A	DATA -1	R12 IN	
2104	1 00985	FFFFFFFFFF A	DATA -1	R12 OUT	
2105	1 00986	0C00052D	PZE,0 VRT-1	M1 IN	
2106	1 00987	0000052D	PZE,0 VRT-1	M1 OUT	
2107	1 00988	00000000 A	PZE	R13 IN	
2108	1 00989	00000000 A	PZE	R13 OUT	
2109	1 0098A	80007FFC A	DATA X180007FFC1	M2 IN	
2110	1 0098B	80007FFC A	DATA X180007FFC1	M2 OUT	
2111	1 0098C	3272045C	LW,7 MT1+64,1	FMT	
2112	1 0098D	32D2049C	LW,13 MT2+64,1	VMT/VMT	
2113	1 0098E	32D203E8	LW,13 RT1+1,1	VRTRCH	
2114	1 0098F	00000000 A	DATA 0	RC	
2115	*			PSM-ABORT	
2116	1 009C0	FFFFFFFFFF A	DATA -16	COUNT	
2117	1 009C1	0B4003D4	PSM,4 MEMORY	INSTRUCTION	
2118	1 009C2	20000244	K 2,0,0,SETPSW	PSW1 IN	
2119	1 009C3	D0000276	K 13,0,C+60C+2	PSW1 OUT	
2120	1 009C4	00000000 A	PZE	R12 IN	
2121	1 009C5	00000000 A	PZE	R12 OUT	
2122	1 009C6	00C3052D	PZE,0 VRT-1	M1 IN	
2123	1 009C7	0000052D	PZE,0 VRT-1	M1 OUT	
2124	1 009C8	FFFFFFFFFF A	DATA -1	R13 IN	
2125	1 009C9	FFFFFFFFFF A	DATA -1	R13 OUT	
2126	1 009CA	80000000 A	DATA X18000000C1	M2 IN	
2127	1 009CB	80000000 A	DATA X18000000C1	M2 OUT	
2128	1 009CC	3272045C	LW,7 MT1+64,1	FMT	
2129	1 009CD	32D2049C	LW,13 MT2+64,1	VMT/VMT	
2130	1 009CE	32D203E8	LW,13 RT1+1,1	VRTRCH	
2131	1 009CF	00000000 A	DATA 0	RC	
2132	*			PSM-ABORT	
2133	1 009D0	FFFFFFFFFF A	DATA -16	COUNT	
2134	1 009D1	0B5003D4	PSM,5 MEMORY	INSTRUCTION	
2135	1 009D2	10000244	K 1,0,0,SETPSW	PSW1 IN	

			SUFFIX(2)	
2136	1 009D3	E0000276	K	14,0,0,LOC+2
2137	1 009D4	FFFFFFFFFF A	DATA	-1
2138	1 009D5	FFFFFFFFFF A	DATA	-1
2139	1 009D6	0000052D	PZE,0	VRT~1
2140	1 009D7	0000052D	PZE,0	VRT~1
2141	1 009D8	00000000 A	PZE	
2142	1 009D9	00000000 A	PZE	
2143	1 C09DA	00000000 A	DATA	X'8000FFFF'
2144	1 C09E0	0000FFFF A	DATA	X'8000FFFF'
2145	1 009E1	32D2045C	LW,7	MT1+64,1
2146	1 009E0	32D2049C	LW,13	MT2+64,1
2147	1 009DE	32D203E8	LW,13	RT1~1,1
2148	1 009DF	00000000 A	DATA	0
2149		*		PSW1-TRAP
2150	1 009E0	FFFFFFFFFF A	DATA	-16
2151	1 009E1	0B600304	PSW,6	MEMORY
2152	1 009E2	D730018E	K	13,7,3,SLSM
2153	1 009E3	D730007D	K	13,7,3,SLRTR4,1
2154	1 009E4	00000000 A	PZE	
2155	1 C09E5	00000000 A	PZE	
2156	1 009E6	0000052D	PZE,0	VRT~1
2157	1 009E7	0000052D	PZE,0	VRT~1
2158	1 009E8	FFFFFFFFFF A	DATA	-1
2159	1 009E9	FFFFFFFFFF A	DATA	-1
2160	1 009EA	00017FFF A	DATA	X'0000FFFF'
2161	1 009EB	000E7FFF A	DATA	X'000E7FFF'
2162	1 009EC	3272045C	LW,7	MT1+64,1
2163	1 009ED	32D2049C	LW,13	MT2+64,1
2164	1 009EE	32D203E8	LW,13	RT1~1,1
2165	1 009EF	00000000 A	DATA	0
2166		*		PSW=INDIRECT ADDRESSING INDEXED
2167	1 009F0	FFFFFFFFFF A	DATA	-16
2168	1 009F1	887202E8	PSW,7	LINKA,1
2169	1 009F2	7730018E	K	7,7,3,SLSM
2170	1 009F3	7730007D	K	7,7,3,SLRTR4,1
2171	1 009F4	FFFFFFFFFF A	DATA	-1
2172	1 009F5	FFFFFFFFFF A	DATA	-1
2173	1 009F6	0000052D	PZE,0	VRT~1

PREFIX(2)			
2174	1 009F7	0000052D	PZE,0 VRT-1 M1 OUT
2175	1 009F8	000003D6	PZE,0 MEMORY+2 R13 IN-INDIRECT ADDRESS
2176	1 009F9	000003D6	PZE,0 MEMORY+2 R13 OUT
2177	1 009FA	00067FF9 A	DATA X'00067FF9' M2 IN
2178	1 009FB	00067FF9 A	DATA X'00067FF9' M2 OUT
2179	1 C09FC	3272045C	LW,7 MT1+64,1 FMT
2180	1 009FD	32D2049C	LW,13 MT2+64,1 VMT/VMTR
2181	1 009FE	32D203E8	LW,13 RT1-1,1 VRTRCH
2182	1 009FF	00000000 A	DATA 0 RC
2183		*	PSM-TRAP
2184	1 C0A00	FFFFFFFFFF A	DATA -16 COUNT
2185	1 C0A01	0B7003D4	PSM,7 MEMORY INSTRUCTION
2186	1 C0A02	6730018E	K 6,7,3,SLSW PSW1 IN
2187	1 C0A03	6730007D	K 6,7,3,SLRET+1 PSW1 OUT
2188	1 C0A04	00000000 A	PZE R12 IN
2189	1 C0A05	00000000 A	PZE R12 OUT
2190	1 C0A06	0000052D	PZE,0 VRT-1 M1 IN
2191	1 C0A07	0000052D	PZE,0 VRT-1 M1 OUT
2192	1 C0A08	FFFFFFFFFF A	DATA -1 R13 IN
2193	1 C0A09	FFFFFFFFFF A	DATA -1 R13 OUT
2194	1 C0A0A	00050000 A	DATA X'00050000' M2 IN
2195	1 C0A0B	00050000 A	DATA X'00050000' M2
2196	1 C0A0C	3272045C	LW,7 MT1+64,1 FMT
2197	1 C0A0D	32D2049C	LW,13 MT2+64,1 VMT/VMTR
2198	1 C0A0E	32D203E8	LW,13 RT1-1,1 VRTRCH
2199	1 C0A0F	00000000 A	DATA 0 RC
2200		*	PSM-TRAP
2201	1 C0A10	FFFFFFFFFF A	DATA -16 COUNT
2202	1 C0A11	0B8003D4	PSM,8 MEMORY INSTRUCTION
2203	1 C0A12	5730018E	K 5,7,3,SLSW PSW1 IN
2204	1 C0A13	5730007D	K 5,7,3,SLRET+1 PSW1 OUT
2205	1 C0A14	FFFFFFFFFF A	DATA -1 R12 IN
2206	1 C0A15	FFFFFFFFFF A	DATA -1 R12 OUT
2207	1 C0A16	0000052D	PZE,0 VRT-1 M1 IN
2208	1 C0A17	0000052D	PZE,0 VRT-1 M1 OUT
2209	1 C0A18	00000000 A	PZE R13 IN
2210	1 C0A19	00000000 A	PZE R13 OUT
2211	1 C0A1A	00047FFB A	DATA X'00047FFB' M2 IN

SUFFIX(2)			
2212	1 00A1B	00047FFB A	DATA X'00047FFB'
2213	1 00A1C	3272045C	LW,7 MT1+64,1
2214	1 00A1D	32D2049C	LW,13 MT2+64,1
2215	1 00A1E	32D203EB	LW,13 RT1-1,1
2216	1 00A1F	00000000 A	DATA 0
2217		*	PSM-TRAP
2218	1 00A20	FFFFFFFO A	DATA -16
2219	1 00A21	0B9003D4	PSM,9 MEMORY
2220	1 00A22	3730018E	K 3,7,3, SLSW
2221	1 00A23	3730007D	K 3,7,3, SLRET+1
2222	1 00A24	00000000 A	PZE
2223	1 00A25	00000000 A	PZE
2224	1 00A26	0000052D	PZE,0 VRT-1
2225	1 00A27	0000052D	PZE,0 VRT-1
2226	1 00A28	FFFFFFFF A	DATA -1
2227	1 00A29	FFFFFFFF A	DATA -1
2228	1 00A2A	00007FFC A	DATA X'00007FFC'
2229	1 00A2B	00007FFC A	DATA X'00007FFC'
2230	1 00A2C	3272045C	LW,7 MT1+64,1
2231	1 00A2D	32D2049C	LW,13 MT2+64,1
2232	1 00A2E	32D203EB	LW,13 RT1-1,1
2233	1 00A2F	00000000 A	DATA 0
2234		*	PSM-TRAP
2235	1 00A30	FFFFFFFO A	DATA -16
2236	1 00A31	0BA003D4	PSM,10 MEMORY
2237	1 00A32	2730018E	K 2,7,3, SLSW
2238	1 00A33	2730007D	K 2,7,3, SLRET+1
2239	1 00A34	FFFFFFFF A	DATA -1
2240	1 00A35	FFFFFFFF A	DATA -1
2241	1 00A36	0000052D	PZE,0 VRT-1
2242	1 00A37	0000052D	PZE,0 VRT-1
2243	1 00A38	00000000 A	PZE
2244	1 00A39	00000000 A	PZE
2245	1 00A3A	00000000 A	PZE
2246	1 00A3B	00000000 A	PZE
2247	1 00A3C	3272045C	LW,7 MT1+64,1
2248	1 00A3D	32D2049C	LW,13 MT2+64,1
2249	1 00A3E	32D203EB	LW,13 RT1-1,1

		SUFFIX(2)		
		DATA	0	RC
2250	* 1 00A3F	00000000 A		PSM-TRAP
2251				COUNT
2252	1 00A40	FFFFFFFFFF A	DATA -16	INSTRUCTION
2253	1 00A41	03B0003D4	PSM,11 MEMORY	PSW1 IN
2254	1 00A42	1730018E	K 1,7,3,SLSW	PSW1 OUT
2255	1 00A43	1730007D	K 1,7,3,SLRET+1	R12 IN
2256	1 00A44	00000000 A	PZE	R12 OUT
2257	1 00A45	00000000 A	PZE	M1 IN
2258	1 00A46	0000052D	PZE,0 VRT-1	M1 OUT
2259	1 00A47	0000052D	PZE,0 VRT-1	R13 IN
2260	1 00A48	FFFFFFFFFF A	DATA -1	R13 OUT
2261	1 00A49	FFFFFFFFFF A	DATA -1	M2 IN
2262	1 00A4A	00007FFF A	DATA X'00007FFF'	M2 OUT
2263	1 00A4B	00007FFF A	DATA X'00007FFF'	FMT
2264	1 00A4C	3272045C	LW,7 MT1+64,1	VMT/VMTR
2265	1 00A4D	32D2049C	LW,13 MT2+64,1	VRTRCH
2266	1 00A4E	32D203EB	LW,13 RT1-1,1	RC
2267	1 00A4F	00000000 A	DATA 0	CVA
2268				COUNT
2269	1 00A50	FFFFFFFFFF2 A	DATA -14	INSTRUCTION
2270	1 00A51	29C00590	CVA,12 VMT	PSW1 IN
2271	1 00A52	073C0244	K 0,7,3,SETPSM	PSW1 OUT
2272	1 00A53	07300276	K 0,7,3,LOC+2	R12 IN
2273	1 00A54	FEDCBA98 A	DATA X'FEDCBA98'	R12 OUT
2274	1 00A55	00000000 A	DATA 0	M1 IN
2275	1 00A56	FEDCBA98 A	DATA X'FEDCBA98'	M1 OUT
2276	1 00A57	FEDCBA98 A	DATA X'FEDCBA98'	R13 IN
2277	1 00A58	00000000 A	DATA 0	R13 OUT
2278	1 00A59	00000000 A	DATA 0	M2 IN
2279	1 00A5A	00000000 A	DATA 0	M2 OUT
2280	1 00A5B	00000000 A	DATA 0	FMT
2281	1 00A5C	3272045C	LW,7 MT1+64,1	VMT/VMTR
2282	1 00A5D	32D2049C	LW,13 MT2+64,1	CVA-INDEXING
2283				COUNT
2284	1 00A5E	FFFFFFFFFF2 A	DATA -14	INSTRUCTION
2285	1 00A5F	29C20590	CVA,12 VM1-1	PSW1 IN
2286	1 00A60	F0300244	K 15,6,3,SETPSM	PSW1 OUT
2287	1 00A61	D0300276	K 13,0,3,LOC+2	

			SUFFIX(2)		
2288	1	00A62	00000020 A	DATA	32
2289	1	00A63	FFFFFFFFFF A	DATA	-1
2290	1	00A64	00000000 A	DATA	0
2291	1	00A65	00000000 A	DATA	0
2292	1	00A66	FFFF0000 A	DATA	X'FFFF0000'
2293	1	00A67	FFFF0000 A	DATA	X'FFFF0000'
2294	1	00A68	FFFFFFFF A	DATA	-1
2295	1	00A69	FFFFFFFF A	DATA	-1
2296	1	00A6A	3272045C	LW,7	MT1+64,1
2297	1	00A6B	32D2049C	LW,13	MT2+64,1
2298	*				CVA
2300	1	00A6C	FFFFFFF2 A	DATA	-14
2300	1	00A6D	29C00590	CVA,12	VMT
2301	1	00A6E	A7000244	K	10,7,0,SETPSW
2302	1	00A6F	17000276	K	1,7,0,L0C42
2303	1	00A70	00000000 A	DATA	0
2304	1	00A71	FFFFFFFF A	DATA	-1
2305	1	00A72	FFFFFFFF A	DATA	-1
2306	1	00A73	FFFFFFFF A	DATA	-1
2307	1	00A74	FFFFFFFF A	DATA	-1
2308	1	00A75	FFFFFFFF A	DATA	-1
2309	1	00A76	00000000 A	DATA	0
2310	1	00A77	00000000 A	DATA	0
2311	1	00A78	3272045C	LW,7	MT1+64,1
2312	1	00A79	32D2049C	LW,13	MT2+64,1
2313	*				CVA-INDIRECT ADDRESSING
2314	1	00A7A	FFFFFFF2 A	DATA	-14
2315	1	00A7B	A9C002E8	CVA,12	*WKIA
2316	1	00A7C	50000244	K	5,0,0,SETPSW
2317	1	00A7D	60000276	K	6,0,0,L0C42
2318	1	00A7E	FFFFFFFF A	DATA	-1
2319	1	00A7F	00A00000 A	DATA	X'0A000000'
2320	1	00A80	FFFFFFFF A	DATA	-1
2321	1	00A81	FFFFFFFF A	DATA	-1
2322	1	00A82	00000590	PZE,0	VMT
2323	1	00A83	00000590	PZE,0	VMT
2324	1	00A84	00000000 A	PZE	
2325	1	00A85	00000000 A	PZE	

SUFFIX(2)						
2326	1	00A86	3272045C	LW,7	MT1+64,1	FMT
2327	1	00A87	32D2049C	LW,13	MT2+64,1	VMT/VMTR
2328			*			CVA
2329	1	00A88	FFFFFFFFFF2 A	DATA	-14	CBOUNT
2330	1	00A89	29C005B0	CVA,12	VMT+32	INSTRUCTION
2331	1	00A8A	00100244	K	0,0,1,SETPSW	PSW1 IN
2332	1	00A8B	90100276	K	9,0,1,LBC+2	PSW1 OUT
2333	1	00A8C	00000000 A	PZE		R12 IN
2334	1	00A8D	80000001 A	DATA	X'80000001'	R12 OUT
2335	1	00A8E	FFFFFFFFFF A	DATA	-1	M1 IN
2336	1	00A8F	FFFFFFFFFF A	DATA	-1	M1 OUT
2337	1	00A90	FFFFFFFFFF A	DATA	-1	R13 IN
2338	1	00A91	FFFFFFFFFF A	DATA	-1	R13 OUT
2339	1	00A92	00000000 A	PZE		M2 IN
2340	1	00A93	00000000 A	PZE		M2 OUT
2341	1	00A94	3272045C	LW,7	MT1+64,1	FMT
2342	1	00A95	32D2049C	LW,13	MT2+64,1	VMT/VMTR
2343			*			CVS
2344	1	00A96	FFFFFFFFFF2 A	DATA	-14	CBOUNT
2345	1	00A97	28C00590	CVS,12	VMT	INSTRUCTION
2346	1	00A98	07300244	K	0,7,3,SETPSW	PSW1 IN
2347	1	00A99	07300276	K	0,7,3,LBC+2	PSW1 OUT
2348	1	00A9A	00000000 A	DATA	0	R12 IN
2349	1	00A9B	00000000 A	DATA	0	R12 OUT
2350	1	00A9C	FEDCBA98 A	DATA	X'FEDCBA98'	M1 IN
2351	1	00A9D	FEDCBA98 A	DATA	X'FEDCBA98'	M1 OUT
2352	1	00A9E	FFFFFFFFFF A	DATA	-1	R13 IN
2353	1	00A9F	00000000 A	DATA	0	R13 OUT
2354	1	00AA0	FFFFFFFFFF A	DATA	-1	M2 IN
2355	1	00AA1	FFFFFFFFFF A	DATA	-1	M2 OUT
2356	1	00AA2	3272045C	LW,7	MT1+64,1	FMT
2357	1	00AA3	32D2045C	LW,13	MT1+64,1	VMT/VMTR
2358			*			CVS
2359	1	00AA4	FFFFFFFFFF2 A	DATA	-14	CBOUNT
2360	1	00AA5	28C005B0	CVS,12	VMT+32	INSTRUCTION
2361	1	00AA6	00300244	K	0,0,3,SETPSW	PSW1 IN
2362	1	00AA7	20300276	K	2,0,3,LBC+2	PSW1 OUT
2363	1	00AA8	EFFFFFFFF F	DATA	X'EFFFFFFFF'	R12 IN

SUFFIX(2)			
2214	1 00AA9	0696968C A	DATA X'696968C'
2365	1 0CAA9	000C0000 A	PZE
2366	1 00AAB	00000000 A	PZE
2367	1 00AAC	F0F0F0F0 A	DATA X'FOFOFOFO'
2368	1 00AAD	7539FEEE A	DATA X'7539FEEE'
2369	1 00AAE	FFFFFFFF A	DATA -1
2370	1 00AAF	FFFFFFFF A	DATA -1
2371	1 00AB0	3272045C	LW,7 MT1+64,1
2372	1 00AB1	32D2049C	LW,13 MT2+64,1
2373		*	CVS
2374	1 00AB2	FFFFFFF2 A	DATA -14
2375	1 00AB3	28C005B0	CVS,12 VMT+32
2376	1 00AB4	F7000244	K 15,7,0,SETPSW
2377	1 00AB5	D7000276	K 13,7,0,L0C+2
2378	1 00AB6	EFFFFFFF A	DATA X'EFFFFFFF'
2379	1 00AB7	00000001 A	DATA 1
2380	1 00AB8	FFFFFFFF A	DATA -1
2381	1 00AB9	FFFFFFFF A	DATA -1
2382	1 0CABA	FFFFFFFF A	DATA -1
2383	1 00ABB	EA73FDDD A	DATA X'EA73FDDD'
2384	1 00ABC	000C0000 A	PZE
2385	1 00ABD	00000000 A	PZE
2386	1 00ABE	3272045C	LW,7 MT1+64,1
2387	1 00ABF	32D2049D	LW,13 MT2+65,1
2388		*	CVS-INDEXING
2389	1 00AC0	FFFFFFF2 A	DATA -14
2390	1 00AC1	28C205B1	CVS,12 VMT+33,1
2391	1 00AC2	50000244	K 5,0,0,SETPSW
2392	1 00AC3	50000276	K 5,0,0,L0C+2
2393	1 00AC4	FFFFFFFF A	DATA -1
2394	1 COAC5	00000000 A	DATA 0
2395	1 00AC6	F0F0F0F0 A	DATA X'FOFOFOFO'
2396	1 00AC7	FCFOFOFO A	DATA X'FOFOFOFO'
2397	1 00AC8	OFOFOFOF A	DATA X'FOFOFOF'
2398	1 00AC9	E000AAAA A	DATA X'E000AAAA'
2399	1 00ACA	OFOFOFOF A	DATA X'FOFOFOF'
2400	1 00ACB	OFOFOFOF A	DATA X'FOFOFOF'
2401	1 00ACC	3272045C	LW,7 MT1+64,1

		SUFFIX(2)			
2402	1 COACD	32D2049C	LW,13	MT2+64,1	VMT/VMTR
2403		*			CVS-INDIRECT ADDRESSING
2404	1 OOACE	FFFFFFFFFF A	DATA	-14	COUNT
2405	1 OOACF	A8C002EB	CVS,12	*WKIA	INSTRUCTION
2406	1 OOACO	A0000244	K	10,0,0,SETPSW	PSW1 IN
2407	1 OCAD1	90000276	K	9,0,0,LBC+2	PSW1 OUT
2408	1 OOAD2	FFFFFFFFFF A	DATA	-1	R12 IN
2409	1 OOAD3	00000000 A	DATA	0	R12 OUT
2410	1 OOAD4	0FOFOFOF A	DATA	X'FOFOFOF'	M1 IN
2411	1 OOAD5	0FCFOFOF A	DATA	X'FOFOFOF'	M1 OUT
2412	1 OOAD6	00000590	PZE,0	VMT	R13 IN-INDIRECT ADDRESS
2413	1 OCAD7	FFFFFFFFFF A	DATA	-1	R13 OUT
2414	1 OOAD8	F0FOFOFO A	DATA	X'FOFOFOFO'	M2 IN
2415	1 COAD9	F0FOFOFO A	DATA	X'FOFOFOFO'	M2 OUT
2416	1 OOA DA	3272045C	LW,7	MT1+64,1	FMT
2417	1 OOA DB	32D2049C	LW,13	MT2+64,1	VMT/VMTR
2418		*			MBS
2419	1 OOA DC	FFFFFFFFFF A	DATA	-16	COUNT
2420	1 OOA DD	61C00000 A	MBS,12	0	INSTRUCTION
2421	1 OOA DE	00000244	K	0,0,0,SETPSW	PSW1 IN
2422	1 OOA DF	00000276	K	0,0,0,LBC+2	PSW1 OUT
2423	1 OOA EO	00001538	J	0,BA(FMT)	R12 IN
2424	1 OOA E1	00001637	J	0,BA(FMT)+255	R12 OUT
2425	1 OOA E2	F0FOFCFO A	DATA	X'FCFOFOFO'	RO IN
2426	1 OOA E3	F0FOFOFO A	DATA	X'FOFOFOFO'	RD OUT
2427	1 OOA E4	FFFO01640	J	X'FF',BA(VMT)	R13 IN
2428	1 OOA E5	00000173F	J	0,BA(VMT)+255	R13 OUT
2429	1 OOA E6	0FOFOFOF A	DATA	X'FOFCFOF'	R1 IN
2430	1 OOA E7	0FOFOFOF A	DATA	X'FOFOFOF'	R1 OUT
2431	1 OOA E8	3272045C	LW,7	MT1+64,1	FMT
2432	1 OOA E9	32D2049C	LW,13	MT2+64,1	VMT/UMTR
2433	1 OOA EA	000001070	J	0,BA(MT1)	VMTRCH
2434	1 OOA EB	000000FF A	DATA	255	MC
2435		*			MBS
2436	1 OOA EC	FFFFFFFFFF A	DATA	-16	COUNT
2437	1 OOA ED	61C00009 A	MBS,12	9	INSTRUCTION
2438	1 OOA EE	57100244	K	5,7,1,SETPSW	PSW1 IN
2439	1 OOA EF	57100276	K	5,7,1,LBC+2	PSW1 OUT

R12 = 3252045C
R13 = 00000000

SUFFIX(2)

2440	1 00AF0	0000152F	J	0,BA(FMT)-9	R12 IN
2441	1 00AF1	00001538	J	0,BA(FMT)	R12 OUT
2442	1 00AF2	FFFFFFF A	DATA	-1	RO IN
2443	1 00AF3	FFFFFFF A	DATA	-1	RO OUT
2444	1 00AF4	09001640	J	9,BA(VMT)	R13 IN
2445	1 00AF5	00001649	J	0,BA(VMT)+9	R13 OUT
2446	1 00AF6	00000000 A	DATA	0	R1 IN
2447	1 00AF7	00000000 A	DATA	0	R1 OUT
2448	1 00AF8	3272045C	LW,7	MT1+64,1	FMT
2449	1 00AF9	32D2049C	LW,13	MT2+64,1	VMT/VMTR
2450	1 00AFA	00001070	J	0,BA(MT1)	VMTRCH
2451	1 00AFB	00000009 A	DATA	9	MC
2452					MBS
2453	1 00AFC	FFFFFFF0 A	DATA	-16	COUNT
2454	1 00AFD	61C0000A A	MBS,12	10	INSTRUCTION R12=
2455	1 00AFE	A3200244	K	10,3,2,SETPSW	PSW1 IN
2456	1 00AFF	A3200276	K	10,3,2,L8C+2	PSW1 OUT R13=
2457	1 00B00	0000152E	J	0,BA(FMT)-10	R12 IN
2458	1 00B01	00001538	J	0,BA(FMT)	R12 OUT
2459	1 00B02	01234567 A	DATA	X'1234567'	RO IN
2460	1 00B03	01234567 A	DATA	X'1234567'	RO OUT
2461	1 00B04	0A001640	J	10,BA(VMT)	R13 IN
2462	1 00B05	0000164A	J	0,BA(VMT)+10	R13 OUT
2463	1 00B06	FEDCBA98 A	DATA	X'FEDCBA98'	R1 IN
2464	1 00B07	FEDCBA98 A	DATA	X'FEDCBA98'	R1 OUT
2465	1 00B08	3272045C	LW,7	MT1+64,1	FMT
2466	1 00B09	32D2049C	LW,13	MT2+64,1	VMT/VMTR
2467	1 00B0A	00001070	J	0,BA(MT1)	VMTRCH
2468	1 00B0B	0000000A A	DATA	10	MC
2469					MBS-MOVE ZERO BYTES
2470	1 00B0C	FFFFFFF0 A	DATA	-16	COUNT
2471	1 00B0D	61C00014 A	MBS,12	20	INSTRUCTION R12=
2472	1 00B0E	F1300244	K	15,1,3,SETPSW	PSW1 IN
2473	1 00B0F	F1300276	K	15,1,3,L8C+2	PSW1 OUT R13=
2474	1 00B10	00001524	J	0,BA(FMT)-20	R12 IN
2475	1 00B11	00001524	J	0,BA(FMT)-20	R12 OUT
2476	1 00B12	FFFFFFF A	DATA	-1	RO IN
2477	1 00B13	FFFFFFF A	DATA	-1	RO OUT

SUFFIX(2)							
2478	'1	00B14	00001640	J	0,BA(VMT)	R13 IN	
2479	1	00B15	00001640	J	0,BA(VMT)	R13 OUT	
2480	1	00B16	00000000 A	PZE		R1 IN	
2481	1	00B17	00000000 A	PZE		R1 OUT	
2482	1	00B18	3272045C	LW,7	MT1+64,1	FMT	
2483	1	00B19	32D2049C	LW,13	MT2+64,1	VMT/VMTR	
2484	1	00B1A	00001640	J	0,BA(VMT)	VMTRCH	
2485	1	00B1B	00000000 A	DATA	0	MC	
2486			*			MBS-8DD REGISTER	
2487	1	00B1C	FFFFFFF0 A	DATA	-16	COUNT	
2488	1	00B1D	61DFFEF8 A	MBS,13	-264	INSTRUCTION	R13=
2489	1	00B1E	F0300244	K	15,0,3,SETPSW	PSW1 IN	
2490	1	00B1F	F0300276	K	15,0,3,L8C+2	PSW1 OUT	R14=
2491	1	00B20	00000000 A	DATA	0	R12 IN	
2492	1	00B21	00000000 A	DATA	0	R12 OUT	
2493	1	00B22	FFFFFFF F A	DATA	-1	RO IN	
2494	1	00B23	FFFFFFF F A	DATA	-1	RO OUT	
2495	1	00B24	FF001640	J	X'FF1,BA(VMT)	R13 IN	
2496	1	00B25	0000173F	J	0,BA(VMT)+255	R13 OUT	
2497	1	00B26	00000000 A	DATA	0	R1 IN	
2498	1	00B27	00000000 A	DATA	0	R1 OUT	
2499	1	00B28	3272045C	LW,7	MT1+64,1	FMT	
2500	1	00B29	32D2049C	LW,13	MT2+64,1	VMT/VMTR	
2501	1	00B2A	00001070	J	0,BA(MT1)	VMTRCH	
2502	1	00B2B	000000FF A	DATA	255	MC	
2503			*			MBS-8DD REGISTER	
2504	1	00B2C	FFFFFFF0 A	DATA	-16	COUNT	
2505	1	00B2D	61DFFEF8 A	MBS,13	-264	INSTRUCTION	R13=
2506	1	00B2E	B2000244	K	11,2,0,SETPSW	PSW1 IN	
2507	1	00B2F	B2000276	K	11,2,0,L8C+2	PSW1 OUT	R14=
2508	1	00B30	FFFFFFF F A	DATA	-1	R12 IN	
2509	1	00B31	FFFFFFF F A	DATA	-1	R12 OUT	
2510	1	00B32	FFFFFFF F A	DATA	-1	RO IN	
2511	1	00B33	FFFFFFF F A	DATA	-1	RO OUT	
2512	1	00B34	08001640	J	11,BA(VMT)	R13 IN	
2513	1	00B35	0000164B	J	0,BA(VMT)+11	R13 OUT	
2514	1	00B36	FFFFFFF F A	DATA	-1	R1 IN	
2515	1	00B37	FFFFFFF F A	DATA	-1	R1 OUT	

SUFFIX(2)

2516	1 00B38	3272045C	LW,7	MT1+64,1	FMT
2517	1 00B39	32D2049C	LW,13	MT2+64,1	VMT/VMTR
2518	1 00B3A	00001070	J	0,BA(MT1),	VMTRCH
2519	1 00B3B	0000000B A	DATA	11	MC
2520		*			MBS-REGISTER 0
2521	1 00B3C	FFFFFFFFFF A	DATA	-16	COUNT
2522	1 00B3D	6100153B	MBS,0	BA(FMT)+3	INSTRUCTION
2523	1 00B3E	04000244	K	0,4,0,SETPSW	PSW1 IN
2524	1 00B3F	04000276	K	0,4,0,L8C+2	PSW1 OUT
2525	1 00B40	FFFFFFFF A	DATA	-1	R12 IN
2526	1 00B41	FFFFFFFF A	DATA	-1	R12 OUT
2527	1 00B42	FFFFFFFF A	DATA	-1	RO IN
2528	1 00B43	FFFFFFFF A	DATA	-1	RO OUT
2529	1 00B44	00000000 A	DATA	0	R13 IN
2530	1 00B45	00000000 A	DATA	0	R13 OUT
2531	1 00B46	05001640	J	5,BA(VMT)	R1 IN
2532	1 00B47	00001645	J	0,BA(VMT)+5	R1 OUT
2533	1 00B48	3272045C	LW,7	MT1+64,1	FMT
2534	1 00B49	32D2049C	LW,13	MT2+64,1	VMT/VMTR
2535	1 00B4A	0000129C	J	0,BA(MT4)+36	VMTRCH
2536	1 00B4B	00000005 A	DATA	5	MC
2537		*			MBS-REGISTER 0
2538	1 00B4C	FFFFFFFFFF A	DATA	-16	COUNT
2539	1 00B4D	6100153B	MBS,0	BA(FMT)+3	INSTRUCTION
2540	1 00B4E	C0000244	K	12,0,0,SETPSW	PSW1 IN
2541	1 00B4F	C0000276	K	12,0,0,L8C+2	PSW1 OUT
2542	1 00B50	00000000 A	DATA	0	R12 IN
2543	1 00B51	00000000 A	DATA	0	R12 OUT
2544	1 00B52	00000000 A	DATA	0	RO IN
2545	1 00B53	00000000 A	DATA	0	RO OUT
2546	1 00B54	00000000 A	DATA	0	R13 IN
2547	1 00B55	00000000 A	DATA	0	R13 OUT
2548	1 00B56	0CC01640	J	12,BA(VMT)	R1 IN
2549	1 00B57	0000164C	J	0,BA(VMT)+12	R1 OUT
2550	1 00B58	3272045C	LW,7	MT1+64,1	FMT
2551	1 00B59	32D2049C	LW,13	MT2+64,1	VMT/VMTR
2552	1 00B5A	0000129C	J	0,BA(MT4)+36	VMTRCH
2553	1 00B5B	0000000C A	DATA	12	MC

' SUFFIX(2)

2554						MBS-INDIRECT ADDRESSING-TRAP
2555	1 00B5C	FFFFFFFFFF A	DATA	-16	COUNT	
2556	1 00B5D	E1C002E9 A	DATA	X'E1C002E9'	INSTRUCTION	
2557	1 00B5E	17300185	K	1,7,3,SI9NA8	PSW1 IN	R12 =
2558	1 00B5F	9730006B	K	9,7,3,NEIRET+1	PSW1 OUT	R13 =
2559	1 00B60	00001538	J	0,BA(FMT)	R12 IN	
2560	1 00B61	00001538	J	0,BA(FMT)	R12 OUT	
2561	1 00B62	FFFFFFFFFF A	DATA	-1	RO IN	
2562	1 00B63	FFFFFFFFFF A	DATA	-1	RO OUT	
2563	1 00B64	00001640	J	0,BA(VMT)	R13 IN	
2564	1 00B65	00001640	J	0,BA(VMT)	R13 OUT	
2565	1 00B66	00000000 A	PZE		R1 IN	
2566	1 00B67	00000000 A	PZE		R1 OUT	
2567	1 00B68	3272045C	LW,7	MT1+64,1	FMT	
2568	1 00B69	32D2049C	LW,13	MT2+64,1	VMT/VMTR	
2569	1 00B6A	00001070	J	0,BA(MT1)	VMTRCH	
2570	1 00B6B	00000000 A	DATA	0	MC	
2571					MBS-NBT WORD BOUNDARY-OVERLAP	
2572	1 00B6C	FFFFFFFFFF A	Q DATA	-16	COUNT	
2573	1 00B6D	61C00000 A	MBS,12	0	INSTRUCTION	
2574	1 00B6E	00000244	K	0,0,0,SETPSW	PSW1 IN	R12 =
2575	1 00B6F	00000276	K	0,0,0,LOC+2	PSW1 OUT	R13 =
2576	1 00B70	00001640	J	0,BA(VMT)	R12 IN	
2577	1 00B71	00001648	J	0,BA(VMT)+8	R12 OUT	
2578	1 00B72	FFFFFFFFFF A	C DATA	-1	RO IN	
2579	1 00B73	FFFFFFFFFF A	DATA	-1	RO OUT	
2580	1 00B74	08001642	J	8,BA(VMT)+2	R13 IN	
2581	1 00B75	0000164A	J	0,BA(VMT)+10	R13 OUT	
2582	1 00B76	00000000 A	10 PZE		R1 IN	
2583	1 00B77	00000000 A	11 PZE		R1 OUT	
2584	1 00B78	3272045C	12 LW,7	MT1+64,1	FMT	
2585	1 00B79	32D2045C	13 LW,13	MT1+64,1	VMT/VMTR	
2586	1 00B7A	00C012A0	14 J	0,BA(MT4)+40	VMTRCH	
2587	1 00B7B	0000000C A	15 DATA	12	MC	
2588					CBS	
2589	1 00B7C	FFFFFFFFFF A	DATA	-16	COUNT	
2590	1 00B7D	60C00000 A	CBS,12	0	INSTRUCTION	
2591	1 00B7E	30000244	K	3,0,0,SETPSW	PSW1 IN	

SUFFIX(2)

2592	1 00B7F	00000276	K	0,0,0,L8C+2	PSW1 OUT
2593	1 00B80	00001538	J	0,BA(FMT)	R12 IN
2594	1 00B81	00001637	J	0,BA(FMT)+255	R12 OUT
2595	1 00B82	F0FOFOFO A	DATA	X'FOFOFOFO'	RO IN
2596	1 00B83	F0FOFOFO A	DATA	X'FCFOFOFO'	RO OUT
2597	1 00B84	FF001640	J	X'FF1,BA(VMT)	R13 IN
2598	1 00B85	0000173F	J	0,BA(VMT)+255	R13 OUT
2599	1 00B86	0FOFOFOF A	DATA	X'FOFOFOF'	R1 IN
2600	1 00B87	0FOFOFOF A	DATA	X'FOFOFOF'	R1 OUT
2601	1 00B88	3272045C	LW,7	MT1+64,1	FMT
2602	1 00B89	32D2045C	LW,13	MT1+64,1	VMT/VMTR
2603	1 00B8A	00001070	J	0,BA(MT1)	VMTRCH
2604	1 00B8B	00000000 A	DATA	0	
2605		*			CBS-COMPARE ZERO BYTES
2606	1 00B8C	FFFFFFF0 A	DATA	-16	COUNT
2607	1 00B8D	60C00014 A	CBS,12	20	INSTRUCTION
2608	1 00B8E	37300244	K	3,7,3,SETPSW	PSW1 IN
2609	1 00B8F	07300276	K	0,7,3,L8C+2	PSW1 OUT
2610	1 00B90	00001524	J	0,BA(FMT)-20	R12 IN
2611	1 00B91	00001524	J	0,BA(FMT)-20	R12 OUT
2612	1 00B92	00000000 A	PZE		RO IN
2613	1 00B93	00C00000 A	PZE		RO OUT
2614	1 00B94	00001640	J	0,BA(VMT)	R13 IN
2615	1 00B95	00001640	J	0,BA(VMT)	R13 OUT
2616	1 00B96	FFFFFFF0 A	DATA	-1	R1 IN
2617	1 00B97	FFFFFFF0 A	DATA	-1	R1 OUT
2618	1 00B98	3272045C	LW,7	MT1+64,1	FMT
2619	1 00B99	32D2045C	LW,13	MT1+64,1	VMT/VMTR
2620	1 00B9A	00001070	J	0,BA(MT1)	VMTRCH
2621	1 00B9B	00000000 A	DATA	0	MC
2622		*			CBS-EIGHT BYTE DOESN'T COMPARE
2623	1 00B9C	FFFFFFF0 A	DATA	-16	COUNT
2624	1 00B9D	60C0000D A	CBS,12	13	INSTRUCTION
2625	1 00B9E	E3100244	K	14,3,1,SETPSW	PSW1 INT
2626	1 00B9F	D3100276	K	13,3,1,L8C+2	PSW1 OUT
2627	1 00BA0	0000152B	J	0,BA(FMT)-13	R12 IN
2628	1 00BA1	00001532	J	0,BA(FMT)-6	R12 OUT
2629	1 00BA2	FFFFFFF0 A	DATA	-1	RO IN

SUFFIX(2)			
2630	1 00BA3	FFFFFFFFFF A	DATA -1
2631	1 00BA4	0D001640	J 13, BA(VMT)
2632	1 00BA5	06001647	J 6, BA(VMT)+7
2633	1 00BA6	00000000 A	PZE
2634	1 00BA7	00000000 A	PZE
2635	1 00BA8	3272045C	LW,7 MT1+64,1
2636	1 00BA9	32D204E0	LW,13 MT4+66,1
2637	1 00BAA	C00C1278	J 0, BA(MT4)
2638	1 00BAB	00000000 A	DATA 0
2639		*	CBS-THIRD BYTE DOESN'T COMPARE
2640	1 00BAC	FFFFFFFFFF0 A	DATA -16
2641	1 00BAD	60C00000 A	CBS,12 0
2642	1 00BAE	02200244	K 0,2,2,SETPSW
2643	1 00BAF	12200276	K 1,2,2,L0C+2
2644	1 00BA0	0000C1538	J 0, BA(FMT)
2645	1 00BA1	0000C153A	J 0, BA(FMT)+2
2646	1 00BA2	00000000 A	PZE
2647	1 00BA3	00C00000 A	PZE
2648	1 00BA4	FF001640	J X'FF!, BA(VMT)
2649	1 00BA5	FD001642	J 253, BA(VMT)+2
2650	1 00BA6	FFFFFFFFFF A	DATA -1
2651	1 00BA7	FFFFFFFFFF F	DATA -1
2652	1 00BA8	3272045C	LW,7 MT1+64,1
2653	1 00BA9	32D204E0	LW,13 MT4+66,1
2654	1 00BAA	00001280	J 0, BA(MT4)+8
2655	1 00BAB	00000000 A	DATA 0
2656		*	CBS-SECOND BYTE DOESN'T COMPARE
2657	1 00BBC	FFFFFFFFFF0 A	DATA -16
2658	1 00BCD	60C00000 A	CBS,12 0
2659	1 00BBE	F7000244	K 15,7,0,SETPSW
2660	1 00BBF	D7000276	K 13,7,0,L0C+2
2661	1 00BC0	0000C1538	J 0, BA(FMT)
2662	1 00BC1	0C00C1539	J 0, BA(FMT)+1
2663	1 00BC2	FFFFFFFFFF F	DATA -1
2664	1 00BC3	FFFFFFFFFF F	DATA -1
2665	1 00BC4	FF001640	J X'FF!, BA(VMT)
2666	1 00BC5	FE001641	J 254, BA(VMT)+1
2667	1 00BC6	00000000 A	PZE
			R0 BUT
			R13 IN
			R13 BUT
			R1 IN
			R1 BUT
			FMT
			VMT/VMTR
			VMTRCH
			COUNT
			INSTRUCTION
			PSW1 IN
			PSW1 BUT
			R12 IN
			R12 BUT
			RO IN
			RO BUT
			R13 IN
			R13 BUT
			R1 IN
			MC
			COUNT
			INSTRUCTION
			PSW1 IN
			PSW1 BUT
			R12 IN
			R12 BUT
			RO IN
			RO BUT
			R13 IN
			R13 BUT
			R1 IN

SUFFIX(2)			
2668	1 00BC7	00000000 A	PZE
2669	1 00BC8	3272045C	LW,7 MT1+64,1
2670	1 00BC9	32D204E1	LW,13 MT4+67,1
2671	1 00BCA	00001284	J 0,BA(MT4)+12
2672	1 00BCB	00000000 A	DATA 0
2673		*	CBS-FIRST BYTE DOESN'T COMPARE
2674	1 00BCC	FFFFFFFFFF A	DATA -16
2675	1 00BCD	60C00000 A	CBS,12 0
2676	1 00BCE	10300244	K 1,0,3,SETPSW
2677	1 00BCF	10300276	K 1,0,3,L0C+2
2678	1 00BC0	00001538	J 0,BA(FMT)
2679	1 00BD1	00001538	J 0,BA(FMT)
2680	1 00BD2	00000000 A	PZE
2681	1 00BD3	00000000 A	PZE
2682	1 00BD4	01001640	J 1,BA(VMT)
2683	1 00BD5	01001640	J 1,BA(VMT)
2684	1 00BD6	FFFFFFFFFF A	DATA -1
2685	1 00BD7	FFFFFFFFFF A	DATA -1
2686	1 00BD8	3272045C	LW,7 MT1+64,1
2687	1 00BD9	32D204E2	LW,13 MT4+68,1
2688	1 00BDA	00001288	J 0,BA(MT4)+16
2689	1 00BDB	00000000 A	DATA 0
2690		*	CBS-FOURTH BYTE DOESN'T COMPARE
2691	1 00BDC	FFFFFFFFFF A	DATA -16
2692	1 00BDD	60C00000 A	CBS,12 0
2693	1 00BDE	D0000244	K 13,0,0,SETPSW
2694	1 00BDF	E0000276	K 14,0,0,L0C+2
2695	1 00BE0	00001538	J 0,BA(FMT)
2696	1 00BE1	00001538	J 0,BA(FMT)+3
2697	1 00BE2	FFFFFFFFFF A	DATA -1
2698	1 00BE3	FFFFFFFFFF A	DATA -1
2699	1 00BE4	04001640	J 4,BA(VMT)
2700	1 00BE5	01001643	J 1,BA(VMT)+3
2701	1 00BE6	00000C00 A	PZE
2702	1 00BE7	00000000 A	PZE
2703	1 00BE8	3272045C	LW,7 MT1+64,1
2704	1 00BE9	32D204E3	LW,13 MT4+69,1
2705	1 00BEA	0000128C	J 0,BA(MT4)+20

SUFFIX(2)			
		DATA	0
2706	1 00BEB	00000000 A	*
2707			
2708	1 00BEC	FFFFFFFFFF A	DATA -16
2709	1 00BED	60C00000 A	CBS,12 0
2710	1 00BEE	10000244	K 1,0,0,SETPSW
2711	1 00BEF	20000276	K 2,0,0,L8C+2
2712	1 00BF0	00001538	J 0,BA(FMT)
2713	1 00BF1	0000153A	J 0,BA(FMT)+2
2714	1 00BF2	00000000 A	PZE
2715	1 00BF3	00000000 A	PZE
2716	1 00BF4	04001640	J 4,BA(VMT)
2717	1 00BF5	02001642	J 2,BA(VMT)+2
2718	1 00BF6	FFFFFFFFFF A	DATA -1
2719	1 00BF7	FFFFFFFFFF A	DATA -1
2720	1 00BF8	3272045C	LW,7 MT1+64,1
2721	1 00BF9	32D204E4	LW,13 MT4+70,1
2722	1 00BFA	00001290	J 0,BA(MT4)+24
2723	1 00BFB	00000000 A	DATA 0
2724			*
2725	1 00BFC	FFFFFFFFFF A	DATA -16
2726	1 00BFD	60C00000 A	CBS,12 0
2727	1 00BFE	30000244	K 3,0,0,SETPSW
2728	1 00BFF	20000276	K 2,0,0,L8C+2
2729	1 00C00	00001538	J 0,BA(FMT)
2730	1 00C01	00001539	J 0,BA(FMT)+1
2731	1 00C02	FFFFFFFFFF A	DATA -1
2732	1 00C03	FFFFFFFFFF A	DATA -1
2733	1 00C04	04001640	J 4,BA(VMT)
2734	1 00C05	03001641	J 3,BA(VMT)+1
2735	1 00C06	00000000 A	PZE
2736	1 00C07	00000000 A	PZE
2737	1 00C08	3272045C	LW,7 MT1+64,1
2738	1 00C09	32D204E5	LW,13 MT4+71,1
2739	1 00C0A	00001294	J 0,BA(MT4)+28
2740	1 00C0B	00000000 A	DATA 0
2741			*
2742	1 00C0C	FFFFFFFFFF A	DATA -16
2743	1 00C0D	60C00000 A	CBS,12 0

CBS-THIRD BYTE DOESN'T COMPARE

COUNT

INSTRUCTION

PSW IN

PSW1 OUT

R12 IN

R12 OUT

R0 IN

R0 OUT

R13 IN

R13 OUT

R1 IN

R1 OUT

FMT

VMT/VMTR

VMTRCH

RC

CBS-SECOND BYTE DOESN'T COMPARE

COUNT

INSTRUCTION

PSW1 IN

PSW1 OUT

R12 IN

R12 OUT

R0 IN

R0 OUT

R13 IN

R13 OUT

R1 IN

R1 OUT

FMT

VMT/VMTR

VMTRCH

RC

CBS-FIRST BYTE DOESN'T COMPARE

COUNT

INSTRUCTION

SUFFIX(2)

2,44	1	00C0E	20000244	K	2,0,0,SETPSW	PSW1 IN
2745	1	00C0F	20000276	K	2,0,0,L8C+2	PSW1 OUT
2746	1	00C10	00001538	J	0,BA(FMT)	R12 IN
2747	1	00C11	00001538	J	0,BA(FMT)	R12 OUT
2748	1	00C12	00000000 A	PZE		RO IN
2749	1	00C13	00000000 A	PZE		RO OUT
2750	1	00C14	04001640	J	4,BA(VMT)	R13 IN
2751	1	00C15	04001640	J	4,BA(VMT)	R13 OUT
2752	1	00C16	FFFFFFFFFF A	DATA	-1	R1 IN
2753	1	00C17	FFFFFFFFFF A	DATA	-1	R1 OUT
2754	1	00C18	3272045C	LW,7	MT1+64,1	FMT
2755	1	00C19	32D204E6	LW,13	MT4+72,1	VMT/VMTR
2756	1	00C1A	00001298	J	0,BA(MT4)+32	VMTRCH
2757	1	00C1B	00000000 A	DATA	0	RC
2758	*					CBS-REGISTER 0
2759	1	00C1C	FFFFFFFFFF A	DATA	-16	COUNT
2760	1	00C1D	60001538	CBS,0	BA(FMT)+3	INSTRUCTION
2761	1	00C1E	F0000244	K	15,0,0,SETPSW	PSW1 IN
2762	1	00C1F	C0000276	K	12,0,0,L8C+2	PSW1 OUT
2763	1	00C20	00000000 A	DATA	0	R12 IN
2764	1	00C21	00000000 A	DATA	0	R12 OUT
2765	1	00C22	00000000 A	DATA	0	RO IN
2766	1	00C23	00000000 A	DATA	0	RO OUT
2767	1	00C24	FFFFFFFFFF A	DATA	-1	R13 IN
2768	1	00C25	FFFFFFFFFF A	DATA	-1	R13 OUT
2769	1	00C26	04001640	J	4,BA(VMT)	R1 IN
2770	1	00C27	00001644	J	0,BA(VMT)+4	RU OUT
2771	1	00C28	3272045C	LW,7	MT1+64,1	FMT
2772	1	00C29	32D2045C	LW,13	MT1+64,1	VMT/VMTR
2773	1	00C2A	00000F20	J	0,BA(TABLE)+64	VMTRCH
2774	1	00C2B	00000000 A	DATA	0	MC
2775	*					CBS-INDIRECT ADDRESSING-TRAP
2776	1	00C2C	FFFFFFFFFF A	DATA	-16	COUNT
2777	1	00C2D	E0C002E9 A	DATA	X'E0C002E9'	INSTRUCTION
2778	1	00C2E	07300185	K	0,7,3,SIGNAB	PSW1 IN
2779	1	00C2F	8730006B	K	8,7,3,NEIRET+1	PSW1 OUT
2780	1	00C30	00001538	J	0,BA(FMT)	R12 IN
2781	1	00C31	00001538	J	0,BA(FMT)	R12 OUT

SUFFIX(2)					
2782	1 00C32	00000000 A	PZE		RO IN
2783	1 00C33	00000000 A	PZE		RO OUT
2784	1 00C34	04C01640	J	4,BA(VMT)	R13 IN
2785	1 00C35	04001640	J	4,BA(VMT)	R13 OUT
2786	1 00C36	FFFFFFFFFF A	DATA	-1	R1 IN
2787	1 00C37	FFFFFFFFFF A	DATA	-1	R1 OUT
2788	1 00C38	3272045C	LW,7	MT1+64,1	FMT
2789	1 00C39	32C2045C	LW,13	MT1+64,1	VMT/VMTR
2790	1 00C3A	00001070	J	0,BA(MT1)	VMTRCH
2791	1 00C3B	00000000 A	DATA	0	MC
2792		*			CBS-WORD BOUNDARY-OVERLAP
2793	1 00C3C	FFFFFFFFFF0 A	DATA	-16	COUNT
2794	1 00C3D	60C00008 A	CBS,12	8	INSTRUCTION
2795	1 00C3E	00000244	K	0,0,0,SETPSW	PSW1 IN
2796	1 00C3F	20000276	K	2,0,0,L0C+2	PSW1 OUT
2797	1 00C40	00001640	J	0,BA(VMT)	R12 IN
2798	1 00C41	00001678	J	0,BA(VMT)+56	R12 OUT
2799	1 00C42	00000000 A	PZE		RO IN
2800	1 00C43	00000000 A	PZE		RO OUT
2801	1 00C44	40001640	J	64,BA(VMT)	R13 IN
2802	1 00C45	08001678	J	8,BA(VMT)+56	R13 OUT
2803	1 00C46	FFFFFFFFFF A	DATA	-1	R1 IN
2804	1 00C47	FFFFFFFFFF A	DATA	-1	R1 OUT
2805	1 00C48	3272045C	LW,7	MT1+64,1	FMT
2806	1 00C49	32C2044C	LW,13	RT3+64,1	VMT/VMTR
2807	1 00C4A	00001030	J	0,BA(RT3)	VMTRCH
2808	1 00C4B	00000000 A	DATA	0	MC
2809		*			TBS
2810	1 00C4C	FFFFFFFFFF0 A	DATA	-16	COUNT
2811	1 00C4D	41C00000 A	TBS,12	0	INSTRUCTION
2812	1 00C4E	F7300244	K	15,7,3,SETPSW	PSW1 IN
2813	1 00C4F	F7300276	K	15,7,3,L0C+2	PSW1 OUT
2814	1 00C50	00001538	J	0,BA(FMT)	R12 IN
2815	1 00C51	00001538	J	0,BA(FMT)	R12 OUT
2816	1 00C52	0F0FOFOF A	DATA	X'FOFOFOF'	RO IN
2817	1 00C53	0F0FOFOF A	DATA	X'FOFOFOF'	RO OUT
2818	1 00C54	FF001640	J	X'FF!,BA(VMT)	R13 IN
2819	1 00C55	0000173F	J	0,BA(VMT)+255	R13 OUT

			SUFFIX(2)			
2820	1	00C56	F0F0F0F0 A	DATA	X'F0F0F0F0'	R1 IN
2821	1	00C57	F0F0F0F0 A	DATA	X'F0F0F0F0'	R1 OUT
2822	1	00C58	3272045C	LW,7	MT1+64,1	FMT
2823	1	00C59	32D204EC	LW,13	MT3+64,1	VMT/VMTR
2824	1	00C5A	00001070	J	0,BA(MT1)	VMTRCH
2825	1	00C5B	000000FF A	DATA	255	MC
2826	*					TBS-TRANSLATE ZERO BYTES
2827	1	00C5C	FFFFFFF0 A	DATA	-16	COUNT
2828	1	00C5D	41C00000 A	TBS,12	0	INSTRUCTION
2829	1	00C5E	A3000244	K	10,3,0,SETPSW	PSW1 IN
2830	1	00C5F	A3000276	K	10,3,0,LBC+2	PSW1 OUT
2831	1	00C60	00001538	J	0,BA(FMT)	R12 IN
2832	1	00C61	00001538	J	0,BA(FMT)	R12 OUT
2833	1	00C62	00000000 A	PZE		RO IN
2834	1	00C63	00000000 A	PZE		RO OUT
2835	1	00C64	00001640	J	0,BA(VMT)	R13 IN
2836	1	00C65	00001640	J	0,BA(VMT)	R13 OUT
2837	1	00C66	FFFFFFF0 A	DATA	-1	R1 IN
2838	1	00C67	FFFFFFF0 A	DATA	-1	R1 OUT
2839	1	00C68	3272045C	LW,7	MT1+64,1	FMT
2840	1	00C69	32D204EC	LW,13	MT3+64,1	VMT/VMTR
2841	1	00C6A	00001070	J	0,BA(MT1)	VMTRCH
2842	1	00C6B	00000000 A	DATA	0	MC
2843	*					TBS-TRANSLATE ONE BYTE
2844	1	00C6C	FFFFFFF0 A	DATA	-16	COUNT
2845	1	00C6D	41C00020 A	TBS,12	32	INSTRUCTION
2846	1	00C6E	50300244	K	5,0,3,SETPSW	PSW1 IN
2847	1	00C6F	50300276	K	5,0,3,LBC+2	PSW1 OUT
2848	1	00C70	00001518	J	0,BA(FMT)-32	R12 IN
2849	1	00C71	00001518	J	0,BA(FMT)-32	R12 OUT
2850	1	00C72	FFFFFFF0 A	DATA	-1	RO IN
2851	1	00C73	FFFFFFF0 A	DATA	-1	RO OUT
2852	1	00C74	01C01640	J	1,BA(VMT)	R13 IN
2853	1	00C75	00001641	J	0,BA(VMT)+1	R13 OUT
2854	1	00C76	00000000 A	PZE		R1 IN
2855	1	00C77	00000000 A	PZE		R1 OUT
2856	1	00C78	3272045C	LW,7	MT1+64,1	FMT
2857	1	00C79	32D204EC	LW,13	MT3+64,1	VMT/VMTR

SUFFIX(2)					
2858	1	00C7A	00001070	J	0,BA(MT1)
2859	1	00C7B	00000001 A	DATA	1
2860			*		
2861	1	00C7C	FFFFFFFFFF A	DATA	-16
2862	1	00C7D	41CFFFFFF A	TBS,12	-6
2863	1	00C7E	02200244	K	0,2,2,SETPSW
2864	1	00C7F	02200276	K	0,2,2,L0C+2
2865	1	00C80	0000153E	J	0,BA(FMT)+6
2866	1	00C81	0000153E	J	0,BA(FMT)+6
2867	1	00C82	00000000 A	PZE	
2868	1	00C83	00000000 A	PZE	
2869	1	00C84	02001640	J	2,BA(VMT)
2870	1	00C85	00001642	J	0,BA(VMT)+2
2871	1	00C86	FFFFFFFFFF A	DATA	-1
2872	1	00C87	FFFFFFFFFF A	DATA	-1
2873	1	00C88	3272045C	LW,7	MT1+64,1
2874	1	00C89	32D204EC	LW,13	MT3+64,1
2875	1	00C8A	00001070	J	0,BA(MT1)
2876	1	00C8B	00000002 A	DATA	2
2877			*		
2878	1	00C8C	FFFFFFFFFF A	DATA	-16
2879	1	00C8D	41C00000 A	TBS,12	0
2880	1	00C8E	01100244	K	0,1,1,SETPSW
2881	1	00C8F	01100276	K	0,1,1,L0C+2
2882	1	00C90	00001538	J	0,BA(FMT)
2883	1	00C91	00001538	J	0,BA(FMT)
2884	1	00C92	FFFFFFFFFF A	DATA	-1
2885	1	00C93	FFFFFFFFFF A	DATA	-1
2886	1	00C94	03001640	J	3,BA(VMT)
2887	1	00C95	00001643	J	0,BA(VMT)+3
2888	1	00C96	00000000 A	PZE	
2889	1	00C97	00000000 A	PZE	
2890	1	00C98	3272045C	LW,7	MT1+64,1
2891	1	00C99	32D204EC	LW,13	MT3+64,1
2892	1	00C9A	00001070	J	0,BA(MT1)
2893	1	00C9B	00000003 A	DATA	3
2894			*		
2895	1	00C9C	FFFFFFFFFF A	DATA	-16

TBS- TRANSLATE TWO BYTES
COUNT
INSTRUCTION
PSW1 IN
PSW1 OUT
R12 IN
R12 OUT
R0 IN
R0 OUT
R13 IN
R13 OUT
R1 IN
R1 OUT
FMT
VMT/VMTR
VMTRCH
MC
TBS- TRANSLATE THREE BYTES
COUNT
INSTRUCTION
PSW1 IN
PSW1 OUT
R12 IN
R12 OUT
R0 IN
R0 OUT
R13 IN
R13 OUT
R1 IN
R1 OUT
FMT
VMT/VMTR
VMTRCH
MC
TBS- TRANSLATE FOURBYTES
COUNT

			SUFFIX(2)			
2896	1	00C9D	41C00000 A	TBS,12	0	INSTRUCTION
2897	1	00C9E	F0000244	K	15,0,0,SETPSW	PSW1 IN
2898	1	00C9F	F0000276	K	15,0,0,LBC+2	PSW1 OUT
2899	1	00CA0	00001538	J	0,BA(FMT)	R12 IN
2900	1	00CA1	00001538	J	0,BA(FMT)	R12 OUT
2901	1	00CA2	00000000 A	PZE		RO IN
2902	1	00CA3	00000000 A	PZE		RO OUT
2903	1	00CA4	04001640	J	4,BA(VMT)	R13 IN
2904	1	00CA5	00001644	J	0,BA(VMT)+4	R13 OUT
2905	1	00CA6	FFFFFFFFFF A	DATA	-1	R1 IN
2906	1	00CA7	FFFFFFFFFF A	DATA	-1	R1 OUT
2907	1	00CA8	3272045C	LW,7	MT1+64,1	FMT
2908	1	00CA9	32D204EC	LW,13	MT3+64,1	VMT/VMTR
2909	1	00CAA	00001070	J	0,BA(MT1)	VMTRCH
2910	1	00CAB	00000004 A	DATA	4	MC
2911	*					TBS-TRANSLATE FIVE BYTES
2912	1	00CAC	FFFFFFFFFF A	DATA	-16	COUNT
2913	1	00CAD	41C00000 A	TBS,12	0	INSTRUCTION
2914	1	00CAE	10000244	K	1,0,0,SETPSW	PSW1 IN
2915	1	00CAF	10000276	K	1,0,0,LBC+2	PSW1 OUT
2916	1	00CB0	00001538	J	0,BA(FMT)	R12 IN
2917	1	00CB1	00001538	J	0,BA(FMT)	R12 OUT
2918	1	00CB2	FFFFFFFFFF A	DATA	-1	RO IN
2919	1	00CB3	FFFFFFFFFF A	DATA	-1	RO OUT
2920	1	00CB4	05001640	J	5,BA(VMT)	R13 IN
2921	1	00CB5	00001645	J	0,BA(VMT)+5	R13 OUT
2922	1	00CB6	00000000 A	PZE		R1 IN
2923	1	00CB7	00000000 A	PZE		R1 OUT
2924	1	00CB8	3272045C	LW,7	MT1+64,1	FMT
2925	1	00CB9	32D204EC	LW,13	MT3+64,1	VMT/VMTR
2926	1	00CBA	00001070	J	0,BA(MT1)	VMTRCH
2927	1	00CBB	00000005 A	DATA	5	MC
2928	*					TBS-TRANSLATE SIX BYTES
2929	1	00CBC	FFFFFFFFFF A	DATA	-16	COUNT
2930	1	00CBD	41C00000 A	TBS,12	0	INSTRUCTION
2931	1	00CBE	20000244	K	2,0,0,SETPSW	PSW1 IN
2932	1	00CBF	20000276	K	2,0,0,LBC+2	PSW1 OUT
2933	1	00CC0	00001538	J	0,BA(FMT)	R12 IN

SUFFIX(2)				
2934	1 00CC1	00001538	J 0,BA(FMT)	R12 OUT
2935	1 00CC2	00000000 A	PZE	RO IN
2936	1 00CC3	00000000 A	PZE	RO OUT
2937	1 00CC4	06001640	J 6,BA(VMT)	R13 IN
2938	1 00CC5	00001646	J 0,BA(VMT)+6	R13 OUT
2939	1 00CC6	FFFFFFFFFF A	DATA -1	R1 IN
2940	1 00CC7	FFFFFFFFFF A	DATA -1	R1 OUT
2941	1 00CC8	3272045C	LW,7 MT1+64,1	FMT
2942	1 00CC9	32D204EC	LW,13 MT3+64,1	VMT/VMTR
2943	1 00CCA	00001070	J 0,BA(MT1)	VMTRCH
2944	1 00CCB	00000006 A	DATA 6	MC
2945				TBS-TRANSLATE SEVEN BYTES
2946	1 00CCC	FFFFFFFFFF A	DATA -16	COUNT
2947	1 00CCD	41C00000 A	TBS,12 0	INSTRUCTION
2948	1 00CCE	40000244	K 4,0,0,SETPSW	PSW1 IN
2949	1 00CCF	40000276	K 4,0,0,L0C+2	PSW1 OUT
2950	1 00CD0	00001538	J 0,BA(FMT)	R12 IN
2951	1 00CD1	00001538	J 0,BA(FMT)	R12 OUT
2952	1 00CD2	FFFFFFFFFF A	DATA -1	RO IN
2953	1 00CD3	FFFFFFFFFF A	DATA -1	RO OUT
2954	1 00CD4	07001640	J 7,BA(VMT)	R13 IN
2955	1 00CD5	00001647	J 0,BA(VMT)+7	R13 OUT
2956	1 00CD6	00000000 A	PZE	R1 IN
2957	1 00CD7	00000000 A	PZE	R1 OUT
2958	1 00CD8	3272045C	LW,7 MT1+64,1	FMT
2959	1 00CD9	32D204EC	LW,13 MT3+64,1	VMT/VMTR
2960	1 00CDA	00001070	J 0,BA(MT1)	VMTRCH
2961	1 00CDB	00000007 A	DATA 7	MC
2962				TBS-TRANSLATE EIGHT BYTES
2963	1 00CDC	FFFFFFFFFF A	DATA -16	COUNT
2964	1 00CDD	41C00000 A	TBS,12 0	PSW1 IN
2965	1 00CDE	80000244	K 8,0,0,SETPSW	PSW1 OUT
2966	1 00CDF	80000276	K 8,0,0,L0C+2	R12 IN
2967	1 00CFO	00001538	J 0,BA(FMT)	R12 OUT
2968	1 00CE1	00001538	J 0,BA(FMT)	RO IN
2969	1 00CE2	00000000 A	PZE	RO OUT
2970	1 00CE3	00000000 A	PZE	R13 IN
2971	1 00CE4	08001640	J 8,BA(VMT)	

SUFFIX(2)					
2972	1 00CES	00001648	J	0,BA(VMT)+8	R13 OUT
2973	1 00CE6	FFFFFFFFFF A	DATA	-1	R1 IN
2974	1 00CE7	FFFFFFFFFF A	DATA	-1	R1 OUT
2975	1 00CE8	3272045C	LW,7	MT1+64,1	FMT
2976	1 00CE9	32D204EC	LW,13	MT3+64,1	VMT/VMTR
2977	1 00CEA	00001070	J	0,BA(MT1)	MVTRCH
2978	1 00CEB	00000008 A	DATA	8	MC
2979					TBS-REGISTER 0
2980	1 00CEC	FFFFFFFFFF0 A	DATA	-16	COUNT
2981	1 00CED	41001538	TBS,0	BA(FMT)	INSTRUCTION
2982	1 00CEE	00000244	K	0,0,0,SETPSW	PSW1 IN
2983	1 00CEF	00000276	K	0,0,0,LBC+2	PSW1 OUT
2984	1 00CF0	FOFOFOFO A	DATA	X'FOFOFOFO'	R12 IN
2985	1 00CF1	FCFOFOFO A	DATA	X'FOFOFOFO'	R12 OUT
2986	1 00CF2	FOFOFOFO A	DATA	X'FOFOFOFO'	RO IN
2987	1 00CF3	FOFOFOFO A	DATA	X'FOFOFOFO'	RO OUT
2988	1 00CF4	OFOFOFOF A	DATA	X'FOFOFOCF'	R13 IN
2989	1 00CF5	OFOFOFOF A	DATA	X'FOFOFOF'	R13 OUT
2990	1 00CF6	FF001640	J	X'FF!,BA(VMT)	R1 IN
2991	1 00CF7	0000173F	J	0,BA(VMT)+255	R1 OUT
2992	1 00CF8	3272045C	LW,7	MT1+64,1	FMT
2993	1 00CF9	32D204EC	LW,13	MT3+64,1	VMT/VMTR
2994	1 00CFA	00001070	J	0,BA(MT1)	VMTRCH
2995	1 00CFB	000000FF A	DATA	255	MC
2996					TBS-INDIRECT ADDRESSING=TRAP
2997	1 00CFC	FFFFFFFFFF0 A	DATA	-16	COUNT
2998	1 00CFD	C1C002E9 A	DATA	X'C1C002E9'	INSTRUCTION
2999	1 00CFE	07300185	K	0,7,3,SIGNAB	PSW1 IN
3000	1 00cff	8730006B	K	8,7,3,NEIRET+1	PSW1 OUT
3001	1 00D00	00001538	J	0,BA(FMT)	R12 IN
3002	1 00D01	00001538	J	0,BA(FMT)	R12 OUT
3003	1 00D02	FOFOFOFO A	DATA	X'FOFOFOFO'	RO IN
3004	1 00D03	FOFOFOFO A	DATA	X'FOFOFOFO'	RO OUT
3005	1 00D04	00001640	J	0,BA(VMT)	R13 IN
3006	1 00D05	00001640	J	0,BA(VMT)	R13 OUT
3007	1 00D06	OFOFOFOF A	DATA	X'FOFCFOF'	R1 IN
3008	1 00D07	OFOFOFOF A	DATA	X'FOFOFOF'	R1 OUT
3009	1 00D08	3272045C	LW,7	MT1+64,1	FMT

			SUFFIX(2)		
3010	1 00D09	32D204EC	L,13	MT3+64,1	VMT/VMTR
3011	1 00D0A	00001070	J	0,BA(MT1)	VMTRCH
3012	1 00D0B	00000000 A	DATA	0	MC
3013					TTBS
3014	1 00D0C	FFFFFFFFFF A	DATA	-16	COUNT
3015	1 00D0D	40C00000 A	TTBS,12	0	INSTRUCTION
3016	1 00D0E	27300244	K	2,7,3,SETPSW	PSW1 IN
3017	1 00D0F	27300276	K	2,7,3,L0C+2	PSW1 OUT
3018	1 00D10	00001538	J	0,BA(FMT)	R12 IN
3019	1 00D11	00001538	J	0,BA(FMT)	R12 OUT
3020	1 00D12	00000000 A	PZE		RO IN
3021	1 00D13	00000000 A	PZE		RO OUT
3022	1 00D14	FF001640	J	X'FF',BA(VMT)	R13 IN
3023	1 00D15	0000173F	J	0,BA(VMT)+255	R13 OUT
3024	1 00D16	FFFFFFFFFF A	DATA	-1	R1 IN
3025	1 00D17	FFFFFFFFFF A	DATA	-1	R1 OUT
3026	1 00D18	3272045C	LW,7	MT1+64,1	FMT
3027	1 00D19	32D204EC	LW,13	MT3+64,1	VMT/VMTR
3028	1 00D1A	000012B0	J	0,BA(MT3)	VMTRCH
3029	1 00D1B	00000000 A	DATA	0	
3030					TTBS-REGISTER ZERO
3031	1 00D1C	FFFFFFFFFF A	DATA	-16	COUNT
3032	1 00D1D	40001538	TTBS,0	BA(FMT)	INSTRUCTION
3033	1 00D1E	F0300244	K	15,0,3,SETPSW	PSW1 IN
3034	1 00D1F	E0300276	K	14,0,3,L0C+2	PSW1 OUT
3035	1 00D20	F0FOFOFO A	DATA	X'FOFOFOFO'	R12 IN
3036	1 00D21	FCFOFOFO A	DATA	X'FOFOFOFO'	R12 OUT
3037	1 00D22	OFCFOFOF A	DATA	X'FOFOFOF'	RO IN
3038	1 00D23	OFOFCFOF A	DATA	X'FOFOFOF'	RO OUT
3039	1 00D24	OFOFOFOF A	DATA	X'FOFOFOF'	R13 IN
3040	1 00D25	OFOFOFOF A	DATA	X'FOFOFOF'	R13 OUT
3041	1 00D26	FF001640	J	X'FF',BA(VMT)	R1 IN
3042	1 00D27	0000173F	J	0,BA(VMT)+255	R1 OUT
3043	1 00D28	22700000 A	LI,7	0	FMT
3044	1 00D29	32D204EC	LW,13	MT3+64,1	VMT/VMTR
3045	1 00D2A	000012B0	J	0,BA(MT3)	VMTRCH
3046	1 00D2B	00000000 A	DATA	0	MC
3047					TTBS-REGISTER ZERO

SUFFIX(2)			
3048	1 0002C	FFFFFFFFFF A	DATA -16
3049	1 0002D	40001538	TTBS,0 BA(FMT)
3050	1 0002E	E7200244	K 14,7,2,SETPSW
3051	1 0002F	F7200276	K 15,7,2,L0C+2
3052	1 00030	FFFFFFFFFF A	DATA -1
3053	1 00031	FFFFFFFFFF A	DATA -1
3054	1 00032	00000000 A	PZE
3055	1 00033	00000000 A	PZE
3056	1 00034	00000000 A	PZE
3057	1 00035	00000000 A	PZE
3058	1 00036	FF001640	J X'FF!,BA(VMT)
3059	1 00037	FC001643	J X'FC!,BA(VMT)+3
3060	1 00038	227000FF A	LW,7 X'FF!
3061	1 00039	32D204EC	LW,13 MT3+64,1
3062	1 0003A	000012B0	J 0,BA(MT3)
3063	1 0003B	00000000 A	DATA 0
3064	*		TTBS-BIT 31 COMPARES-FIRST WORD
3065	1 0003C	FFFFFFFFFF A	COUNT
3066	1 0003D	40C00000 A	INSTRUCTION
3067	1 0003E	03100244	PSW1 IN
3068	1 0003F	13100276	PSW1 OUT
3069	1 00040	FF00152E	J X'FF!,BA(FMT)-10
3070	1 00041	0100152E	J 1,BA(FMT)-10
3071	1 00042	FFFFFFFFFF A	DATA -1
3072	1 00043	FFFFFFFFFF A	DATA -1
3073	1 00044	04001640	J 4,BA(VMT)
3074	1 00045	01001643	J 1,BA(VMT)+3
3075	1 00046	00000000 A	PZE
3076	1 00047	00000000 A	PZE
3077	1 00048	3272049C	LW,7 MT2+64,1
3078	1 00049	32D204EC	LW,13 MT3+64,1
3079	1 0004A	000012B0	J 0,BA(MT3)
3080	1 0004B	00000000 A	DATA 0
3081	*		TTBS-BIT 30 COMPARES-SECOND WORD
3082	1 0004C	FFFFFFFFFF A	COUNT
3083	1 0004D	40C00000 A	INSTRUCTION
3084	1 0004E	11100244	PSW1 IN
3085	1 0004F	11100276	PSW1 OUT

SUFFIX(2)			
3086	1 00D50	FE001538	J X'FE',BA(FMT)
3087	1 00D51	C2C01538	J 2,BA(FMT)
3088	1 00D52	00000000 A	PZE
3089	1 00D53	00000000 A	PZE
3090	1 00D54	08001640	J 8,BA(VMT)
3091	1 00D55	01001647	J 1,BA(VMT)+7
3092	1 00D56	FFFFFFFFFF A	DATA -1
3093	1 00D57	FFFFFFFFFF A	DATA -1
3094	1 00D58	3272049C	LW,7 MT2+64,1
3095	1 00D59	32D204EC	LW,13 MT3+64,1
3096	1 00D5A	000012B0	J 0,BA(MT3)
3097	1 00D5B	00000000 A	DATA 0
3098		*	TTBS-BIT 29 COMPARES-THIRD WORD
3099	1 00D5C	FFFFFFFFFF0 A	DATA -16
3100	1 00D5D	40C00000 A	TTBS,12 0
3101	1 00D5E	00000244	K 0,0,0,SETPSW
3102	1 00D5F	10000276	K 1,0,0,LBC+2
3103	1 00D60	FC001538	J X'FC',BA(FMT)
3104	1 00D61	04001538	J 4,BA(FMT)
3105	1 00D62	FFFFFFFFFF A	DATA -1
3106	1 00D63	FFFFFFFFFF A	DATA -1
3107	1 00D64	0CC01640	J (12,BA(VMT)
3108	1 00D65	0100164B	J 1,BA(VMT)+11
3109	1 00D66	000C0000 A	PZE
3110	1 00D67	00000000 A	PZE
3111	1 00D68	3272049C	LW,7 MT2+64,1
3112	1 00D69	32D204EC	LW,13 MT3+64,1
3113	1 00D6A	000012B0	J 0,BA(MT3)
3114	1 00D6B	00000000 A	DATA 0
3115		*	TTBS-BIT 28 COMPARES-FOURTH WORD
3116	1 00D6C	FFFFFFFFFF0 A	DATA -16
3117	1 00D6D	40C00000 A	TTBS,12 0
3118	1 00D6E	F0000244	K 15,0,0,SETPSW
3119	1 00D6F	F0000276	K 15,0,0,LBC+2
3120	1 00D70	58001538	J X'58',BA(FMT)
3121	1 00D71	08001538	J 8,BA(FMT)
3122	1 00D72	00000000 A	PZE
3123	1 00D73	00000000 A	PZE

SUFFIX(2)

3124	1 00074	10001640	J	16,BA(VMT)	R13 IN
3125	1 00075	0100164F	J	1,BA(VMT)+15	R13 OUT
3126	1 00076	FFFFFFF A	DATA	-1	R1 IN
3127	1 00077	FFFFFFF A	DATA	-1	R1 OUT
3128	1 00078	3272049C	LW,7	MT2+64,1	FMT
3129	1 00079	32D204EC	LW,13	MT3+64,1	VMT/VMTR
3130	1 0007A	00001280	J	0,BA(MT3)	VMTRCH
3131	1 0007B	00000000 A	DATA	0	MC
3132					TTBS-BIT 27 COMPARES-FIFTH WORD
3133	1 0007C	FFFFFFFO A	DATA	-16	COUNT
3134	1 0007D	40C00000 A	TTBS,12	0	INSTRUCTION
3135	1 0007E	00000244	K	0,0,0,SETPSW	PSW1 IN
3136	1 0007F	10000276	K	1,0,0,LBC+2	PSW1 OUT
3137	1 00080	F0001538	J	X'FO',BA(FMT)	R12 IN
3138	1 00081	10001538	J	16,BA(FMT)	R12 OUT
3139	1 00082	FFFFFFF A	DATA	-1	RO IN
3140	1 00083	FFFFFFF A	DATA	-1	RO OUT
3141	1 00084	140C1640	J	20,BA(VMT)	R13 IN
3142	1 00085	01001653	J	1,BA(VMT)+19	R13 OUT
3143	1 00086	00000000 A	PZE		R1 IN
3144	1 00087	00000000 A	PZE		R1 OUT
3145	1 00088	3272049C	LW,7	MT2+64,1	FMT
3146	1 00089	32D204EC	LW,13	MT3+64,1	VMT/VMTR
3147	1 0008A	00001280	J	0,BA(MT3)	VMTRCH
3148	1 0008B	00000000 A	DATA	0	MC
3149					TTES-BIT 26 COMPARES-SIXTH WORD
3150	1 0008C	FFFFFFFO A	DATA	-16	COUNT
3151	1 0008D	40C00000 A	TTBS,12	0	INSTRUCTION
3152	1 0008E	00000244	K	0,0,0,SETPSW	PSW1 IN
3153	1 0008F	10000276	K	1,0,0,LBC+2	PSW1 OUT
3154	1 00090	E0001538	J	X'E0',BA(FMT)	R12 IN
3155	1 00091	20001538	J	X'201',BA(FMT)	R12 OUT
3156	1 00092	00000000 A	PZE		RO IN
3157	1 00093	00000000 A	PZE		RO OUT
3158	1 00094	18001640	J	24,BA(VMT)	R13 IN
3159	1 00095	01001657	J	1,BA(VMT)+23	R13 OUT
3160	1 00096	FFFFFFF A	DATA	-1	R1 IN
3161	1 00097	FFFFFFF A	DATA	-1	R1 OUT

SUFFIX(2)			
3162	1 00D98	3272049C	LW,7 MT2+64,1
3163	1 00D99	32D204EC	LW,13 MT3+64,1
3164	1 00D9A	000012B0	J 0,BA(MT3)
3165	1 00D9B	00000000 A	DATA 0
3166		*	
3167	1 00D9C	FFFFFFFFFF0 A	DATA -16
3168	1 00D9D	40C00000 A	TTBS,12 0
3169	1 00D9E	F0000244	K 15,0,0,SETPSW
3170	1 00D9F	F0000276	K 15,0,0,L8C+2
3171	1 00DA0	C0001538	J X'CO',BA(FMT)
3172	1 00DA1	40001538	J X'40',BA(FMT)
3173	1 00DA2	FFFFFFFFFF F A	DATA -1
3174	1 00DA3	FFFFFFFFFF F A	DATA -1
3175	1 00DA4	1C001640	J 28,BA(VMT)
3176	1 00DA5	0100165B	J 1,BA(VMT)+27
3177	1 00DA6	00000000 A	PZE
3178	1 00DA7	00000000 A	PZE
3179	1 00DA8	3272049C	LW,7 MT2+64,1
3180	1 00DA9	32D204EC	LW,13 MT3+64,1
3181	1 00DAA	000012B0	J 0,BA(MT3)
3182	1 00DAB	00000000 A	DATA 0
3183		*	
3184	1 00DAC	FFFFFFFFFF0 A	DATA -16
3185	1 00DAD	40C00000 A	TTBS,12 0
3186	1 00DAE	00000244	K 0,0,0,SETPSW
3187	1 00DAF	10000276	K 1,0,0,L8C+2
3188	1 00DB0	80001538	J X'80',BA(FMT)
3189	1 00DB1	80001538	J X'80',BA(FMT)
3190	1 00DB2	00000000 A	PZE
3191	1 00DB3	00000000 A	PZE
3192	1 00DB4	20001640	J 32,BA(VMT)
3193	1 00DB5	0100165F	J 1,BA(VMT)+31
3194	1 00DB6	FFFFFFFFFF F A	DATA -1
3195	1 00DB7	FFFFFFFFFF F A	DATA -1
3196	1 00DB8	3272049C	LW,7 MT2+64,1
3197	1 00DB9	32D204EC	LW,13 MT3+64,1
3198	1 00DBA	000012B0	J 0,BA(MT3)
3199	1 00DBB	00000000 A	DATA 0

109

WORD

TTBS-BIT 25 COMPARES-SEVENTH WORD

COUNT
INSTRUCTION .
PSW1 IN
PSW1 OUT
R12 IN
R12 OUT
R0 IN
R0 OUT
R13 IN
R13 OUT
R1 IN
R1 OUT
FMT

WORD

TTBS-BIT 24 COMPARES-EIGHTH WORD

COUNT
INSTRUCTION
PSW1 IN
PSW1 OUT
R12 IN
R12 OUT
R0 IN
R0 OUT
R13 IN
R13 OUT
R1 IN
R1 OUT
FMT

WORD

SUFFIX(2)

3200			*	
3201	1	00DBC	FFFFFFFFFF A	DATA -16
3202	1	00DBD	40C00000 A	TTBS,12 0
3203	1	00DBE	E0000244	K 14,0,0,SETPSW
3204	1	00DBF	F0000276	K 15,0,0,L8C+2
3205	1	00DC0	01001558	J 1,BA(FMT)+32
3206	1	00DC1	01001558	J 1,BA(FMT)+32
3207	1	00DC2	FFFFFFFFFF A	DATA -1
3208	1	00DC3	FFFFFFFFFF A	DATA -1
3209	1	00DC4	03001640	J 8,BA(VMT)
3210	1	00DC5	06001642	J 6,BA(VMT)+2
3211	1	00DC6	00000000 A	PZE
3212	1	00DC7	00000000 A	PZE
3213	1	00DC8	3272049C	LW,7 MT2+64,1
3214	1	00DC9	32D204EC	LW,13 MT3+64,1
3215	1	00DCA	000012B0	J 0,BA(MT3)
3216	1	00DCB	00000000 A	DATA 0
3217			*	
3218	1	00DCC	FFFFFFFFFF A	DATA -16
3219	1	00DCD	40C00000 A	TTBS,12 0
3220	1	00DCE	F0000244	K 15,0,0,SETPSW
3221	1	00DCF	F0000276	K 15,0,0,L8C+2
3222	1	00DD0	02001558	J 2,BA(FMT)+32
3223	1	00DD1	02001558	J 2,BA(FMT)+32
3224	1	00DD2	00000000 A	PZE
3225	1	00DD3	00000000 A	PZE
3226	1	00DD4	03001640	J 8,BA(VMT)
3227	1	00DD5	02001646	J 2,BA(VMT)+6
3228	1	00DD6	FFFFFFFFFF A	DATA -1
3229	1	00DD7	FFFFFFFFFF A	DATA -1
3230	1	00DD8	3272049C	LW,7 MT2+64,1
3231	1	00DD9	32D204EC	LW,13 MT3+64,1
3232	1	00DDA	000012B0	J 0,BA(MT3)
3233	1	00DDB	00000000 A	DATA 0
3234			*	
3235	1	C0DDC	FFFFFFFFFF A	DATA -16
3236	1	00DDD	40C00000 A	TTBS,12 0
3237	1	00DDE	00000244	K 0,0,0,SETPSW

TTBS-BIT 23 COMPARES-FIRST WORD

COUNT
INSTRUCTION
PSW1 IN
PSW1 OUT
R12 IN
R12 OUT
R0 IN
R0 OUT
R13 IN
R13 OUT
R1 IN
R1 OUT
FMT
VMT/VMTR
VMTRCH
MC

TTBS-BIT 22 COMPARES-SECOND WORD

COUNT
INSTRUCTION
PSW1 IN
PSW1 OUT
R12 IN
R12 OUT
R0 IN
R0 OUT
R13 IN
R13 OUT
R1 IN
R1 OUT
FMT
VMT/VMTR
VMTRCH
MC

TTBS-BIT 21 COMPARES-THIRD WORD

COUNT
INSTRUCTION
PSW1 IN

SUFFIX(2)

3238	1 00DDF	10000276	K	1,0,0,L0C+2	PSW1 OUT
3239	1 00DE0	04001558	J	4,BA(FMT)+32	R12 IN
3240	1 00DE1	04001553	J	4,BA(FMT)+32	
3241	1 00DE2	FFFFFFFFFF A	DATA	-1	RO IN
3242	1 00DE3	FFFFFFFFFF A	DATA	-1	RO OUT
3243	1 00DE4	0C001640	J	12,BA(VMT)	R13 IN
3244	1 00DE5	0200164A	J	2,BA(VMT)+10	R13 OUT
3245	1 00DE6	00000000 A	PZE		R1 IN
3246	1 00DE7	00000000 A	PZE		R1 OUT
3247	1 CCDE8	3272049C	LW,7	MT2+64,1	FMT
3248	1 00DE9	32D204EC	LW,13	MT3+64,1	VMT/VMTR
3249	1 00DEA	000012B0	J	0,BA(MT3)	VMTRCH
3250	1 CCDEB	00000000 A	DATA	0	MC
3251		*			TTBS-BIT 20 COMPARES-FOURTH WORD
3252	1 00DEC	FFFFFFFFFF0 A	DATA	-16	COUNT
3253	1 C0DED	40C00000 A	TTBS,12	0	INSTRUCTION
3254	1 00DDE	E0000244	K	14,0,0,SETPSW	PSW1 IN
3255	1 00DEF	F0000276	K	15,0,0,L0C+2	PSW1 OUT
3256	1 00DF0	03001553	J	8,BA(FMT)+32	R12 IN
3257	1 00DF1	08001558	J	8,BA(FMT)+32	R12 OUT
3258	1 00DF2	00000000 A	PZE		RO IN
3259	1 00DF3	00000000 A	PZE		RO OUT
3260	1 00DF4	10001640	J	16,BA(VMT)	R13 IN
3261	1 00DF5	0200164E	J	2,BA(VMT)+14	
3262	1 00DF6	FFFFFFFFFF A	DATA	-1	R1 IN
3263	1 00DF7	FFFFFFFFFF A	DATA	-1	R1 OUT
3264	1 00DF8	3272049C	LW,7	MT2+64,1	FMT
3265	1 00DF9	32D204EC	LW,13	MT3+64,1	VMT/VMTR
3266	1 00DFA	000012B0	J	0,BA(MT3)	VMTRCH
3267	1 00DFB	00000000 A	DATA	0	MC
3268		*			TTBS-BIT 19 COMPARES-FIFTH WORD
3269	1 00DFC	FFFFFFFFFF0 A	DATA	-16	COUNT
3270	1 00DFD	40C00000 A	TTBS,12	0	INSTRUCTION
3271	1 00DFE	10000244	K	1,0,0,SETPSW	PSW1 IN
3272	1 00DFF	10000276	K	1,0,0,L0C+2	PSW1 OUT
3273	1 00E00	10001558	J	16,BA(FMT)+32	R12 IN
3274	1 00E01	10001558	J	16,BA(FMT)+32	R12 OUT
3275	1 00E02	FFFFFFFFFF A	DATA	-1	RO IN

SUFFIX(2)					
3276	1 00E03	FFFFFFFFFF A	DATA	-1	RO OUT
3277	1 00E04	140C1640	J	20,BA(VMT)	R13 IN
3278	1 00E05	02001652	J	2,BA(VMT)+18	R13 OUT
3279	1 00E06	00000000 A	PZE		R1 IN
3280	1 00E07	00000000 A	PZE		R1 OUT
3281	1 00E08	3272049C	LW,7	MT2+64,1	FMT
3282	1 00E09	32D204EC	LW,13	MT3+64,1	VMT/VMTR
3283	1 00ECA	000012B0	J	0,BA(MT3)	VMTRCH
3284	1 00E0B	00000000 A	DATA	0	MC
3285		*			TTBS-BIT 18 COMPARES-SIXTH WORD
3286	1 00E0C	FFFFFFFFFF0 A	DATA	-16	COUNT
3287	1 00E0D	40C00000 A	TTBS,12	0	INSTRUCTION
3288	1 00E0E	00000244	K	0,0,0,SETPSW	PSW1 IN
3289	1 00EOF	10000276	K	1,0,0,LAC+2	PSW1 OUT
3290	1 00E10	20001558	J	32,BA(FMT)+32	R12 IN
3291	1 00E11	20001558	J	32,BA(FMT)+32	
3292	1 00E12	00000000 A	PZE		RO IN
3293	1 00E13	00000000 A	PZE		RO OUT
3294	1 00E14	18001640	J	24,BA(VMT)	R13 IN
3295	1 00E15	02001656	J	2,BA(VMT)+22	R13 OUT
3296	1 00E16	FFFFFFFFFF A	DATA	-1	R1 IN
3297	1 00E17	FFFFFFFFFF A	DATA	-1	R1 OUT
3298	1 00E18	3272049C	LW,7	MT2+64,1	FMT
3299	1 00E19	32D204EC	LW,13	MT3+64,1	VMT/VMTR
3300	1 00E1A	000012B0	J	0,BA(MT3)	VMTRCH
3301	1 00E1B	00000000 A	DATA	0	MC
3302		*			TTBS-17 COMPARES-SEVENTH WORD
3303	1 00E1C	FFFFFFFFFF0 A	DATA	-16	COUNT
3304	1 00E1D	40C00000 A	TTBS,12	0	INSTRUCTION
3305	1 00E1E	E0000244	K	14,0,0,SETPSW	PSW1 IN
3306	1 00E1F	F0000276	K	15,0,0,LAC+2	PSW1 OUT
3307	1 00F20	40001558	J	64,BA(FMT)+32	R12 IN
3308	1 00E21	40001558	J	64,BA(FMT)+32	R12 OUT
3309	1 00E22	FFFFFFFFFF A	DATA	-1	RO IN
3310	1 00E23	FFFFFFFFFF A	DATA	-1	RO OUT
3311	1 00E24	1C001640	J	28,BA(VMT)	R13 IN
3312	1 00E25	0200165A	J	2,BA(VMT)+26	R13 OUT
3313	1 00E26	00000000 A	PZE		R1 IN

SUFFIX(2)			
3314	1 00E27	00000000 A	PZE
3315	1 00E28	3272049C	LW,7 MT2+64,1
3316	1 00E29	32D204EC	LW,13 MT3+64,1
3317	1 00E2A	00001280	J 0,BA(MT3)
3318	1 00E2B	00000000 A	DATA 0
3319			TTBS-BIT 16 COMPARES-EIGHTH WORD
3320	1 00E2C	FFFFFFFFFF A	DATA -16
3321	1 00E2D	40C00000 A	TTBS,12 0
3322	1 00E2E	10000244	K 1,0,0,SETPSW
3323	1 00E2F	10000276	K 1,0,0,L0C+2
3324	1 00E30	80C01558	J 128,BA(FMT)+32
3325	1 00E31	80001558	J 128,BA(FMT)+32
3326	1 00E32	00000000 A	PZE
3327	1 00E33	00000000 A	PZE
3328	1 00E34	20C01640	J 32,BA(VMT)
3329	1 00E35	0200165E	J 2,BA(VMT)+30
3330	1 00E36	FFFFFFFFFF A	DATA -1
3331	1 00E37	FFFFFFFFFF A	DATA -1
3332	1 00E38	3272049C	LW,7 MT2+64,1
3333	1 00E39	32D204EC	LW,13 MT3+64,1
3334	1 00E3A	00001280	J 0,BA(MT3)
3335	1 00E3B	00000000 A	DATA 0
3336			TTBS-BITS 10 AND 15 COMPARE
3337	1 00E3C	FFFFFFFFFF A	DATA -16
3338	1 00E3D	40C00000 A	TTBS,12 0
3339	1 00E3E	00000244	K 0,0,0,SETPSW
3340	1 00E3F	10000276	K 1,0,0,L0C+2
3341	1 00E40	FF001538	J X'FF',BA(FMT)
3342	1 00E41	21C01538	J X'21',BA(FMT)
3343	1 00E42	FFFFFFFFFF A	DATA -1
3344	1 00E43	FFFFFFFFFF A	DATA -1
3345	1 00E44	04C01640	J 4,BA(VMT)
3346	1 00E45	03C01641	J 3,BA(VMT)+1
3347	1 00E46	00000000 A	PZE
3348	1 00E47	00000000 A	PZE
3349	1 00E48	3272052C	LW,7 EPI+64,1
3350	1 00E49	32D204EC	LW,13 MT3+64,1
3351	1 00E4A	00001280	J 0,BA(MT3)

		SUFFIX(2)		
3352	1 00E4B	00000000 A	DATA	0
3353		*		
3354	1 00E4C	FFFFFFFFFF A	DATA	-16
3355	1 00E4D	40C00000 A	TTBS,12	0
3356	1 00E4E	E0000244	K	14,0,0,SETPSW
3357	1 00E4F	F0000276	K	15,0,0,LAC+2
3358	1 00E50	FF001538	J	X'FF',BA(FMT)
3359	1 00E51	F0001538	J	X'FO',BA(FMT)
3360	1 00E52	00000000 A	PZE	
3361	1 00E53	00000000 A	PZE	
3362	1 00E54	04001640	J	4,BA(VMT)
3363	1 00E55	04001640	J	4,BA(VMT)
3364	1 00E56	FFFFFFFFFF A	DATA	-1
3365	1 00E57	FFFFFFFFFF A	DATA	-1
3366	1 00E58	3272045C	LW,7	MT1+64,1
3367	1 00E59	32D204EC	LW,13	MT3+64,1
3368	1 00E5A	000012B0	J	0,BA(MT3)
3369	1 00E53	00000000 A	DATA	0
3370		*		
3371	1 00E5C	FFFFFFFFFF A	DATA	-16
3372	1 00E5D	40C00000 A	TTBS,12	0
3373	1 00E5E	10C00244	K	1,0,0,SETPSW
3374	1 00E5F	10000276	K	1,0,0,LAC+2
3375	1 00F60	FF001538	J	X'FF',BA(FMT)
3376	1 00E61	0F001538	J	X'F',BA(FMT)
3377	1 00E62	FFFFFFFFFF A	DATA	-1
3378	1 00E63	FFFFFFFFFF A	DATA	-1
3379	1 00E64	04001640	J	4,BA(VMT)
3380	1 00E65	04001640	J	4,BA(VMT)
3381	1 00E66	00000000 A	PZE	
3382	1 00E67	00000000 A	PZE	
3383	1 00E68	3272045D	LW,7	MT1+65,1
3384	1 00E69	32D204EC	LW,13	MT3+64,1
3385	1 00E6A	000012B0	J	0,BA(MT3)
3386	1 00E6B	00000000 A	DATA	0
3387		*		
3388	1 00E6C	FFFFFFFFFF A	DATA	-16
3389	1 00E6D	C0C002E9 A	DATA	X'C0C002E9'
			MC	
			TTBS-BITS 0-3 COMPARE	
			COUNT	
			INSTRUCTION	
			PSW1 IN	
			PSW1 OUT	
			R12 IN	
			R12 OUT	
			RO IN	
			RO OUT	
			R13 IN	
			R13 OUT	
			R1 IN	
			R1 OUT	
			FMT	
			VMT/VMTR	
			VMTRCH	
			MC	
			TTBS-BITS 4-7 COMPARE	
			COUNT	
			INSTRUCTION	
			PSW1 IN	
			PSW1 OUT	
			R12 IN	
			R12 OUT	
			RO IN	
			RO OUT	
			R13 IN	
			R13 OUT	
			R1 IN	
			R1 OUT	
			FMT	
			VMT/VMTR	
			VMTRCH	
			MC	
			TTBS-INDIRECT ADDRESSING-TRAP	
			COUNT	
			INSTRUCTION	

SUFFIX(2)

3390	1 00E6E	77300185	K	7,7,3,SI9NA0	PSW1 IN
3391	1 00E6F	F7300068	K	15,7,3,NEIRET+1	PSW1 OUT
3392	1 C0E70	FF001538	J	X'FF1,BA(FMT)	R12 IN
3393	1 00E71	FF001538	J	X'FF1,BA(FMT)	R12 OUT
3394	1 00E72	00000000 A	PZE		RO IN
3395	1 00E73	00000000 A	PZE		RO OUT
3396	1 00E74	04001640	J	4,BA(VMT)	R13 IN
3397	1 00E75	04001640	J	4,BA(VMT)	R13 OUT
3398	1 00E76	00000000 A	PZE		R1 IN
3399	1 00E77	00000000 A	PZE		R1 OUT
3400	1 00E78	3272045C	LW,7	MT1+64,1	FMT
3401	1 00E79	32D204EC	LW,13	MT3+64,1	VMT/VMTR
3402	1 00E7A	000012B0	J	0,BA(MT3)	VMTRCH
3403	1 00E7B	00000000 A	DATA	0	MC
3404	1 00E7C	00000000 A	DATA	0	