

900893

704045-11P1

CALCUL

KLNZ

28

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 EO<sub>16</sub>) 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 EO<sub>16</sub>).

SS4 OFF - typewriter OFF - WAIT executed (1 EO<sub>16</sub>).

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

SS4 ON - SS3 OFF - No error indications.

See section entitled "ERRORS"

\* Register includes 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.

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\*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)<sub>16</sub>. Information concerning which plane 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)<sub>16</sub>. By setting SELECT ADDRESS to 273<sub>16</sub>, 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 <sub>H</sub>	
28	TIO,0	*25 <sub>H</sub>	Loaded by AUTO FILE
29	BCS,C <sub>H</sub>	28 <sub>H</sub>	
2A	LW,0	2C <sub>H</sub>	
2B	BCR,0	27 <sub>H</sub>	
2C	PZE,0	BA(2E <sub>H</sub> )	DA = Double Word Address DA92E <sub>H</sub> ) = 17 <sub>H</sub>
2E	Rd	BA(32 <sub>H</sub> +1)*	DA = Byte Address BA(32 <sub>H</sub> +1) = C9 <sub>H</sub>
2F		3	BA(33 <sub>H</sub> +2) = CF <sub>H</sub>
30	Rd	BA(33 <sub>H</sub> +3)*	BA(33 <sub>H</sub> +3) = CF <sub>H</sub>
31		1	
32	Rd	( )	
33		( )	

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

ASIGMET EI,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 00000000 JJ CONVERTS TO BYTE ADDRESS  
21 JU CNAME  
22 PROC  
23 LF GEN,8,24 AF(1),BA(AF(2))  
24 PEND  
25 \*  
26 00000000 FILL FILLS ALL LOCATIONS BETWEEN AF AND \$ WITH ZEROS  
27 FILL CNAME  
28 PROC  
29 LF EQU \$  
30 DB ABSVAL(AF)-ABSVAL(\$)  
31 GEN,32 0  
32 FIN  
33 PEND  
34 \*

2

35  
36  
37 SUFFIX(2)  
38 PAGE  
39  
40 \* SUFFIX - SIGMA CPU DIAGNOSTIC SYSTEM  
41 \*  
42 \*  
43 \*  
44 \*  
45 \* SENSE SWITCH DEFINITIONS  
46 \*  
47 \* SS1 SET=SHORT LOOP  
48 \* RESET=NORMAL OPERATION  
49 \*  
50 \* SS2 SET=LONG LOOP  
51 \* RESET=NORMAL OPERATION  
52 \*  
53 \* SS3 SET=REPORT  
54 \* RESET=NORMAL OPERATION  
55 \*  
56 \* SS4 SET=NO HALT ON ERRORS  
57 \*  
58 \* RESET=HALT ON ERRORS  
59 \*  
60 \*  
61 \* REGISTER CONTENTS ON ERROR HALT  
62 \*  
63 \* R1 PRESENT LIST ADDRESS  
64 \* R2 ERRORS  
65 \* R3 PASSES  
66 \* R4 INSTRUCTION  
67 \* R5 ERROR IDENTIFIER AND ADDRESS:  
68 \* 10000000 = INSTRUCTION  
69 \* 20000000 = LOCATION+1 OF THE EXECUTION LOCATION  
70 \* 30000000 = INDIRECT ADDRESS  
71 \* 40000001 = INDEX REGISTER+R1  
72 \* 5000000X = PROGRAM STATUS WORD X: X=1 OR 2  
73 \* 6000000X = REGISTER X: X=0 THROUGH F(1111)  
74 \* 7000WXYZ = MEMORY WORD IN LOCATION WXYZ (WXYZ=0-FFFF)  
75 \* 7100WXYZ = MEMORY WORD IN LOCATION WXYZ (FMT TABLE)  
76 \* 7200WXYZ = MEMORY WORD IN LOCATION WXYZ (VMT TABLE)  
77 \*  
78 \* R6 ERRONEOUS RESULT  
79 \* R7 PREDETERMINED RESULT  
80 \* R8 DIFFERENCE BETWEEN R6 AND R7

SUFFIX(2)					
		PAGE	ORG	X'40'	
71					
72	1 00040				TRAP LOCATIONS
	1 00040				
73	1 00040	0F00005E	NABTR	XPSD,0	NONALLOWED OPERATION
74	1 00041	0F000072	UIITR	XPSD,0	UNIMPLEMENTED INSTRUCTION
75	1 00042	0F000078	SLTR	XPSD,0	STACK LIMIT
76	1 00043	0F00007E	FXPOTR	XPSD,0	OVERFLOW ON CONVERT BY ADDITION
77	1 00044	0F000084	FLPFTR	XPSD,0	FLOATING POINT
78	1 00045	0F00008A	DFTR	XPSD,0	NONALLOWED DIGIT CONFIGURATION
79	1 00046	0F000090	WDTRTR	XPSD,0	WATCHDOG TIMER RUNOUT
80	1 00047	0F0003D8	BRANCH	XPSD,0	BRANCH RETURN
81	1 00048	0F000096	CAL1TR	XPSD,0	CALL ONE
82	1 00049	0F0000AA	CAL2TR	XPSD,0	CALL TWO
83	1 0004A	0F0000BE	CAL3TR	XPSD,0	CALL THREE
84	1 0004B	0F0000D2	CAL4TR	XPSD,0	CALL FOUR
85		*			INTERRUPT LOCATIONS
86	1 0004C	00000000 A	FILE	X'54'	
	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	MEMORY PARITY
90	1 00057	00000000 A	FILL	X'5A'	
	1 00058	00000000 A			
	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	I/O
94	1 0005D	0F0000F6	XPSD,0	RESET	INTERRUPT BUTTON

SUFFIX(2)  
PAGE

95						
96						
97	1 0005E		*			
98	1 0005E	00000000 A	NAB	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	NAORET	XPSD,0 RETURN		NONALLOWED OPERATION TRAP
103	1 00063	OF0003D8	MPVRET	XPSD,0 RETURN		
104	1 00064	OF0003D8	MVRET	XPSD,0 RETURN		
105	1 00065	OF0003D8		XPSD,0 RETURN		
106	1 00066	OF0003D8	NEARET	XPSD,0 RETURN		
107	1 00067	OF0003D8		XPSD,0 RETURN		
108	1 00068	OF0003D8		XPSD,0 RETURN		
109	1 00069	OF0003D8		XPSD,0 RETURN		
110	1 0006A	OF0003D8	NEIRET	XPSD,0 RETURN		
111	1 0006B	OF0003D8		XPSD,0 RETURN		
112	1 0006C	OF0003D8		XPSD,0 RETURN		
113	1 0006D	OF0003D8		XPSD,0 RETURN		
114	1 0006E	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 C0078			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		PZE		
131	1 0007C	OF0003D8	SLRET	XPSD,0 RETURN		

SUFFIX(2)					
PAGE					
132					
133					
134	1 0007E				
135	1 0007E	00000000 A	FXPO	BOUND 8	FIXED POINT ARITHMETIC OVERFLOW TRAP
136	1 0007F	00000000 A		PZE	
137	1 00080	00000082		PZE	
138	1 00081	00000000 A		PZE,0 \$+2	
139	1 00082	7020007E		LC	FXPO
140	1 00083	0F0003D8	FPORET	XPSD,0	RETURN
141			*		
142	1 00084			BOUND 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	FPFRET	XPSD,0	RETURN
149			*		
150	1 0008A			BOUND 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			*		
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	0F0003D3		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

				PAGE		CALL 2 TRAP		
				SUFFIX(2)				
186			*					
187								
188	1 00CAA				BOUND 8			
189	1 000AA	00000000	A	CAL2	PZE			
190	1 000AB	00000000	A		PZE			
191	1 00CAC	000000AE			PZE,0	\$+2		
192	1 00CAD	00000000	A		PZE			
193	1 000AE	OF0003D8		C2RET	XPSD,0	RETURN	TRACC=0	
194	1 000AF	OF0003D8			XPSD,0	RETURN	TRACC=1	I9=1
195	1 000B0	OF0003D8			XPSD,0	RETURN	TRACC=2	I9=1
196	1 000B1	OF0003D8			XPSD,0	RETURN	TRACC=3	I9=1
197	1 000B2	OF0003D8			XPSD,0	RETURN	TRACC=4	I9=1
198	1 000B3	OF0003D8			XPSD,0	RETURN	TRACC=5	I9=1
199	1 000B4	OF0003D8			XPSD,0	RETURN,	TRACC=6	I9=1
200	1 00CB5	OF0003D8			XPSD,0	RETURN	TRACC=7	I9=1
201	1 00CB6	OFCC03D8			XPSD,0	RETURN	TRACC=8	I9=1
202	1 00CB7	OF0003D8			XPSD,0	RETURN	TRACC=9	I9=1
203	1 00CB8	OF0003D8			XPSD,0	RETURN	TRACC=10	I9=1
204	1 000B9	OF0003D8			XPSD,0	RETURN	TRACC=11	I9=1
205	1 000BA	OF0003D8			XPSD,0	RETURN	TRACC=12	I9=1
206	1 000BB	OF0003D8			XPSD,0	RETURN	TRACC=13	I9=1
207	1 000BC	OF0003D8			XPSD,0	RETURN	TRACC=14	I9=1
208	1 000BD	OF0003D8			XPSD,0	RETURN	TRACC=15	I9=1

SUFFIX(2)  
PAGE

209						
210			*			
211	1 000BE			SOUND 8		
212	1 000BE	00000000 A	CAL3	PZE		CALL 3 TRAP
213	1 000BF	00000000 A		PZE		
214	1 00CC0	000000C2		PZE,0 \$42		
215	1 000C1	00000000 A		PZE		
216	1 000C2	0F0003D8	CGRET	XPSD,0 RETURN		TRACC=0
217	1 000C3	0F0003D8		XPSD,0 RETURN		TRACC=1 I9=1
218	1 000C4	0F0003D8		XPSD,0 RETURN		TRACC=2 I9=1
219	1 000C5	0F0003D8		XPSD,0 RETURN		TRACC=3 I9=1
220	1 000C6	0F0003D8		XPSD,0 RETURN		TRACC=4 I9=1
221	1 000C7	0F0003D8		XPSD,0 RETURN		TRACC=5 I9=1
222	1 000C8	0F0003D8		XPSD,0 RETURN		TRACC=6 I9=1
223	1 000C9	0F0003D8		XPSD,0 RETURN		TRACC=7 I9=1
224	1 000CA	0F0003D8		XPSD,0 RETURN		TRACC=8 I9=1
225	1 000CB	0F0003D8		XPSD,0 RETURN		TRACC=9 I9=1
226	1 000CC	0F0003D8		XPSD,0 RETURN		TRACC=10 I9=1
227	1 000CD	0F0003D8		XPSD,0 RETURN		TRACC=11 I9=1
228	1 000CE	0F0003D8		XPSD,0 RETURN		TRACC=12 I9=1
229	1 000CF	0F0003D8		XPSD,0 RETURN		TRACC=13 I9=1
230	1 000D0	0F0003D8		XPSD,0 RETURN		TRACC=14 I9=1
231	1 000D1	0F0003D8		XPSD,0 RETURN		TRACC=15 I9=1

232  
 233  
 234 1 000D2 \* SUFFIX(2)  
 235 1 000D2 PAGE  
 236 1 000D3 00000000 A CALL4 CALL 4 TRAP  
 237 1 000D4 00000000 A BOUND 8  
 238 1 000D5 00000000 A PZE  
 239 1 000D6 0F0003D8 CARET PZE  
 240 1 000D7 0F0003D8 XPSD,0 RETURN TRACC=0  
 241 1 000D8 0F0003D8 XPSD,0 RETURN TRACC=1 I9=1  
 242 1 000D9 0F0003D8 XPSD,0 RETURN TRACC=2 I9=1  
 243 1 000DA 0F0003D8 XPSD,0 RETURN TRACC=3 I9=1  
 244 1 000DB 0F0003D8 XPSD,0 RETURN TRACC=4 I9=1  
 245 1 000DC 0F0003D8 XPSD,0 RETURN TRACC=5 I9=1  
 246 1 000DD 0F0003D8 XPSD,0 RETURN TRACC=6 I9=1  
 247 1 000DE 0F0003D8 XPSD,0 RETURN TRACC=7 I9=1  
 248 1 000DF 0F0003D8 XPSD,0 RETURN TRACC=8 I9=1  
 249 1 000E0 0F0003D8 XPSD,0 RETURN TRACC=9 I9=1  
 250 1 000E1 0F0003D8 XPSD,0 RETURN TRACC=10 I9=1  
 251 1 000E2 0F0003D8 XPSD,0 RETURN TRACC=11 I9=1  
 252 1 000E3 0F0003D8 XPSD,0 RETURN TRACC=12 I9=1  
 253 1 000E4 0F0003D8 XPSD,0 RETURN TRACC=13 I9=1  
 254 1 000E5 0F0003D8 XPSD,0 RETURN TRACC=14 I9=1  
 255

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		SUFFIX(2)		
		PAGE		
255		*		
256				
257	1 000E6		BOUND 8	
258	1 000E6	00000000 A	PARY	PZE,0 0
259	1 00CE7	00000000 A		PZE,0 0
260	1 00CE8	000000EA		PZE,0 PARITY+4
261	1 000E9	00000000 A		PZE,0 0
262	1 000EA	6C400010 A		RD,4 X'10!
263	1 000EB	2E000000 A		WAIT,0 0
264	1 000EC	0E3003E0		LPSD,3 REPEAT
265		*		
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
272	1 000F3	0E3003DC		LPSD,3 IOREL
273	1 000F4	703000EE		LCF INOUT
274	1 000F5	0F0003D8	IORET	XPSD,0 RETURN
275		*		
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
282	1 000FB	322003E6		LW,2 ERRORS
283	1 000FC	32100113		LW,1 SAVE
284	1 000FD	2E000000 A		WAIT,0 0
285	1 000FE	0E3003E0		LPSD,3 REPEAT
286	1 000FF	00000000 A		FILL X'100!

PARITY INTERRUPT SERVICE ROUTINE

RECORD PARITY ERROR PLANS

RELEASE PARITY INTERRUPT REPEAT TEST

INPUT/OUTPUT TRAP

ACKNOWLEDGE INTERRUPT

INTERRUPT BUTTON SERVICE ROUTINE

RESET FAILS TO LAST SETTING

RESET ERRORS TO LAST SETTING

REINITIALIZE LOAD WITH LAST SETTING

REPEAT LAST TEST

			SUFFIX(2)	PAGE		
237						
238	1 00100	32200360	START	LW,2	ZERO	PRESET ERROR COUNT
239	1 00101	32300360		LW,3	ZERO	PRESET PASS COUNT
240	1 00102	32500327		LW,5	PCPINT	PARITY AND CONTROL PANEL INTERRUPT
241	1 00103	6D501200 A		WD,5	X'12000	ARM AND ENABLE
242	1 00104	32100319		LW,1	NEG51	
243	1 00105	3510031B		STW,1	LINE	INITIALIZE LINE COUNT
244	1 00106	32100341		LW,1	NEG2	
245	1 00107	3510031C		STW,1	FIRST	RESET FIRST PASS COUNTER
246	1 00108	321002FA	CYCLE	LW,1	LOAD	PRESET LOAD FROM LIST
247	1 00109	32400360		LW,4	ZERO	
248	1 0010A	35100113		STW,1	SAVE	
249	1 0010B	32500326		LW,5	NOTAE	ALL BUT PARITY AND PANEL INTERRUPT
250	1 0010C	6D501100 A		WD,5	X'11000	DISARM
251	1 0010D	6D501500 A		WD,5	X'15000	DISABLE
252	1 0010E	352003E6		STW,2	ERRORS	
253	1 0010F	353003E7		STW,3	PASSES	
254	1 00110	32600317		LW,6	NEG12	
255	1 00111	354C03C4		STW,4	TABLE+12,6	STORE ZEROS IN TABLE
256	1 00112	65600111		BIR,6	\$-1	
257	1 00113	32400610	SAVE	LW,4	LIST+C	
258	1 00114	69300118		BCS,3	NOTEND	TEST FOR MODULE END
259	1 00115	4830030D		AND,3	M1Q15	DELETE MODULE COUNT
260	1 00116	20310C00 A		AI,3	X'10000	INCREMENT PASS COUNT
261	1 00117	68000108		BCR,0	CYCLE	PREPARE TO SET TABLE
262	1 00118	325002FB	NOTEND	LW,5	STORE	
263	1 00119	32600004 A		LW,6	4	COUNT
264	1 0011A	3510011C	MOVE	STW,1	FROM	MOVE LIST TO TABLE
265	1 0011B	3550011D		STW,5	TO	
266	1 0011C	32400610	FROM	LW,4	LIST+C	
267	1 0011D	354003B8	TB	STW,4	TABLE+I	
268	1 0011E	20100001 A		AI,1	1	
269	1 0011F	20500001 A		AI,5	1	
270	1 00120	6560011A		BIR,6	MOVE	
271	1 00121	3510011C		STW,1	FROM	SET MODULE POINTER = NEXT MODULE
272	1 00122	32100318		LW,1	NEG16	RT2 TO VRTR
273	1 00123	3242040C		LW,4	RT2+16,1	

			SUFFIX(2)	
362	1	0013A	68000174	BCR,3 SETSHT
363	1	0014B	320002E5	LW,9 BYTINS
364	1	0014C	450002E5	CS,8 BYTINS
365	1	0014D	6800015F	BCR,3 BYTEST
366	1	0014E	320003C6	LW,5 TABLE+14
367	1	0014F	320002E1	LW,9 HCKED
368	1	00150	458002E2	CS,8 HCKD9
369	1	00151	68000159	BCR,3 \$+8
370	1	00152	21100001 A	CJ,1 1
371	1	00153	68000159	BCR,2 \$+6
372	1	00154	22100002 A	LJ,1 2
373	1	00155	35500156	STW,5 \$+1
374	1	00156	320203E8	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	320203E8	LW,13 RT1-1,1
380	1	0015C	3502053D	STW,13 VRTR-1,1
381	1	0015D	6410016B	BCR,1 \$+2
382	1	0015E	68000174	BCR,0 SETSHT
383	1	0015F	322003C6	LW,2 TABLE+14
384	1	00160	3230030A	LW,3 VMTRCH
385	1	00161	321003C7	LW,1 TABLE+15
386	1	00162	68000168	BCR,3 \$+6
387	1	00163	72040000 A	LW,13 0,2
388	1	00164	75060000 A	STW,13 0,3
389	1	00165	20200001 A	AJ,2 1
390	1	00166	20300001 A	AJ,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 INSHSK
396	1	0016C	458002F7	CS,8 EBSINS
397	1	0016D	68300170	BCR,3 \$+3
398	1	0016E	452002E8	CS,8 TBSINS
399	1	0016F	69300171	BCS,3 \$+2

BRANCH IF EBT  
STORE CHACES TO ALTR(34)P, STW,13

BRANCH IF NOT OVER 1

RT1-1,1, RT2-1,1

BRANCH IF EBS

BRANCH IF NOT TDS

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			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	CBSLW	
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	VMTCH	STORE VMT CHANGE OR BRANCH
407	1 00177	32C00389	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

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				SUFFIX(2)	PAGE	
421			*			
422						
423	1 00185	32500310	SI9NA0	LW,5	I9	SET XPSD FOR N0A 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 N0A TRAP
428	1 0018A	68000244		BCR,0	<u>SETPSW</u>	SET PSW1 BITS 0-11 FOR UII TRAP
429			*			
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 EXP0 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	FLPFSW	EOR,4	FLPFAD	
443	1 00195	35400086		STW,4	FLPF+2	
444	1 00196	6800018C		BCR,0	UIISW+1	
445			*			
446	1 00197	48400331	DFSW	EOR,4	DFAD	SET PSW1 BITS 0-11 FOR DF TRAP
447	1 00198	3540008C		STW,4	DF+2	
448	1 00199	6800018C		BCR,0	UIISW+1	

SUFFIX(2)  
PAGE .

449								
450								
451	1 0019A	48400332	*	WDTRSH	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 X1CE

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

ERRORLEVEL 2

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

18

495	1 00107	4D000041 A	SUFFIX(2)	
496	1 00108	4D000001 A	WD,0 X'41'	TURN ON ALARM
497	1 00109	4D80030E	TIO,11 TYPE	PREPARE FOR TYPEWRITER USAGE
498	1 0010A	638001E1	AND,11 603	SELECT TYPEWRITER STATUS INFO
499	1 0010B	4CB0030E	BCR,3 EDIT	TYPEWRITER READY
500	1 0010C	682001D8	EOR,11 603	
501	1 0010D	60000000 A	BCR,3 \$-4	TYPEWRITER BUSY
502	1 0010E	691001E0	RD,0 0	KHEAD SENSE SWITCHES
503	1 0C1DF	2E000000 A	BCS,1 NOHALT	
504	1 001E0	6E0001CE	WAIT -->	COMMON ERROR HALT
		NOHALT	LPSD,0 ERROR	

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SUFFIX(2)			
PAGE			
505			
506			
507	1 001E1	32C002FC	EDIT
508	1 001E2	32900315	LW,12
509	1 001E3	32A00005 A	STRM61
510	1 001E4	693001E6	LW,9
511	1 001E5	3290033F	NEG8
512	1 001E6	32A002F5	LW,10
513	1 001E7	35A001E8	BCS,3
514	1 001E8	32A00001 A	REPORT+1
515	1 001E9	35A003E8	LW,9
516	1 001EA	359003E9	NEG4
517	1 001EB	32F00341	LW,10
518	1 001EC	320002F6	LOADR
519	1 001ED	32A002F8	STW,10
520	1 001EE	32B002F0	LDREG
521	1 001EF	4B900313	LW,10
522	1 001F0	693001F5	WORD
523	1 001F1	32F00314	STW,10
524	1 001F2	320002F7	COUNT
525	1 001F3	32A002F9	LW,15
526	1 001F4	32B002F1	NEG2
527	1 001F5	32E002F2	LWN
528	1 001F6	350001F9	LW,10
529	1 001F7	35A001FA	LWERH
530	1 001F8	35C00215	LW,11
531	1 001F9	3200033F	ANFR0
532	1 001FA	32D00344	ONE
533	1 001FB	35B00210	ODD
534	1 001FC	35D003ED	BCS,3
535	1 001FD	35E00205	EVEN
536	1 001FE	32A002F3	LW,15
537	1 001FF	32C0033F	NEGS
538	1 00100	32D00360	LW,9
			LWN2
			LW,10
			LWERH2
			LW,11
			ANFR2
			LW,14
			ANIK
			STW,0
			SETN
			STW,10
			SETFRH
			STW,12
			STRAD
			LW,0
			NUMBER
			LW,13
			FRAME
			BYTES
			STW,11
			ANDL
			STW,13
			WKO
			STW,14
			ANDM
			LW,10
			LWBTF
			LW,12
			NEG4
			LW,13
			ZERO
			EDIT-LEVEL 3
			SET STORAGE WORD
			TEST RS=0
			DISPLAY
			SET REGISTER PICKUP
			PICK UP REGISTER 1 THRU 8 (D20) ON A
			SET WORD COUNT(H)*2
			SET N-4,5,6
			SET FRAME = FOFOPFOFOA FOFOPFOO
			SET CHAR POSITIONS 1234,5678
			TEST COUNT EVEN
			SET WORD COUNT(H)*3
			SET N-2,3,4,5,6
			SET FRAME=4030F070,FO707070,FO7070
			SET CHAR POSITIONS 12,34,56,78
			SET DIGIT PICK # BITS 0-3, 4-7 ETC
			SET NUMBER PICK UP
			SET FRAME PICK UP
			SET STORAGE LOCATION
			SET NUMBER
			SET FRAME (FINAL CHAR-BYTE FUNCTION)
			SET FILTER
			SAVE FRAME
			SET MASK (ORIGINAL CHAR POSITION)
			SET BIT PICK UP
			SET BIT COUNT
			SET CHAR GENERATOR TO ZERO

			SUFFIX(2)	PAGE	
539				STW,10	LIB
540	1 00201	35A00203	BITS	STW,10	LWBT
541	1 00202	35A00208	LWB	LW,9	BIT
542	1 00203	3290033B		AND,9	WORD
543	1 00204	4B9003E8	ANDM	AND,9	MASK
544	1 00205	4B900349		BCS,3	LWBT
545	1 00206	69300208		LPSD,0	BUMP
546	1 00207	OE0003DE	LWBT	LW,9	BIT
547	1 00208	3290033B		EOR,13	9
548	1 00209	48D00009 A	BUMPER	BIR,10	\$+1
549	1 0020A	65A00200		BIR,12	BITS
550	1 0020B	65C00201		AND,13	F
551	1 0020C	4BD00350		EOR,13	LWBYTE
552	1 0020D	48D002F4		STW,13	LWBY
553	1 0020E	35D0020F	LWBY	LW,13	BYTE
554	1 0020F	32D00360		AND,13	FILTER
555	1 00210	4BD00351	ANDF	EOR,13	WK0
556	1 00211	48D003EB		BIR,11	\$+1
557	1 00212	65B00213		BIR,14	\$+1
558	1 00213	65E00214		BIR,0	BYTES
559	1 00214	650001FB	STRWD	STW,13	IMAGE\$+1
560	1 00215	35D003A4		LW,0	SETN
561	1 00216	320001F9		LW,10	SETFRM
562	1 00217	32A001FA		LW,12	STRWD
563	1 00218	32C00215		BIR,0	\$+1
564	1 00219	6500021A		BIR,10	\$+1
565	1 0021A	65A0021B		BIR,12	\$+1
566	1 0021B	65C0021C		BIR,15	WORDS
567	1 0021C	65F001F6		LW,9	COUNT
568	1 0021D	329003E9		LW,10	LDREG
569	1 0021E	32A001E8		BIR,10	\$+1
570	1 0021F	65A00220		BIR,9	LDREG\$+1
571	1 00220	659001E7			

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			LW,15	LINE	OUTPUT LEVEL 3
573			LW,14	FIRST	LINE COUNT (~51)
574	1 00221	32F0031B	BIR,14	SKIP6	--2 FIRST TIME
575	1 00222	32E0031C	BIR,15	LINOUT	FIRST TIME THRU
576	1 00223	65E00227	LW,0	PSIXCR	LINE COUNT NOT ZERO
577	1 00224	65F0022C	XPSD,0	PRINT	
578	1 00225	32000370	SKIP6	LW,0	OUTPUT 6 CAR. RET.
579	1 00226	0F000238	XPSD,0	PTITLE	
580	1 00227	32000371	LW,0	PRINT	NEW PAGE TITLE
581	1 00228	0F000238	XPSD,0	PHEAD	
582	1 00229	32000372	LW,0	PRINT	NEW HEADING
583	1 0022A	0F000238	XPSD,0	NEG51	RESET LINE COUNT
584	1 00223	32F00319	LW,15	PLONGL	SET UP DISPLAY PRINTOUT
585	1 0022C	32000374	LW,0	LW,10	PICK UP IDENTIFIER
586	1 0022D	32A00005 A	BCS,3	5	
587	1 0022E	69300230	LW,0	PSHRTL	SET UP RECORD PRINTOUT
588	1 0022F	32000373	XPSD,0	PRINT	
589	1 00230	0F000238	STW,15	LINE	SAVE NEW LINE COUNT
590	1 00231	35F0031B	STW,14	FIRST	SAVE NEW FIRST PASS INDICATOR
591	1 00232	35E0031C	WD,0	X1401	TURN OFF ALARM
592	1 00233	6D000040 A	LPSD,0	GETOUT	<i>new first pass indicator</i>
593	1 00234	0E000236	BOUND 8		
594	1 00236	003001DD	PZE,3	HLTEST	
595	1 00236	00000000 A	PZE		
596	1 00237		GETOUT		

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		SUFFIX(2)		PRINT LEVEL 4	
		PAGE			
597					
598					
599	1 00238				
600	1 00238	00000000 A	PRINT	BOUND 8	
601	1 00239	00000000 A		PZE	
602	1 0023A	0000023C		PZE	
603	1 0023B	00000000 A		PZE,0 PRINT#4	
604	1 0023C	4CB00001 A	BUSY	S10,11 TYPE	
605	1 0023D	4BB0030E		AND,11 6Q3	SELECT TYPEWRITER FOR OUTPUT
606	1 0023E	68300243		BCR,3 EXITIO	
607	1 0023F	48B0030E		EOR,11 6Q3	READY
608	1 00240	6830023C		BCR,3 BUSY	
609	1 00241	4FB00001 A		H10,11 TYPE	
610	1 00242	2E000000 A		WAIT	BUSY
611	1 00243	0E000238	EXITIO	LPSD,0 PRINT	UNAVAILABLE OR INOPERATIVE

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			SUFFIX(2)	PAGE	
612					
613	1 00244	324003BA	SETPSH	LW,4	TABLE+2
614	1 00245	4B40030B		AND,4	CND
615	1 00246	4B400309		EOR,4	LOCADD
616	1 00247	354003E2		STW,4	PSW1
617	1 00248	32100318		LW,1	NEG16
618	1 00249	32D2040C		LW,13	RT2+16,1
619	1 0024A	35D2053E		STW,13	VRT+16,1
620	1 0024B	65100249		BIR,1	\$-2
621	1 0024C	32C003BD		LW,12	TABLE+5
622	1 0024D	32D003C1		LW,13	TABLE+9
623	1 0024E	15C0054A		STD,12	VRTR+12
624	1 0024F	3210031A		LW,1	NEG64
625	1 00250	32C003C4		LW,12	TABLE+12
626	1 00251	35C00252		STW,12	\$+1
627	1 00252	3272045C		LW,7	MT1+64,1
628	1 00253	3572058E		STW,7	FMT+64,1
629	1 00254	65100252		BIR,1	\$-2
630	1 00255	320003EC		LW,0	RT1
631	1 00256	122003EE		LD,2	RT1+2
632	1 00257	124003F0		LD,4	RT1+4
633	1 00258	126003F2		LD,6	RT1+6
634	1 00259	128003F4		LD,8	RT1+8
635	1 0025A	12A003F6		LD,10	RT1+10
636	1 0025B	12E003FA		LD,14	RT1+14
637	1 0025C	122003FE	LD22	LD,2	RT2+2
638	1 0025D	12400400		LD,4	RT2+4
639	1 0025E	12600402		LD,6	RT2+6
640	1 0025F	12800404		LD,8	RT2+8
641	1 00260	12A00406		LD,10	RT2+10
642	1 00261	12E0040A		LD,14	RT2+14
643	1 00262	320003BE		LW,0	TABLE+6
644	1 00263	3210031A	SHORT1	LW,1	NEG16
645	1 00264	32D003C5		LW,13	TABLE+13
646	1 00265	35D00266		STW,13	\$+1
647	1 00266	32D2045C		LW,13	MT1+64,1
648	1 00267	35D205D0		STW,13	VMT+64,1

CLEAR ADDRESS  
SET ADDRESS TO LCC

RT2 TO BRY

R120 AND R120 TO VRTR

PRESET FMT

LW,7 MT1+64,1+DP+64,1

LOAD

RT1 TABLE

IF

STM

PSM

CR PSW

PRESET VMT

LW,13 MT1+64,1+EP1+64,1

			SUFFIX(2)		
649	1 00268	65100263	BIR,1	\$-2	
650	1 00269	321003C7	LW,1	TABLE+15	(LW,1 TABLE+15)/BCR,0
651	1 0026A	32D203C7	F-LW,13	TABLE+15,1	SHORT2
652	1 0026B	35D2053F	STW,13	VMT+1,1	
653	1 0026C	6410026A	STW,BDR,1	\$-2	
654	1 0026D	32C00316	LW,12	TABLE+6	MEMORY 1 IN
655	1 0026E	32D00312	LW,13	TABLE+10	MEMORY 2 IN.
656	1 0026F	15C00309	STD,12	MEMORY	
657	1 00270	3210026F	LW,1	INEX	R12/R1 IN
658	1 00271	32C0030C	LW,12	TABLE+4	R12 IN
659	1 00272	32D00320	LW,13	TABLE+8	R13 IN
660	1 00273	0E000322	LPSD,0	PSW1 - SPC	
661	1 00274	670003CD	EXU	INSTR	EXECUTE INSTRUCTION
662	1 00275	0F000303	XPSD,0	RETURN	
663	1 00276	6C000000 A	RD,0	0	READ BREAKPOINTS
664	1 00277	68800262	BCR,8	TESTS	
665	1 00278	68000243	BCR,0	SIORT1	BRANCH IF BREAKPOINT 1 RESET
666	1 00279	3500052E	STW,0	VRT	BCR,0 SHORT1/CHORT2
667	1 0027A	3510052F	STW,1	VRT+1	
668	1 0027B	15200530	STD,2	VRT+2	
669	1 0027C	15400532	STD,4	VRT+4	
670	1 0027D	15600534	STD,6	VRT+6	
671	1 0027E	15800546	STD,8	VRT+8	
672	1 0027F	15A00543	STD,10	VRT+10	
673	1 00280	15C0053A	STD,12	VRT+12	
674	1 00281	15E0053C	STD,14	VRT+14	
675	1 00282	321000F8	LW,1	REGIST	
676	1 00283	3510039A	STW,1	RETURNED	SET RETURN TO REGIST
677	1 00284	32100113	LW,1	SAVE	LIST POINTER
678	1 00285	32200356	LW,2	ERRORS	ERROR COUNT
679	1 00286	32300327	LW,3	PASSES	NUMBER OF PASE
680	1 00287	32400359	LW,4	TABLE+4	INSTRUCTION
681	1 00288	325002AD	LW,5	INST10	TEST INSTRUCTION
682	1 00289	32700339	LW,7	TABLE+4	
683	1 0028A	3280030D	LW,6	INST11	
684	1 0028B	0F00010E	XPSD,0	ER,1	
685	1 0028C	3290031E	LW,5	XPSD	TEST XPSD
686	1 0028D	32A00317	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	327003BB
699	1	0029A	326003D3
700	1	0029B	0F0001CE
701	1	0029C	20500001 A
702	1	0029D	327003E3
703	1	0029E	326003D9
704	1	0029F	0F0001CE
705	1	002A0	32100318
706	1	002A1	32500322
707	1	002A2	361003EA
708	1	002A3	3272054E
709	1	002A4	3262058C
710	1	002A5	32100113
711	1	002A6	0F0001CE
712	1	002A7	20500001 A
713	1	002A8	321003EA
714	1	002A9	65100272
715	1	002AA	32800319
716	1	002AB	329002E5
717	1	002AC	458002E5
718	1	002AD	683002E7
719	1	002AE	32100113
720	1	002AF	32500323
721	1	002B0	327003FF
722	1	002B1	326003D4
723	1	002B2	0F0001CE
724	1	002B3	20500001 A

SUFFIX(2)

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	PSDWID
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
STR,1	SVECNT
LW,7	VRTR+16+3
LW,6	VRT+16+1
LW,1	SAVE
XPSD,0	ERROR
AI,5	1
LW,1	SVECNT
BIR,1	STCNT1
LW,8	TABLE+1
LW,9	BYTINS
CS,8	BYTINS
BCR,3	TSTHT
LW,1	SAVE
LW,5	MERID
LW,7	TABLE+7
LW,6	MEMORY
XPSD,0	ERROR
AI,5	1

TEST INDIRECT ADDRESSING

TEST INDEXING

TEST PWDW

TEST PWDR

TEST RECORDING

BRANCH BY BYTE INSTRUCTION

TEST RECORD WORD 1

TEST RECORD 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	TSTVMT	LW,1 SVECNT
739	1 002C2	651002BB		BIR,1 STCNT2
740	1 002C3	3210031A		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	END	BCS,2 TSTDVC+2
756	> 1 002D3	6D000040 A		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 IDENTIFIER FOR REPORT
				SET RETURN FROM OUTPUTEND
				SS3 + REPORT
				TURN OFF ALARM
				INCREMENT MODULE COUNTER
				READ SENSE SWITCHES
				RESTORE NEW LIST ADDRESS
				UPDATEN PUNTER

				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	STOREG	BCR,8	STRG		
770	1 002E0	00000000 A	STMSK	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	X17E000000!		
774	1 002E4	28000000 A	CVINST	DATA	X12800000!		
775	1 002E5	40000000 A	BYTINS	DATA	X14000000!		
776	1 002E6	7F000000 A	INSMSK	DATA	X17F000000!		
777	1 002E7	63000000 A	EBGINS	DATA	X163000000!		
778	1 002E8	41000000 A	TBSINS	DATA	X141000000!		
779	1 002E9	60000000 A	CBSINS	DATA	X160000000!		
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	X120000!		
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		
797	1 002FB	354003B8	STORE	STW,4	TABLE		LOAD TRANSFER VEHICAL WITH DATA MODU 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	SHORT1
802	1	00300	122003FE	LDRT2	LD,2	RT2+2
803	1	00301	00000590	IACV	PZE,0	VMT
804	1	00302	00C003D4	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	L0C2AD	PZE,0	L0C+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	FF3FFFFFF A	LINKADD	DATA	X'FF3FFFFFF'
815	1	0030D	FFFFF0000 A	M1015	DATA	X'FFFFF0000'
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	FFFFFFFFFFD A	NEG3	DATA	-3
823	1	00315	FFFFFFFFFF8 A	NEG8	DATA	-8
824	1	00316	FFFFFFFFFF6 A	NEG10	DATA	-10
825	1	00317	FFFFFFFFFF4 A	NEG12	DATA	-12
826	1	00318	FFFFFFFFFF0 A	NEG16	DATA	-16
827	1	00319	FFFFFFFFFFCD A	NEG51	DATA	-51
828	1	0031A	FFFFFFFFFFCO A	NEG64	DATA	-64
829	1	0031B	FFFFFFFFFFCD A	LINE	DATA	-51
830	1	0031C	FFFFFFFFFFE A	FIRST	DATA	-2
831	1	0031D	10000000 A	INSTID	I	1,0
832	1	0031E	20000275	XPSDID	I	2,L0C+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	I0INT	DATA	X'20'
843	1	00329	000000F4	IOAD	PZE,0	I0RET+1
844	1	0032A	000001EA	MEMAD	P	MEMORY
845	1	0032B	0F00005E	NAGXD	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	FXPO+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	FFFFFFFC A	NUMBER	DATA	-40-40-24-40-2
	1	00340	FFFFFFFC A			
	1	00341	FFFFFFFE A			
	1	00342	FFFFFFFC A			
	1	00343	FFFFFFFE A			
866	1	00344	F0FOFOFO A	FRAME	DATA	X'F0FOFOFO'
867	1	00345	F0FOFOFO A		DATA	X'F0FOFOFO'
868	1	00346	4040FOFO A		DATA	X'4040FOFO'
869	1	00347	FOFOFOFO A		DATA	X'FOFOFOFO'

			SUFFIX(2)
870	1 00348	F0F04040 A	DATA X'F0F04040'
871	1 00349	F0000000 A	MASK 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)
879			PAGE
880	1 00351	FF000000 A	FILTER
881	1 00352	00FF0000 A	DATA X!FF00000!
882	1 00353	0000FF00 A	DATA X!FF00!
883	1 00354	000000FF A	DATA X!FF!
884	1 00355	FF000000 A	DATA X!FF00000!
885	1 00356	00FF0000 A	DATA X!FF000!
886	1 00357	0000FF00 A	DATA X!FF00!
887	1 00358	000000FF A	DATA X!FF!
888	1 00359	FF000000 A	DATA X!FF00000!
889	1 0035A	00FF0000 A	DATA X!FF0000!
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	DATA	X'01010101'
893	1 00361	01010101 A		DATA	X'02020202'
894	1 00362	02020202 A		DATA	X'03030303'
895	1 00363	03030303 A		DATA	X'04040404'
896	1 00364	04040404 A		DATA	X'05050505'
897	1 00365	05050505 A		DATA	X'06060606'
898	1 00366	06060606 A		DATA	X'07070707'
899	1 00367	07070707 A		DATA	X'08080808'
900	1 00368	08080808 A		DATA	X'09090909'
901	1 00369	09090909 A		DATA	X'131313131'
902	1 0036A	31313131 A		DATA	X'32323232'
903	1 0036B	32323232 A		DATA	X'33333333'
904	1 0036C	33333333 A		DATA	X'34343434'
905	1 0036D	34343434 A		DATA	X'35353535'
906	1 0036E	35353535 A		DATA	X'36363636'
907	1 0036F	36363636 A		DATA	X'36363636'
908			*		
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'

COMMAND PAIRS

## SUFFIX(2)

			PAGE	
925				
926	1 00380	15151515 A	TTL	DATA X'15151515'
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

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963  
964 1 003B8  
965 1 003B8 00000000 A TABLE SUFFIX(2)  
1 003B9 00000000 A PAGE  
1 003BA 00000000 A BOUND 8  
1 003BB 00000000 A FILL \$+20  
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 PZEO LOC#2

			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		BOUND 8	
988			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)	
989			ELSE	
990	1 003F6	01234567 A	DO	8
	1 003F7	FEDCBA98 A	DATA	X'12345671, X'FEDCBA98'
991			ELSE	
989			DO	8
990	1 003FA	01234567 A	DATA	X'12345671, X'FEDCBA98'
	1 003FB	FEDCBA98 A	ELSE	
991			DO	8
990	1 003FA	01234567 A	DATA	X'12345671, X'FEDCBA98'
991			ELSE	
992			FIN	
993			FILL	\$
994		00000008	RT2	
995	1 003FC	FEDCBA98 A	DO	8
	1 003FD	01234567 A	DATA	X'FEDCBA981, X'12345671'
996			ELSE	
994			DO	8
995	1 003FE	FEDCBA98 A	DATA	X'FEDCBA981, X'12345671'
	1 003FF	01234567 A	ELSE	
996			DO	8
994			DATA	X'FEDCBA981, X'12345671'
995	1 00400	FEDCBA98 A	RT2	
	1 00401	01234567 A	DO	8
996			DATA	X'FEDCBA981, X'12345671'
994			ELSE	
995	1 00402	FEDCBA98 A	DO	8
	1 00403	01234567 A	DATA	X'FEDCBA981, X'12345671'
996			ELSE	
994			DO	8
995	1 00404	FEDCBA98 A	DATA	X'FEDCBA981, X'12345671'
	1 00405	01234567 A	ELSE	
996			DO	8
994			DATA	X'FEDCBA981, X'12345671'
995	1 00406	FEDCBA98 A	RT2	
	1 00407	01234567 A	DO	8
996			DATA	X'FEDCBA981, X'12345671'

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

SUFFIX(2)			
1001		ELSE	
999		DO	8
1000	1 0041A	00000000 A	DATA 0,=1
	1 0041B	FFFFFFFFFF A	
1001		ELSE	
1002		FIN	
1003		FILL	\$
1004		DO	32
1005	1 0041C	FOFOFOFO A	DATA X'FOFOFOFO'
	1 0041D	OFOFOFOF A	X'FOFOFOFO'
1006		ELSE	
1004		DO	32
1005	1 0041E	FOFOFOFO A	DATA X'FOFOFOFO'
	1 0041F	OFOFOFOF A	X'FOFOFOFO'
1006		ELSE	
1004		DO	32
1005	1 00420	FOFOFOFO A	DATA X'FOFOFOFO'
	1 00421	OFOFOFOF A	X'FOFOFOFO'
1006		ELSE	
1004		DO	32
1005	1 00422	FOFOFOFO A	DATA X'FOFOFOFO'
	1 00423	OFOFOFOF A	X'FOFOFOFO'
1006		ELSE	
1004		DO	32
1005	1 00424	FOFOFOFO A	DATA X'FOFOFOFO'
	1 00425	OFOFOFOF A	X'FOFOFOFO'
1006		ELSE	
1004		DO	32
1005	1 00426	FOFOFOFO A	DATA X'FOFOFOFO'
	1 00427	OFOFOFOF A	X'FOFOFOFO'
1006		ELSE	
1004		DO	32
1005	1 00428	FOFOFOFO A	DATA X'FOFOFOFO'
	1 00429	OFOFOFOF A	X'FOFOFOFO'
1006		ELSE	
1004		DO	32
1005	1 0042A	FOFOFOFO A	DATA X'FOFOFOFO'
	1 0042B	OFOFOFOF A	X'FOFOFOFO'

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

			SUFFIX(2)
1005	1 0043E	FOFOFOFO A	DATA X1F0F F0FOF, X1F0F0F!
	1 0043F	OFOFOFOF A	ELSE
1006			DO 32
1004			DATA X1F0FOFOFO!, X1F0FOFOF!
1005	1 00440	FOFOFOFO A	ELSE
	1 00441	OFOFOFOF A	DO 32
1006			DATA X1F0FOFOFO!, X1F0FOFOF!
1004			ELSE
1005	1 00442	FOFOFOFO A	DO 32
	1 00443	OFCFOFOF A	DATA X1F0FOFOFO!, X1FCFOFOF!
1006			ELSE
1004			DO 32
1005	1 00444	FOFOFOFO A	DATA X1F0FOFOFO!, X1F0FOFOF!
	1 00445	OFOFOFOF A	ELSE
1006			DO 32
1004			DATA X1F0FOFOFO!, X1F0FOFOF!
1005	1 00446	FOFOFOFO A	ELSE
	1 00447	OFOFOFOF A	DO 32
1006			DATA X1F0FOFOFO!, X1F0FOFOF!
1004			ELSE
1005	1 00448	FOFOFOFO A	DO 32
	1 00449	OFOFOFOF A	DATA X1F0FOFOFO!, X1F0FOFOF!
1006			ELSE
1004			DO 32
1005	1 0045A	FOFOFOFO A	DATA X1F0FOFOFO!, X1F0FOFOF!
	1 0045B	OFOFOFOF A	ELSE
1006			DO 32
1007			DATA X1F0FOFOFO!, X1F0FOFOF!
1005	1 0045C	FOFOFOFO A	ELSE
	1 0045D	OFOFOFOF A	DO 32
1006			DATA X1F0FOFOFO!, X1F0FOFOF!
1004			ELSE
1005	1 0045E	FOFOFOFO A	DO 32
	1 0045F	OFOFOFOF A	DATA X1F0FOFOFO!, X1F0FOFOF!
1006			ELSE
1004			DO 32
1005	1 00460	FOFOFOFO A	DATA X1F0FOFOFO!, X1F0FOFOF!
	1 00461	OFOFOFOF A	ELSE

1006			SUFFIX(2)		
1004			ELSE		
1005	1 00452	F0F0F0FO A	DO	32	
	1 00453	OFOFOFOF A	DATA	X'F0F0F0FO!, X'F0F0F0F!	
1006			ELSE		
1004			DO	32	
1005	1 00454	F0F0F0FO A	DATA	X'F0F0F0FO!, X'F0F0F0F!	
	1 00455	OFOFOFOF A	ELSE		
1006			DO	32	
1004			DATA	X'F0F0F0FO!, X'F0F0F0F!	
1005	1 00456	F0F0F0FO A	ELSE		
	1 00457	OFOFOFOF A	DO	32	
1006			DATA	X'F0F0F0FO!, X'F0F0F0F!	
1004			ELSE		
1005	1 00458	F0F0F0FO A	DO	32	
	1 00459	OFOFOFOF A	DATA	X'F0F0F0FO!, X'F0F0F0F!	
1006			ELSE		
1004			DO	32	
1005	1 0045A	F0F0F0FO A	DATA	X'F0F0F0FO!, X'F0F0F0F!	
	1 0045B	OFOFOFOF A	)	ELSE	
1006			DATA	X'F0F0F0FO!, X'F0F0F0F!	
1007			FIN		
1008		*			
1009	1 0045C	00000001 A	N78	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!

MT2 USED WITH C71-CVS

			SUFFIX(2)
1024	1	0046B	DATA X'8000'
1025	1	0046C	DATA X'10000'
1026	1	0046D	DATA X'20000'
1027	1	0046E	DATA X'40000'
1028	1	0046F	DATA X'80000'
1029	1	00470	DATA X'100000'
1030	1	00471	DATA X'200000'
1031	1	00472	DATA X'400000'
1032	1	00473	DATA X'800000'
1033	1	00474	DATA X'1000000'
1034	1	00475	DATA X'2000000'
1035	1	00476	DATA X'4000000'
1036	1	00477	DATA X'8000000'
1037	1	00478	DATA X'10000000'
1038	1	00479	DATA X'20000000'
1039	1	0047A	DATA X'40000000'
1040	1	0047B	DATA X'80000000'
1041	1	0047C	DATA X'FOFOFOFO'
1042	1	0047D	DATA X'FOFOFOFO'
1043	1	0047E	DATA O
1044	1	0047F	DATA 1
1045	1	00480	DATA -1
1046	1	00481	DATA X'FOFOFOFO'
1047	1	00482	DATA X'FOFOFOFO'
1048	1	00483	DATA 1
1049	1	00484	DATA -1
1050	1	00485	DATA X'FOFOFOFO'
1051	1	00486	DATA X'FOFOF12'
1052	1	00487	DATA X'FOFOFOF'
1053	1	00488	DATA X'FOFOFOF'
1054	1	00489	DATA X'D2D2D2D2'
1055	1	0048A	DATA X'FOFOFOFO'
1056	1	0048B	DATA X'1E1E1E1F'
1057	1	0048C	DATA 0
1058	1	0048D	DATA 1
1059	1	0048E	DATA 0
1060	1	0048F	DATA X'80000000'
1061	1	00490	DATA 0

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			SUFFIX(2)	
1062	1	00491	00000001 A	DATA 1
1063	1	00492	00000000 A	DATA 0
1064	1	00493	FFFFFFF 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	F0F0F0F0 A	DATA X!F0F0F0F0!
1069	1	00498	00000000 A	DATA 0
1070	1	00499	00000001 A	DATA 1
1071	1	0049A	00000000 A	DATA 0
1072	1	0049B	0F0F0F0F A	DATA X!F0F0F0F!
1073	1	0049C	0696968B A	DATA X!696968B!
1074	1	0049D		BOUND 8
1075	1	0049E	F0F0F0F0 A	DATA X!F0F0F0F0!
1076	1	0049F	0F0F0F1F A	DATA X!F0F0F1F!
1077	1	004A0	F0F0F2F0 A	DATA X!F0F0F2F0!
1078	1	004A1	F0F4F0F0 A	DATA X!F0F4F0F0!
1079	1	004A2	F8F0F0F0 A	DATA X!F8F0F0F0!
1080	1	004A3	F0F0F0E0 A	DATA X!F0F0F0E0!
1081	1	004A4	F0F0D0F0 A	DATA X!F0F0D0F0!
1082	1	004A5	F0B0F0F0 A	DATA X!F0B0F0F0!
1083	1	004A6	70F0F0F0 A	DATA X!70F0F0F0!
1084	1	004A7	F0F0F0F0 A	DATA X!F0F0F0F0!
1085	1	004A8	F0F0F0F0 A	DATA X!F0F0F0F0!
1086	1	004A9	F0F0F0F0 A	DATA X!F0F0F0F0!
1087	1	004AA	QFFF0F0 A	DATA X!FFF0F0!
1088	1	004AC		BOUND 8
1089			MT3	FILL \$
1090		00000000	XXX	CNAME
1091				PROG
1092			F	FORII 8284
1093			X	SET 0
1094			XX	SET X!01000001
1095				DO 64
1096			F	X, XX
1097			X	SET X+A
1098			XX	SET XX+X, 01000001
1099				ELSE

1100

1101

1102

1	004AC	00010203	A
1	004AD	04050607	A
1	004AE	08090A0B	A
1	004AF	0C0D0EOF	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)

FIN

PEND

XXX

## SUFFIX(2)

1	004D0	90919293	A	
1	004D1	94909697	A	
1	004D2	98999A9B	A	
1	004D3	SC000E9F	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	B8B9BABB	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	FCFDFFFA	A	
1103	004EC	00212020	A	
1104	1	004EE	EPI	DATA X12120201
1105	1	004EE	00000000	A
	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
			ERR1	EGUND 8
			FILL	\$+64

## SUFFIX(2)

1 004F6 00000000 A  
1 004F7 00000000 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	\$410
	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	\$410
	1 0053F	00000000	A			
	1 00540	00000000	A			
	1 00541	00000000	A			

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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
1103	1 0054E	00000000 A
	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)

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(2)

1103	1 0058E	00000000	A			
	1 0058F	00000000	A			
	1 00590	00000000	A	VMT	FILL	\$45%
	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 0059A	00000000	A			
	1 0059B	00000000	A			
	1 0059C	00000000	A			
	1 0059D	00000000	A			
	1 0059E	00000000	A			
	1 0059F	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			
8,000	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)

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	005D0	00000000	A
	005D1	00000000	A
	005D2	00000000	A
	005D3	00000000	A
	005D4	00000000	A
	005D5	00000000	A
	005D6	00000000	A
	005D7	00000000	A
	005D8	00000000	A
	005D9	00000000	A

VHTP FILL \$464

## 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)			
1148	1 00631	AA0002EB	LM,0 *WKIA
1149	1 00632	17000244	K 1,7,0,SETPSW
1150	1 00633	17000276	K 1,7,0,LOC+2
1151	1 00634	FFFFFFF A	DATA -1
1152	1 00635	FFFFFFF A	DATA -1
1153	1 00636	FFFFFFF A	DATA -1
1154	1 00637	FFFFFFF A	DATA -1
1155	1 00638	0000040C	PZE,0 RT3
1156	1 00639	0000040C	PZE,0 RT3
1157	1 0063A	00000000 A	PZE
1158	1 0063B	00000000 A	PZE
1159	1 0063C	3272045C	LW,7 MT1+64,1
1160	1 0063D	32D2049C	LW,13 MT2+64,1
1161	1 0063E	32D2040B	LW,13 RT3+12,1
1162	1 0063F	00000001 A	DATA 1
1163			LM--INDIRECT ADDRESSING-INDEXING
1164	1 00640	FFFFFFF0 A	DATA -16
1165	1 00641	AA0202EB	LM,0 *WKIA,1
1166	1 00642	E0000244	K 14,0,0,SETPSW
1167	1 00643	E0000276	K 14,0,0,LOC+2
1168	1 00644	FFFFFFF A	DATA -1
1169	1 00645	00000000 A	PZE
1170	1 00646	00000000 A	PZE
1171	1 00647	00000000 A	PZE
1172	1 00648	0000040D	PZE,0 RT3+1
1173	1 00649	FFFFFFF A	DATA -1
1174	1 0064A	FFFFFFF A	DATA -1
1175	1 0064B	FFFFFFF A	DATA -1
1176	1 0064C	3272045C	LW,7 MT1+64,1
1177	1 0064D	32D2049C	LW,13 MT2+64,1
1178	1 0064E	32D2040B	LW,13 RT3+12,1
1179	1 0064F	0000000E A	DATA 14
1180			STM
1181	1 00650	FFFFFFF0 A	DATA -16
1182	1 00651	2B00052E	STM,0 VR7
1183	1 00652	07300244	K 0,7,3,SETPSW
1184	1 00653	07300276	K 0,7,3,LOC+2
1185	1 00654	FEDCBA98 A.	DATA X1FEDCBA98
			R12 IN

## SUFFIX(2)

1186	1 00655	FEDCBA98 A	DATA	X'FEDCBA98'	R12 OUT
1187	1 00656	01234567 A	DATA	X'1234567'	M1 IN
1188	1 00657	01234567 A	DATA	X'1234567'	M1 OUT
1189	1 00658	FEDCBA98 A	DATA	X'FEDCBA98'	R13 IN
1190	1 00659	FEDCBA98 A	DATA	X'FEDCBA98'	R13 OUT
1191	1 0065A	01234567 A	DATA	X'1234567'	M2 IN
1192	1 0065B	01234567 A	DATA	X'1234567'	M2 OUT
1193	1 0065C	3272045C	LW,7	MT1+64,1	FMT
1194	1 0065D	32D2045C	LW,13	MT2+64,1	VMT/VHTR
1195	1 0065E	32D203EB	LW,13	RT1+1,1	VRTRCH
1196	1 0065F	00000010 A	DATA	16	RC
1197					STM~INDEXING
1198	1 00660	FFFFFEFO A	DATA	-16	COUNT
1199	1 00661	20C34A96	STM,14	VRT-X'CBA98'	INSTRUCTION
1200	1 00662	20300245	K	2,0,3,SETPSW	PSW1 IN
1201	1 00663	20300276	K	2,0,3,L00+2	PSW1 OUT
1202	1 00664	FEDCBA98 A	DATA	X'FEDCBA98'	R12,IN-THICK
1203	1 00665	FEDCBA98 A	DATA	X'FEDCBA98'	R12 OUT
1204	1 00666	01234567 A	DATA	X'1234567'	M1 IN
1205	1 00667	01234567 A	DATA	X'1234567'	M1 OUT
1206	1 00668	01234567 A	DATA	X'1234567'	R13 IN
1207	1 00669	01234567 A	DATA	X'1234567'	R13 OUT
1208	1 0066A	FEDCBA98 A	DATA	X'FEDCBA98'	M2 IN
1209	1 0066B	FEDCBA98 A	DATA	X'FEDCBA98'	M2 OUT
1210	1 0066C	3272045C	LW,7	MT1+64,1	FMT
1211	1 0066D	32D2045C	LW,13	MT2+64,1	VMT/VHTR
1212	1 0066E	32D203EB	LW,13	RT1+1,1	VRTRCH
1213	1 0066F	00000001 A	DATA	1	RC
1214					STM~INDEXING ADDRESSING
1215	1 00670	FFFFFEFO A	DATA	-16	COUNT
1216	1 00671	A0000000B	STM,0	*WRKA	INSTRUCTION
1217	1 00672	E7000245	K	1,7,0,SETPSW	PSW1 IN
1218	1 00673	E7000276	K	1,7,0,L00+2	PSW1 OUT
1219	1 00674	01234567 A	DATA	X'1234567'	R12 IN
1220	1 00675	01234567 A	DATA	X'1234567'	R12 OUT
1221	1 00676	FEDCBA98 A	DATA	X'FEDCBA98'	M1 IN
1222	1 00677	FEDCBA98 A	DATA	X'FEDCBA98'	M1 OUT
1223	1 00678	00000001 A	PZ,0	VRT	R13 ~DECODE INDEX 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	A80202EB	STM,0	*WKIA,1	INSTRUCTION
1234	1 00682	00000244	K	0,0,0,SETPSW	PSW1 IN
1235	1 00683	00000276	K	0,0,0,L0C+2	PSW1 OUT
1236	1 00684	000CBA98 A	DATA	X'CBAA98'	R12 IN-INDEX
1237	1 00685	000CBA98 A	DATA	X'CBAA98'	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'CBAA98'	R13 IN
1241	1 00689	00014A96	PZE,0	VRT-X'CBAA98'	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	F7300274	K	15,7,3,SETPSW	PSW1 IN
1252	1 00693	17300276	K	1,7,3,L0C+2	PSW1 OUT
1253	1 00694	FFFFFFFFF 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	0000040B	PZE,0	RT3-1	M1 OUT
1257	1 00698	FFFFFFFFF A	DATA	-1	R13 IN
1258	1 00699	FFFFFFFFF 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			*		
1266	1	006A0	FFFFFFFFFF0 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,L0C+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 F	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			*		
1283	1	006B0	FFFFFFFFFF0 A	DATA	-16
1284	1	006B1	88C202EB	PLW,12,	*WKIA,1
1285	1	006B2	07000244	K	0,7,0,SETPSW
1286	1	006B3	07000276	K	0,7,0,L0C+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 F	DATA	X'FFFF'
1294	1	006BB	0001FFFF F	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			*		

## SUFFIX(2)

LW,13  
LW,13  
DATAMT2+64,1  
TABLE+5,1  
1VMT/VMTR  
VRTRCH

RC

## PLW-0DD REGISTER-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/VMTR

VRTRCH

RC

## PLW-INDIRECT ADDRESSING-INDEXING

COUNT

INSTRUCTION

PSW1 IN

PSW1 OUT

R12 IN-INDEX

R12 OUT

M1 IN

M1 OUT

R13 IN-INDIRECT ADDRESS

R13 OUT

M2 IN

M2 OUT

FMT

VMT/VMTR

VRTRCH

RC

## PLW-INDIRECT ADDRESSING-

SUFFIX(2)				
1300	1 006C0	FFFFFFFFFF A	DATA -16	COUNT
1301	1 006C1	88C00244	PLW,12 *WKIA	INSTRUCTION
1302	1 006C2	00000244	K 0,0,0,SETPSW	PSW1 IN
1303	1 006C3	30000276	K 3,0,0,L0C+2	PSW1 OUT
1304	1 006C4	FFFFFFFFFF A	DATA -1	R12 IN
1305	1 006C5	FFFFFFFFFF A	DATA -1	R12 OUT
1306	1 006C6	0000040C	PZE,0 RT3	M1 IN
1307	1 006C7	0000040C	PZE,0 RT3	M1 OUT
1308	1 006C8	000003D4	PZE,0 MEMORY	R13 IN-INDIRECT ADDRESS
1309	1 006C9	000003D4	PZE,0 MEMORY	R13 OUT
1310	1 006CA	00018000 A	DATA X'18000'	M2 IN
1311	1 006CB	00018000 A	DATA X'18000'	M2 OUT
1312	1 006CC	3272045C	LW,7 MT1+64,1	FMT
1313	1 006CD	32D2049C	LW,13 MT2+64,1	VMT/VMTR
1314	1 006CE	32D203BD	LW,13 TABLE+5,1	VRTRCH
1315	1 006CF	00000001 A	DATA 1	RC
1316		*		PLW
1317	1 006D0	FFFFFFFFFF A	DATA -16	COUNT
1318	1 006D1	08C003D4	PLW,12 MEMORY	INSTRUCTION
1319	1 006D2	F0000244	K 15,0,0,SETPSW	PSW1 IN
1320	1 006D3	80000276	K 8,0,0,L0C+2	PSW1 OUT
1321	1 006D4	FFFFFFFFFF A	DATA -1	R12 IN
1322	1 006D5	FFFFFFFFFF A	DATA -1	R12 OUT
1323	1 006D6	0000040C	PZE,0 RT3	M1 IN
1324	1 006D7	0000040C	PZE,0 RT3	M1 OUT
1325	1 006D8	00000000 A	PZE	R13 IN
1326	1 006D9	00000000 A	PZE	R13 OUT
1327	1 006DA	FFFFF0001 A	DATA X'FFFFF0001'	M2 IN
1328	1 006DB	FFFFF0001 A	DATA X'FFFFF0001'	M2 OUT
1329	1 006DC	3272045C	LW,7 MT1+64,1	FMT
1330	1 006DD	32D2049C	LW,13 MT2+64,1	VMT/VMTR
1331	1 006DE	32D203BD	LW,13 TABLE+5,1	VRTRCH
1332	1 006DF	00000001 A	DATA 1	RC
1333		*		PLW
1334	1 006E0	FFFFFFFFFF A	DATA -16	COUNT
1335	1 006E1	08C003D4	PLW,12 MEMORY	INSTRUCTION
1336	1 006E2	83100244	K 8,3,1,SETPSW	PSW1 IN
1337	1 006E3	73100276	K 7,3,1,L0C+2	PSW1 OUT

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

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	00010000 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	FFFFFFF0 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,SLRET+1	PSW1 OUT
1389	1	00714	FFFFFFF F A	DATA	-1	R12 IN
1390	1	00715	FFFFFFF F A	DATA	-1	R12 OUT
1391	1	00716	0000040C	PZE,0	RT3	M1 IN
1392	1	00717	0000040C	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	FFFFFFF0 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,SLRET+1	PSW1 OUT
1406	1	00724	00000002 A	DATA	2	R12 IN-INDEX
1407	1	00725	00000002 A	DATA	2	R12 OUT
1408	1	00726	0000040C	PZE,0	RT3	M1 IN
1409	1	00727	0000040C	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	X17FF00071	M2 IN
1413	1	0072B	7FFF0007 A	DATA	X17FF00071	M2 OUT

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			SUFFIX(2)		
1414	1 0072C	3272045C	LW,7	MT1+64,1	FMT
1415	1 0072D	32D2049C	LW,13	MT2+64,1	VMT/MVTR
1416	1 0072E	32D203BD	LW,13	TABLE+5,1	VRTRCH
1417	1 0072F	00000001 A	DATA	1	RC
1418					PLW-INDIRECT ADDRESSING-TRAP
1419	1 00730	FFFFFFFFFF A	DATA	-16	COUNT
1420	1 00731	88C002EB	PLW,12	*WKIA	INSTRUCTION
1421	1 00732	4730018E	K	4,7,3,SLGW	PSW1 IN
1422	1 00733	47300070	K	4,7,3,SLRET+1	PSW1 OUT
1423	1 00734	FFFFFFFFF A	DATA	-1	R12 IN
1424	1 00735	FFFFFFFFF A	DATA	-1	R12 OUT
1425	1 00736	0000040C	PZE,0	RT3	M1 IN
1426	1 00737	0000040C	PZE,0	RT3	M1 OUT
1427	1 00738	000003D4	PZE,0	MEMORY	R13 IN-INDIRECT ADDRESSING
1428	1 00739	000003D4	PZE,0	MEMORY	R13 OUT
1429	1 0073A	7FFF0000 A	DATA	X17FFF00001	M2 IN
1430	1 0073B	7FFF0000 A	DATA	X17FFF00001	M2 OUT
1431	1 0073C	3272045C	LW,7	MT1+64,1	FMT
1432	1 0073D	32D2049C	LW,13	MT2+64,1	VMT/MVTR
1433	1 0073E	32D203BD	LW,13	TABLE+5,1	VRTRCH
1434	1 0073F	00000001 A	DATA	1	RC
1435					PSW
1436	1 00740	FFFFFFFFFF A	DATA	-16	COUNT
1437	1 00741	09C003D4	PSW,12	MEMORY	INSTRUCTION
1438	1 00742	07300244	K	0,7,3,SLTCH	PSW1 IN
1439	1 00743	47300276	K	4,7,3,SLGCR	PSW1 OUT
1440	1 00744	01234567 A	DATA	X112345671	R12 IN
1441	1 00745	01234567 A	DATA	X112345671	R12 OUT
1442	1 00746	00000520	PZE,0	VRT+1	M1 IN
1443	1 00747	0000052E	PZE,0	VRT	M1 OUT
1444	1 00748	00000000 A	DATA	0	R13 IN
1445	1 00749	00000000 A	DATA	0	R13 OUT
1446	1 0074A	00010000 A	DATA	X1100001	M2 IN
1447	1 0074B	00000001 A	DATA	1	M2 OUT
1448	1 0074C	3272045C	LW,7	MT1+64,1	FMT
1449	1 0074D	32D2049C	LW,13	MT2+64,1	VMT/MVTR
1450	1 0074E	32D203BD	LW,13	RT1+1,1	VRTRCH
1451	1 0074F	00000010 A	DATA	16	RC

SUFFIX(2)

1452				
1453	1 00750	FFFFFFFFFF A	DATA	-16
1454	1 00751	09D203D0	PSW,13	*EMORY-4,1
1455	1 00752	F0300244	K	15,0,3,SETPSW
1456	1 00753	00300276	K	0,0,3,L0C+2
1457	1 00754	00000002 A	DATA	2
	1 00755	00000002 A	DATA	2
1458	1 00756	0000052D	PZE,0	VRT-1
1460	1 00757	0000052E	PZE,0	VRT
1461	1 00758	01234567 A	DATA	X'1234567'
1462	1 00759	01234567 A	DATA	X'1234567'
1463	1 0075A	FFFFF0000 A	DATA	X'FFFFF0000'
1464	1 0075B	FFFE0001 A	DATA	X'FFFE0001'
1465	1 0075C	3272045C	LW,7	MT1+64,1
1466	1 0075D	32D2049C	LW,13	MT2+64,1
1467	1 0075E	32D203EB	LW,13	RT1+1,1
1468	1 0075F	00000010 A	DATA	16
1469				
1470	1 00760	FFFFFFFFFF A	DATA	-16
1471	1 00761	89C002EB	PSW,12	*WKIA
1472	1 00762	B7000244	K	11,7,0,SETPSW
1473	1 00763	07000276	K	0,7,0,L0C+2
1474	1 00764	01234567 A	DATA	X'1234567'
1475	1 00765	01234567 A	DATA	X'1234567'
1476	1 00766	0000052D	PZE,0	VRT-1
1477	1 00767	0000052E	PZE,0	VRT
1478	1 00768	000003D4	PZE,0	MEMORY
1479	1 00769	000003D4	PZE,0	MEMORY
1480	1 0076A	FFFFF0000 A	DATA	X'FFFFF0000'
1481	1 0076B	FFFE0001 A	DATA	X'FFFE0001'
1482	1 0076C	3272045C	LW,7	MT1+64,1
1483	1 0076D	32D2049C	LW,13	MT2+64,1
1484	1 0076E	32D203EB	LW,13	RT1+1,1
1485	1 0076F	00000010 A	DATA	16
1486				
1487	1 00770	FFFFFFFFFF A	DATA	-16
1488	1 00771	89C202EB	PSW,12	*WKIA,1
1489	1 00772	D0000244	K	13,0,0,SETPSW

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PSW~ODD REGISTER~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
- VRT/VMTR
- VRTRCH
- RC

PSW~INDIRECT ADDRESSING

- COUNT
- INSTRUCTION
- PSW1 IN
- PSW1 OUT
- R12 IN
- R12 OUT
- M1 IN
- M1 OUT
- R13 IN~INDIRECT ADDRESS
- R13 OUT
- M2 IN
- M2 OUT
- FMT
- VRT/VMTR
- VRTRCH
- RC

PSW~INDIRECT ADDRESSING~INDEXING

- COUNT
- 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 12,0,0,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
1529	1 00798	00000000 A	PZE
1530	1 00799	00000000 A	PZE
1531	1 0079A	80000000 A	DATA X'80000000'
1532	1 0079B	80000000 A	DATA X'80000000'
1533	1 0079C	3272045C	LW,7 MT1+64,1
1534	1 0079D	32D2049C	LW,13 MT2+64,1
1535	1 0079E	32D203FA	LW,13 RT2-2,1
1536	1 0079F	00000010 A	DATA 16
1537		*	PSW-ABORT
1538	1 007A0	FFFFFFF0 A	DATA -16
1539	1 007A1	09C003D4	PSW,12 MEMORY
1540	1 007A2	10000244	K 1,0,0,SETPSW
1541	1 007A3	E0000276	K 14,0,0,L9C+2
1542	1 007A4	00000000 A	PZE 0
1543	1 007A5	00000000 A	PZE 0
1544	1 007A6	0000052D	PZE,0 VRT-1
1545	1 007A7	0000052D	PZE,0 VRT-1
1546	1 007A8	FFFFFFF0 A	DATA -1
1547	1 007A9	FFFFFFF0 A	DATA -1
1548	1 007AA	8000FFFF A	DATA X'8000FFFF'
1549	1 007AB	8000FFFF A	DATA X'8000FFFF'
1550	1 007AC	3272045C	LW,7 MT1+64,1
1551	1 007AD	32D2049C	LW,13 MT2+64,1
1552	1 007AE	32D203FA	LW,13 RT2-2,1
1553	1 007AF	00000010 A	DATA 16
1554		*	PSW-TRAP
1555	1 007B0	FFFFFFF0 A	DATA -16
1556	1 007B1	09C003D4	PSW,12 MEMORY
1557	1 007B2	D730018E	K 13,7,3,SLSW
1558	1 007B3	D730007D	K 13,7,3,SLRET+1
1559	1 007B4	FFFFFFF0 A	DATA -1
1560	1 007B5	FFFFFFF0 A	DATA -1
1561	1 007B6	0000052D	PZE,0 VRT-1
1562	1 007B7	0000052D	PZE,0 VRT-1
1563	1 007B8	00000000 A	PZE
1564	1 007B9	00000000 A	PZE
1565	1 007BA	00027FFF A	DATA X'127FFF'

SUFFIX(2)						
1566	1	007B3	00027FFF A	DATA	X'27FFF'	M2 OUT
1567	1	007BC	3272045C	LW,7	MT1+64,1	FMT
1568	1	007BD	32D2049C	LW,13	MT2+64,1	VM / VMTR
1569	1	007BE	32D203FA	LW,13	RT2+2,1	VRTRCH
1570	1	007BF	00000010 A	DATA	16	RC
1571						PSW-TRAP
1572	1	007C0	FFFFFFF0 A	DATA	-16	COUNT
1573	1	007C1	09C003D4	PSW,12	MEMORY	INSTRUCTION
1574	1	007C2	3730018E	K	3,7,3, SLSW	PSW1 IN
1575	1	007C3	3730007D	K	3,7,3, SLRET+1	PSW1 OUT
1576	1	007C4	FEDCBA98 A	DATA	X'FEDCBA98'	R12 IN
1577	1	007C5	FEDCBA98 A	DATA	X'FEDCBA98'	R12 OUT
1578	1	007C6	0000052D	PZE,0	VRT-1	M1 IN
1579	1	007C7	0000052D	PZE,0	VRT-1	M1 OUT
1580	1	007C8	01234567 A	DATA	X'1234567'	R13 IN
1581	1	007C9	01234567 A	DATA	X'1234567'	R13 OUT
1582	1	007CA	00000003 A	DATA	3	M2 IN
1583	1	007CB	00000003 A	DATA	3	M2 OUT
1584	1	007CC	3272045C	LW,7	MT1+64,1	FMT
1585	1	007CD	32D2049C	LW,13	MT2+64,1	VM / VMTR
1586	1	007CE	32D203FA	LW,13	RT2+2,1	VRTRCH
1587	1	007CF	00000010 A	DATA	16	RC
1588						PSW-INDEX TRAP
1589	1	007D0	FFFFFFF0 A	DATA	-16	COUNT
1590	1	007D1	09C203FC	PSW,12	MEMORY+0,1	INSTRUCTION
1591	1	007D2	2730018E	K	2,7,3, SLSW	PSW1 IN
1592	1	007D3	2730007D	K	2,7,3, SLRET+1	PSW1 OUT
1593	1	007D4	FFFFFFEC A	DATA	-20	R12 IN-IRREG
1594	1	007D5	FFFFFFEC A	DATA	-20	R12 OUT
1595	1	007D6	0000052D	PZE,0	VRT-1	M1 IN
1596	1	007D7	0000052D	PZE,0	VRT-1	M1 OUT
1597	1	007D8	FFFFFFFF A	DATA	-1	R13 IN
1598	1	007D9	FFFFFFFF A	DATA	-1	R13 OUT
1599	1	007DA	00000000 A	PZE		M2 IN
1600	1	007DB	00000000 A	PZE		M2 OUT
1601	1	007DC	3272045C	LW,7	MT1+64,1	FMT
1602	1	007DD	32D2049C	LW,13	MT2+64,1	VM / VMTR
1603	1	007DE	32D203FA	LW,13	RT2+2,1	VRTRCH

			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	3272045C	LW,7	MT1+64,1	FMT
1619	1 007ED	32D2040C	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	07300244	K	0,7,3,SETPSH	PSW1 IN
1626	1 007F3	17300276	K	1,7,3,L0C+2	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	X1100000	M2 OUT
1635	1 007FC	3272045C	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+2,1	INSTRUCTION

			SUFFIX(2)		
1642	1 0080	10300244	K	1,0,3,SETPSW	PSW1 IN
1643	1 00803	00300276	K	0,0,3,L0C42	PSW1 OUT
1644	1 0804	FFFFFFF A	DATA	-1	R12 IN-INDEX
1645	1 00805	FFFFFFF A	DATA	-1	R12 OUT
1646	1 00806	0000040C	PZ <sub>E</sub> ,0	RT3	M1 IN
1647	1 00807	0000040B	PZ <sub>E</sub> ,0	RT3-1	M1 OUT
1648	1 00808	FFFFFFF A	DATA	-1	R13 IN
1649	1 00809	FFFFFFF A	DATA	-1	R13 OUT
1650	1 0080A	0000000A A	DATA	10	M2 IN
1651	1 0080B	00010009 A	DATA	X'10009'	M2 OUT
1652	1 0080C	3272045C	LW, <sub>Z</sub> 7	MT1+64,1	FMT
1653	1 0080D	32D2045C	LW, <sub>Z</sub> 13	MT2+64,1	VMT/VMTR
1654	1 0080E	32D2040B	LW, <sub>Z</sub> 13	RT3-1,1	VRTRCH
1655	1 0080F	00000001 A	DATA	1	RC
1656					PLM-INDIRECT ADDRESSING
1657	1 00810	FFFFFFF0 A	DATA	-16	COUNT
1658	1 00811	8A0002EB	PLM, <sub>Z</sub> 0	*WKIA	INSTRUCTION
1659	1 00812	17000244	K	1,7,0,SETPSW	PSW1 IN
1660	1 00813	02000276	K	0,7,0,1,L0C42	PSW1 OUT
1661	1 00814	00000000 A	PZ <sub>E</sub>		R12 IN
1662	1 00815	00000000 A	PZ <sub>E</sub>		R12 OUT
1663	1 00816	0000040C	PZ <sub>E</sub> ,0	RT3	M1 IN
1664	1 00817	0000040B	PZ <sub>E</sub> ,0	RT3-1	M1 OUT
1665	1 00818	00000304	PZ <sub>E</sub> ,0	MEMORY	R13 IN-INDIRECT ADDRESSING
1666	1 00819	00000304	PZ <sub>E</sub> ,0	MEMORY	R13 OUT
1667	1 0081A	00030002 A	DATA	X'30002'	M2 IN
1668	1 0081B	00030001 A	DATA	X'40001'	M2 OUT
1669	1 0081C	3272045C	LW, <sub>Z</sub> 7	MT1+64,1	FMT
1670	1 0081D	32D2045C	LW, <sub>Z</sub> 13	MT2+64,1	VMT/VMTR
1671	1 0081E	32D2040B	LW, <sub>Z</sub> 13	RT3-1,1	VRTRCH
1672	1 0081F	00000001 A	DATA	1	RC
1673					PLM-INDIRECT ADDRESSING INDEX
1674	1 00820	FFFFFFF0 A	DATA	-16	COUNT
1675	1 00821	8A0202EB	PLM, <sub>Z</sub> 0	*WKIA,1	INSTRUCTION
1676	1 00822	F0000244	K	15,0,0,SETPSW	PSW1 IN
1677	1 00823	00000276	K	0,0,0,1,L0C42	PSW1 OUT
1678	1 00824	FFFFFFF A	DATA	-1	R12 IN-INDEX
1679	1 00825	00000000 A	PZ <sub>E</sub>		R12 OUT

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			
1691	1 00830	FFFFFFFFFF A	DATA -16
1692	1 00831	8A0202EB	PLM,0 *LXIA,1
1693	1 00832	C0000244	K 12,0,0,SETPSW
1694	1 00833	10000276	K 1,0,0,LGC+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	0FFF0000 A	DATA X'FFF0000'
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			
1708	1 00840	FFFFFFFFFF A	DATA -16
1709	1 00841	0AF003D4	PLM,15 MEMORY
1710	1 00842	D0000244	K 13,0,0,SETPSW
1711	1 00843	20000276	K 2,0,0,LGC+2
1712	1 00844	FFFFFFFFFF A	DATA -1
1713	1 00845	FFFFFFFFFF A	DATA -1
1714	1 00846	0000041A	PZE,0 RT3+15
1715	1 00847	0000041A	PZE,0 RT3+14
1716	1 00848	00000000 A	PZE
1717	1 00849	00000000 A	PZE

M1 IN  
 M1 OUT  
 R12 IN-INDIRECT ADDRESS  
 R13 OUT  
 M2 IN  
 M2 OUT  
 FMT  
 VMT/VMTR  
 RC  
 PLM-INDIRECT ADDRESSING-INDEXING

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

COUNT  
 INSTRUCTION  
 PSW1 IN  
 PSW1 OUT  
 R12 IN  
 R12 OUT  
 M1 IN  
 M1 OUT  
 R13 IN  
 R13 OUT

				SUFFIX(2)			
1718	1 0084A	00028	A	DATA	X'2800C'	M2 IN	
1719	1 0084B	00028	A	DATA	X'2800C'	M2 OUT	
1720	1 0084C	32720		LW,7	MT1+64,1	FMT	
1721	1 0084D	32D20		LW,13	MT2+64,1	VMT/VMTR	
1722	1 0084E	32D20		LW,13	RT3-1,1	VRTRCH	
1723	1 0084F	00000000	A	DATA	0	RC	
1724		*				PLM-ABORT	
1725	1 00850	FFFFFFFO	A	DATA	-16	COUNT	
1726	1 00851	0AC003D4		PLM,12	MEMORY	INSTRUCTIONS	
1727	1 00852	C00003D4		K	12,0,0,SETPSW	PSW1 IN	
1728	1 00853	30000276		K	3,0,0,LOC+2	PSW1 OUT	
1729	1 00854	00000000	A	PZE		R12 IN	
1730	1 00855	00000000	A	PZE		R12 OUT	
1731	1 00856	00000417		PZE,0	RT3+11	M1 IN	
1732	1 00857	00000417		PZE,0	RT3+11	M1 OUT	
1733	1 00858	FFFFFFFF	A	DATA	-1	R13 IN	
1734	1 00859	FFFFFFFF	A	DATA	-1	R13 OUT	
1735	1 0085A	00018000	A	DATA	X'18000'	M2 IN	
1736	1 0085B	00018000	A	DATA	X'18000'	M2 OUT	
1737	1 0085C	3272045C		LW,7	MT1+64,1	FMT	
1738	1 0085D	32D2045C		LW,13	MT2+64,1		
1739	1 0085E	32D2040B		LW,13	RT3-1,1	VRTRCH	
1740	1 0085F	00000000	A	DATA	0	RC	
1741		*				PLM-INDIRECT ADDRESSING-INDEXING	
1742	1 00860	FFFFFFFO	A	DATA	-16	COUNT	
1743	1 00861	8A0202E8		PLM,0	*WKIA,1	INSTRUCTION	ABORT
1744	1 00862	90000264		K	9,0,0,SETPSW	PSW1 IN	
1745	1 00863	60000276		K	6,0,0,LOC+2	PSW1 OUT	
1746	1 00864	FFFFFFFF	A	DATA	-1	R12 IN-INDEX	
1747	1 00865	FFFFFFFF	A	DATA	-1	R12 OUT	
1748	1 00866	00000414		PZE,0	RT3+8	M1 IN	
1749	1 00867	00000414		PZE,0	RT3+8	M1 OUT	
1750	1 00868	000003D6		PZE,0	MEMORY+2	R13 IN-INDIRECT ADDRESSING	
1751	1 00869	000003D6		PZE,0	MEMORY+2	R13 OUT	
1752	1 0086A	00008008	A	DATA	X'8008'	M2 IN	
1753	1 0086B	00008008	A	DATA	X'8008'	M2 OUT	
1754	1 0086C	3272045C		LW,7	MT1+64,1	FMT	
1755	1 0086D	32D2049C		LW,13	MT2+64,1	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	FFFFFFFFFF 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	FFFFFFFFFF A	DATA -1	R13 IN
1768	1 00879	FFFFFFFFFF 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	FFFFFFFFFF 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	FFFFFFFFFF A	DATA -1	R12 IN
1781	1 00885	FFFFFFFFFF 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	M1 OUT
1785	1 00889	00000000 A	PZE	R13 IN
1786	1 0088A	FFF90008 A	DATA X'FFF90008'	R13 OUT
1787	1 0088B	FFF90008 A	DATA X'FFF90008'	M2 IN
1788	1 0088C	3272045C	LW,7 MT1+64,1	M2 OUT
1789	1 0088D	32D2049C	LW,13 MT2+64,1	FMT
1790	1 0088E	32D2040B	LW,13 RT3-1,1	VMT/VMTR
1791	1 0088F	00000000 A	DATA 0	VRTRCH
1792		*		RC
1793	1 00890	FFFFFFFFFF A	DATA -16	PLM-ABORT
				COUNT

			SUFFIX(2)		INSTRUCTION
1794	1	00891	0A0003D4	PLM,0	MEMORY
1795	1	00892	50000244	K	5,0,0,SETPSW
1796	1	00893	A0000276	K	10,0,0,L6C+2
1797	1	00894	00000000 A	PZE	
1798	1	00895	00000000 A	PZE	
1799	1	00896	00000410	PZE,0	RT3+4
1800	1	00897	00000410	PZE,0	RT3+4
1801	1	00898	FFFFFFF A	DATA	-1
1802	1	00899	FFFFFFF A	DATA	-1
1803	1	0089A	FFF8004 A	DATA	X!FFF8004!
1804	1	0089B	FFF8004 A	DATA	X!FFF8004!
1805	1	0089C	3272045C	LW,7	MT1+64,1
1806	1	0089D	32D2049C	LW,13	MT2+64,1
1807	1	0089E	32D2040B	LW,13	RT3-1,1
1808	1	0089F	00000000 A	DATA	0
1809			*		PLM-ABORT
1810	1	008A0	FFFFFFF0 A	DATA	-16
1811	1	008A1	0A0003D4	PLM,0	MEMORY
1812	1	008A2	40000244	K	4,0,0,SETPSW
1813	1	008A3	B0000276	K	11,0,0,L6C+2
1814	1	008A4	FFFFFFF A	DATA	-1
1815	1	008A5	FFFFFFF A	DATA	-1
1816	1	008A6	0000040F	PZE,0	RT3+3
1817	1	008A7	0000040F	PZE,0	RT3+3
1818	1	008A8	00000000 A	PZE	
1819	1	008A9	00000000 A	PZE	
1820	1	008AA	FFF8000 A	DATA	X!FFF8000!
1821	1	008AB	FFF8000 A	DATA	X!FFF8000!
1822	1	008AC	3272045C	LW,7	MT1+64,1
1823	1	008AD	32D2049C	LW,13	MT2+64,1
1824	1	008AE	32D2040B	LW,13	RT3-1,1
1825	1	008AF	00000000 A	DATA	0
1826			*		PLM-TRAP
1827	1	008B0	FFFFFFF0 A	DATA	-16
1828	1	008B1	0A0003D4	PLM,0	MEMORY
1829	1	008B2	D730018E	K	13,7,3,SLSW
1830	1	008B3	D7300070	K	13,7,3,SLREP+1
1831	1	008B4	00000000 A	PZE	R12 IN

SUFFIX(2)

1832	1	008B5	00000000 A	PZE		R12 OUT
1833	1	008B6	00000418	PZE,0	RT3+12	M1 IN
1834	1	008B7	00000418	PZE,0	RT3+12	M1 OUT
1835	1	008B8	FFFFFFF A	DATA	-1	R13 IN
1836	1	008B9	FFFFFFF A	DATA	-1	R13 OUT
1837	1	008BA	00FF000C A	DATA	X'00FF000C'	M2 IN
1838	1	008BB	00FF000C A	DATA	X'00FF000C'	M2 OUT
1839	1	008BC	3272045C	LW,7	MT1+64,1	FMT
1840	1	008BD	32D2049C	LW,13	MT2+64,1	VMT/VMTR
1841	1	008BE	32D2040B	LW,13	RT3-1,1	VRTRCH
1842	1	008BF	00000000 A	DATA	0	RC
1843	*					PLM-INDIRECT ADDRESSING-INDEXING
1844	1	008C0	FFFFFFF0 A	DATA	-16	COUNT
1845	1	008C1	8AC202EB	PLM,12	*WKIA,1	INSTRUCTION TRAP
1846	1	008C2	C730018E	K	12,7,3,SLSW	PSW1 IN
1847	1	008C3	C730007D	K	12,7,3,SLRET+1	PSW1 OUT
1848	1	008C4	00000001 A	DATA	1	R12 IN-INDEX
1849	1	008C5	00000001 A	DATA	1	R12 OUT
1850	1	008C6	00000417	PZE,0	RT3+11	M1 IN
1851	1	008C7	00000417	PZE,0	RT3+11	M1 OUT
1852	1	008C8	000003D2	PZE,0	MEMORY-2	R13 IN-INDIRECT ADDRESS
1853	1	008C9	000003D2	PZE,0	MEMORY-2	R13 OUT
1854	1	008CA	000F0000 A	DATA	X'000F0000'	M2 IN
1855	1	008CB	000F0000 A	DATA	X'000F0000'	M2 OUT
1856	1	008CC	3272045C	LW,7	MT1+64,1	FMT
1857	1	008CD	32D2049C	LW,13	MT2+64,1	VMT/VMTR
1858	1	008CE	32D2040B	LW,13	RT3-1,1	VRTRCH
1859	1	008CF	00000000 A	DATA	0	RC
1860	*					PLM-TRAP
1861	1	008D0	FFFFFFF0 A	DATA	-16	COUNT
1862	1	008D1	0AD003D4	PLM,13	MEMORY	INSTRUCTION
1863	1	008D2	9730018E	K	9,7,3,SLSW	PSW1 IN
1864	1	008D3	9730007D	K	9,7,3,SLRET+1	PSW1 OUT
1865	1	008D4	FFFFFFF A	DATA	-1	R12 IN
1866	1	008D5	FFFFFFF A	DATA	-1	R12 OUT
1867	1	008D6	00000414	PZE,0	RT3+8	M1 IN
1868	1	008D7	00000414	PZE,0	RT3+8	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	8	M2 IN
1872	1 008DB	00000008 A	DATA	8	M2 OUT
1873	1 008DC	3272045C	LW,7	M1+64,1	FMT
1874	1 008DD	32D2049C	LW,13	M2+64,1	VMT/VMTR
1875	1 008DE	32D204CB	LW,13	RT3-1,1	VRTRCH
1876	1 008DF	00000000 A	DATA	0	RC
1877		*			PLM-TRAP
1878	1 008E0	FFFFFFF0 A	DATA	-16	COUNT
1879	1 008E1	0A1003D4	PLM,1	MEMORY	INSTRUCTION
1880	1 008E2	8730018C	K	8,7,3:SLSH	PSW1 IN
1881	1 008E3	87300070	K	8,7,3:SLRET+1	PSW1 OUT
1882	1 008E4	00000000 A	PZE		R12 IN
1883	1 008E5	00000000 A	PZE		R12 OUT
1884	1 008E6	00000413	PZE,0	RT3+7	M1 IN
1885	1 008E7	00000413	PZE,0	RT3+7	M1 OUT
1886	1 008E8	FFFFFFFF A	DATA	-1	R13 IN
1887	1 008E9	FFFFFFFE A	DATA	-1	R13 OUT
1888	1 008EA	00000000 A	PZE		M2 IN
1889	1 008EB	00000000 A	PZE		M2 OUT
1890	1 008EC	3272045C	LW,7	M1+64,1	FMT
1891	1 008ED	32D2045C	LW,13	M2+64,1	VMT/VMTR
1892	1 008EE	32D204CB	LW,13	RT3-1,1	VRTRCH
1893	1 008EF	00000000 A	DATA	0	RC
1894		*			PLM-TRAP
1895	1 008F0	FFFFFFF0 A	DATA	-16	COUNT
1896	1 008F1	0A2003D4	PLM,2	MEMORY	INSTRUCTION
1897	1 008F2	77300371	K	7,7,3:SLSH	PSW1 IN
1898	1 008F3	77300070	K	7,7,3:SLRET+1	PSW1 OUT
1899	1 008F4	FFFFFFF0 A	DATA	-1	R12 IN
1900	1 008F5	FFFFFFF0 A	DATA	-1	R12 OUT
1901	1 008F6	00000413	PZE,0	RT3+6	M1 IN
1902	1 008F7	00000413	PZE,0	RT3+6	M1 OUT
1903	1 008F8	00000000 A	PZE		R13 IN
1904	1 008F9	00000000 A	PZE		R13 OUT
1905	1 008FA	71F90008 A	DATA	X17FF900000	M2 IN
1906	1 008FB	71F90008 A	DATA	X17FF900000	M2 OUT
1907	1 008FC	3272045C	LW,7	M1+64,1	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	00000410	PZE,0	RT3+4	M1 IN
1919	1 00907	00000410	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	C0-41
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	0000040F	PZE,0	RT3+3	M1 IN
1936	1 00917	0000040F	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	FFFFFFF0 A	DATA	-16	COUNT
1947	1 00921	0B0003D4	PSM,0	MEMORY	INSTRUCTION
1948	1 00922	00300244	K	0,0,3,SETPS1	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	00000520	PZE,0	VRT-1	M1 IN
1953	1 00927	00000530	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	VMT/VMTR
1960	1 0092E	32D203E8	LW,13	RT1-1,1	VRTRCH
1961	1 0092F	00000010 A	DATA	16	RC
1962		*			PSM
1963	1 00930	FFFFFFF0 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 IN
1968	1 00935	01234567 A	DATA	X'1234567'	R12 OUT
1969	1 00936	00000520	PZE,0	VRT-1	M1 IN
1970	1 00937	00000530	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	VMT/VMTR
1977	1 0093E	32D203E8	LW,13	RT1-1,1	VRTRCH
1978	1 0093F	00000010 A	DATA	16	RC
1979		*			PSM-INDEXING
1980	1 00940	FFFFFFF0 A	DATA	-16	COUNT
1981	1 00941	0B028EA4	PSM,0	MEMORY+X'168AD01,1	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	FFFFFFF0 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	FFFFFFF0 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'68AD01
2023	1	00969	01234567 A	DATA	X'12345671
2024	1	0096A	000C0000 A	DATA	X'C00001
2025	1	0096B	0001000B A	DATA	X'1000B1
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,L6C42
2035	1	00974	FFFFFFFFF A	DATA	-1
2036	1	00975	FFFFFFFFF A	DATA	-1
2037	1	00976	0000052D	PZE,0	VRT-1
2038	1	00977	0000052D	PZE,0	VRT1-1
2039	1	00978	00000000 A	PZE	
2040	1	00979	00000000 A	PZE	
2041	1	0097A	000EFFFB3 A	DATA	X'1000EFFFB31
2042	1	0097B	000EFFFB3 A	DATA	X'1000EFFFB31
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	80000C2EB	PSM,13	*WKIA
2050	1	00982	70000244	K	7,0,0,SETPSW
2051	1	00983	80000276	K	8,0,0,L6C42
2052	1	00984	00000000 A	PZE	
2053	1	00985	00000000 A	PZE	
2054	1	00986	0000052D	PZE,0	VRT-1
2055	1	00987	0000052D	PZE,0	VRT1-1
2056	1	00988	00000004	PZE,0	MEMORY
2057	1	00989	000003D4	PZE,0	MEMORY
2058	1	0098A	80067FF8 A	DATA	X'180067FF81
2059	1	0098B	80067FF8 A	DATA	X'180067FF81

			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	FFFFFFF0 A	DATA	-16	COUNT
2066	1 00991	0B1203D2	PSM,1	MEMORY-2,1	INSTRUCTION
2067	1 00992	60300244	K	6,0,0,SETPSW	PSW1 IN
2068	1 00993	90000276	K	9,0,0,L0C+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	FFFFFFF F A	DATA	-1	R13 IN
2074	1 00999	FFFFFFF F 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	FFFFFFF0 A	DATA	-16	COUNT
2083	1 009A1	8B2202E3	PSM,2	*WKIA,1	INSTRUCTION
2084	1 009A2	50300244	K	5,0,0,SETPSW	PSW1 IN
2085	1 009A3	A0000276	K	10,0,0,L0C+2	PSW1 OUT
2086	1 009A4	FFFFFFC0 A	DATA	-64	R12 IN-INDEX
2087	1 009A5	FFFFFFC0 A	DATA	-64	R12 OUT
2088	1 009A6	0600052D	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	*				
2099	1 00980	FFFFFFFFFF A	DATA -16	PSM-ABORT	COUNT
2100	1 00981	0B3003D4	PSM,3 MEMORY	INSTRUCTION	PSW1 IN
2101	1 00982	30000244	K 3,0,0,SETPSW	PSW1 OUT	PSW1 OUT
2102	1 00983	C0000276	K 12,0,0,L0C*2	R12 IN	R12 IN
2103	1 00984	FFFFFFFFFF A	DATA -1	R12 OUT	M1 IN
2104	1 00985	FFFFFFFFFF A	DATA -1	M1 OUT	M1 OUT
2105	1 00986	0000052D	PZE,0 VRT-1	R13 IN	R13 IN
2106	1 00987	0000052D	PZE,0 VRT-1	R13 OUT	R13 OUT
2107	1 00988	00000000 A	PZE	M2 IN	M2 IN
2108	1 00989	00000000 A	PZE	M2 OUT	M2 OUT
2109	1 0098A	80007FFC A	DATA X180007FFC1	FMT	VMT/VMT
2110	1 0098B	80007FFC A	DATA X180007FFC1	VRTRCH	VRTRCH
2111	1 0098C	3272045C	LW,7 MT1+64,1	RC	RC
2112	1 0098D	32D2049C	LW,13 MT2+64,1	PSM-ABORT	PSM-ABORT
2113	1 0098E	32D203E8	LW,13 RT1+1,1	COUNT	COUNT
2114	1 0098F	00000000 A	DATA 0	INSTRUCTION	INSTRUCTION
2115	*			PSW1 IN	PSW1 IN
2116	1 009C0	FFFFFFFFFF A	DATA -16	PSW1 OUT	R12 IN
2117	1 009C1	0B4003D4	PSM,4 MEMORY	R12 OUT	R12 OUT
2118	1 009C2	20000244	K 2,0,0,SETPSW	M1 IN	M1 IN
2119	1 009C3	D0000276	K 13,0,0,L0C*2	M1 OUT	M1 OUT
2120	1 009C4	00000000 A	PZE	R13 IN	R13 IN
2121	1 009C5	00000000 A	PZE	R13 OUT	R13 OUT
2122	1 009C6	00C3052D	PZE,0 VRT-1	M2 IN	M2 IN
2123	1 009C7	0000052D	PZE,0 VRT-1	M2 OUT	M2 OUT
2124	1 009C8	FFFFFFFFFF A	DATA -1	FMT	VMT/VMT
2125	1 009C9	FFFFFFFFFF A	DATA -1	VRTRCH	VRTRCH
2126	1 009CA	80000000 A	DATA X1800000001	RC	RC
2127	1 009CB	80000000 A	DATA X1800000001	PSM-ABORT	PSM-ABORT
2128	1 009CC	3272045C	LW,7 MT1+64,1	COUNT	COUNT
2129	1 009CD	32D2049C	LW,13 MT2+64,1	INSTRUCTION	INSTRUCTION
2130	1 009CE	32D203E8	LW,13 RT1+1,1	PSW1 IN	PSW1 IN
2131	1 009CF	00000000 A	DATA 0		
2132	*				
2133	1 009D0	FFFFFFFFFF A	DATA -16		
2134	1 009D1	0B5003D4	PSM,5 MEMORY		
2135	1 009D2	10000244	K 14,0,0,SETPSW		

			SUFFIX(2)		
2136	1 009D3	E0000276	K	14,0,0,LOC+2	PSW1 OUT
2137	1 009D4	FFFFFFFFFF A	DATA	-1	R12 IN
2138	1 009D5	FFFFFFFFFF A	DATA	-1	R12 OUT
2139	1 009D6	0000052D	PZE,0	VRT-1	M1 IN
2140	1 009D7	0000052D	PZE,0	VRT-1	M1 OUT
2141	1 009D8	00000000 A	PZE		R13 IN
2142	1 009D9	00000000 A	PZE		R13 OUT
2143	1 C09DA	80,11,1FF A	DATA	X'8000FFFF'	M2 IN
2144	1 C09DB	40000FFF A	DATA	X'8000FFFF'	M2 OUT
2145	1 009DC	32D2045C	LW,7	MT1+64,1	FMT
2146	1 009DD	32D2049C	LW,13	MT2+64,1	VMT/VMTB
2147	1 009DE	32D203E8	LW,13	RT1-1,1	VRTRCH
2148	1 009DF	00000000 A	DATA	0	RC
2149		*			PSW4-TRAP
2150	1 009E0	FF1FFFFFF A	DATA	-16	COUNT
2151	1 009E1	0B6003D4	PSW,6	MEMORY	INSTRUCTION
2152	1 009E2	D730018F	K	13,7,3,SLIM	PSW1 IN
2153	1 009E3	D730007D	K	13,7,3,SLIM+1	PSW1 OUT
2154	1 009E4	00000000 A	PZE		R12 IN
2155	1 C09E5	00000000 A	PZE		R12 OUT
2156	1 009E6	0000052D	PZE,0	VRT-1	M1 IN
2157	1 009E7	0000052D	PZE,0	VRT-1	M1 OUT
2158	1 009E8	FFFFFFFFFF A	DATA	-1	R13 IN
2159	1 009E9	FFFFFFFFFF A	DATA	-1	R13 OUT
2160	1 009EA	000E7FFF3 A	DATA	X'00007FFF3'	M2 IN
2161	1 009EB	000E7FFF3 A	DATA	X'00007FFF3'	M2 OUT
2162	1 009EC	3272045C	LW,7	MT1+64,1	FMT
2163	1 009ED	32D2049C	LW,13	MT2+64,1	VMT/VMTB
2164	1 009EE	32D203E8	LW,13	RT1-1,1	VRTRCH
2165	1 009EF	00000000 A	DATA	0	RC
2166		*			PSW4-INDETERMINATE ADDRESS INDEXING
2167	1 009F0	FF1FFFFFF A	DATA	-16	COUNT
2168	1 009F1	8872026B	PSW,7	LINKIA+1	INSTRUCTION
2169	1 009F2	7730018F	K	7,7,3,SLIM	PSW1 IN
2170	1 009F3	7730007D	K	7,7,3,SLIM+1	PSW1 OUT
2171	1 009F4	FFFFFFFFFF A	DATA	-1	R12 IN-TRAP
2172	1 009F5	FFFFFFFFFF A	DATA	-1	R12 OUT
2173	1 009F6	0000052D	PZE,0	VRT-1	M1 IN

PREFIX(2)			
2174	1 009F7	0000052D	PZE,0 VRT-1
2175	1 009F8	000003D6	PZE,0 MEMORY+2
2176	1 009F9	000003D6	PZE,0 MEMORY+2
2177	1 009FA	00067FF9 A	DATA X'00067FF9'
2178	1 009FB	00067FF9 A	DATA X'00067FF9'
2179	1 C09FC	32D2045C	LW,7 MT1+64,1
2180	1 009FD	32D2049C	LW,13 MT2+64,1
2181	1 009FE	32D203E8	LW,13 RT1~1,1
2182	1 009FF	00000000 A	DATA 0
2183		*	
2184	1 COA00	FFFFFFFFFF A	DATA -16
2185	1 COA01	0B7003D4	PSM,7 MEMORY
2186	1 COA02	6730018E	K 6,7,3,SLSW
2187	1 COA03	6730007D	K 6,7,3,SLRET+1
2188	1 COA04	00000000 A	PZE
2189	1 COA05	00000000 A	PZE
2190	1 COA06	0000052D	PZE,0 VRT-1
2191	1 COA07	0000052D	PZE,0 VRT-1
2192	1 COA08	FFFFFFFFFF A	DATA -1
2193	1 COA09	FFFFFFFFFF A	DATA -1
2194	1 COA0A	00050000 A	DATA X'00050000'
2195	1 COA0B	00050000 A	DATA X'00050000'
2196	1 COA0C	3272045C	LW,7 MT1+64,1
2197	1 COA0D	32D2049C	LW,13 MT2+64,1
2198	1 COA0E	32D203E8	LW,13 RT1~1,1
2199	1 COA0F	00000000 A	DATA 0
2200		*	
2201	1 COA10	FFFFFFFFFF A	DATA -16
2202	1 COA11	0B8003D4	PSM,8 MEMORY
2203	1 COA12	5730018E	K 5,7,3,SLSW
2204	1 COA13	5730007D	K 5,7,3,SLRET+1
2205	1 COA14	FFFFFFFFFF A	DATA -1
2206	1 COA15	FFFFFFFFFF A	DATA -1
2207	1 COA16	0000052D	PZE,0 VRT-1
2208	1 COA17	0000052D	PZE,0 VRT-1
2209	1 COA18	00000000 A	PZE
2210	1 COA19	00000000 A	PZE
2211	1 COA1A	00047FF8 A	DATA X'00047FF8'

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		*	RC
2218	1 00A20	FFFFFFFFFF A	PSM-TRAP
2219	1 00A21	0B9003D4	COUNT
2220	1 00A22	3730018E	INSTRUCTION
2221	1 00A23	3730007D	PSW1 IN
2222	1 00A24	00000000 A	PSW1 OUT
2223	1 00A25	00000000 A	R12 IN
2224	1 00A26	0000052D	R12 OUT
2225	1 00A27	0000052D	M1 IN
2226	1 00A28	FFFFFFFFFF A	M1 OUT
2227	1 00A29	FFFFFFFFFF A	R13 IN
2228	1 00A2A	00007FFC A	R13 OUT
2229	1 00A2B	00007FFC A	M2 IN
2230	1 00A2C	3272045C	M2 OUT
2231	1 00A2D	32D2049C	FMT
2232	1 00A2E	32D203EB	VMT/VMTR
2233	1 00A2F	00000000 A	VRTRCH
2234		*	RC
2235	1 00A30	FFFFFFFFFF A	PSM-TRAP
2236	1 00A31	0BAA003D4	COUNT
2237	1 00A32	2730018E	INSTRUCTION
2238	1 00A33	2730007D	PSW1 IN
2239	1 00A34	FFFFFFFFFF A	PSW1 OUT
2240	1 00A35	FFFFFFFFFF A	R12 IN
2241	1 00A36	0000052D	R12 OUT
2242	1 00A37	0000052D	M1 IN
2243	1 00A38	00000000 A	M1 OUT
2244	1 00A39	00000000 A	R13 IN
2245	1 00A3A	00000000 A	R13 OUT
2246	1 00A3B	00000000 A	M2 IN
2247	1 00A3C	3272045C	M2 OUT
2248	1 00A3D	32D2049C	FMT
2249	1 00A3E	32D203EB	VMT/VMTR
			VRTRCH

			SUFFIX(2)		
2250	1	00A3F	00000000 A	DATA	0
2251	*				RC
2252	1	00A40	FFFFFFFFFF0 A	DATA	-16
2253	1	00A41	03E0003D4	PSM,11	MEMORY
2254	1	00A42	1730018E	K	1,7,3, SLSW
2255	1	00A43	1730007D	K	1,7,3, SLRET+1
2256	1	00A44	00000000 A	PZE	
2257	1	00A45	00000000 A	PZE	
2258	1	00A46	0000052D	PZE,0	VRT-1
2259	1	00A47	0000052D	PZE,0	VRT-1
2260	1	00A48	FFFFFFFFFF A	DATA	-1
2261	1	00A49	FFFFFFFFFF A	DATA	-1
2262	1	00A4A	00007FFF A	DATA	X'00007FFF'
2263	1	00A4B	00007FFF A	DATA	X'00007FFF'
2264	1	00A4C	3272045C	LW,7	MT1+64,1
2265	1	00A4D	32D2049C	LW,13	MT2+64,1
2266	1	00A4E	32D203EB	LW,13	RT1-1,1
2267	1	00A4F	00000000 A	DATA	0
2268	*				RC
2269	1	00A50	FFFFFFFFFF2 A	DATA	-14
2270	1	00A51	29C00590	CVA,12	VMT
2271	1	00A52	073C0244	K	0,7,3, SETPSW
2272	1	00A53	07300276	K	0,7,3, LOC42
2273	1	00A54	FEDCBA98 A	DATA	X'FEDCBA98'
2274	1	00A55	00000000 A	DATA	0
2275	1	00A56	FEDCBA98 A	DATA	X'FEDCBA98'
2276	1	00A57	FEDCBA98 A	DATA	X'FEDCBA98'
2277	1	00A58	00000000 A	DATA	0
2278	1	00A59	00000000 A	DATA	0
2279	1	00A5A	00000000 A	DATA	0
2280	1	00A5B	00000000 A	DATA	0
2281	1	00A5C	3272045C	LW,7	MT1+64,1
2282	1	00A5D	32D2049C	LW,13	MT2+64,1
2283	*				CVA-INDEXING
2284	1	00A5E	FFFFFFFFFF2 A	DATA	-14
2285	1	00A5F	29C20590	CVA,12	VMT,1
2286	1	00A60	F0300244	K	15,0,3, SETPSW
2287	1	00A61	D0300276	K	13,0,3, LOC42

			SUFFIX(2)		
2288	1	00A62	00000020 A	DATA	32 R12 IN-INDEX
2289	1	00A63	FFFFFFFFFF A	DATA	-1 R12 OUT
2290	1	00A64	00000000 A	DATA	0 M1 IN
2291	1	00A65	00000000 A	DATA	0 M1 OUT
2292	1	00A66	FFFFFC0000 A	DATA	X'FFFF0000' R13 IN
2293	1	00A67	FFFFF0000 A	DATA	X'FFFF0000' R13 OUT
2294	1	00A68	FFFFFFFFFF A	DATA	-1 M2 IN
2295	1	00A69	FFFFFFFFFF A	DATA	-1 M2 OUT
2296	1	00A6A	3272045C	LW,7	MT1+64,1 FMT
2297	1	00A6B	32D2049C	LW,13	MT2+64,1 VMT/VMTR
2298	*				CVA
2299	1	00A6C	FFFFFFFFFF2 A	DATA	-14 COUNT
2300	1	00A6D	29C00590	CVA,12	VMT INSTRUCTION
2301	1	00A6E	A7000244	K	10,7,0,SETPSW PSW1 IN
2302	1	00A6F	17000276	K	1,7,0,LBC42 PSW1 OUT
2303	1	00A70	00000000 A	DATA	0 R12 IN
2304	1	00A71	FFFFFFFFFF A	DATA	-1 R12 OUT
2305	1	00A72	FFFFFFFFFF A	DATA	-1 M1 IN
2306	1	00A73	FFFFFFFFFF A	DATA	-1 M1 OUT
2307	1	00A74	FFFFFFFFFF A	DATA	-1 R13 IN
2308	1	00A75	FFFFFFFFFF A	DATA	-1 R13 OUT
2309	1	00A76	00000000 A	DATA	0 M2 IN
2310	1	00A77	00000000 A	DATA	0 M2 OUT
2311	1	00A78	3272045C	LW,7	MT1+64,1 FMT
2312	1	00A79	32D2049C	LW,13	MT2+64,1 VMT/VTR
2313	*				CVA-INDIRECT ADDRESSING
2314	1	00A7A	FFFFFFFFFF2 A	DATA	-14 COUNT
2315	1	00A7B	A9C002E0	CVA,12	*WKIA INSTRUCTION
2316	1	00A7C	50000244	K	5,0,0,SETPSW PSW1 IN
2317	1	00A7D	60000276	K	6,0,0,LBC42 PSW1 OUT
2318	1	00A7E	FFFFFFFFFF A	DATA	-1 R12 IN
2319	1	00A7F	02A00000 A	DATA	X'9A00000' M1 IN
2320	1	00A80	FFFFFFFFFF A	DATA	-1 M1 OUT
2321	1	00A81	FFFFFFFFFF A	DATA	-1 R13 IN
2322	1	00A82	00000590	PZE,0	VMT R13 OUT
2323	1	00A83	00000590	PZE,0	VMT M2 IN
2324	1	00A84	00000000 A	PZE	M2 OUT
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	COUNT
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	COUNT
2345	1 00A97	28C00590	CVS,12	VMT	INSTRUCTION
2346	1 00A98	07300244	K	0,7,3,SETPSW	PSW1 IN
2347	1 00A99	073C0276	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	COUNT
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 A	DATA	X'EFFFFFFFF'	R12 IN

SUFFIX(2)			
2314	"1 00AA9	0696968C A	DATA X'696968C'
2365	1 0GAAA	000C0000 A	PZE
2366	1 00AAB	C0000000 A	PZE
2367	1 00AAC	F0FOFOFO 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	*		
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 00ABA	FFFFFFFF A	DATA -1
2383	1 00AB8	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	*		
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	F0FOFOFO 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

CVS

COUNT
INSTRUCTION
PSW1 IN
PSW1 BUT
R12 IN
R12 BUT
M1 IN
M1 BUT
R13 IN
R13 BUT
M2 IN
M2 BUT
FMT
VMT/VMTR

CVS-INDEXING

COUNT
INSTRUCTION
PSW1 IN
PSW1 BUT
R12 IN-INDEX
R12 BUT
M1 IN
M1 BUT
R13 IN
R13 BUT
M2 IN
M2 BUT
FMT
VMT/VMTR

			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	OFCFOFOF 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'FOFCFOFO'	RO OUT
2427	1 OOA E4	FF001640	J	X'FF',BA(VMT)	R13 IN
2428	1 OOA E5	0000173F	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	00001070	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 = 35D003B8  
 R13 = 3252045C  
 R13 = 00000000

R12 =  
 R13 =

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	R0 IN
2443	1 00AF3	FFFFFFF A	DATA	-1	R0 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	FFFFFF0 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	FFFFFF0 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	FFFFFF A	DATA	-1	RO IN
2477	1 00B13	FFFFFF A	DATA	-1	RO OUT

SUFFIX(2)			
2478	1 00B14	00001640	J 0,BA(VMT)
2479	1 00B15	00001640	J 0,BA(VMT)
2480	1 00B16	00000000 A	PZE
2481	1 00B17	00000000 A	PZE
2482	1 00B18	3272045C	LW,7 MT1+64,1
2483	1 00B19	32D2049C	LW,13 MT2+64,1
2484	1 00B1A	00001640	J 0,BA(VMT)
2485	1 00B1B	00000000 A	DATA 0
2486		*	
2487	1 00B1C	FFFFFFF0 A	DATA -16
2488	1 00B1D	61DFFEF8 A	MBS,13 -264
2489	1 00B1E	F0300244	K 15,0,3,SETPSW
2490	1 00B1F	F0300276	K 15,0,3,L8C+2
2491	1 00B20	00000000 A	DATA 0
2492	1 00B21	00000000 A	DATA 0
2493	1 00B22	FFFFFFF0 A	DATA 0
2494	1 00B23	FFFFFFF0 A	DATA -1
2495	1 00B24	FFC001640	DATA -1
2496	1 00B25	0000173F	J X'FF',BA(VMT)
2497	1 00B26	00000000 A	J 0,BA(VMT)+255
2498	1 00B27	00000000 A	DATA 0
2499	1 00B28	3272045C	DATA 0
2500	1 00B29	32D2049C	LW,7 MT1+64,1
2501	1 00B2A	00001070	LW,13 MT2+64,1
2502	1 00B2B	00C000FF A	J 0,BA(MT1)
2503		*	DATA 255
2504	1 00B2C	FFFFFFF0 A	
2505	1 00B2D	61DFFEF8 A	DATA -16
2506	1 00B2E	B2000244	MBS,13 -264
2507	1 00B2F	B2000276	K 11,2,0,SETPSW
2508	1 00B30	FFFFFFF0 A	K 11,2,0,L8C+2
2509	1 00B31	FFFFFFF0 A	DATA -1
2510	1 00B32	FFFFFFF0 A	DATA -1
2511	1 00B33	FFFFFFF0 A	DATA -1
2512	1 00B34	0B001640	DATA -1
2513	1 00B35	0000164B	J 11,BA(VMT)
2514	1 00B36	FFFFFFF0 A	J 0,BA(VMT)+11
2515	1 00B37	FFFFFFF0 A	DATA -1
		*	DATA -1

91

R13 IN  
R13 OUT  
R1 IN  
R1 OUT  
FMT  
VMT/VMTR  
VMTRCH  
MC

MBS-BDD REGISTER

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

MBS-BDD REGISTER

COUNT

INSTRUCTION

PSW1 IN

PSW1 OUT

R12 IN

R12 OUT

RO IN

RO OUT

R13 IN

R13 OUT

R1 IN

R1 OUT

R13=

R14=

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	FFFFFFF0 A	DATA	-16	COUNT	
2522	1 C0B3D	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	<i>RO = RI =</i>
2525	1 00B40	FFFFFFF A	DATA	-1	R12 IN	
2526	1 00B41	FFFFFFF A	DATA	-1	R12 OUT	
2527	1 00B42	FFFFFFF A	DATA	-1	RO IN	
2528	1 00B43	FFFFFFF 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	FFFFFFF0 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	<i>RO = RI =</i>
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	0C001640	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-NOT WORD BOUNDARY-OVERLAP		
2572	1 00B6C	FFFFFFFFFF A	C 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	000012A0	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'	R0 IN
2596	1 00B83	F0FOFOFO A	DATA	X'FCFOFOFO'	R0 OUT
2597	1 00B84	FF001640	J	X'FF!,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 C0B97	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	RO OUT
2631	1 00BA4	0D001640	J	13,BA(VMT)	R13 IN
2632	1 00BA5	06001647	J	6,BA(VMT)+7	R13 OUT
2633	1 00BA6	00000000 A	PZE		R1 IN
2634	1 00BA7	00000000 A	PZE		R1 OUT
2635	1 00BA8	3272045C	LW,7	MT1+64,1	FMT
2636	1 00BA9	32D204DE	LW,13	MT4+64,1	VMT/VMTR
2637	1 00BAA	00001278	J	0,BA(MT4)	VMTRCH
2638	1 00BAB	00000000 A	DATA	0	CBS-THIRD BYTE DOESN'T COMPARE
2639					COUNT
2640	1 00BAC	FFFFFFF0 A	DATA	-16	INSTRUCTION
2641	1 00BAD	60C00000 A	CBS,12	0	PSW1 IN
2642	1 00BAE	02200244	K	0,2,2,SETPSW	PSW1 OUT
2643	1 00BAF	12200276	K	1,2,2,L8C+2	R12 IN
2644	1 00B80	00001538	J	0,BA(FMT)	R12 OUT
2645	1 00B81	0000153A	J	0,BA(FMT)+2	RO IN
2646	1 00B82	00000000 A	PZE		RO OUT
2647	1 00B83	00000000 A	PZE		R13 IN
2648	1 00B84	FFC01640	J	X'FF',BA(VMT)	R13 OUT
2649	1 00B85	FD001642	J	253,BA(VMT)+2	R1 IN
2650	1 00B86	FFFFFFFFFF A	DATA	-1	R1 OUT
2651	1 00B87	FFFFFFFFFF A	DATA	-1	FMT
2652	1 00B88	3272045C	LW,7	MT1+64,1	VMT/VMTR
2653	1 00B89	32D204E0	LW,13	MT4+66,1	VMTRCH
2654	1 00B8A	00001280	J	0,BA(MT4)+8	MC
2655	1 00B8B	00000000 A	DATA	0	CBS-SECOND BYTE DOESN'T COMPARE
2656					COUNT
2657	1 00BBC	FFFFFFF0 A	DATA	-16	INSTRUCTION
2658	1 00B8D	60C00000 A	CBS,12	0	PSW1 IN
2659	1 00B8E	F7000244	K	15,7,0,SETPSW	PSW1 OUT
2660	1 00B8F	D7000276	K	13,7,0,L8C+2	R12 IN
2661	1 00BC0	00001538	J	0,BA(FMT)	R12 OUT
2662	1 00BC1	00001539	J	0,BA(FMT)+1	RO IN
2663	1 00BC2	FFFFFFFFFF A	DATA	-1	RO OUT
2664	1 00BC3	FFFFFFFFFF A	DATA	-1	R13 IN
2665	1 00BC4	FF001640	J	X'FF',BA(VMT)	R13 OUT
2666	1 00BC5	FE001641	J	254,BA(VMT)+1	R1 IN
2667	1 00BC6	00000000 A	PZE		

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 00BC1	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 008EB	00000000 A	*
2707			
2708	1 008EC	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

RC

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	00000C00 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,SI9NA0	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	04001640	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	32D2045C	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	60C000C8 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	40CC1640	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	32D2044C	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	OF0FOFOF A	DATA	X'FOFOFOF'	RO IN
2817	1 00C53	OF0FOFOF 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	F0F0F0FO A	DATA X'F0F0F0FO'	R1 IN
2821	1 00C57	F0F0F0FO A	DATA X'F0F0F0FO'	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	FFFFFFFFFF 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,L0C+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	FFFFFFFFFF A	DATA -1	R1 IN
2838	1 00C67	FFFFFFFFFF 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	FFFFFFFFFF 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,L0C+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	FFFFFFFFFF A	DATA -1	RO IN
2851	1 00C73	FFFFFFFFFF 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	41C0FFFF 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	FFFFFFF0 A	DATA -16	COUNT
2947	1 00CCD	41C00000 A	TBS,12 0	INSTRUCTION
2948	1 00CEE	40000244	K 4,0,0,SETPSW	PSW1 IN
2949	1 00CCF	40000276	K 4,0,0,L0C+2	PSW1 OUT
2950	1 00CDF	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 00CDB	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 00EDB	00000007 A	DATA 7	MC
2962		*		TBS-TRANSLATE EIGHT BYTES
2963	1 00CDC	FFFFFFF0 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 00CE0	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	FOFOFOFO 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,SI9NA8	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	LW,13 MT3+64,1
3011	1 00D0A	00001070	J 0,BA(MT1)
3012	1 00D0B	00000000 A	DATA 0
3013			TTBS
3014	1 00D0C	FFFFFFFFFF A	DATA -16
3015	1 00D0D	40C00000 A	TTBS,12 0
3016	1 00D0E	27300244	K 2,7,3,SETPSW
3017	1 00D0F	27300276	K 2,7,3,L0C+2
3018	1 00D10	00001538	J 0,BA(FMT)
3019	1 00D11	00001538	J 0,BA(FMT)
3020	1 00D12	00000000 A	PZE
3021	1 00D13	00000000 A	PZE
3022	1 00D14	FF001640	J X'FF',BA(VMT)
3023	1 00D15	0000173F	J 0,BA(VMT)+255
3024	1 00D16	FFFFFFFFFF A	DATA -1
3025	1 00D17	FFFFFFFFFF A	DATA -1
3026	1 00D18	3272045C	LW,7 MT1+64,1
3027	1 00D19	32D204EC	LW,13 MT3+64,1
3028	1 00D1A	000012B0	J 0,BA(MT3)
3029	1 00D1B	00000000 A	DATA 0
3030			TTBS-REGISTER ZERO
3031	1 00D1C	FFFFFFFFFF A	DATA -16
3032	1 00D1D	40001538	TTBS,0 BA(FMT)
3033	1 00D1E	F0300244	K 15,0,3,SETPSW
3034	1 00D1F	E0300276	K 14,0,3,L0C+2
3035	1 00D20	F0FOFOFO A	DATA X'FOFOFOFO'
3036	1 00D21	FCFOFOFO A	DATA X'FOFOFOFO'
3037	1 00D22	OFCFOFOF A	DATA X'FOFOFOF'
3038	1 00D23	OFOFCFOF A	DATA X'FOFOFOF'
3039	1 00D24	OFCFOFOF A	DATA X'FOFOFOF'
3040	1 00D25	OFOFOFOF A	DATA X'FOFOFOF'
3041	1 00D26	FF001640	J X'FF',BA(VMT)
3042	1 00D27	0000173F	J 0,BA(VMT)+255
3043	1 00D28	22700000 A	LW,7 0
3044	1 00D29	32D204EC	LW,13 MT3+64,1
3045	1 00D2A	000012B0	J 0,BA(MT3)
3046	1 00D2B	00000000 A	DATA 0
3047			TTBS-REGISTER ZERO

SUFFIX(2)			
3048	1 00D2C	FFFFFFFFFF A	DATA -16
3049	1 00D2D	40001538	TTBS,0 BA(FMT)
3050	1 00D2E	E7200244	K 14,7,2,SETPSW
3051	1 00D2F	F7200276	K 15,7,2,L8C+2
3052	1 00D30	FFFFFFFFFF A	DATA -1
3053	1 00D31	FFFFFFFFFF A	DATA -1
3054	1 00D32	00000000 A	PZE
3055	1 00D33	00000000 A	PZE
3056	1 00D34	00000000 A	PZE
3057	1 00D35	00000000 A	PZE
3058	1 00D36	FF001640	J X'FF!,BA(VMT)
3059	1 00D37	FC001643	J X'FC!,BA(VMT)+3
3060	1 00D38	227000FF A	LW,7 X'FF!
3061	1 00D39	32D204EC	LW,13 MT3+64,1
3062	1 00D3A	000012B0	J 0,BA(MT3)
3063	1 00D3B	00000000 A	DATA 0
3064		*	TTBS-BIT 31 COMPARES-FIRST WORD
3065	1 00D3C	FFFFFFFFFF A	DATA -16
3066	1 00D3D	40C00000 A	TTBS,12 10
3067	1 00D3E	03100244	K 0,3,1,SETPSW
3068	1 00D3F	13100276	K 1,3,1,L8C+2
3069	1 00D40	FF00152E	J X'FF!,BA(FMT)-10
3070	1 00D41	0100152E	J 1,BA(FMT)-10
3071	1 00D42	FFFFFFFFFF A	DATA -1
3072	1 00D43	FFFFFFFFFF A	DATA -1
3073	1 00D44	04001640	J 4,BA(VMT)
3074	1 00D45	01001643	J 1,BA(VMT)+3
3075	1 00D46	00000000 A	PZE
3076	1 00D47	00000000 A	PZE
3077	1 00D48	3272049C	LW,7 MT2+64,1
3078	1 00D49	32D204EC	LW,13 MT3+64,1
3079	1 00D4A	000012B0	J 0,BA(MT3)
3080	1 00D4B	00000000 A	DATA 0
3081		*	TTBS-BIT 30 COMPARES-SECOND WORD
3082	1 00D4C	FFFFFFFFFF A	DATA -16
3083	1 00D4D	40C00000 A	TTBS,12 0
3084	1 00D4E	11100244	K 1,1,1,SETPSW
3085	1 00D4F	11100276	K 1,1,1,L8C+2
			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
			MVTRCH
			MC

SUFFIX(2)			
3086	1 00D50	FE001538	J X'FE1,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	FFFFFFF A	DATA -1
3093	1 00D57	FFFFFFF A	DATA -1
3094	1 00D58	3272049C	LW,7 MT2+64,1
3095	1 00D59	32D204EC	LW,13 MT3+64,1
3096	1 00D5A	00001280	J 0,BA(MT3)
3097	1 00D5B	00000000 A	DATA 0
3098		*	
3099	1 00D5C	FFFFFFF0 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'FC1,BA(FMT)
3104	1 00D61	04001538	J 4,BA(FMT)
3105	1 00D62	FFFFFFF A	DATA -1
3106	1 00D63	FFFFFFF A	DATA -1
3107	1 00D64	0CC01640	J (12,BA(VMT))
3108	1 00D65	0100164B	J 1,BA(VMT)+11
3109	1 00D66	00000000 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	00001280	J 0,BA(MT3)
3114	1 00D6B	00000000 A	DATA 0
3115		*	
3116	1 00D6C	FFFFFFF0 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,LAC+2
3120	1 00D70	58001538	J X'581,BA(FMT)
3121	1 00D71	08001538	J 8,BA(FMT)
3122	1 00D72	00000000 A	PZE
3123	1 00D73	00000000 A	PZE
			TTBS-BIT 29 COMPARES-THIRD WORD
			COUNT
			INSTRUCTION
			PSW1 IN
			PSW1 OUT
			R12 IN
			R12 OUT
			R1 IN
			R1 OUT
			FMT
			VMT/VMTR
			VMTRCH
			MC
			TTBS-BIT 28 COMPARES-FOURTH WORD
			COUNT
			INSTRUCTION
			PSW1 IN
			PSW1 OUT
			R12 IN
			R12 OUT
			RO IN
			RO OUT

## 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	000012B0	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,L8C+2	PSW1 OUT
3137	1 00080	F0001538	J	X'F0',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	000012B0	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,L8C+2	PSW1 OUT
3154	1 00090	E0001538	J	X'E0',BA(FMT)	R12 IN
3155	1 00091	20001538	J	X'20',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)				109
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,L0C+2
3171	1 00DA0	C0001533	J	X'CO',BA(FMT)
3172	1 00DA1	40001538	J	X'40',BA(FMT)
3173	1 00DA2	FFFFFFFF A	DATA	-1
3174	1 00DA3	FFFFFFFFFF 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 CODAF	10000276	K	1,0,0,L0C+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 A	DATA	-1
3195	1 00DB7	FFFFFFFFFF 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

SUFFIX(2)						
3200	*					
3201	1	OODBC	FFFFFFFFFF A	DATA	-16	TTBS-BIT 23 COMPARES-FIRST WORD
3202	1	OODBD	40C00000 A	TTBS,12	0	COUNT
3203	1	OODBE	E0000244	K	14,0,0,SETPSW	INSTRUCTION
3204	1	OODBF	F0000276	K	15,0,0,L8C+2	PSW1 IN
3205	1	OODCO	01001558	J	1,BA(FMT)+32	PSW1 OUT
3206	1	OODC1	01001558	J	1,BA(FMT)+32	R12 IN
3207	1	OODC2	FFFFFFFFFF A	DATA	-1	R12 OUT
3208	1	OODC3	FFFFFFFFFF A	DATA	-1	RO IN
3209	1	OODC4	03001640	J	8,BA(VMT)	RO OUT
3210	1	OODC5	06001642	J	6,BA(VMT)+2	R13 IN
3211	1	OODC6	00000000 A	PZE		RU3 OUT
3212	1	OODC7	00000000 A	PZE		R1 IN
3213	1	OODC8	3272049C	LW,7	MT2+64,1	R1 OUT
3214	1	OODC9	32D204EC	LW,13	MT3+64,1	FMT
3215	1	OODCA	000012B0	J	0,BA(MT3)	VMT/VMTR
3216	1	OODCB	00000000 A	DATA	0	VMTRCH
3217	*					MC
3218	1	OODCC	FFFFFFFFFF A	DATA	-16	TTBS-BIT 22 COMPARES-SECOND WORD
3219	1	OODCD	40C00000 A	TTBS,12	0	COUNT
3220	1	OODCE	F0000244	K	15,0,0,SETPSW	INSTRUCTION
3221	1	OODCF	F0000276	K	15,0,0,L8C+2	PSW1 IN
3222	1	OODDO	02001558	J	2,BA(FMT)+32	PSW1 OUT
3223	1	OODD1	02001558	J	2,BA(FMT)+32	R12 IN
3224	1	OODD2	00000000 A	PZE		R12 OUT
3225	1	OODD3	00000000 A	PZE		RO IN
3226	1	OODD4	03001640	J	8,BA(VMT)	RO OUT
3227	1	OODD5	02001646	J	2,BA(VMT)+6	R13 IN
3228	1	OODD6	FFFFFFFFFF A	DATA	-1	R13 OUT
3229	1	OODD7	FFFFFFFFFF A	DATA	-1	R1 IN
3230	1	OODD8	3272049C	LW,7	MT2+64,1	R1 OUT
3231	1	OODD9	32D204EC	LW,13	MT3+64,1	FMT
3232	1	OODDA	000012B0	J	0,BA(MT3)	VMT/VMTR
3233	1	OODDB	00000000 A	DATA	0	VMTRCH
3234	*					MC
3235	1	OODDC	FFFFFFFFFF A	DATA	-16	TTBS-BIT 21 COMPARES-THIRD WORD
3236	1	OODDD	40C00000 A	TTBS,12	0	COUNT
3237	1	OODDE	00000244	K	0,0,0,SETPSW	INSTRUCTION
	*					PSW1 IN

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3238	1 00DDF	10000276	SUFFIX(2)		
3239	1 00DE0	04001558	K	1,0,0,L0C+2	PSW1 OUT
3240	1 00DE1	04001558	J	4,BA(FMT)+32	R12 IN
3241	1 00DE2	FFFFFFFFFF A	J	4,BA(FMT)+32	
3242	1 00DE3	FFFFFFFFFF A	DATA	-1	RO IN
3243	1 00DE4	0C001640	DATA	-1	RO OUT
3244	1 00DE5	0200164A	J	12,BA(VMT)	R13 IN
3245	1 00DE6	00000000 A	J	2,BA(VMT)+10	R13 OUT
3246	1 00DE7	00000000 A	PZE		R1 IN
3247	1 00DE8	3272049C	PZE		R1 OUT
3248	1 00DE9	32D204EC	LW,7	MT2+64,1	FMT
3249	1 00DEA	000012B0	LW,13	MT3+64,1	VMT/VMTR
3250	1 00DEB	00000000 A	J	0,BA(MT3)	VMTRCH
3251		*	DATA	0	MC
3252	1 00DEC	FFFFFFFFFF0 A			TTBS-BIT 20 COMPARES-FOURTH WORD
3253	1 00DED	40C00000 A	DATA	-16	COUNT
3254	1 00DEF	E0000244	TTBS,12	0	INSTRUCTION
3255	1 00DEF	F0000276	K	14,0,0,SETPSW	PSW1 IN
3256	1 00DF0	03001558	K	15,0,0,L0C+2	PSW1 OUT
3257	1 00DF1	08001558	J	8,BA(FMT)+32	R12 IN
3258	1 00DF2	00000000 A	J	8,BA(FMT)+32	R12 OUT
3259	1 00DF3	00000000 A	PZE		RO IN
3260	1 00DF4	10001640	PZE		RO OUT
3261	1 00DF5	0200164E	J	16,BA(VMT)	R13 IN
3262	1 00DF6	FFFFFFFFFF A	J	2,BA(VMT)+14	
3263	1 00DF7	FFFFFFFFFF A	DATA	-1	R1 IN
3264	1 00DF8	3272049C	DATA	-1	R1 OUT
3265	1 00DF9	32D204EC	LW,7	MT2+64,1	FMT
3266	1 00DFA	000012B0	LW,13	MT3+64,1	VMT/VMTR
3267	1 00DFB	00000000 A	J	0,BA(MT3)	VMTRCH
3268		*	DATA	0	MC
3269	1 00DFC	FFFFFFFFFF0 A			TTBS-BIT 19 COMPARES-FIFTH WORD
3270	1 00DFD	40C00000 A	DATA	-16	COUNT
3271	1 00DFE	10000244	TTBS,12	0	INSTRUCTION
3272	1 00dff	10000276	K	1,0,0,SETPSW	PSW1 IN
3273	1 00E00	10001558	K	1,0,0,L0C+2	PSW1 OUT
3274	1 00E01	10001558	J	16,BA(FMT)+32	R12 IN
3275	1 00E02	FFFFFFFFFF A	J	16,BA(FMT)+32	R12 OUT
		*	DATA	-1	RO IN

SUFFIX(2)			
3276	1 00E03	FFFFFFFFFF A	DATA -1
3277	1 00E04	14001640	J 20,BA(VMT)
3278	1 00E05	02001652	J 2,BA(VMT)+18
3279	1 00E06	00000000 A	PZE
3280	1 00E07	00000000 A	PZE
3281	1 00E08	3272049C	LW,7 MT2+64,1
3282	1 00E09	32D204EC	LW,13 MT3+64,1
3283	1 00ECA	000012B0	J 0,BA(MT3)
3284	1 00E0B	00000000 A	DATA 0
3285		*	TTBS-BIT 18 COMPARES-SIXTH WORD
3286	1 00E0C	FFFFFFFFFF0 A	DATA -16
3287	1 00E0D	40C00000 A	TTBS,12 0
3288	1 00E0E	00000244	K 0,0,0,SETPSW
3289	1 00EOF	10000276	K 1,0,0,L8C+2
3290	1 00E10	20001558	J 32,BA(FMT)+32
3291	1 00E11	20001558	J 32,BA(FMT)+32
3292	1 00E12	00000000 A	PZE
3293	1 00E13	00000000 A	PZE
3294	1 00E14	18001640	J 24,BA(VMT)
3295	1 00E15	02001656	J 2,BA(VMT)+22
3296	1 00E16	FFFFFFFFFF A	DATA -1
3297	1 00E17	FFFFFFFFFF A	DATA -1
3298	1 00E18	3272049C	LW,7 MT2+64,1
3299	1 00E19	32D204EC	LW,13 MT3+64,1
3300	1 00E1A	000012B0	J 0,BA(MT3)
3301	1 00E1B	00000000 A	DATA 0
3302		*	TTBS-17 COMPARES-SEVENTH WORD
3303	1 00E1C	FFFFFFFFFF0 A	DATA -16
3304	1 00E1D	40C00000 A	TTBS,12 0
3305	1 00E1E	E0000244	K 14,0,0,SETPSW
3306	1 00E1F	F0000276	K 15,0,0,L8C+2
3307	1 00F20	40001558	J 64,BA(FMT)+32
3308	1 00E21	40001558	J 64,BA(FMT)+32
3309	1 00E22	FFFFFFFFFF A	DATA -1
3310	1 00E23	FFFFFFFFFF A	DATA -1
3311	1 00E24	1C001640	J 28,BA(VMT)
3312	1 00E25	0200165A	J 2,BA(VMT)+26
3313	1 00E26	00000000 A	PZE
			R0 OUT
			R13 IN
			R13 OUT
			R1 IN
			R1 OUT
			FMT
			VMT/VMTR
			VMTRCH
			MC
			COUNT
			INSTRUCTION
			PSW1 IN
			PSW1 OUT
			R12 IN
			RO IN
			RO OUT
			R13 IN
			R13 OUT
			R1 IN
			R1 OUT
			FMT
			VMT/VMTR
			VMTRCH
			MC
			COUNT
			INSTRUCTION
			PSW1 IN
			PSW1 OUT
			R12 IN
			R12 OUT
			RO IN
			RO OUT
			R13 IN
			R13 OUT
			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		*	
3320	1 00E2C	FFFFFFFFFF A	DATA -16
3321	1 CCE2D	40C00000 A	TTBS,12 0
3322	1 00E2E	10000244	K 1,0,0,SETPSW
3323	1 CCE2F	10000276	K 1,0,0,L8C+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		*	
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	10C00276	K 1,0,0,L8C+2
3341	1 00E40	FF001538	J X'FF',BA(FMT)
3342	1 00F41	21001538	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)
			TTBS-BIT 16 COMPARES-EIGHTH WORD
			COUNT
			INSTRUCTION
			PSW1 IN
			PSW1 OUT
			R12 IN
			R12 OUT
			RO IN
			RO OUT
			R13 IN
			R13 OUT
			R1 IN
			R1 OUT
			TTBS-BITS 10 AND 15 COMPARE
			COUNT
			INSTRUCTION
			PSW1 IN
			PSW1 OUT
			R12 IN
			RU2 OUT
			RO IN
			RO OUT
			R13 IN
			R13 OUT
			R1 IN
			R1 OUT
			FMT
			VMT/VMTR
			VMTRCH

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			SUFFIX(2)			
3352	1	00E4B	00000000 A	DATA	0	MC
3353						TTBS-BITS 0-3 COMPARE
3354	1	00E4C	FFFFFFFFFF A	DATA	-16	COUNT
3355	1	00E4D	40C00000 A	TTBS,12	0	INSTRUCTION
3356	1	00E4E	E0000244	K	14,0,0,SETPSW	PSW1 IN
3357	1	00E4F	F0000276	K	15,0,0,LAC+2	PSW1 OUT
3358	1	00E50	FF001538	J	X'FF',BA(FMT)	R12 IN
3359	1	00E51	F0001538	J	X'FO',BA(FMT)	R12 OUT
3360	1	00E52	00000000 A	PZE		RO IN
3361	1	00E53	00000000 A	PZE		RO OUT
3362	1	00E54	04001640	J	4,BA(VMT)	R13 IN
3363	1	00E55	04001640	J	4,BA(VMT)	R13 OUT
3364	1	00E56	FFFFFFFFFF A	DATA	-1	R1 IN
3365	1	00E57	FFFFFFFFFF A	DATA	-1	R1 OUT
3366	1	00E58	3272045C	LW,7	MT1+64,1	FMT
3367	1	00E59	32D204EC	LW,13	MT3+64,1	VMT/VMTR
3368	1	00E5A	000012B0	J	0,BA(MT3)	VMTRCH
3369	1	00E5B	00000000 A	DATA	0	MC
3370						TTBS-BITS 4-7 COMPARE
3371	1	00E5C	FFFFFFFFFF A	DATA	-16	COUNT
3372	1	00E5D	40C00000 A	TTBS,12	0	INSTRUCTION
3373	1	00E5E	10000244	K	1,0,0,SETPSW	PSW1 IN
3374	1	00E5F	10000276	K	1,0,0,LAC+2	PSW1 OUT
3375	1	00F60	FF001538	J	X'FF',BA(FMT)	R12 IN
3376	1	00E61	0F001538	J	X'F',BA(FMT)	R12 OUT
3377	1	00E62	FFFFFFFFFF A	DATA	-1	RO IN
3378	1	00E63	FFFFFFFFFF A	DATA	-1	RO OUT
3379	1	00E64	04001640	J	4,BA(VMT)	R13 IN
3380	1	00E65	04001640	J	4,BA(VMT)	R13 OUT
3381	1	00E66	00000000 A	PZE		R1 IN
3382	1	00E67	00000000 A	PZE		R1 OUT
3383	1	00E68	3272045D	LW,7	MT1+65,1	FMT
3384	1	00E69	32D204EC	LW,13	MT3+64,1	VMT/VMTR
3385	1	00E6A	000012B0	J	0,BA(MT3)	VMTRCH
3386	1	00E6B	00000000 A	DATA	0	MC
3387						TTBS-INDIRECT ADDRESSING-TRAP
3388	1	00E6C	FFFFFFFFFF A	DATA	-16	COUNT
3389	1	00E6D	C0C002E9 A	DATA	X'C0C002E9'	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 00E70	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	