

LIST OF EFFECTIVE PAGES

Total number of pages is 312, as follows:

Page No.	Issue	Page No.	Issue
Title	Original		
A.....	Original		
i thru ii	Original		
1-1 thru 1-2	Original		
2-1 thru 2-4	Original		
3-1 thru 3-8	Original		
4-1 thru 4-114	Original		
5-1 thru 5-36	Original		
A-1 thru A-6	Original		
B-1 thru B-138	Original		

CONTENTS

Section	Title	Page
I	INTRODUCTION	1-1
	1-1 Scope of Manual	1-1
	1-2 Program Objectives	1-1
	1-3 General Specifications	1-1
II	OPERATING INSTRUCTIONS	2-1
	2-1 General	2-1
	2-2 Loading Procedure	2-1
	2-3 Operating Procedures	2-1
	2-4 Success Indications	2-1
	2-5 Error Indications	2-1
	2-6 Options	2-2
	2-7 Sense Switches	2-2
	2-8 Control Panel Interrupt	2-3
	2-9 I/O Compatibility	2-3
	2-10 Test Selection	2-3
	2-11 Restart Procedure	2-4
III	PROGRAM DESCRIPTION	3-1
	3-1 General	3-1
	3-2 Test Module	3-1
	3-3 Output Message Analysis	3-1
	3-4 Use of Printout for Troubleshooting	3-1
	3-5 Work With One Failing Test Module	3-3
	3-6 Extended Analysis	3-3
	3-7 Flowchart	3-4
IV	PROGRAM LISTING	4-1
V	CONCORDANCE LISTING	5-1
APPENDIX A	A-1
APPENDIX B	B-1

RELATED PUBLICATIONS

<u>Publication Title</u>	<u>Publication No.</u>
Sigma Symbol and Meta Symbol Reference Manual, SDS Sigma Computers	900952
Sigma 7 Computer Reference Manual	900950
Sigma 7 Computer Technical Manual	901060

SECTION I
INTRODUCTION

1-1 SCOPE OF MANUAL

This manual describes the Auto CPU diagnostic program designed for the Sigma 7 computer manufactured by Scientific Data Systems, Santa Monica, California.

This manual is made up of five sections. Section I is a general introduction to the Auto program. Section II contains program operating procedures. Section III is a detailed description of the program operation. Section IV contains the complete symbolic listing of the program as generated by the Sigma metasymbol assembler. Section V contains the concordance listing. Also included in the appendix are the listing and flowchart for the dual purpose loader used for the Auto program and the T-charts showing the data in various registers for each phase of multiply and divide instructions.

1-2 PROGRAM OBJECTIVES

The purpose of the Auto program is to detect and diagnose malfunctions of the Sigma 7 CPU pertaining to major instruction categories, such as load, store, branch, comparison, shift, and fixed-point arithmetic. Provisions are also incorporated for testing instruction interruptibility and I/O compatibility.

1-3 GENERAL SPECIFICATIONS

Table 1-1 lists the general specifications for this program.

Table 1-1. General Specifications

Computer configuration	Any Sigma 7 computer with card reader or paper tape reader for program input
Memory size	8K minimum (8192 words)
Optional equipment	Keyboard printer or line printer for optional printed output

Prerequisite tests are listed in table 1-2.

Table 1-2. Testing Prerequisites

Program	Prerequisite Program
Verify	None
Pattern	Verify
Auto	Verify, Pattern*
Suffix	Auto
Float	Auto
Interrupt	Auto
Memory Protect	Suffix

*For the Auto test to run, the block 0 register must be functioning correctly, as tested by the Pattern program.

SECTION II
OPERATING INSTRUCTIONS

2-1 GENERAL

The Auto diagnostic program employs a data-gathering technique for its operation. The program consists of a driver or control section, followed by test modules containing from 4 to 20 words of data prescribing a test. The driver program accesses each module in sequence, sets up the prescribed conditions, executes the specified instruction, and then tests the results for possible errors. A report of each test or error may be printed out or displayed on the control panel indicators.

2-2 LOADING PROCEDURE

Table 2-1 shows the control panel switch settings to be used for loading the program. After the switches have been set as indicated, the following must be done:

- a. Clear memory by simultaneously pressing the CPU RESET/CLEAR and SYS RESET/CLEAR pushbuttons.
- b. Set the UNIT ADDRESS switches to the address of the peripheral input device.
- c. Press the LOAD switch.
- d. Place the COMPUTE switch to RUN.

Table 2-1. Switch Settings For Program Loading

Switch	Setting
CONTROL MODE	LOCAL
WATCHDOG TIMER	NORMAL
INTERLEAVE SELECT	NORMAL
PARITY ERROR MODE	CONT
AUDIO	ON
CLOCK MODE	CONT
ADDR STOP	OFF
SENSE	0

Upon being loaded with the switches set according to table 2-1, the program will automatically branch to the starting location and begin running. If SENSE switch 1 is on during loading, a wait will occur at X'299' and the count pulse interrupts will not be armed. To continue, reset SS1 and clear the wait.

2-3 OPERATING PROCEDURES

2-4 SUCCESS INDICATIONS

Provided no errors occur, the program will run continuously through all test modules. After completing the last module it will start over, making another pass, first printing out whether the floating point and decimal options are installed. A pass counter and error counter are maintained by the program. These may be examined by setting SENSE switch 3. After X'20' error-free passes, a message is output indicating that the real-time clocks are implemented.

After completing each test module, the program reads SS3, and makes a report if the switch is set. Reports are normally made via the keyboard printer, device address 001. However, if no device responds to a TIO to that address and SS4 is off, the program halts at location X'20D', with the report information contained in registers 1 through 4. The registers contain the following information:

- R1 Present list address
- R2 Error count
- R3 Pass count (bits 0 through 15), module count (bits 16 through 31)
- R4 Instruction tested

Figure 2-1 shows a typical printout from the keyboard printer resulting from setting SS3 after the program has made a number of successful passes.

2-5 ERROR INDICATIONS

When running with the sense switches on 0, the program will halt upon detecting an error. Before halting, however, the error will be reported via the keyboard printer or line printer. If the printing device does not respond to a TIO, the program will merely halt at location X'20D' with the alarm on. See page 5 of the program listing for an explanation of the contents of registers 1 through 8 after error halts.

A typical error printout is shown in figure 2-2. The halt-on-error feature may be disabled by setting SENSE switch 4. However, if the machine is operating in this mode and

```

          FLOATING POINT OPTION IS INSTALLED
          DECIMAL OPTION IS INSTALLED
          REAL TIME CLOCKS IN USE. TO DISABLE, CP INTERRUPT AND CLEAR R5

          LIST      ERRORS    PASSES    AUTO ERROR DISPLAY
          INST IDENTIFIER  IS    SHOULD BE    DIFF

32400800  00000000  00200073  F2C0045A
32400808  00000000  00200074  72D2046A
32400312  00000000  00200075  72C3800D
    
```

900872A.201

Figure 2-1. Sample of Printout Showing No Errors With SS3 Set After Many Complete Program Passes

```

          LIST      ERRORS    PASSES    AUTO ERROR DISPLAY
          INST IDENTIFIER  IS    SHOULD BE    DIFF

32400A00  00000001  000000AC  13C00460  50000001  57300169  27300169  70000000
32400A00  00000002  000000AC  18C00460  6000000D  FFFFFFFE  FFFFFFFF  00000001
    
```

900872A.202

Figure 2-2. Sample of Printout Showing Errors

no printout device is available, there will be no error indications except for brief flickers of the alarm indicator (which may be too fast to see when only one or a few modules are failing).

The error indications described in the previous paragraphs occur only for faults that happen as a result of executing the test instruction. If a spurious trap occurs at any other time during the operation of the control program, a wait is executed with the program halting at location X'483'. (See listing for procedure to follow.) If the wait is cleared, the program will resume testing with the current test module.

If a memory parity error occurs, the program is interrupted to location X'56'. The interrupt routine reads the memory fault indicators and leaves the result in register 4. A wait is then executed, causing the program to halt at location X'F2'. If the wait is cleared, the program will resume testing with the current test module.

Table 2-2 summarizes the various wait locations in the program.

Table 2-2. Wait Locations

Location (hex)	Reason for Wait
483	Erroneous trap
299	SS1 on when loading
F2	Memory fault interrupt
FF	Control panel interrupt
20D	Report or error

2-6 OPTIONS

Several optional features are incorporated into the Auto program to give the operator a more flexible tool for diagnosing failures while maintaining a quick means of detecting faults with minimal operator intervention.

2-7 Sense Switches

The uses of SS3 and SS4 have already been mentioned; further control is provided through SS1 and SS2, which allow the operator to repeatedly loop on a single test. Table 2-3 summarizes the functions of all four switches.

Table 2-3. Sense Switch Functions

Switch	Function
SS1	Short loop: when SS1 is set, the program continuously repeats the same test module A minimum of instructions are executed to set up the necessary register and memory areas. No testing of results or other sense switches takes place. If SS1 is on while the program is being loaded the count pulse interrupts will not be armed after X'20' error-free passes. (Note: This switch does not control automatic short loop)
SS2	Long loop: when SS2 is set and SS1 reset, the program repeats the same module. All testing of results takes place and other sense switches are read
SS3	Report: when SS3 is set, the program reports at the completion of each test not otherwise reported because of an error
SS4	Suppress error halt and report halt: when SS4 is set, the program will not halt on errors. Errors will still be reported via the keyboard printer, if it is available. Printing may be suppressed by turning the device off

2-8 Control Panel Interrupt

The control panel INTERRUPT button may be pressed any time while the program is running to change certain parameters in the program. When the button is pressed, the computer comes to a wait with address X'FF' in the instruction address register. The changes are made by entering information into any or all of the registers described in table 2-4, then reading out the instruction from the instruction address location and returning the COMPUTE switch to RUN.

Table 2-4. Register Contents at Time of Interrupt

Register	Contents
R0	The IOP/device address of the unit used for report or error messages. The address is in bits 16-31 and is initially set to 1 when the program is loaded Device selection: the program tests bit 0 to determine whether to use the keyboard printer or the line printer output routines. This bit is initially set to zero, indicating

Table 2-4. Register Contents at Time of Interrupt (Cont.)

Register	Contents
R0 (Cont.)	that the output device is the keyboard printer. Setting a one in bit 0 and changing the address in bits 16-31 causes all messages to be output on the line printer
R1	The memory address of the current or most recently completed test module Test selection: when the machine is returned to RUN, the program will begin testing with the module addressed by R1. The first three hex characters must be 324. The last five hex characters will be the test module address. The operator may insert any valid module address he wishes and set SS1 or SS2 to loop on that module
R5	Register bits 16-19, used to arm and enable the count pulse interrupts Counts pulse interrupt level selection: normally, the program automatically arms and enables the four count pulse interrupt levels upon making the twentieth pass. If no errors have occurred, the operator may suppress this feature by clearing R5 when the wait occurs for the control panel interrupt, or by loading the program with SS1 on. He may selectively disable only some of the count plus interrupts if he wishes. He may also reenable the levels later by again interrupting and changing R5 Bits other than 16-19 of R5 have no effect on interrupt

2-9 I/O COMPATIBILITY

See the program listing, section IV, for instructions on implementing I/O compatibility.

2-10 TEST SELECTION

The operator may select any test module to begin running by using the control panel INTERRUPT as described in

paragraph 2-8 and table 2-4. He may likewise loop on a selected test by setting SS1 or SS2 before starting up again.

operator may also loop on a particular test by setting SS1 or SS2 when that test is being reported either via the keyboard printer or by a report halt or error halt.

2-11 RESTART PROCEDURE

The program may be restarted from location X'104'. When loaded, the program inserts an unconditional branch to that location in address X'26' so that normally, restarting is possible by pressing the CPU RESET button and setting the COMPUTE switch to RUN.

SECTION III
PROGRAM DESCRIPTION

3-1 GENERAL

A simplified flow chart is given in figure 3-1 to illustrate the general philosophy of the program's operation. When loaded, the Auto program automatically branches to its starting location and begins running. Initialization takes place where parameters are set up and a branch instruction is inserted in location X'26' to facilitate restarting if the RESET button should be pressed.

The program accesses each test module in turn and sets up all the test conditions as prescribed by the module. The instruction contained in the module is executed and then SENSE switch 1 is tested to determine whether the short loop mode is in effect. If SS1 is set, the program repeats a minimum amount of the setup procedure for the same test module and again executes the instruction. No results are examined in the short loop mode. After X'10' error free passes, an iterative short loop is automatically initiated. It then executes each test module for 100 successive passes including limited verification of memory and registers results.

If not operating in the short loop (that is, with SS1 reset), the program proceeds to compare the results of the test with the expected results. The resultant contents of all registers and memory operands are prescribed by the test module. Other items are also tested, such as the instruction location, the location following the instruction, the indirect address location, and the program status doubleword.

When an error is detected or if SS3 is set, the program makes a report - normally via the keyboard printer. The reports may be switched over to a line printer if desired (see paragraph 2-8). When no printing device is available, the program makes its reports by executing a wait for the information stored in general registers 1 through 8.

After results have been check and reports, if any, have been completed, SENSE switch 2 is read. If SS2 is set, the program goes through the entire setup, test, and report procedure for the same test module that it just finished. If SS2 is reset, the module pointer is updated so that a new test is performed on the next cycle.

3-2 TEST MODULE

Refer to the location X'444' (Table) in the program listing, section IV. Each test module is relocated to the previously cleared table area. The listing describes the meaning of each word. The term program status word 1 (PSW1) is somewhat misleading, since only bits 0 through 11 are used. Bits 12 through 31 are used as a linkage address so that the

driver can prepare for any traps resulting from executing instructions.

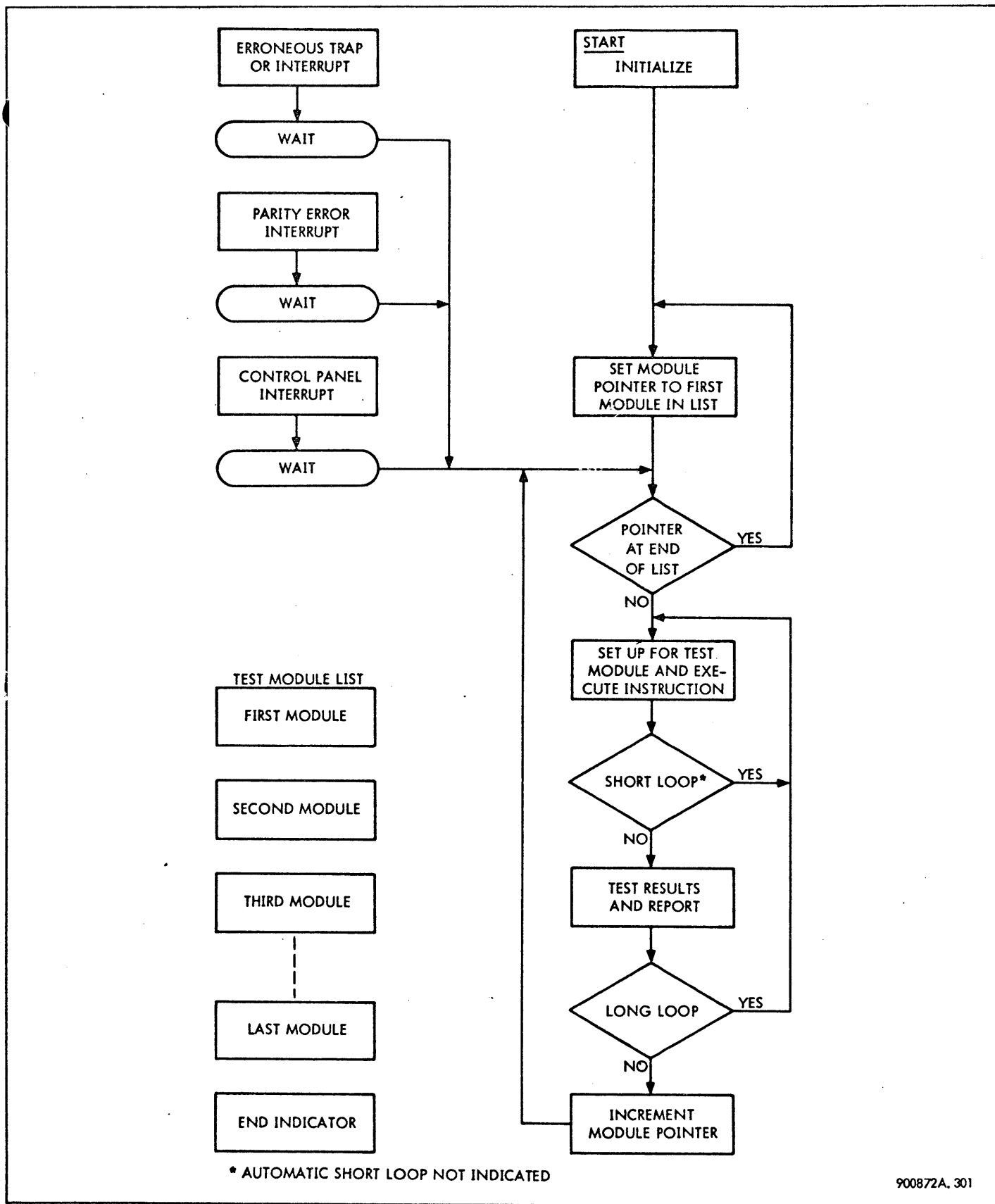
3-3 OUTPUT MESSAGE ANALYSIS

See figure 3-2 for a sample Auto error printout. The headings on the printout correspond to the register contents after error halts (page 5, program listing, section IV).

<u>Printout Term</u>	<u>Description</u>
LIST	Present list address: 324xxxxx where 324 is LW,4 and xxxxx is the first memory location of the test module
ERRORS	Total number of errors since initial load or last restart
PASSES	Bits 0-15 contain the number (in hexadecimal) of complete passes. Bits 16-31 contain the number of modules tested in the current pass
INST	Instruction under test
IDENTIFIER	Error identifier and address (see R5, page 5 of program listing, section IV)
IS	Erroneous result
SHOULD BE	Predetermined result
DIFF	Result of an exclusive OR of the contents of the erroneous result with the predetermined result

3-4 USE OF PRINTOUT FOR TROUBLESHOOTING

In figure 3-2 more errors are occurring than are shown. Since all the failing instructions (INST) are add word (AW), sufficient data is available to analyze the malfunction. Stop the printout by turning off the keyboard printer or cause a wait by setting SS4 to 0. The first and last digits of the Identifier column show that the majority of incorrect data is found in register C. Two failures of PSW1 occur at list addresses also having failures in register C, but these can be ignored, because they result from incorrect condition code settings (see DIFF), which depend on the contents of register C.



900872A. 301

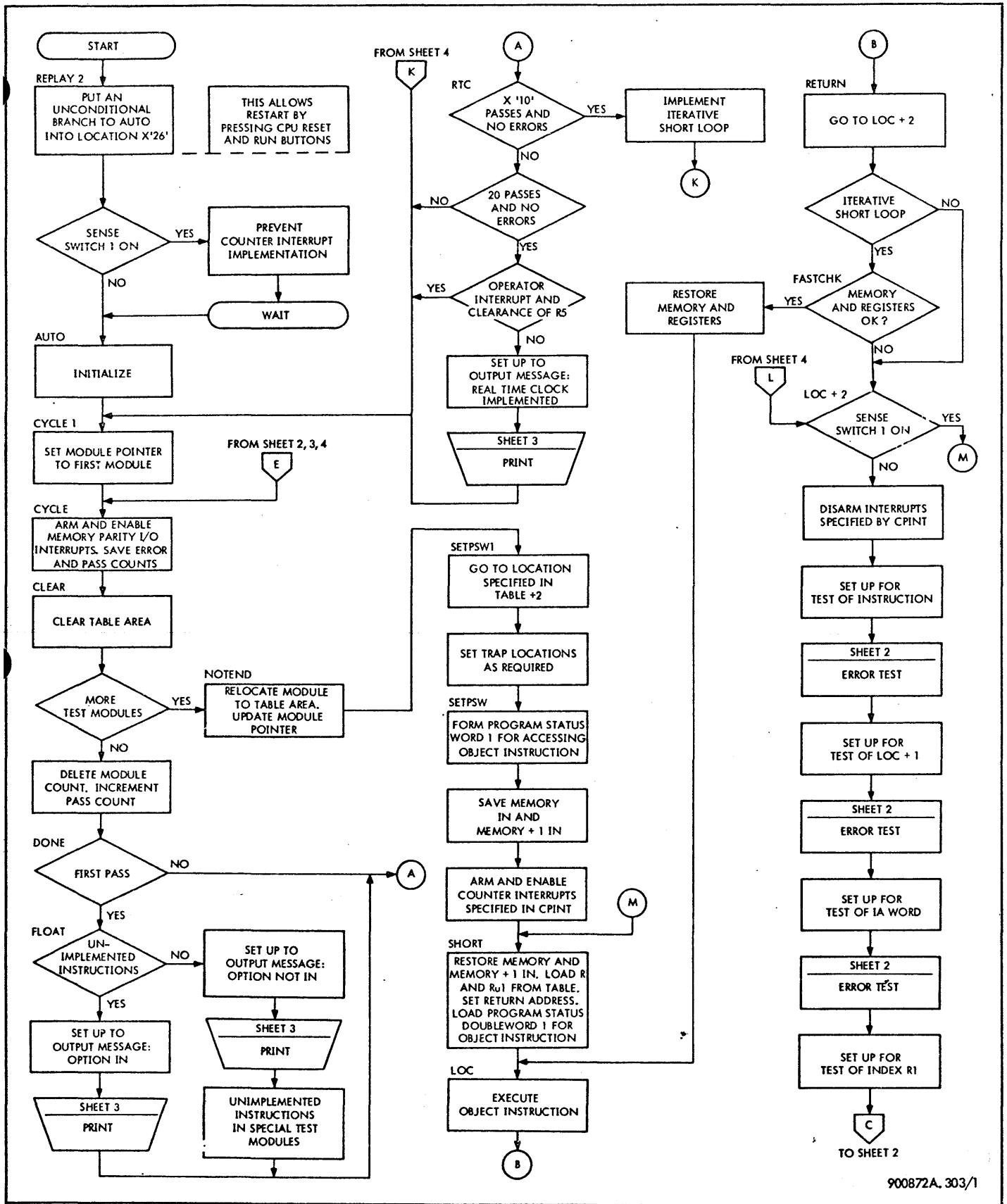
Figure 3-1. Auto Program, Simplified Flow Chart

Table 3-1. Sample Error Analysis Truth Table

CASE	SHOULD BE				IS
	PR5	G6	K5	S5	S5
AW05	0	1	1	1	0
AW06	1	0	1	0	1
AW07	1	0	1	0	1
AW08	0	1	1	1	0
AW10	0	1	1	1	0

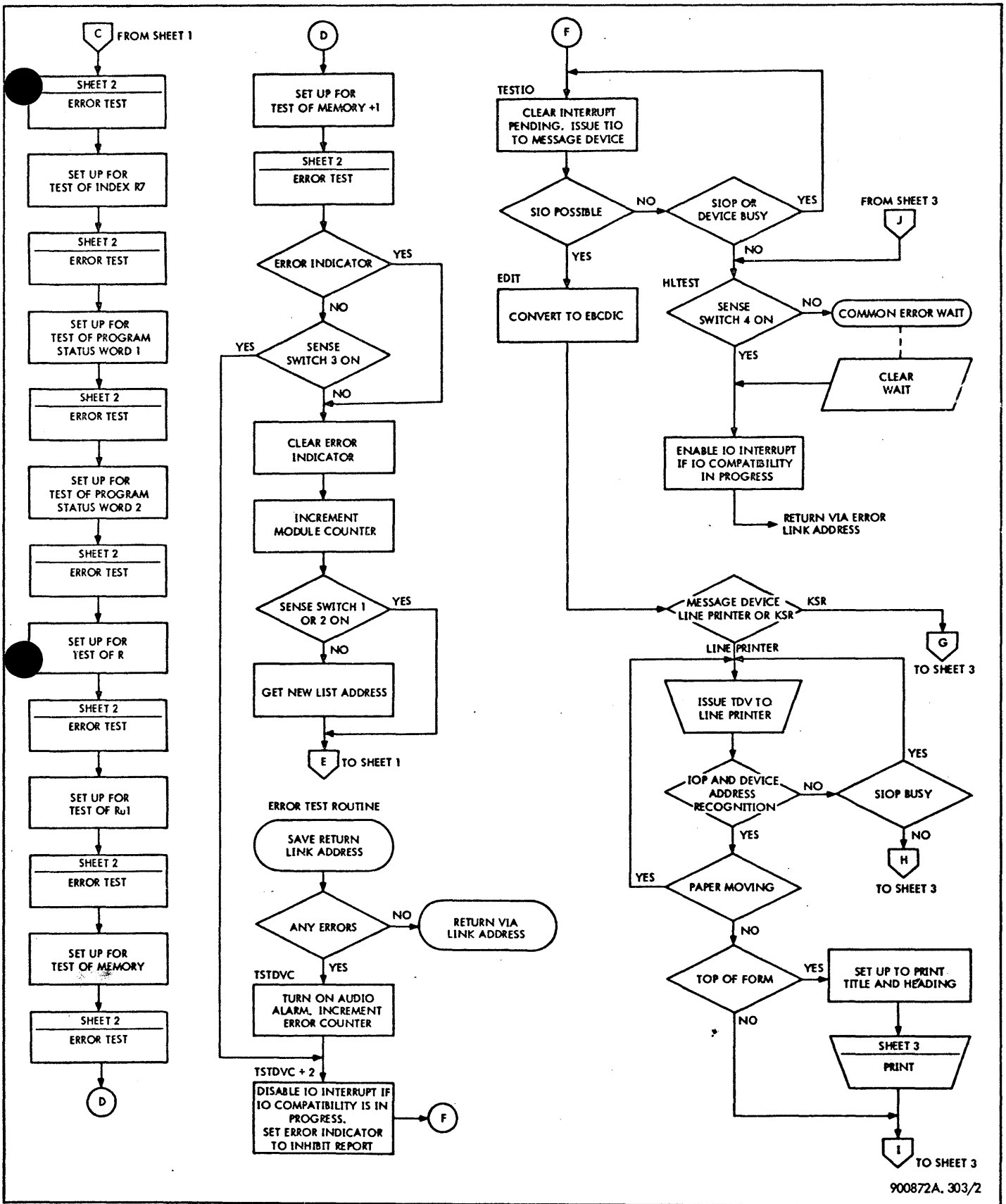
3-7 FLOWCHART

A detailed flowchart of the entire program (excluding test modules) is given in figure 3-3. Application of the flowchart to the program listing in section IV should provide the user with a clear understanding of program operation.



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Figure 3-3. Auto Program, Detailed Flow Chart (Sheet 1 of 4)



900872A. 303/2

Figure 3-3. Auto Program, Detailed Flow Chart (Sheet 2 of 4)

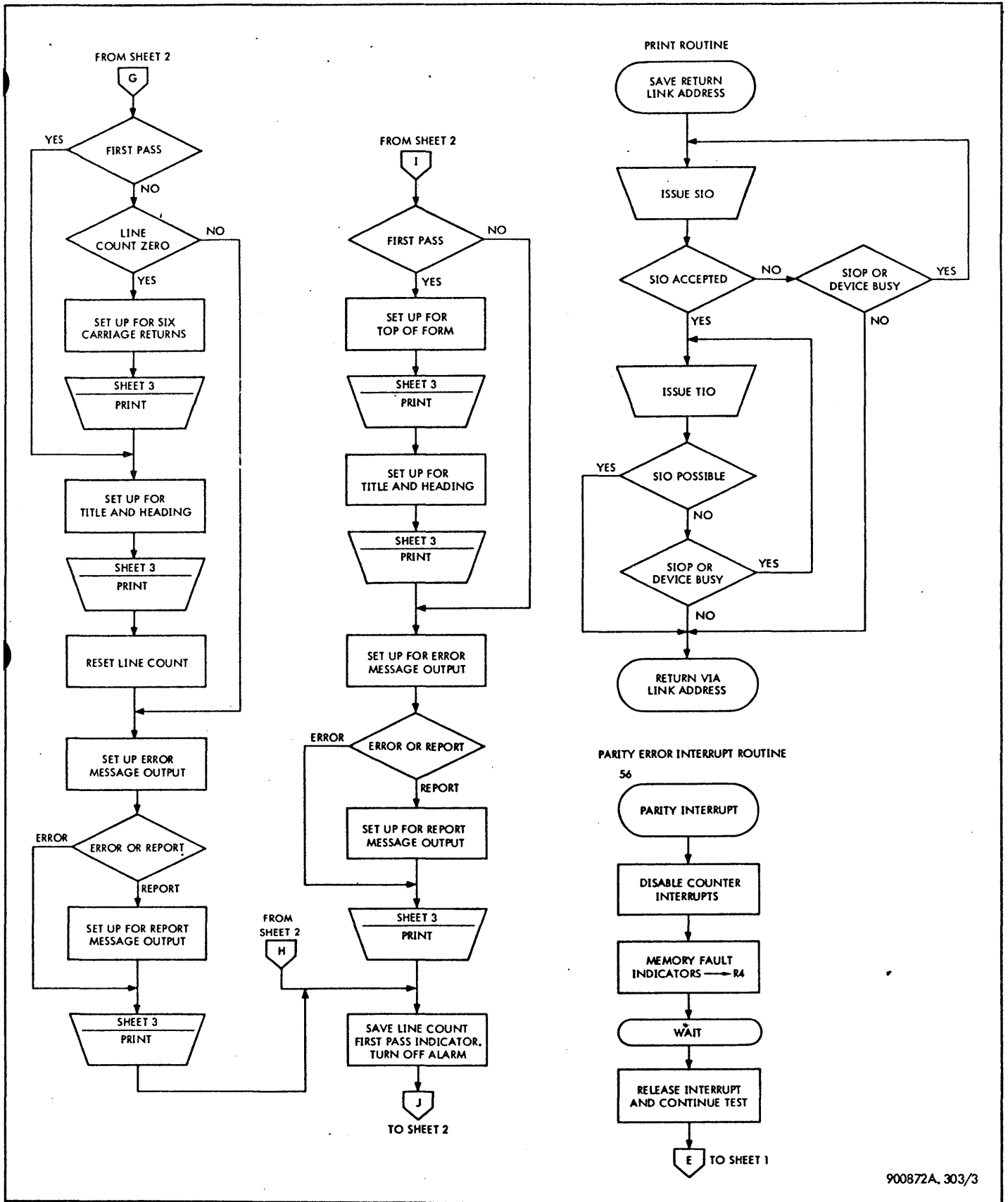
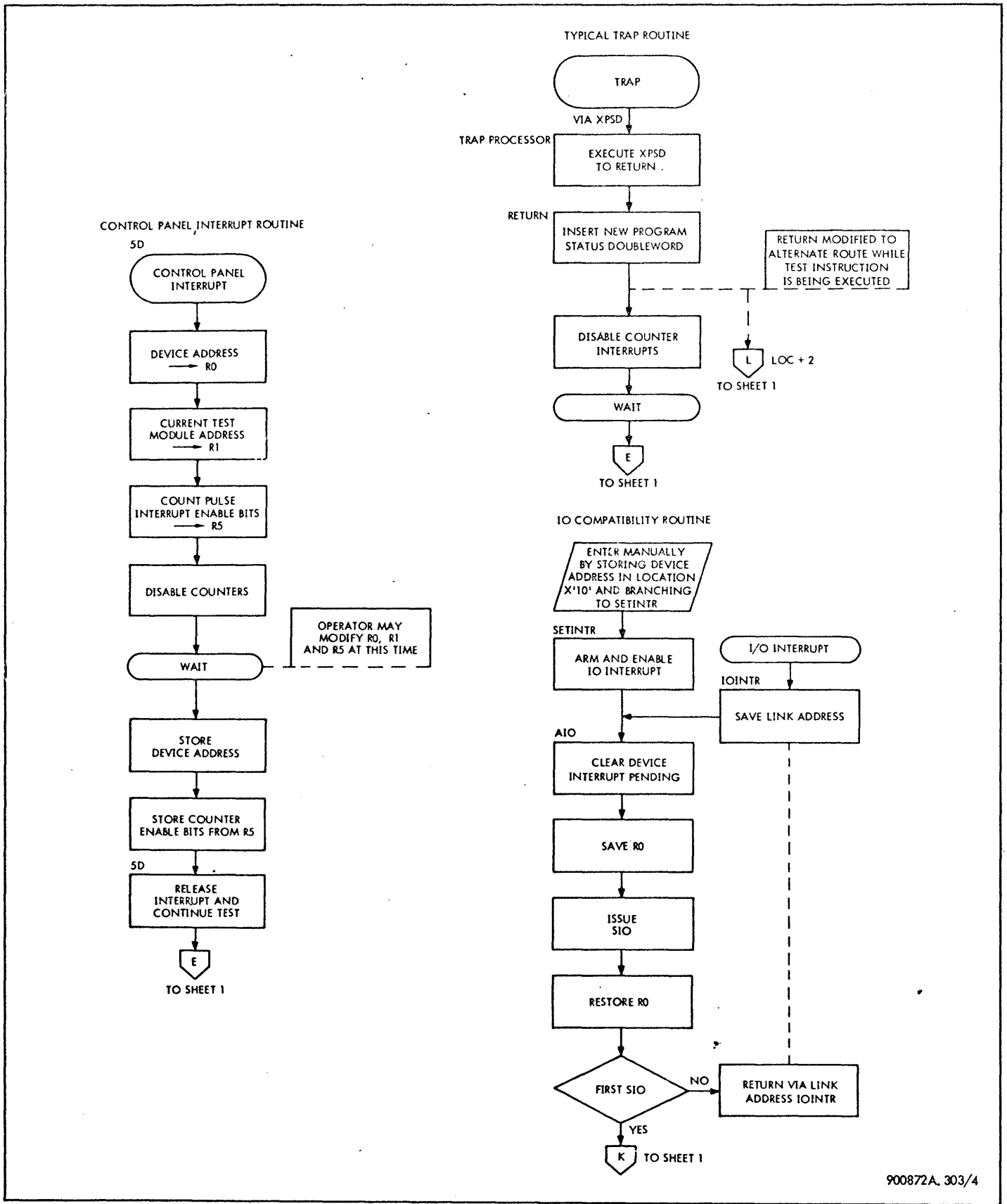


Figure 3-3. Auto Program, Detailed Flow Chart (Sheet 3 of 4)



900872A. 303/4

Figure 3-3. Auto Program, Detailed Flow Chart (Sheet 4 of 4)

SECTION IV
PROGRAM LISTING


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SIGMA 7 CPU DIAGNOSTIC-AUTO 704044-51B00 MARCH 10,1969 1
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* REVISION B: CHANGES NOTED IN CBL 71-72 BY *B
* BAL05 TEST MODULE IS MODIFIED TO WORK ON 128K MEMORY SYSTEMS *B
* IS COMPATIBILITY ROUTINE MODIFIED TO WORK ON COMPUTERS WITH A *B
* SINGLE REGISTER BLOCK. *B

***** SEE PAGES THREE THROUGH SIX FOR *****
***** OPERATING INSTRUCTIONS *****

00000000	PAGE	OPEN	PAGE	THIS INHIBITS
		CNAME		PAGE
		PRBC		DIRECTIVE
		PEND		TO PERMIT MAX. LINAGE/PAGE

		PAGE		
		SYSTEM	SIG7FDP	
01 00040		ORG	X'40'	
01 00040				

0000000F	F	EQU	15	
		FORMS	THE ADDRESS FIELD SPECIFIES HOW THE WORD IS DEVIDED AND	
			HOW MANY BITS THERE WILL BE IN EACH PART OF THE WORD.	
			EFFECTIVE AT ASSEMBLY TIME ONLY.	

	I	FORM	4,28	
	K	FORM	4,4,4,20	

	PRBCS			EFFECTIVE AT ASSEMBLY TIME ONLY
--	-------	--	--	---------------------------------

```

SIGMA 7 CPU DIAGNOSTIC-AUTO 704044-51B00 MARCH 10,1969 2
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```

P SPECIFIES A DOUBLE WORD ADDRESS

00000000	P	CNAME		
		PRBC		
	LF	GEN,32	DA(AF(1))	
		PEND		

00000000	J	CONVERTS TO BYTE ADDRESS		
		CNAME		
		PRBC		
	LF	GEN,8,24	AF(1),BA(AF(2))	
		PEND		

00000000	FILL	FILLS ALL LOCATIONS BETWEEN AF AND * WITH ZEROS.		
		CNAME		
		PRBC		
		DB	ABSVAL(AF)-ABSVAL(*)	
		GEN,32	0	
		FIN		
		PEND		

		PAGE		

00000024	SF	OPEN	LCFI,AI,CI,LI,MI,SF,S,LCF,STCF	
00000025	S	CNAME	X'24'	
00000070	LCF	CNAME	X'25'	
00000074	STCF	CNAME	X'70'	
	GI	CNAME	X'74'	
		EQU	1,7,4,3,17	
		PRBC		
	LF	GEN,G1	AFA(1),NAME,CF(2),AF(2),AF(1)	
		PEND		

00000002	LCFI	CNAME	X'2'	
00000020	AI	CNAME	X'20'	
00000021	CI	CNAME	X'21'	
00000022	LI	CNAME	X'22'	

```

SIGMA 7 CPU DIAGNOSTIC-AUTO 704044-51800 MARCH 10,1969 3
74 00000023 M1 CNAME X'23'
75 G2 EQU 1,7,4,20
76 PRBC
77 LF GEN,G2 AFA(1),NAME,CF(2),AF(1)
78 PEND
79 *
80 *
81 * BIND CAUSES THE LOCATION COUNTERS TO ADVANCE TO A WORD BOUNDARY *B
82 * MULTIPLE THAT IS SPECIFIED IN THE ARGUMENT FIELD *B
83 *
84 00000000 BIND CNAME *B
85 PRBC *B
86 XP SET AF-(ABSVAL(*)-((ABSVAL(*)/AF)*AF)) *B
87 DB AF-(ABSVAL(*)-((ABSVAL(*)/AF)*AF))>0 *B
88 BRG ABSVAL(*)+XP *B
89 FIN *B
90 PEND *B
91 PAGE *
92 *
93 *
94 ***** LOADING OPTIONS
95 SENSE SW1 SET= BYPASS AUTOMATIC IMPLEMENTATION OF REAL TIME
96 CLOCKS. PROGRAM WILL COME TO A WAIT. RESET
97 SENSE SWITCH 1. CLEAR THE WAIT.
98 RESET= ENABLE RTC'S AFTER X'20' ERROR FREE PASSES
99 *
100 *
101 *
102 ***** I/O COMPATIBILITY
103 * THIS TEST IS DESIGNED TO TEST FOR CONFLICTS BETWEEN THE
104 * INTEGRAL IOP AND THE EXECUTION OF THE AUTO DIAGNOSTIC.
105 * TO IMPLEMENT THIS TEST :
106 * 1. CP INTERRUPT
107 * 2. ENTER DEVICE ADDRESS INTO LOCATION X'10'
108 * 3. BRANCH TO LOCATION DENOTED BY SYMBOL 'SETINTR'
109 01 00040 000002D4 DATA SETINTR -- MEMORY WORD REFLECTS ACTUAL ADDRESS 204
110 * (IF THE SELECTED DEVICE DOES NOT GENERATE AN INTERRUPT

```

```

SIGMA 7 CPU DIAGNOSTIC-AUTO 704044-51800 MARCH 10,1969 4
111 * FOR ANY REASON, RESTART BY REPEATING STEP 3 )
112 * PAGE
113 *
114 *
115 ***** OPERATING OPTIONS
116 *
117 * SS1 SET=SHORT LOOP
118 * RESET=NORMAL OPERATION
119 *
120 * SS2 SET=LONG LOOP
121 * RESET=NORMAL OPERATION
122 *
123 * SS3 SET=REPORT
124 * RESET=NORMAL OPERATION
125 *
126 * SS4 SET=NO HALT ON ERRORS
127 * RESET=HALT ON ERRORS AND AFTER REPORT
128 *
129 *****REGISTER CONTENTS AFTER HALT AT LOCATION DENOTED BY ,
130 * SYMBOL 'NOHALT':
131 01 00041 0000020D DATA NOHALT -- MEMORY WORD REFLECTS ACTUAL ADDRESS
132 * (REPORT OR ERROR)
133 *
134 * R1 PRESENT LIST ADDRESS
135 * R2 ERROR COUNTER
136 * R3 PASS COUNTER (PASSES=0-15, MODULES=16-31)
137 * R4 INSTRUCTION
138 * R5 ERROR IDENTIFIER AND ADDRESS:
139 * 1000000 = INSTRUCTION
140 * 2000000 = LOCATION+1 OF THE EXECUTION LOCATION
141 * 3000000 = INDIRECT ADDRESS
142 * 4000000 = INDEX REGISTER X: X=1(NORMAL) OR 7(ONE)
143 * 5000000 = PROGRAM STATUS WORD X: X=1 OR 2
144 * 6000000 = REGISTER X: X=C(12)OR D(13)
145 * 7000XYZ = MEMORY WORD IN LOCATION WXYZ (WXYZ=0-FFFF)
146 * R6 ERRONEOUS RESULT
147 * R7 PREDETERMINED RESULT
148 * R8 DIFFERENCE BETWEEN R6 AND R7

```

```

148
149
150
151
152 01 00042 000000FF
153
154 01 00043 00000483
155
156
157
158
159
160
161
162
163
164
165
166
167
168
169
170
171
172
173
174 01 00040
    01 00040
175
176
177
178
179
180 01 00040 0F00005E NABTR XPSD,0 NAB NONALLOWED OPERATION
181 01 00041 0F000072 UII TR XPSD,0 UII UNIMPLEMENTED INSTRUCTION
182 01 00042 0F000078 SLTR XPSD,0 SL STACK LIMIT
183 01 00043 0F00007E FXPTR XPSD,0 FXPB FIXED POINT OVERFLOW
    
```

PAGE

***** REGISTER CONTENTS AFTER HALT INITIATED BY:

CONTROL PANEL INTERRUPT
 DATA CPAN1 -- MEMORY WORD REFLECTS ACTUAL ADDRESS
 SPURIOUS TRAP
 DATA SPUR1 -- MEMORY WORD REFLECTS ACTUAL ADDRESS

***** RO AND BR R5 MAY BE MODIFIED AFTER
 THE WAIT FROM CP INTERRUPT. RO WILL
 SELECT THE MSG DEVICE AND R5 THE
 COUNT PULSE INTERRUPTS

RO	T0000MSG	T=0 FOR KSR	MSG# DEVICE ADDR
		T=8 FOR LINE PRINTER	
R1	3240YYYY	LW,4	OBJECT ADDRESS
R2	ERRBR COUNTER		
R3	XXXXZZZZ	X=PASS COUNT	Z= TEST COUNT
R5	00000000	N= ACTIVE COUNTER INTERRUPTS	
	BIT POSITION		ACTIVATES COUNTER

	16	1
	17	2
	18	3
	19	4

PAGE

BRG X'40' TRAP LOCATIONS

**** THE TRAP LOCATIONS WILL NOT ALWAYS CONTAIN THE INSTRUCTION
 SHOWN IN THIS LISTING.
 **** LOCATION 40 HEX USUALLY CONTAINS: XPSD,8 RETURN (SAME AS LOC 47H)
 **** TRAP MODIFICATION IS USUALLY ACCOMPLISHED BY THE 'LPSD' AT
 **** SYMBOLIC LOCATION 'SETPSW-1'

```

184 01 00044 0F000084 FLPPTR XPSD,0 FLPP FLOATING POINT FAULT
185 01 00045 0F00008A DFTR XPSD,0 DF DECIMAL FAULT
186 01 00046 0F00009C WDTRTR XPSD,0 WDTR WATCHDOG TIMER RUNOUT
187 01 00047 0F800464 BRANCH XPSD,8 RETURN
188 01 00048 0F00009A CAL1TR XPSD,0 CAL1 CALL ONE
189 01 00049 0F0000AE CAL2TR XPSD,0 CAL2 CALL TWO
190 01 0004A 0F0000C2 CAL3TR XPSD,0 CAL3 CALL THREE
191 01 0004B 0F0000D6 CAL4TR XPSD,0 CAL4 CALL FOUR
192 01 0004C 00000000 A FILL X'52' INTERRUPT LOCATIONS
    01 0004D 00000000 A
    01 0004E 00000000 A
    01 0004F 00000000 A
    01 00050 00000000 A
    01 00051 00000000 A
193 01 00052 3310046E MTW,1 CNT1CP
194 01 00053 3310046F MTW,1 CNT2CP
195 01 00054 33100470 MTW,1 CNT3CP
196 01 00055 33100471 MTW,1 CNT4CP
197 01 00056 0F0000EA XPSD,0 PARITY MEMORY PARITY
198 01 00057 00000000 A FILL X'5C'
    01 00058 00000000 A
    01 00059 00000000 A
    01 0005A 00000000 A
    01 0005B 00000000 A
199
200 01 0005C 0F8002DC PAGE XPSD,8 I8INTR I8 INTERRUPT
201 01 0005D 0F0000F4 XPSD,C RESET INTERRUPT BUTTON
202 RBUNC 8 NON-ALLOWED OPERATION TRAP
203 01 0005E 00000000 A NAB PZE
204 01 0005F 00000000 A PZE
205 01 00060 00000062 PZE,0 s+2
206 01 00061 00000000 A PZE
207 01 00062 0F000464 NABRET XPSD,0 RETURN NONALLOWED OPERATION
208 01 00063 0F000464 MPVRET XPSD,0 RETURN MEMORY PROTECT VIOLATION TRACC=1 I9=
209 01 00064 0F000464 MVRET XPSD,0 RETURN MODE VIOLATION TRACC=2 I9=
210 01 00065 0F000464 XPSD,0 RETURN
211 01 00066 0F000464 NEARET XPSD,0 RETURN NONEXISTANT ADDRESS TRACC=4 I9=
    
```

SIGMA 7 CPU DIAGNOSTIC-AUTB 704044-51800 MARCH 10, 1969 7

212	01	00067	0F000464		XPSD,0	RETURN	
213	01	00068	0F000464		XPSD,0	RETURN	
214	01	00069	0F000464		XPSD,0	RETURN	
215	01	0006A	0F000464	NEIRET	XPSD,0	RETURN	NONEXISTANT INSTRUCTION TRACC=8 19=
216	01	0006B	0F000464		XPSD,0	RETURN	
217	01	0006C	0F000464		XPSD,0	RETURN	
218	01	0006D	0F000464		XPSD,0	RETURN	
219	01	0006E	0F000464		XPSD,0	RETURN	
220	01	0006F	0F000464		XPSD,0	RETURN	
221	01	00070	0F000464		XPSD,0	RETURN	
222	01	00071	0F000464		XPSD,0	RETURN	
223					BBOUND	8	
224	01	00072	00000000 A	UII	PZE		UNIMPLEMENTED INSTRUCTION TRAP
225	01	00073	00000000 A		PZE		
226	01	00074	00000076		PZE,0	*+2	
227	01	00075	00000000 A		PZE		
228	01	00076	0F000464	UIIRET	XPSD,0	RETURN	
229					BBOUND	8	STACK LIMIT REACHED TRAP
230	01	00078	00000000 A	SL	PZE		
231	01	00079	00000000 A		PZE		
232	01	0007A	0000007C		PZE,0	*+2	
233	01	0007B	00000000 A		PZE		
234	01	0007C	0F000464	SLRET	XPSD,0	RETURN	
235					PAGE		FIXED POINT ARITHMETIC OVERFLOW TRAP
236					BBOUND	8	
237	01	0007E	00000000 A	FXPB	PZE		
238	01	0007F	00000000 A		PZE		
239	01	00080	00000082		PZE,0	*+2	
240	01	00081	00000000 A		PZE		
241	01	00082	7020007E		LCF,2	FXPB	
242	01	00083	0F000464	FPBRET	XPSD,0	RETURN	
243				*			FLOATING POINT ARITHMETIC FAULT TRAP
244					BBOUND	8	
245	01	00084	00000000 A	FLPF	PZE		
246	01	00085	00000000 A		PZE		
247	01	00086	00000088		PZE,0	*+2	
248	01	00087	00000000 A		PZE		

SIGMA 7 CPU DIAGNOSTIC-AUTB 704044-51800 MARCH 10, 1969 8

249	01	00088	70200084		LCF,2	FLPF	
250	01	00089	0F000464	FPFRET	XPSD,0	RETURN	
251				*			DECIMAL ARITHMETIC FAULT TRAP
252					BBOUND	8	
253	01	0008A	00000000 A	DF	PZE		
254	01	0008B	00000000 A		PZE		
255	01	0008C	0000008E		PZE,0	*+2	
256	01	0008D	00000000 A		PZE		
257	01	0008E	7020008A		LCF,2	DF	
258	01	0008F	0F000464	DFRET	XPSD,0	RETURN	
259				*			WATCHDOG TIMER RUNOUT TRAP
260					BBOUND	8	
261	01	00090	00000000 A	WDTR	PZE		
262	01	00091	00000000 A		PZE		
263	01	00092	00000094		PZE,0	*+2	
264	01	00093	00000000 A		PZE		
265	01	00094	0F000464	WDTRET	XPSD,0	RETURN	
266				*			SPECIAL FIXED POINT TRAP HANDLER- SAVE TRAP ADDRESS FOR VERIFICATION
267	01	00095	3240007E	FXPSW2	LW,4	FXPB	
268	01	00096	4B40033C		AND,4	ADRFRM	
269	01	00097	35400000 A		STM,4	13	PLACE TRAP ADDRESS IN R13
270	01	00098	7020007E		LCF,2	FXPB	
271	01	00099	0F000464	FXPB22	XPSD,0	RETURN	
272					PAGE		
273				*			CALL 1 TRAP
274					BBOUND	8	
275	01	0009A	00000000 A	CAL1	PZE		
276	01	0009B	00000000 A		PZE		
277	01	0009C	0000009E		PZE,0	*+2	
278	01	0009D	00000000 A		PZE		
279	01	0009E	0F000464	CIRET	XPSD,0	RETURN	TRACC=0
280	01	0009F	0F000464		XPSD,0	RETURN	TRACC=1 19=1
281	01	000A0	0F000464		XPSD,0	RETURN	TRACC=2 19=1
282	01	000A1	0F000464		XPSD,0	RETURN	TRACC=3 19=1
283	01	000A2	0F000464		XPSD,0	RETURN	TRACC=4 19=1
284	01	000A3	0F000464		XPSD,0	RETURN	TRACC=5 19=1
285	01	000A4	0F000464		XPSD,0	RETURN	TRACC=6 19=1

SIGMA 7 CPU DIAGNOSTIC-AUT8 704044-51800 MARCH 10, 1969

285	01	000A5	0F000464		XPSD,0	RETURN	TRACC=7	19=1
287	01	000A6	0F000464		XPSD,0	RETURN	TRACC=8	19=1
288	01	000A7	0F000464		XPSD,0	RETURN	TRACC=9	19=1
289	01	000A8	0F000464		XPSD,0	RETURN	TRACC=10	19=1
290	01	000A9	0F000464		XPSD,0	RETURN	TRACC=11	19=1
291	01	000AA	0F000464		XPSD,0	RETURN	TRACC=12	19=1
292	01	000AB	0F000464		XPSD,0	RETURN	TRACC=13	19=1
293	01	000AC	0F000464		XPSD,0	RETURN	TRACC=14	19=1
294	01	000AD	0F000464		XPSD,0	RETURN	TRACC=15	19=1
295					PAGE			
296				*			CALL 2 TRAP	
297					BOUND 8			
298	01	000AE	00000000 A	CAL2	PZE			
299	01	000AF	00000000 A		PZE			
300	01	000B0	000000B2		PZE,0	**2		
301	01	000B1	00000000 A		PZE			
302	01	000B2	0F000464	C2RET	XPSD,0	RETURN	TRACC=0	
303	01	000B3	0F000464		XPSD,0	RETURN	TRACC=1	19=1
304	01	000B4	0F000464		XPSD,0	RETURN	TRACC=2	19=1
305	01	000B5	0F000464		XPSD,0	RETURN	TRACC=3	19=1
306	01	000B6	0F000464		XPSD,0	RETURN	TRACC=4	19=1
307	01	000B7	0F000464		XPSD,0	RETURN	TRACC=5	19=1
308	01	000B8	0F000464		XPSD,0	RETURN	TRACC=6	19=1
309	01	000B9	0F000464		XPSD,0	RETURN	TRACC=7	19=1
310	01	000BA	0F000464		XPSD,0	RETURN	TRACC=8	19=1
311	01	000BB	0F000464		XPSD,0	RETURN	TRACC=9	19=1
312	01	000BC	0F000464		XPSD,0	RETURN	TRACC=10	19=1
313	01	000BD	0F000464		XPSD,0	RETURN	TRACC=11	19=1
314	01	000BE	0F000464		XPSD,0	RETURN	TRACC=12	19=1
315	01	000BF	0F000464		XPSD,0	RETURN	TRACC=13	19=1
316	01	000C0	0F000464		XPSD,0	RETURN	TRACC=14	19=1
317	01	000C1	0F000464		XPSD,0	RETURN	TRACC=15	19=1
318					PAGE			
319				*			CALL 3 TRAP	
320					BOUND 8			
321	01	000C2	00000000 A	CAL3	PZE			
322	01	000C3	00000000 A		PZE			

SIGMA 7 CPU DIAGNOSTIC-AUT8 704044-51800 MARCH 10, 1969 10

323	01	000C4	000000C6		PZE,0	**2		
324	01	000C5	00000000 A		PZE			
325	01	000C6	0F000464	C3RET	XPSD,0	RETURN	TRACC=0	
326	01	000C7	0F000464		XPSD,0	RETURN	TRACC=1	19=1
327	01	000C8	0F000464		XPSD,0	RETURN	TRACC=2	19=1
328	01	000C9	0F000464		XPSD,0	RETURN	TRACC=3	19=1
329	01	000CA	0F000464		XPSD,0	RETURN	TRACC=4	19=1
330	01	000CB	0F000464		XPSD,0	RETURN	TRACC=5	19=1
331	01	000CC	0F000464		XPSD,0	RETURN	TRACC=6	19=1
332	01	000CD	0F000464		XPSD,0	RETURN	TRACC=7	19=1
333	01	000CE	0F000464		XPSD,0	RETURN	TRACC=8	19=1
334	01	000CF	0F000464		XPSD,0	RETURN	TRACC=9	19=1
335	01	000D0	0F000464		XPSD,0	RETURN	TRACC=10	19=1
336	01	000D1	0F000464		XPSD,0	RETURN	TRACC=11	19=1
337	01	000D2	0F000464		XPSD,0	RETURN	TRACC=12	19=1
338	01	000D3	0F000464		XPSD,0	RETURN	TRACC=13	19=1
339	01	000D4	0F000464		XPSD,0	RETURN	TRACC=14	19=1
340	01	000D5	0F000464		XPSD,0	RETURN	TRACC=15	19=1
341					PAGE			
342				*			CALL 4 TRAP	
343					BOUND 8			
344	01	000D6	00000000 A	CAL4	PZE			
345	01	000D7	00000000 A		PZE			
346	01	000D8	000000DA		PZE,0	**2		
347	01	000D9	00000000 A		PZE			
348	01	000DA	0F000464	C4RET	XPSD,0	RETURN	TRACC=0	
349	01	000DB	0F000464		XPSD,0	RETURN	TRACC=1	19=1
350	01	000DC	0F000464		XPSD,0	RETURN	TRACC=2	19=1
351	01	000DD	0F000464		XPSD,0	RETURN	TRACC=3	19=1
352	01	000DE	0F000464		XPSD,0	RETURN	TRACC=4	19=1
353	01	000DF	0F000464		XPSD,0	RETURN	TRACC=5	19=1
354	01	000E0	0F000464		XPSD,0	RETURN	TRACC=6	19=1
355	01	000E1	0F000464		XPSD,0	RETURN	TRACC=7	19=1
356	01	000E2	0F000464		XPSD,0	RETURN	TRACC=8	19=1
357	01	000E3	0F000464		XPSD,0	RETURN	TRACC=9	19=1
358	01	000E4	0F000464		XPSD,0	RETURN	TRACC=10	19=1
359	01	000E5	0F000464		XPSD,0	RETURN	TRACC=11	19=1

SIGMA 7 CPU DIAGNOSTIC-AUTB 704044-51B00				MARCH 10, 1969		11
360	01	000E6	0F000464	XPSD,0	RETURN	TRACC=12 19=1
361	01	000E7	0F000464	XPSD,0	RETURN	TRACC=13 19=1
362	01	000E8	0F000464	XPSD,0	RETURN	TRACC=14 19=1
363	01	000E9	0F000464	XPSD,0	RETURN	TRACC=15 19=1
364				PAGE		
365						
366						PARITY INTERRUPT SERVICE ROUTINE
367	01	000EA	00000000 A	BOUND 8	PZE	
368	01	000EB	00000000 A		PZE	
369	01	000EC	000000EE		PZE,0	*+2
370	01	000ED	00000000 A		PZE	
371	01	000EE	6C400010 A	RD,4	X'1101'	RECORD PARITY ERROR PLANS
372	01	000EF	3250037C	LW,5	CPINT	COUNT PULSE INTERRUPTS
373	01	000F0	6C501300 A	WD,5	X'1300'	ARM AND DISABLE
374	01	000F1	2E000000 A	WAIT,0	0	
375	01	000F2	0E30046A	LPSD,3	REPEAT	RELEASE PARITY INTERRUPT-REPEAT TEST
376						
377				BOUND 8		INTERRUPT BUTTON SERVICE ROUTINE
378	01	000F4	00000000 A		PZE	
379	01	000F5	00000000 A		PZE	
380	01	000F6	000000F8		PZE,0	*+2
381	01	000F7	07000000 A	DATA	X'07000000'	TURN ON INTERRUPT INHIBIT BITS
382	01	000F8	3250037C	LW,5	CPINT	COUNT PULSE INTERRUPTS
383	01	000F9	6D501300 A	WD,5	X'1300'	ARM AND DISABLE
384	01	000FA	32300474	LW,3	PASSES	RESET PASSES TO LAST SETTING
385	01	000FB	22200473	LW,2	ERRORS	RESET ERRORS TO LAST SETTING
386	01	000FC	32100121	LW,1	SAVE	REINITIALIZE LOAD WITH LAST SETTING
387	01	000FD	22000387	LW,0	TYPE	
388	01	000FE	1E000000 A	WAIT,0	0	CONTROL PANEL INTERRUPT
389	01	000FF	4B50039D	CPAN1	AND,5	MASK**
390	01	00100	3550037C	STW,5	CPINT	
391	01	00101	35000387	STW,0	TYPE	DEVICE ADDR IF BIT=0 KSR; =1 LP
392	01	00102	3530037D	STW,5	CPINT	
393	01	00103	0E30046A	LPSD,3	REPEAT	RELEASE PANEL INTERRUPT-REPEAT TEST
394				PAGE		AUTB=CONTROL
395				FILL	X'1001'	
396	01	00104	32200370	AW,2	ZERO	ERRORS

SIGMA 7 CPU DIAGNOSTIC-AUTB 704044-51B00				MARCH 10, 1969		12
397	01	00105	323003C0	LW,3	ZERO	PASSES
398	01	00106	3530037C	STW,3	CPINT	CLEAR RTC OPTION
399	01	00107	35300377	STW,3	ITERATE	CLEAR SHORT LOOP
400	01	00108	3210036A	LW,1	OLDINST	RESTORE LPSD INSTRUCTION INTO SHORT LOOP AREA
401	01	00109	35100150	STW,1	PREL0C	
402	01	0010A	3210033F	LW,1	BREND	STORE 18 END! IN TEST MODULES FOR CASES OF FLOATING POINT AND DECIMAL
403	01	0010B	35101623	STW,1	NFAIMP01+1	
404	01	0010C	35101627	STW,1	NDEC0PT+1	
405	01	0010D	3510162B	STW,1	NDEC0P1+1	
406	01	0010E	35101637	STW,1	NDEC0P2+1	
407	01	0010F	3510072B	STW,1	BAL05+1	RESTORE IN NEM BAL TEST
408	01	00110	32100371	LW,1	NEG51	
409	01	00111	35100373	STW,1	LINE	INITIALIZE LINE COUNT
410	01	00112	32100391	LW,1	NEG2	
411	01	00113	3510036C	STW,1	FIRST	RESET FIRST PASS COUNTER
412	01	00114	3210035E	LW,1	LOAD	INITIALIZE MODULE POINTER, SET C=0
413	01	00115	324003C0	LW,4	ZERO	CLEAR TRANSFER REGISTER
414	01	00116	35100121	STW,1	SAVE	SAVE OLD POINTER FOR RESET
415	01	00117	32500388	LW,5	PCPINT	PARITY AND CONTROL PANEL INTERRUPTS
416	01	00118	6D501200 A	WD,5	X'1200'	ARM AND ENABLE
417	01	00119	35200473	STW,2	ERRORS	SAVE ERROR COUNTER IN MEMORY
418	01	0011A	35300474	STW,3	PASSES	SAVE PASS COUNTER IN MEMORY
419	01	0011B	32500360	LW,5	STORE	PREPARE TO CLEAR THE TABLE, SET I=0
420	01	0011C	32600370	LW,6	NEG20	
421	01	0011D	3550011E	STW,5	*+1	
422	01	0011E	35400444	STW,4	TABLE+I	STORE 0 INTO TABLE+I, I=0 TO 11
423	01	0011F	65500120	BIR,5	*+1	I+1 INTO 1
424	01	00120	6560011D	BIR,6	CLEAR	
425	01	00121	32400488	LW,4	LIST+C	PICK UP COUNT
426	01	00122	69300126	BOS,3	NOTEND	TEST FOR MODULE END
427	01	00123	4B300364	AND,3	M1015	DELETE MODULE COUNT
428	01	00124	20310000 A	AI,3	X'100001'	INCREMENT PASS COUNTER
429	01	00125	680002AC	B	DONE	
430				PAGE		
431	01	00126	32500360	LW,5	STORE	PREPARE TO SET THE TABLE
432	01	00127	32600004 A	LW,6	4	
433	01	00128	3510012A	MOVE	FROM	SET LOAD

SIGMA 7 CPU DIAGNOSTIC-AUTO 704044-51800 MARCH 10, 1969 13

434	01	00129	35508128		STW,5	TO	SET STORE
435	01	0012A	32408488	FROM	LW,4	LIST+C	LOAD VEHICAL
436	01	0012B	35406444	TO	STW,4	TABLE+1	STORE VEHICAL
437	01	0012C	6510012D		BIR,1	*+1	C+1 INTO C
438	01	0012D	6550012E		BIR,5	*+1	I+1 INTO I
439	01	0012E	65600128		BIR,6	MOVE	
440	01	0012F	3510012A		STW,1	FROM	SET MODULE POINTER - NEXT MODULE
441							AUTO-EXECUTE
442	01	00130	32100448		LW,1	TABLE+4	PICK UP INDEX
443	01	00131	32400047		LW,4	XPSD	PICK UP RETURN VEHICAL
444	01	00132	35400169		STW,4	LBC+1	SET LBC+1 OF 'EXECUTE INSTRUCTION'
445	01	00133	35400040		STW,4	NA0TR	SET RETURN FOR SLAVE MODE CASES
446	01	00134	32400446		LW,4	TABLE+2	PSW11
447	01	00135	48400362		AND,4	LINKAD	SELECT LINK ADDRESS AND DELETE MS,MM
448	01	00136	3540046C		STW,4	PSW1	SET UP LINKAGE
449	01	00137	325003C0		LW,5	ZERB	CLEAR R5
450	01	00138	48400363		AND,4	C0ND	CLEAR ADDRESS PORTION OF PSW1
451	01	00139	0E00046C		LPSD,0	PSW1	LINKAGE
452					PAGE		
453				**	ING AT LOCATION DENOTED BY SYMBOL 'SIGNAS'		
454	01	0013A	32400446	SETPSW	LW,4	TABLE+2	
455	01	0013B	48400363		AND,4	C0ND	CLEAR ADDRESS
456	01	0013C	48400362		E0R,4	L0CADD	SET ADDRESS TO L0C
457	01	0013D	3540046C		STW,4	PSW1	
458	01	0013E	32400450		LW,4	TABLE+12	
459	01	0013F	3540046D		STW,4	PSW2	
460	01	00140	22200001	A	LI,2	1	
461	01	00141	32400445		LW,4	TABLE+1	INSTRUCTION
462	01	00142	35400459		STW,4	INST	
463	01	00143	32800340		LW,5	INDA	INDIRECT ADDRESS
464	01	00144	32700368		LW,7	0NE	SET HALF WORD (ODD MEMORY) INDEX
465	01	00145	3550045A		STW,5	IA	
466	01	00146	32800448		LW,8	TABLE+7	STORE EXPECTED MEMORY RESULTS INTO
467	01	00147	3290044F		LW,9	TABLE+11	A DOUBLEWORD BOUNDARY FOR USE IN
468	01	00148	358003AC		STW,8	MEMOUT	AUTOMATIC SHORT LOOP
469	01	00149	359003AD		STW,9	MEMOUT+1	
470	01	0014A	32800449		LW,8	TABLE+5	PUT EXPECTED REGISTER RESULTS INTO

SIGMA 7 CPU DIAGNOSTIC-AUTO 704044-51800 MARCH 10, 1969 14

471	01	0014B	3290044D		LW,9	TABLE+9	AREA FOR USE OF AUTOMATIC SHORT
472	01	0014C	358003AE		STW,8	ROUTPUT	LOOP
473	01	0014D	359003AF		STW,9	ROUTPUT+1	
474	01	0014E	32800448		LW,8	TABLE+4	REGISTER OPERANDS ARE MOVED TO AN
475	01	0014F	3290044C		LW,9	TABLE+8	AREA UTILIZED BY AUTOMATIC SHORT
476	01	00150	35800380		STW,8	RINPUT	LOOP
477	01	00151	35900381		STW,9	RINPUT+1	DETERMINE IF AUTOMATIC SHORT LOOP
478	01	00152	32600377		LW,6	ITERATE	IS INVOKED
479	01	00153	3280044A		LW,8	TABLE+6	MW1
480	01	00154	3290044E		LW,9	TABLE+10	MW+11
481	01	00155	3250037C		LW,5	CPINT	COUNT PULSE INTERRUPTS
482	01	00156	6D501200	A	WD,5	X'1200'	ARM AND ENABLE
483					PAGE		
484				*	REGISTER 1 AND REG 7 ARE NOT RESTORED ON SHORT LOOP		
485				*	IF THE ERROR IDENTIFIER IS - 4 - THEN THE PROGRAM SHOULD		
486				*	BE RUN ON LONG LOOP OR MODIFIED TO RESTORE THE FAILING REGISTER		
487	01	00157	35800460	SHORT	STW,8	MEMORY	
488	01	00158	35900461		STW,9	MEMORY+1	
489	01	00159	32C00448		LW,12	TABLE+4	R
490	01	0015A	32D0044C		LW,13	TABLE+8	RU1
491	01	0015B	32F00341		LW,15	L0C2AD	
492	01	0015C	35F00466		STW,15	RETURN+2	
493	01	0015D	0E00046C	PREL0C	LPSD,0	PSW1	CHANGE TO 18 L0C-1 FOR AUTOMATIC
494	01	0015E	11C003AE	FASTCHK	CD,12	ROUTPUT	SHORT LOOP. OTHERWISE EXECUTE OBJECT
495	01	0015F	69300168		BNE	ERREXIT	INSTRUCTION.
496	01	00160	12C003AC		LD,12	MEMOUT	CHECK MEMORY RESULTS
497	01	00161	11C00460		CD,12	MEMORY	
498	01	00162	68300165		BE	SHORTER	SUCCESSFUL-- LOOP AGAIN
499	01	00163	12C003AE		LD,12	ROUTPUT	RESTORE R5 AND RU1 SINCE MEMORY WAS
500	01	00164	68000168		B	ERREXIT	BAD, REPORT ERROR VIA NORMAL PATH.
501	01	00165	15800480	SHORTER	STD,8	MEMORY	RESTORE MEMORY OPERANDS
502	01	00166	12C00380		LD,12	RINPUT	RESTORE REGISTERS
503	01	00167	0E00046C		LPSD,0	PSW1	GO TO OBJECT INSTRUCTION AT L0C
504	01	00168	67000459	L0C	EXU	INST	
505	01	00169	0F800464		XPSD,8	RETURN	GO TO L0C+2. ALSO X-FER 0 INTO RP
506	01	0016A	6460015E		BDR,6	FASTCHK	TEST RESULTS OF SHORTER LOOP
507					PAGE		

SIGMA 7 CPU DIAGNOSTIC-AUTO 704044-51800 MARCH 10, 1969 15

508	01	0016B	32600377	ERREXIT	LW,6	ITERATE	
509	01	0016C	6C000000	A	RD,0	0	READ SENSE SWITCHES
510	01	0016D	69800157		BCS,8	SHORT	SS1-SHORT LOOP
511	01	0016E	6D501100	A	WD,5	X'1100'	DISARM
512	01	0016E	32200473		LW,2	ERRORS	
513							AUTO-TEST
514	01	00170	3510045B		STW,1	TEST+3	IX
515	01	00171	3210038E		LW,1	0DDBALL	SET RETURN FOR SPURIOUS TRAPS
516	01	00172	35100466		STW,1	RETURN+2	SET RETURN TO RESET+2
517	01	00173	3570045F		STW,7	TEST+7	SAVE HALF WORD INDEX
518	01	00174	32100121		LW,1	SAVE	PICK UP PRESENT LIST ADDRESS
519	01	00175	35C0045C		STW,12	TEST+4	R
520	01	00176	35D0045D		STW,13	TEST+5	RU1
521	01	00177	32500374		LW,5	INSTID	PICK UP INSTRUCTION IDENTIFIED
522	01	00178	32600459		LW,6	TEST+1	INST(R)
523	01	00179	32700445		LW,7	TABLE+1	INST(B)
524	01	0017A	0F0001F2		XPSD,0	ERRR	TEST INSTRUCTION
525	01	0017B	32500375		LW,5	XPSDID	PICK LOCATION+1 IDENTIFIER
526	01	0017C	32600169		LW,6	L0C+1	L0C+1(R)
527	01	0017D	32700047		LW,7	XPSD	L0C+1(B)
528	01	0017E	0F0001F2		XPSD,0	ERRR	TEST LOCATION+1
529					PAGE		
530	01	0017F	32500376		LW,5	IAID	PICK UP INDIRECT ADDRESS IDENTIFIER
531	01	00180	3260045A		LW,6	IA	IA(R)
532	01	00181	32700340		LW,7	INDA	IA(B)
533	01	00182	0F0001F2		XPSD,0	ERRR	TEST INDIRECT ADDRESS WORD
534	01	00183	32500378		LW,5	IXID	PICK UP INDEX IDENTIFIER
535	01	00184	3260045B		LW,6	TEST+3	IX(R)
536	01	00185	32700448		LW,7	TABLE+4	IX(B)
537	01	00186	0F0001F2		XPSD,0	ERRR	TEXT INDEX R1
538	01	00187	32500369		EOR,5	SIX	SET INDEX 7 IDENTIFIER
539	01	00188	3260045F		LW,6	TEST+7	IX7(R)
540	01	00189	3270036B		LW,7	ONE	IX7(B)
541	01	0018A	0F0001F2		XPSD,0	ERRR	TEST INDEX R7
542	01	0018B	32500379		LW,5	PSDWID	PICK UP PROGRAM STATUS IDENTIFIER
543	01	0018C	32600464		LW,6	TEST+12	PSW1(R)
544	01	0018D	32700447		LW,7	TABLE+3	PSW1(B)

SIGMA 7 CPU DIAGNOSTIC-AUTO 704044-51800 MARCH 10, 1969 16

545	01	0018E	0F0001F2		XPSD,0	ERRR	TEST PSW1
546	01	0018F	65500190		BIR,5	*+1	INCREMENT PSW IDENTIFIER
547	01	00190	32600465		LW,6	TEST+13	PSW2(R)
548	01	00191	32700451		LW,7	TABLE+13	PSW2(B)
549	01	00192	0F0001F2		XPSD,0	ERRR	TEST PSW2
550					PAGE		
551	01	00193	3250037A		LW,5	REGID	PICK UP REGISTER IDENTIFIER
552	01	00194	48500368		EOR,5	CEE	SET REGISTER ADDRESS =C(12)
553	01	00195	3260045C		LW,6	TEST+4	R(R)
554	01	00196	32700449		LW,7	TABLE+5	R(B)
555	01	00197	0F0001F2		XPSD,0	ERRR	TEST REGISTER
556	01	00198	65500199		BIR,5	*+1	INCREMENT REGISTER IDENTIFIER
557	01	00199	3260045D		LW,6	TEST+5	RU1(R)
558	01	0019A	3270044D		LW,7	TABLE+9	RU1(B)
559	01	0019B	0F0001F2		XPSD,0	ERRR	TEST REGISTER U 1
560	01	0019C	3250037B		LW,5	MEMID	PICK UP MEMORY IDENTIFIER
561	01	0019D	32600460		LW,6	MEMORY	MW(R)
562	01	0019E	3270044B		LW,7	TABLE+7	MW(B)
563	01	0019F	0F0001F2		XPSD,0	ERRR	TEST MEMORY WORD
564	01	001A0	655001A1		BIR,5	*+1	INCREMENT MEMORY IDENTIFIER
565	01	001A1	32600461		LW,6	MEMORY+1	MW+1(R)
566	01	001A2	3270044F		LW,7	TABLE+11	MW+1(B)
567	01	001A3	0F0001F2		XPSD,0	ERRR	TEST MEMORY WORD + 1
568	01	001A4	325003C0		LW,5	ZER0	SET IDENTIFIER FOR REPORT
569	01	001A5	326001B2		LW,6	ERRIND	
570	01	001A6	692001A9		BCS,2	*+3	
571	01	001A7	6C000000	A	RD,0	0	READ SENSE SWITCHES
572	01	001A8	692001FD		BCS,2	ZR	SS3 # REPORT
573	01	001A9	326003C0		LW,6	BYTE	
574	01	001AA	356001B2		STW,6	ERRIND	
575	01	001AB	6C000040	A	WD,0	X'40'	TURN OFF ALARM
576	01	001AC	32200473		LW,2	ERRORS	C(R2) WOULD EQUAL 1 IF OBJECT INST
577							WAS A BRANCH TO END
578	01	001AD	653001AE		BIR,3	*+1	INCREMENT MODULE COUNTER
579	01	001AE	6C000000	A	RD,0	0	READ SENSE SWITCHES
580	01	001AF	69C00115		BCS,12	CYCLE	LOOP ON CURRENT TEST (SS1 OR 2)
581	01	001B0	3210012A		LW,1	FROM	RESTORE NEW LIST ADDRESS

SIGMA 7 CPU DIAGNOSTIC-AUTB 704044-51800 MARCH 10,1969 17

582	01 001B1	0E00046A		LPSD,0	MODULE	UPDATE POINTER
583	01 001B2	00000000 A	ERRIND	DATA	0	
584				PAGE	15	
585			*			
586	01 001B3	32500367	S19NA0	LW,5	I9	SET XPSD FOR N0A TRAP
587	01 001B4	48500356	R19NA0	E8R,5	NABXD	SET I9=1
588	01 001B5	35500040		STW,5	NABTR	SET I9=0
589	01 001B6	4840034E		E8R,4	NABAD	
590	01 001B7	35400060		STW,4	NAB+2	SET PSW1 BITS 0-11 FOR NAB TRAP
591	01 001B8	6800013A		BCR,0	SETPSW	
592			*			
593	01 001B9	48400350	UIISW	E8R,4	UIIAD	SET PSW1 BITS 0-11 FOR UII TRAP
594	01 001BA	35400074		STW,4	UII+2	
595	01 001BB	6800013A		BCR,0	SETPSW	
596			*			
597	01 001BC	4840034F	SLSW	E8R,4	SLAD	RETURN TO LONG
598	01 001BD	3540007A		STW,4	SL+2	SET PSW1 BITS 0-11 FOR SL TRAP
599	01 001BE	6800013A		BCR,0	SETPSW	
600			*			
601	01 001BF	4840034C	FXP0SW	E8R,4	FXP0AD	SET PSW1 BITS 0-11 FOR EXP0 TRAP
602	01 001C0	35400080		STW,4	FXP0+2	
603	01 001C1	6800013A		BCR,0	SETPSW	
604			*			
605	01 001C2	4840034B	FXPS2	E8R,4	FXPA2	SET PSW1 BITS 0-11 FOR FXPO TRAP
606	01 001C3	35400080		STW,4	FXP0+2	SAVE TRAP ADDRESS LINK
607	01 001C4	6800013A		BCR,0	SETPSW	
608			*			
609	01 001C5	4840034A	FLPFSW	E8R,4	FLPFAD	SET PSW1 BITS 0-11 FOR FLPF TRAP
610	01 001C6	35400086		STW,4	FLPF+2	
611	01 001C7	680001BA		BCR,0	UIISW+1	
612			*			
613	01 001C8	48400349	DFSW	E8R,4	DFAD	SET PSW1 BITS 0-11 FOR DF TRAP
614	01 001C9	3540008C		STW,4	DF+2	
615	01 001CA	680001BA		BCR,0	UIISW+1	
616			*			
617	01 001CB	48400351	WDTRSW	E8R,4	WDTRAD	SET PSW1 BITS 0-11 FOR WDTR TRAP
618	01 001CC	35400092		STW,4	WDTR+2	

SIGMA 7 CPU DIAGNOSTIC-AUTB 704044-51800 MARCH 10,1969 18

619	01 001CD	6800013A		BCR,0	SETPSW	
620				PAGE		
621			*			
622	01 001CE	32500367	S19CL1	LW,5	I9	SET XPSD FOR CAL1
623	01 001CF	48500352	R19CL1	E8R,5	CAL1XD	SET I9=1
624	01 001D0	35500098		STW,5	CAL1TR	SET I9=0
625	01 001D1	48400343		E8R,4	CAL1AD	
626	01 001D2	3540009C		STW,4	CAL1+2	
627	01 001D3	6800013A		BCR,0	SETPSW	
628			*			
629	01 001D4	32500367	S19CL2	LW,5	I9	SET XPSD FOR CAL2
630	01 001D5	48500353	R19CL2	E8R,5	CAL2XD	SET I9=1
631	01 001D6	35500099		STW,5	CAL2TR	SET I9=0
632	01 001D7	48400344		E8R,4	CAL2AD	
633	01 001D8	35400080		STW,4	CAL2+2	
634	01 001D9	6800013A		BCR,0	SETPSW	
635			*			
636	01 001DA	32500367	S19CL3	LW,5	I9	SET XPSD FOR CAL3
637	01 001DB	48500354	R19CL3	E8R,5	CAL3XD	SET I9=1
638	01 001DC	3550009A		STW,5	CAL3TR	SET I9=0
639	01 001DD	48400345		E8R,4	CAL3AD	
640	01 001DE	35400094		STW,4	CAL3+2	
641	01 001DF	6800013A		BCR,0	SETPSW	
642			*			
643	01 001E0	32500367	S19CL4	LW,5	I9	SET XPSD FOR CAL4
644	01 001E1	48500355	R19CL4	E8R,5	CAL4XD	SET I9=1
645	01 001E2	3550009B		STW,5	CAL4TR	SET I9=0
646	01 001E3	48400346		E8R,4	CAL4AD	
647	01 001E4	35400098		STW,4	CAL4+2	
648	01 001E5	6800013A		BCR,0	SETPSW	
649			**			** STORE COND CODE INTO PSW1 IN (TABLE+3) THIS IS NECESSARY FOR TEST I
650			**			** FARWD WHICH ALWAYS READS THE SENSE SWITCHES. A FALSE ERROR MAY OCCU
651			**			** IF SENSE SWITCHES ARE CHANGED DURING THIS SETUP.
652	01 001E6	6C000000 A	FARWD	RD,0	0	READ SENSE SWITCHES
653	01 001E7	74006447	STCF	TABLE+3		
654	01 001E8	6800013A	B	SETPSW		
655			PAGE			

SIGMA 7 CPU DIAGNOSTIC-AUTB 704044-51B00 MARCH 10,1969 19

656	01	001E9	31300383	INITIATE	CW,3	TENPAS	CHECK FOR TEN PASSES
657	01	001EA	693002C9		BNE	RTC	
658	01	001EB	21200000 A		CI,2	0	CHECK FOR ERROR
659	01	001EC	69300114		BNE	CYCLE-1	START ANOTHER PASS
660	01	001ED	32100372		LW,1	NEWINST	CHANGE LPSD TO BDR FOR AUTOMATIC
661	01	001EE	3510015D		STW,1	PRELOC	SHORT LOOP
662	01	001EF	22100064 A		LI,1	100	
663	01	001FO	35100377		STW,1	ITERATE	
664	01	001F1	68000114		B	CYCLE-1	START A PASS UTILIZATION THE AUTO-
665					PAGE		
666					B8UND	8	DECIMAL-ERROR
667	01	001F2	00000000 A	ERROR	PZE		
668	01	001F3	00000000 A		PZE		
669	01	001F4	000001F6		PZE,0	*+2	
670	01	001F5	00000000 A		PZE		
671	01	001F6	32800006 A		LW,8	6	PICK UP RESULT
672	01	001F7	48800007 A		EBR,8	7	COMPARE WITH PREDERMINED RESULT
673	01	001F8	693001FA		BCS,3	TSTDVC	DIFF # 0
674	01	001F9	0E0001F2		LPSD,0	ERRR	
675	01	001FA	652001FB	TSTDVC	BIR,2	*+1	INCREMENT ERROR COUNTER
676	01	001FB	35200473		STW,2	ERRR8S	KEEP A RUNNING COUNT
677	01	001FC	60000041 A		WD,0	X'141'	TURN ON AUDIB ALARM
678	01	001FD	328002E6	ZR	LW,11	IBM	
679				**		IBM HAS IO INTERRUPT BIT IF IO COMPATIBILITY IS IN USE	
680	01	001FE	6DB01500 A		WD,11	X'1500'	DISABLE IO INTERRUPT
681	01	001FF	32E00365		LW,11	603	
682	01	00200	35800182		STW,11	ERRIND	SET ERROR INDICATOR TO ALLOW RETURN
683				*			TO BYPASS SS 3 SETTING
684	01	00201	4E000000 A	TESTIO	AIB,0	0	CLEAR INTERRUPT PENDING
685	01	00202	CDE00387		TIO,11	*TYPE	
686	01	00203	68C00210		BCR,12	EDIT	GO IF IO ADDR RECG AND SIO POSSIBLE
687	01	00204	68400201		BCR,4	TESTIO	REPEAT TIO IF SIO IS BUSY
688	01	00205	68800207		BCR,8	*+2	SIO NOT CURRENTLY POSSIBLE
689	01	00206	6800020A		B	HLTEST	IO ADDRESS NOT RECOGNIZED
690	01	00207	48800365		AND,11	603	SAVE OPERATIONAL STATE BITS
691	01	00208	48800365		EBR,11	603	
692	01	00209	68300201		BEZ	TESTIO	DEVICE BUSY

SIGMA 7 CPU DIAGNOSTIC-AUTB 704044-51B00 MARCH 10,1969 20

693	01	0020A	6C000000 A	HLTEST	RD,0	0	READ SENSE SWITCHES
694	01	0020B	6910020D		BCS,1	N0HALT	
695	01	0020C	2E000000 A		WAIT		COMMON ERROR HALT
696	01	0020D	328002E6	N0HALT	LW,11	IBM	
697	01	0020E	6DB01400 A		WD,11	X'1400'	ENABLE IO INTERRUPT
698	01	0020F	0E0001F2		LPSD,0	ERRR	
699					PAGE		
700				*			EDIT-LEVEL 3
701	01	00210	32C00361	EDIT	LW,12	STRMG1	SET STORAGE WORD
702	01	00211	3290036E		LW,9	NEG8	
703	01	00212	32A00005 A		LW,10	5	TEST R5=0
704	01	00213	69300215		BCS,3	REPORT+1	DISPLAY
705	01	00214	3290038F	REPORT	LW,9	NEG4	
706	01	00215	32A00359		LW,10	L0ADR	SET REGISTER PICKUP
707	01	00216	35A00217		STW,10	LDREG	
708	01	00217	32A00001 A	LDREG	LW,10	1	PICK UP REGISTER 1 THRU 8(DIS) OR 4
709	01	00218	35A00476		STW,10	WORD	
710	01	00219	35900472		STW,9	COUNT	
711	01	0021A	32F00391		LW,15	NEG2	SET WORD COUNT(M)=2
712	01	0021B	3200035A		LW,0	LWN	SET N=-4,-4
713	01	0021C	32A0035C		LW,10	LWFRM	SET FRAME = F0F0F0F0, F0F0F0F0
714	01	0021D	3280033B		LW,11	ANFR8	SET CHAR POSITIONS 1234,5678
715	01	0021E	48900368		AND,9	0NE	TEST COUNT EVEN
716	01	0021F	69300224		BCS,3	0DD	
717	01	00220	32F0036D	EVEN	LW,15	NEG3	SET WORD COUNT(M)=3
718	01	00221	32000358		LW,0	LWN2	SET N=-2,-4,-2
719	01	00222	32A0035D		LW,10	LWFRM2	SET FRAME=4040F0F0,F0F0F0F0,F0F04040
720	01	00223	3280033D		LW,11	ANFR2	SET CHAR POSITIONS 12,34,56,78
721	01	00224	32E0033E	0DD	LW,14	ANMK	SET DIGIT +ICK = BITS 0-3, 4-7, ETC.
722	01	00225	35000228	WORDS	STW,0	SETN	SET NUMBER PICK UP
723	01	00226	35A00229		STW,10	SETFRM	SET FRAME PICK UP
724	01	00227	35C00244		STW,12	STRWD	SET STORAGE LOCATION
725	01	00228	3200038F	SETN	LW,0	NUMBER	SET NUMBER
726	01	00229	32D00394	SETFRM	LW,13	FRAME	SET FRAME (FINAL CHAR-BYTE POSITION)
727	01	0022A	3580023F	BYTES	STW,11	ANCF	SET FILTER
728	01	0022B	35000475		STW,13	WKB	SAVE FRAME
729	01	0022C	35E00234		STW,14	ANDM	SET MASK (ORIGINAL CHAR POSIT(8N))

SIGMA 7 CPU DIAGNOSTIC-AUT8 704044-51800				MARCH 10, 1969		21
730	01	0022D	32A00357	LW,10	LWBIT	SET BIT PICK UP
731	01	0022E	32C0038F	LW,12	NEG4	SET BIT COUNT
732	01	0022F	32D003C0	LW,13	ZER0	SET CHAR GENERATOR TO ZERO
733					PAGE	
734	01	00230	35A00232	STW,10	LWB	
735	01	00231	35A00237	STW,10	LWBT	
736	01	00232	3290038A	LW,9	BIT	PICK UP BIT 1,2,4OR 8
737	01	00233	48900476	AND,9	WORD	(BIT)*(WORD)
738	01	00234	48900399	AND,9	MASK	(BIT)*(WORD)*(MASK)
739	01	00235	69300237	BCS,3	LWBT	LWBT IF WORD HAS BIT IN MASK POSITION
740	01	00236	0E000468	LPSD,0	BUMP	
741	01	00237	3290038A	LW,9	BIT	PICK UP BIT
742	01	00238	48D000C9	EOR,13	9	MERGE BIT WITH CHAR BEING CONSTRUCTE
743	01	00239	65A0023A	BIR,10	*+1	INCREMENT BIT PICK UP
744	01	0023A	65C00230	BIR,12	BITS	CONTINUE CHAR CONSTRUCTION
745	01	0023B	48D003A0	AND,13	MASK+7	PICK OF BINARY * BIT CHAR
746	01	0023C	48D00358	EOR,13	LWBYTE	CONSTRUCT BYTE PICK UP WORD
747	01	0023D	35D0023E	STW,13	LWBY	
748	01	0023E	32D003C0	LW,13	BYTE	PICK UP CONVERTED BYTE
749	01	0023F	48D003A1	AND,13	FILTER	SELECT DESIRED TYTE
750	01	00240	48D00475	EOR,13	WK0	MERGE BYTE INTO CONVERTED WORD
751	01	00241	65B00242	BIR,11	*+1	INCREMENT CONVERTED BYTE POSITION
752	01	00242	65E00243	BIR,14	*+1	INCREMENT SELECTED CHAR POSITION
753	01	00243	6500022A	BIR,0	BYTES	TEST FOR N CHAR'S
754	01	00244	35D0042F	STW,13	IMAGE+1	STORE CONVERTED WORD
755	01	00245	32D00228	LW,0	SETN	SET NUMBER PICK UP
756	01	00246	32A00229	LW,10	SETFRM	SET FRAME PICK UP
757	01	00247	32C00244	LW,12	STRWD	PICK UP STORE WORD
758	01	00248	65000249	BIR,0	*+1	INCREMENT NUMBER PICK UP
759	01	00249	65A0024A	BIR,10	*+1	INCREMENT FRAME PICK UP
760	01	0024A	65C0024B	BIR,12	*+1	INCREMENT STORE LOCATION
761	01	0024B	65F00225	BIR,15	WRDS	INCREMENT M - BRANCH IF M NOT ZERO
762	01	0024C	32900472	LW,9	COUNT	SET COUNT
763	01	0024D	32A00217	LW,10	LDREG	SET REGISTER PICK UP
764	01	0024E	65A0024F	BIR,10	*+1	INCREMENT REGISTER PICK UP
765	01	0024F	65900216	BIR,9	LDREG-1	BRANCH TO LDREG IF COUNT NOT ZERO
766					PAGE	

SIGMA 7 CPU DIAGNOSTIC-AUT8 704044-51800				MARCH 10, 1969		22
767						OUTPUT-LEVEL 3
768	01	00250	32F00373	LW,15	LINE	LINE COUNT (-51)
769	01	00251	32E0036C	LW,14	FIRST	--2 FIRST TIME
770	01	00252	32000387	LW,0	TYPE	TEST FOR OUTPUT DEVICE
771	01	00253	69100268	BLZ	LPO	
772	01	00254	65E00258	BIR,14	SKIP6	FIRST TIME THRU
773	01	00255	65F0025D	BIR,15	LINOUT	LINE COUNT NOT ZERO
774	01	00256	32000300	LW,0	PSIXCR	
775	01	00257	0F00027E	XPSD,0	PRINT	OUTPUT 6 CAR. RET.
776	01	00258	320003D1	LW,0	PTITLE	
777	01	00259	0F00027E	XPSD,0	PRINT	NEW PAGE TITLE
778	01	0025A	320003D2	LW,0	PHEAD	
779	01	0025B	0F00027E	XPSD,0	PRINT	NEW HEADING
780	01	0025C	32F00371	LW,15	NEG51	RESET LINE COUNT
781	01	0025D	320003D4	LW,0	PLONGL	SET UP DISPLAY PRINTOUT
782	01	0025E	32A00005	LW,10	5	PICK UP IDENTIFIER
783	01	0025F	69300261	BCS,3	IO	
784	01	00260	320003D3	LW,0	PSHRTL	SET UP RECORD PRINTOUT
785	01	00261	0F00027E	XPSD,0	PRINT	
786	01	00262	35F00373	STW,15	LINE	SAVE NEW LINE COUNT
787	01	00263	35E0036C	STW,14	FIRST	SAVE NEW FIRST PASS INDICATOR
788	01	00264	6D000040	WD,0	X'40'	TURN OFF ALARM
789	01	00265	0E000266	LPSD,0	GETOUT	
790					PAGE	
791					BOUND 8	
792	01	00266	0030020A	GETOUT	PZE,3	HLTEST
793	01	00267	00000000	A	PZE	
794	01	00268	CEB00387	LPO	TDV,11	*TYPE
795	01	00269	68C0026C	BCR,12	*+3	
796	01	0026A	68400268	BCR,4	*+2	GO IF IOP AND DEVICE ADDR RECOG
797	01	0026B	68000262	B	IO+1	GO IF SIOP BUSY
798	01	0026C	35B00382	STW,11	TEMP	IO OPERATION NOT POSSIBLE
799	01	0026D	48B00381	AND,11	MOTION	PAPER IS MOVING
800	01	0026E	69300268	BNEZ	LPO	LOOP TILL PAPER STOPS
801	01	0026F	32B00382	LW,11	TEMP	
802	01	00270	48B00384	AND,11	IOP	CHECK FOR IOP OF FORM
803	01	00271	6930027A	BNEZ	LPTOP	OUTPUT TITLE AND HEADING

SIGMA 7 CPU DIAGNOSTIC-AUT8 704044-51800 MARCH 10, 1969 23

806	01	00272	65E00278		BIR,14	G8T8P	GO TO TOP OF FORM IF FIRST PASS
805	01	00273	32008307	LPM8G	LW,0	LPERR	ERROR MSG CDA
806	01	00274	32A00005 A		LW,10	5	PICK UP IDENTIFIER
807	01	00275	69300277		BCS,3	*+2	REPORT
808	01	00276	32000308		LW,0	LPREPORT	REPORT MSG CDA
809	01	00277	68000261		B	I8	
810	01	00278	32000305	G8T8P	LW,0	LP88T8P	GO TO TOP OF FORM
811	01	00279	0F00027E		XP8D,0	PRINT	
812	01	0027A	32000306	LPT8P	LW,0	LPF8RMT	PRINT TITLE AND HEADING
813	01	0027B	0F00027E		XP8D,0	PRINT	
814	01	0027C	68000273		B	LPM8G	
815						PAGE	
816				*			PRINT-LEVEL 4
817					BBUND 8		
818	01	0027E	00000000 A	PRINT	PZE		
819	01	0027F	00000000 A		PZE		
820	01	00280	00000282		PZE,0	*+2	
821	01	00281	00000000 A		PZE		
822	01	00282	CC800387	BUSY	SIO,11	*TYPE	OUTPUT MSG
823	01	00283	68C00288		BCR,12	D8NEM8G	SIO ACCEPTED
824	01	00284	68400282		BCR,4	BUSY	SIO8 BUSY. REPEAT SIO
825	01	00285	68800287		BCR,8	*+2	G8 IF SIO NOT ACCEPTED
826	01	00286	68000293		B	EXITIO	I8 ADDR NOT RECOGNIZED
827	01	00287	48B00365		AND,11	6Q3	SAVE OPERATIONAL STATE BITS
828	01	00288	48E00365		E8R,11	6Q3	
829	01	00289	68300282		BEZ	BUSY	DEVICE BUSY. REPEAT SIO
830	01	0028A	68000293		B	EXITIO	DEVICE NOT OPERATIONAL OR UNAVAIL
831	01	0028B	CD800387	D8NEM8G	TIO,11	*TYPE	
832	01	0028C	68C00293		BCR,12	EXITIO	
833	01	0028D	68400288		BCR,4	D8NEM8G	SIO8 BUSY
834	01	0028E	68800290		BCR,8	*+2	ACCEPTABLE SIO NOT CURRENTLY POSS
835	01	0028F	68000293		B	EXITIO	I8 ADDR NOT RECOGNIZED
836	01	00290	48B00365		AND,11	6Q3	SAVE OPERATIONAL STATE BITS
837	01	00291	48E00365		E8R,11	6Q3	
838	01	00292	68300288		BEZ	D8NEM8G	DEVICE BUSY. REPEAT TIO
839	01	00293	0E00027E	EXITIO	LP8D,0	PRINT	
840	01	00294	32200298	SETRPLY	LW,2	REPLAY	BRANCH TO AUTO IS STORED INTO LOC.26

SIGMA 7 CPU DIAGNOSTIC-AUT8 704044-51800 MARCH 10, 1969 24

841	01	00295	35200026 A		STW,2	38	
842	01	00296	6C000000 A		RD,0	0	READ THE SENSE SWITCHES
843	01	00297	68800104		BCR,8	AUT8	G8 IF SS1 IS OFF
844				*****			PREVENT COUNTER INTERRUPT IMPLEMENTATION *****
845	01	00298	2E000000 A		WAIT	0	TURN SENSE SWITCH 1 OFF.
846	01	00299	322003C0		LW,2	ZER8	
847	01	0029A	3520037D		STW,2	CPINTM	
848	01	0029B	68000104	REPLAY	B	AUT8	
849					BBUND	8	
850					PAGE		
851				** TEST			TO SEE IF FLOATING POINT OPTION IS INSTALLED (FIRST PASS ONLY)
852	01	0029C	00000000 A	TRAPRTN	DATA	0,0,FLNIN,0	
	01	0029D	00000000 A				
	01	0029E	000002AA				
	01	0029F	00000000 A				
853	01	002A0	21310000 A	D8NE	CI,3	X'100001	
854	01	002A1	693001E9		BNE	INITIATE	CHECK FOR INITIALIZATION OF AUTO-
855				*			MATIC LOOP
856	01	002A2	320002FB		LW,0	NIMP	SETUP TRAP LOCATION
857	01	002A3	35000041		STW,0	UIITR	
858	01	002A4	320002F9		LW,0	FLNI	TRAP RETURN ADDRESS, FLOATING POINT
859	01	002A5	3500029E		STW,0	TRAPRTN+2	SEQUENCE
860	01	002A6	32C003C1		LW,12	BYTE+1	
861	01	002A7	30C003C1	FLOAT	FAS,12	BYE+1	EXECUTE FLOATING POINT
862	01	002A8	320002FC		LW,0	PFL8ATP	MSG; FLOATING POINT OPTION IS IN
863	01	002A9	680002AD		B		
864	01	002AA	320002A7	FLNIN	LW,0	FL8AT	TRAP RETURN FOR FLOATING POINT
865	01	002AB	35001623		STW,0	NFAIMP0+1	ALLOW TEST OF TRAP EACH TIME
866	01	002AC	320002FD		LW,0	PNFL8ATP	MSG; FLOATING POINT NOT INSTALLED
867	01	002AD	0F00027E	FLPRINT	XP8D,0	PRINT	OUTPUT THE SELECTED MSG
868	01	002AE	3200031C		LW,0	DECN	TRAP RETURN ADDRESS, DECIMAL SEQUENCE
869	01	002AF	3500029E		STW,0	TRAPRTN+2	
870	01	002B0	7E400318	DECI	DL,4	DECHRD	EXECUTE DECIMAL LOAD INSTRUCTION
871	01	002B1	3200031D		LW,0	PTDCWD	MSG; DEC OPTION IS INSTALLED
872	01	002B2	6800028A		B	PTDEC	
873	01	002B3	32000280	DECIN	LW,0	DECI	TRAP RETURN, DECIMAL NOT
874	01	002B4	35001627		STW,0	NDEC8PT+1	IMPLEMENTED-- SET DECIMAL

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SIGMA 7 GPU DIAGNOSTIC-AUTB 704044-51B00 MARCH 10,1969 25
875 01 002B5 32006347 LW,0 DECPAK INSTRUCTION TO TEST MODULES
876 01 002B6 3500162B STW,0 NDEC0P1+1 DECIMAL PACK
877 01 002B7 32000348 LW,0 DECDT EDIT BYTE STRING
878 01 002B8 35001637 STW,0 NDEC0P2+1
879 01 002B9 3200031E LW,0 NPTDCWD
880 01 002BA 0F00027E PTDEC XPSD,0 PRINT
881 01 002BB 320002FA LW,0 IMP
882 01 002BC 35000041 STW,0 UIITR RESTORE BRIG XPSD TO LOC 41
883
884 *
885 * TEST FOR NON-EXISTENT MEMORY. IF ANY, SETUP BAL TEST. *B
886 01 002BD 220002C5 LI,0 RETADDR MODIFY RETURN FOR NON-EX MEM TRAP *B
887 01 002BE 35000466 STW,0 RETURN+2 *B
888 01 002BF 22100FFF A LI,1 4095 INITIAL ADDR *B
889 01 002C0 B2000001 A LW,0 *1 SEARCH FOR NEM *B
890 01 002C1 20101000 A AI,1 4096 NEXT 4K *B
891 01 002C2 21120FFF A CI,1 X'20FFF' > POSSIBLE MEMORY SIZE *B
892 01 002C3 68300114 BE CYCLE=1 GO IF 128K OF MEMORY *B
893 01 002C4 680002C0 B $=4 TRY NEXT 4K *B
894 * TRAP COMES HERE WHEN SEARCHING FOR NEM *B
895 01 002C5 22000477 RETADDR LI,0 SPURTRAP *B
896 01 002C6 35000466 STW,0 RETURN+2 RESTORE SPURIOUS TRAP CAPABILITY *B
897 01 002C7 4910070D BR,1 BAL01+1 COMBINE BAL,12 WITH NEM ADDR *B
898 01 002C8 3510072B STW,1 BAL05+1 MODIFY TEST MODULE *B
899 PAGE
900 *THE FOLLOWING ROUTINE IMPLEMENTS THE COUNT PULSE INTERRUPTS AFTER X'20
901 *PASSES WITHOUT ERROR
902 01 002C9 31300385 RTC CW,3 MAXCNT
903 01 002CA 69300114 BNE CYCLE-1
904 01 002CB 21200000 A CI,2 0
905 01 002CC 69300114 BNE CYCLE-1
906 01 002CD 3200037D LW,0 CPINTM
907 01 002CE 68300114 BEZ CYCLE-1 DO NOT OUTPUT MSG
908 01 002CF 32000309 LW,0 PRTCMG
909 01 002D0 0F00027E XPSD,0 PRINT
910 01 002D1 3200039D LW,0 MASK+4 BITS FOR COUNTER 1,2,3 AND 4
911 01 002D2 3500037C STW,0 CPINT STORED INTO CPINT

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SIGMA 7 CPU DIAGNOSTIC-AUTB 704044-51B00 MARCH 10,1969 26
912 01 002D3 68000114 XRTC B CYCLE-1 RESUME WITH FIRST MODULE
913 **
914 ** ENTER AT THIS POINT TO BEGIN IO COMPATIBILITY TEST
915 ** ENTER THE IO DEVICE ADDRESS IN MEMORY LOCATION X'10'.
916 **
917 01 002D4 22E00020 A SETINTR LI,14 X'20'
918 01 002D5 35E092E6 STW,14 I0M PUT IO INTERRUPT BIT IN I0M
919 01 002D6 6DE01200 A WD,14 X'1200' ARM AND ENABLE IO INTERRUPT
920 01 002D7 670002EC EXU A10
921 01 002D8 670002E2 EXU A10+2
922 01 002D9 670002E3 EXU A10+3
923 01 002DA 68000114 B CYCLE=1
924 BOUND 8
925 01 002DB 00000114 I0INTR DATA CYCLE-1,0,A10,0 ENTRY TO INTERRUPT ROUTINE
926 01 002DD 00000000 A
927 01 002DE 000002E0
928 01 002DF 00000000 A
929 01 002E0 6E000000 A A10 A10,0 0 CLEAR INTERRUPT PENDING
930 01 002E1 350002E8 STW,0 SAVED
931 01 002E2 320002E7 LW,0 PI0COMP COMMAND DOUBLEWORD ADDRESS
932 PAGE
933 *** CDW SPECIFIES A SIMPLE WRITE ORDER. OPERATOR MAY CHANGE ANY PART OF
934 *** THE CDW PROVIDED THE FIRST 8K OF MEMORY IS NOT DISTURBED BY A READ
935 *** ORDER. CDW IS AT LOCATION DENOTED BY SYMBOL 'I0COMP'.
936 01 002E3 CC000010 A SIB,0 *16 X'10' HAS DEVICE ADDRESS
937 01 002E4 320002E8 LW,0 SAVED RESTORE C(RO)
938 01 002E5 0E0002DC LPSD,11 I0INTR RETURN TO PROGRAM *B
939 01 002E6 00000000 A I0M DATA 0 CHANGED TO X'20' FOR IO COMPAT.
940 01 002E7 00000175 PI0COMP P I0COMP CDA
941 01 002E8 00000000 A SAVED DATA 0
942 *
943 *
944 01 002EA 05000BB1 N I0COMP BOUND 8
50000031 GEN,8,24,8,16 5,BA(COMP)+1,80,0,49 CDW
945 01 002EC 31154040 A COMP TEXTC IN IO COMPATIBILITY TEST IS IN PROGRESS.

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01	002ED	40404040 A				
01	002EE	40408080 A				
01	002EF	4040C906 A				
01	002F0	40C3D6D4 A				
01	002F1	D7C1E3C9 A				
01	002F2	C2C9D3C9 A				
01	002F3	E3E840E3 A				
01	002F4	C5E2E340 A				
01	002F5	C9E240C9 A				
01	002F6	D540D7D9 A				
01	002F7	D6C7D9C5 A				
01	002F8	E2E24040 A				
945				B0UND	4	
946	01	002F9	000002AA	FLNT	DATA	FLNIN
947	01	002FA	0F000072	IHP	XPSD,0	UII
948	01	002FB	0F00029C	NIMP	XPSD,0	TRAPRTN
949	01	002FC	0000017F	PFLBATP	P	FLBATP
950	01	002FD	00000186	PNFLBATP	P	NFLBATP
951				PAGE		
952				B0UND	8	
953	01	002FE	05000C01 N	FLBATP	GEN,8,24,8,8,16 5,BA(FLM)+1,8,0,47	CWD
			0800002F			
954	01	00300	2F154040 A	FLM	TEXTC	'N FLOATING POINT OPTION IS INSTALLED'
	01	00301	40404040 A			
	01	00302	40404040 A			
	01	00303	4040C6D3 A			
	01	00304	D6C1E3C9 A			
	01	00305	D5C740D7 A			
	01	00306	D3C9D5E3 A			
	01	00307	40D6D7E3 A			
	01	00308	C9D6D540 A			
	01	00309	C9E240C9 A			
	01	0030A	D3E2E3C1 A			
	01	0030B	D3D3C5C4 A			
955				B0UND	8	
956	01	0030C	05000C39 N	NFLBATP	GEN,8,24,8,8,16 5,BA(NFLM)+1,8,0,48	CWD
			08000030			

957	01	0030E	30154040 A	NFLM	TEXTC	'N FLOATING POINT OPTION NOT INSTALLED'
	01	0030F	40404040 A			
	01	00310	40404040 A			
	01	00311	4040C6D3 A			
	01	00312	D6C1E3C9 A			
	01	00313	D5C740D7 A			
	01	00314	D6C9D5E3 A			
	01	00315	40D6D7E3 A			
	01	00316	C9D6D540 A			
	01	00317	D5D6E340 A			
	01	00318	C9D5E2E3 A			
	01	00319	C1D3D3C5 A			
	01	0031A	C4404040 A			
958				B0UND	4	
959	01	0031B	0000000A A	DECWRD	DATA	X'1A' DECIMAL PLUS ZERO, PACKED
960	01	0031C	00000283	DECN	DATA	DECIN
961	01	0031D	00000190	PTDCWD	P	DECP
962	01	0031E	00000197	NPTDCWD	P	NDECP
963				B0UND	8	
964	01	00320	05000C89 N	DECP	GEN,8,24,8,8,16 5,BA(DECP)+1,8,0,40	CWD
			08000028			
965	01	00322	28154040 A	DECP	TEXTC	'N DECIMAL OPTION IS INSTALLED'
	01	00323	40404040 A			
	01	00324	40404040 A			
	01	00325	4040C4C5 A			
	01	00326	C3C9D4C1 A			
	01	00327	D340D6D7 A			
	01	00328	E3C9D6D5 A			
	01	00329	40C9E240 A			
	01	0032A	C9D5E2E3 A			
	01	0032B	C1D3D3C5 A			
	01	0032C	C4404040 A			
966				B0UND	8	
967	01	0032E	05000CC1 N	NDECP	GEN,8,24,8,8,16 5,BA(NDECP)+1,8,0,41	CWD
			08000029			
968	01	00330	29154040 A	NDECP	TEXTC	'N DECIMAL OPTION NOT INSTALLED'
	01	00331	40404040 A			

01	00332	40404040 A					
01	00333	4040C4C5 A					
01	00334	C3C9D4E1 A					
01	00335	D340D6D7 A					
01	00336	E3C9D6D5 A					
01	00337	40D5D6E3 A					
01	00338	40C9D5E2 A					
01	00339	E3C1D3D3 A					
01	0033A	C5C44040 A					
969				PAGE			
970				BBOUND	4		
971			*				CONSTANTS AND WORKING STORAGE
972	01	0033B	4BD003A1	ANFR0	AND,13	FILTER	PICK BFF CONVERTED BYTE
973	01	0033C	0001FFFF A	ADRFRM	DATA	X'1FFFF'	PSW1 ADDRESS FORMAT
974	01	0033D	4BD003A3	ANFR2	AND,13	FILTER+2	
975	01	0033E	4B900399	ANMK	AND,9	MASK	PICK BFF CHAR. TO BE CONVERTED
976	01	0033F	680001AB	BREND	B	END	
977	01	00340	00000460	INDA	PZE,0	MEMBRY	INDIRECT ADDRESS
978	01	00341	0000016A	L0C2AD	PZE,0	L0C+2	
979	01	00342	00000168	L0CADD	PZE,0	L0C	
980	01	00343	0000009E	CAL1AD	PZE,0	CAL1+4	
981	01	00344	00000082	CAL2AD	PZE,0	CAL2+4	
982	01	00345	000000C6	CAL3AD	PZE,0	CAL3+4	
983	01	00346	000000DA	CAL4AD	PZE,0	CAL4+4	
984	01	00347	76100460	DECPAK	PACK,1	MEMBRY	RELOCATABLE INSTRUCTION
985	01	00348	63C00000 A	DECEDT	EBS,12	0	RELOCATABLE INSTRUCTION
986	01	00349	0000008E	DFAD	PZE,0	DF+4	
987	01	0034A	00000088	FLPFAD	PZE,0	FLPF+4	
988	01	0034B	00000095	FXPA2	DATA	FXPSW2	SPECIAL FXP0 RETURN
989	01	0034C	00000082	FXP0AD	PZE,0	FXP0+4	
990	01	0034D	00000460	MEMAD	PZE,0	DA(MEMBRY)	
991	01	0034E	00000062	NABAD	PZE,0	NAB+4	
992	01	0034F	0000007C	SLAD	PZE,0	SL+4	
993	01	00350	00000076	UIIAD	PZE,0	UII+4	
994	01	00351	00000094	WDTRAD	PZE,0	WDTR+4	
995	01	00352	0F00009A	CAL1XD	XPSD,0	CAL1	
996	01	00353	0F0000AE	CAL2XD	XPSD,0	CAL2	

997	01	00354	0F0000C2	CAL3XD	XPSD,0	CAL3	
998	01	00355	0F0000D6	CAL4XD	XPSD,0	CAL4	
999	01	00356	0F00005E	NABXD	XPSD,0	NAB	
1000	01	00357	3290038A	LWBIT	LW,9	BIT	PICK UP MARCHING BITS
1001	01	00358	32D003C0	LWBYTE	LW,13	BYTE	SELECT BYTE
1002	01	00359	32A00001 A	LOADR	LW,10	1	PICK UP REGISTERS FOR OUTPUT
1003	01	0035A	3200038F	LWN	LW,0	NUMBER	PICK UP NUMBERS
1004	01	0035B	32000391	LWN2	LW,0	NUMBER+2	
1005						PAGE	
1006	01	0035C	32D00394	LWFRM	LW,13	FRAME	PICK UP FRAMES
1007	01	0035D	32D00396	LWFRM2	LW,13	FRAME+2	
1008	01	0035E	32400488	LOAD	LW,4	LIST	LOAD TRANSFER VEHICAL WITH DATA MODU
1009	01	0035F	000001AB	RETEND	PZE,0	END	RETURN TO END
1010	01	00360	35400444	STORE	STW,4	TABLE	SET TABLE
1011	01	00361	35D0042F	STRMG1	STW,13	IMAGE+1	
1012	01	00362	FF3FFFFFF A	LINKAD	DATA	X'FF3FFFFFF'	
1013	01	00363	FFF00000 A	C0ND	DATA	X'FFF00000'	
1014	01	00364	FFFF0000 A	MIG15	DATA	X'FFFF0000'	
1015	01	00365	70000000 A	6Q3	GEN,4,28	7,0	CHECKS I/O FOR BUSY OR MANUAL
1016	01	00366	20000000 A	2Q3	DATA	X'20000000'	
1017	01	00367	00400000 A	I9	DATA	X'40000000'	
1018	01	00368	0000000C A	CEE	DATA	12	
1019	01	00369	00000006 A	SIX	DATA	6	
1020	01	0036A	0E00046C	BLDINST	LPSD,0	PSW1	
1021	01	0036B	00000001 A	0NE	DATA	1	
1022	01	0036C	FFFFFFFFE A	FIRST	DATA	-2	
1023	01	0036D	FFFFFFFFD A	NEG3	DATA	-3	
1024	01	0036E	FFFFFFFF8 A	NEG8	DATA	-8	
1025	01	0036F	FFFFFFFF4 A	NEG12	DATA	-12	
1026	01	00370	FFFFFFFFC A	NEG20	DATA	-20	
1027	01	00371	FFFFFFFFCD A	NEG51	DATA	-51	
1028	01	00372	68000167	NEWINST	B	L0C-1	
1029	01	00373	FFFFFFFFCD A	LINE	DATA	-51	
1030	01	00374	10000000 A	INSTID	I	1,0	INSTRUCTION
1031	01	00375	20000169	XPSDID	I	2,L0C+1	L0CATION+1
1032	01	00376	30000000 A	IAD	I	3,0	INDIRECT ADDRESS
1033	01	00377	00000000 A	ITERATE	DATA	0	

SIGMA 7 CPU DIAGNOSTIC-AUTS 704044-51B00 MARCH 10, 1969 31

1034	01	00378	40000001 A	IXID	I	4,1	INDEX
1035	01	00379	50000001 A	PSWDID	I	5,1	PROGRAM STATUS DOUBLEWORD
1036	01	0037A	60000000 A	REGID	I	6,0	REGISTERS
1037	01	0037B	700000480	MEMID	I	7, MEMORY	MEMORY WORDS
1038							
1039				*CPINT	PAGE		
1040	01	0037C	00000000 A	CPINT	RECEIVES	0000F000	AFTER X'20' ERROR FREE PASSES (SEE RTC)
1041	01	0037D	0000F000 A	CPINT	DATA	0	
1042	01	0037E	40404040 A	CPINTM	DATA	X'F000'	
	01	0037F	40404040 A	SPACE	TEXT	'	12 SPACES
	01	00380	40404040 A				
1043	01	00381	08000000 A	MOTIGN	DATA	X'8000000'	
1044	01	00382	00000000 A	TEMP	DATA	0	
1045	01	00383	00000000 A	TENPAS	DATA	X'A0000'	
1046	01	00384	10000000 A	TBP	DATA	X'10000000'	
1047	01	00385	00000000 A	MAXCNT	DATA	X'200000'	
1048	01	00386	F1000000 A	PGS	DATA	X'F1000000'	
1049	01	00387	00000001 A	TYPE	DATA	1	OUTPUT MSG DEVICE ADDR
1050	01	00388	00000010 A	PCPINT	DATA	X'810'	
1051	01	00389	00000020 A	Y0INT	DATA	X'20'	
1052	01	0038A	11111111 A	BIT	DATA	X'11111111'	
1053	01	0038B	22222222 A		DATA	X'22222222'	
1054	01	0038C	44444444 A		DATA	X'44444444'	
1055	01	0038D	88888888 A		DATA	X'88888888'	
1056	01	0038E	00006477	G00BALL	DATA	SPURTRAP	
1057					PAGE		
1058	01	0038F	FFFFFFFF A	NUMBER	DATA	-4	
1059	01	00390	FFFFFFFF A		DATA	-4	
1060	01	00391	FFFFFFFF A		DATA	-2	
1061	01	00392	FFFFFFFF A		DATA	-4	
1062	01	00393	FFFFFFFF A		DATA	-2	
1063	01	00394	F0F0F0F0 A	FRAME	DATA	X'F0F0F0F0'	2 WORDS
1064	01	00395	F0F0F0F0 A		DATA	X'F0F0F0F0'	
1065	01	00396	4040F0F0 A		DATA	X'4040F0F0'	3 WORDS
1066	01	00397	F0F0F0F0 A		DATA	X'F0F0F0F0'	
1067	01	00398	F0F04040 A		DATA	X'F0F04040'	
1068	01	00399	F0000000 A	MASK	DATA	X'F0000000'	

SIGMA 7 CPU DIAGNOSTIC-AUTS 704044-51B00 MARCH 10, 1969 32

1069	01	0039A	0F000000 A		DATA	X'F0000000'	
1070	01	0039B	0CF00000 A		DATA	X'F0000001'	
1071	01	0039C	00F00000 A		DATA	X'F00000'	
1072	01	0039D	0000F000 A		DATA	X'F000'	
1073	01	0039E	00000F00 A		DATA	X'F00'	
1074	01	0039F	000000F0 A		DATA	X'F0'	
1075	01	003A0	0000000F A		DATA	X'F'	
1076	01	003A1	FF000000 A	FILTER	DATA	X'FFF000000'	
1077	01	003A2	00FF0000 A		DATA	X'FFF0000'	
1078	01	003A3	0000FF00 A		DATA	X'FFF00'	
1079	01	003A4	000000FF A		DATA	X'FFF'	
1080	01	003A5	FF000000 A		DATA	X'FFF000000'	
1081	01	003A6	00FF0000 A		DATA	X'FFF0000'	
1082	01	003A7	0000FF00 A		DATA	X'FFF00'	
1083	01	003A8	000000FF A		DATA	X'FFF'	
1084	01	003A9	FF000000 A		DATA	X'FFF000000'	
1085	01	003AA	00FF0000 A		DATA	X'FFF0000'	
1086					BOUND	8	
1087	01	003AC	00000000 A	MEMBUT	DATA	0,0	STORAGE OF DATA UTILIZED BY THE
	01	003AD	00000000 A				
1088	01	003AE	00000000 A	RSUTPUT	DATA	0,0	AUTOMATIC SHORT LOOP
	01	003AF	00000000 A				
1089	01	003B0	00000000 A	RINPUT	DATA	0,0	
	01	003B1	00000000 A				
1090					BIND	64	
1091							*B
1092							*B
1093							REQUIRED FOR THE FORMAT ROUTINE
1094							
1095	01	003C0	00000000 A	BYTE	DATA	0	0
1096	01	003C1	01010101 A		DATA	X'01010101'	1
1097	01	003C2	02020202 A		DATA	X'02020202'	2
1098	01	003C3	03030303 A		DATA	X'03030303'	3
1099	01	003C4	04040404 A		DATA	X'04040404'	4
1100	01	003C5	05050505 A		DATA	X'05050505'	5
1101	01	003C6	06060606 A		DATA	X'06060606'	6
1102	01	003C7	07070707 A		DATA	X'07070707'	7

SIGMA 7 GPU DIAGNOSTIC-AUT8 704044-51800 MARCH 10, 1969 33

1103	01	003C8	08080808 A	DATA	X'08080808'	8
1104	01	003C9	09090909 A	DATA	X'09090909'	9
1105	01	003CA	31313131 A	DATA	X'31313131'	A
1106	01	003CB	32323232 A	DATA	X'32323232'	B
1107	01	003CC	33333333 A	DATA	X'33333333'	C
1108	01	003CD	34343434 A	DATA	X'34343434'	D
1109	01	003CE	35353535 A	DATA	X'35353535'	E
1110	01	003CF	36363636 A	DATA	X'36363636'	F
1111						
1112						
1113	01	003D0	000001ED	PSIXCR	P	SIXCR
1114	01	003D1	000001EE	PTITLE	P	TITLE
1115	01	003D2	000001EF	PHEAD	P	HEAD
1116	01	003D3	000001FO	PSHRTL	P	SHRTL
1117	01	003D4	000001F1	PLONGL	P	LONGL
1118	01	003D5	000001F2	LPGBT8P	P	PGBT8P
1119	01	003D6	000001F7	LPFORMAT	P	PFORMAT
1120	01	003D7	000001F3	LPERR	P	PERR
1121	01	003D8	000001F5	LPREPRRT	P	PREPRRT
1122	01	003D9	000001FB	PRTCMSG	P	RTCMG
1123						
1124	01	003DA	0500102C	SIXCR	J	5,TTL
1125	01	003DB	08000006 A	DATA	X'80000006'	
1126	01	003DC	0500102C	TITLE	J	5,TTL
1127	01	003DD	08000039 A	DATA	X'80000039'	
1128	01	003DE	05001068	HEAD	J	5,HDG
1129	01	003DF	08000050 A	DATA	X'80000050'	
1130	01	003E0	050010B8	SHRTL	J	5,IMAGE
1131	01	003E1	0800002C A	DATA	X'8000002C'	
1132	01	003E2	050010B8	LONGL	J	5,IMAGE
1133	01	003E3	08000054 A	DATA	X'80000054'	
1134						
1135						
1136	01	003E4	03000E18	PGBT8P	J	3,PGB
1137	01	003E5	08000001 A	GEN,8,24	8,1	
1138	01	003E6	01000DF8	FERR	J	1,SPACE
1139	01	003E7	80000008 A	GEN,4,28	8,8	

COMMAND PAIRS

MAKE SHORT LOOP

DC

SIGMA 7 CPU DIAGNOSTIC-AUT8 704044-51800 MARCH 10, 1969 34

1140	01	003E8	0100108C	J	1,IMAGE+1	
1141	01	003E9	08000050 A	DATA	X'80000050'	
1142	01	003EA	01000DF8	PREPRRT	J	1,SPACE
1143	01	003EB	80000008 A	GEN,4,28	8,8	
1144	01	003EC	0100108C	J	1,IMAGE+1	
1145	01	003ED	08000028 A	DATA	X'80000028'	
1146	01	003EE	01000DF8	PFORMAT	J	1,SPACE
1147	01	003EF	80000008 A	GEN,4,28	8,8	
1148	01	003F0	01001034	J	1,TTL+2	
1149	01	003F1	20000031 A	GEN,8,24	32,49	CC
1150	01	003F2	01000DF8	J	1,SPACE	
1151	01	003F3	80000008 A	GEN,4,28	8,11	
1152	01	003F4	0100108C	J	1,HDG+1	
1153	01	003F5	0800004C A	GEN,8,24	X'8',X'4C'	
1154						
1155	01	003F6	05000FE1 N	RTCMG	GEN,8,24,8,8,16	5,BA(MSG)+1,8,0,75
			08000048			
1156						
1157	01	003F8	48154040 A	MSG	TEXTC	IN REAL TIME CLOCKS IN USE. TO DISABLE, 'CP INTERRUPT AND CLEAR RS'
	01	003F9	40404040 A			
	01	003FA	40404040 A			
	01	003FB	4040D9C5 A			
	01	003FC	C1D340E3 A			
	01	003FD	C9D4C540 A			
	01	003FE	C3D3D6C3 A			
	01	003FF	D2E240C9 A			
	01	00400	D540E4E2 A			
	01	00401	C54840E3 A			
	01	00402	D640C4C9 A			
	01	00403	E2C1C2D3 A			
	01	00404	C56B40C3 A			
	01	00405	D740C9D5 A			
	01	00406	E3C5D9D9 A			
	01	00407	E4D7E340 A			
	01	00408	C1D5C440 A			
	01	00409	C3D3C5C1 A			
	01	0040A	D940D9F5 A			

1158					BOUND	4	
1159					PAGE		
1160	01	0040B	15151515	A	TTL	DATA	X'15151515'
1161	01	0040C	15151540	A		DATA	X'15151540'
1162	01	0040D	40404040	A		DATA	X'40404040'
1163	01	0040E	40404040	A		DATA	X'40404040'
1164	01	0040F	40404040	A		DATA	X'40404040'
1165	01	00410	40404040	A		DATA	X'40404040'
1166	01	00411	40404040	A		DATA	X'40404040'
1167	01	00412	40404040	A		DATA	X'40404040'
1168	01	00413	40404040	A		DATA	X'40404040'
1169	01	00414	404040C1	A		DATA	X'404040C1'
1170	01	00415	E4E3D640	A		DATA	X'E4E3D640'
1171	01	00416	C5D9D9D6	A		DATA	X'C5D9D9D6'
1172	01	00417	D940C4C9	A		DATA	X'D940C4C9'
1173	01	00418	E2D7D3C1	A		DATA	X'E2D7D3C1'
1174	01	00419	E8404040	A		DATA	X'E8404040'
1175					PAGE		
1176	01	0041A	15404040	A	HOG	DATA	X'15404040'
1177	01	0041B	40D3C9E2	A		DATA	X'40D3C9E2'
1178	01	0041C	E3404040	A		DATA	X'E3404040'
1179	01	0041D	4040C5D9	A		DATA	X'4040C5D9'
1180	01	0041E	D9D6D9E2	A		DATA	X'D9D6D9E2'
1181	01	0041F	40404040	A		DATA	X'40404040'
1182	01	00420	D7C1E2E2	A		DATA	X'D7C1E2E2'
1183	01	00421	C5E24040	A		DATA	X'C5E24040'
1184	01	00422	404040C9	A		DATA	X'404040C9'
1185	01	00423	D5E2E340	A		DATA	X'D5E2E340'
1186	01	00424	4040C9C4	A		DATA	X'4040C9C4'
1187	01	00425	C5D5E3C9	A		DATA	X'C5D5E3C9'
1188	01	00426	C6C9C5D9	A		DATA	X'C6C9C5D9'
1189	01	00427	40404040	A		DATA	X'40404040'
1190	01	00428	C9E24040	A		DATA	X'C9E24040'
1191	01	00429	4040E2C8	A		DATA	X'4040E2C8'
1192	01	0042A	D6E4D3C4	A		DATA	X'D6E4D3C4'
1193	01	0042B	40C2C540	A		DATA	X'40C2C540'
1194	01	0042C	404040C4	A		DATA	X'404040C4'

1195	01	0042D	C9C6C615	A		DATA	X'C9C6C615'
1196						PAGE	
1197	01	0042E	40404015	A	IMAGE	DATA	X'40404015'
1198	01	0042F	00000000	A		FILL	4+19
	01	00430	00000000	A			
	01	00431	00000000	A			
	01	00432	00000000	A			
	01	00433	00000000	A			
	01	00434	00000000	A			
	01	00435	00000000	A			
	01	00436	00000000	A			
	01	00437	00000000	A			
	01	00438	00000000	A			
	01	00439	00000000	A			
	01	0043A	00000000	A			
	01	0043B	00000000	A			
	01	0043C	00000000	A			
	01	0043D	00000000	A			
	01	0043E	00000000	A			
	01	0043F	00000000	A			
	01	00440	00000000	A			
	01	00441	00000000	A			
1199	01	00442	40404040	A	BLANK	DATA	X'40404040'
1200						PAGE	
1201						BOUND	8
1202	01	00444		A	TABLE	RES	0
1203	01	00444	00000000	A		DATA	0
1204	01	00445	00000000	A		DATA	0
1205	01	00446	00000000	A		DATA	0
1206	01	00447	00000000	A		DATA	0
1207	01	00448	00000000	A		DATA	0
1208	01	00449	00000000	A		DATA	0
1209	01	0044A	00000000	A		DATA	0
1210	01	0044B	00000000	A		DATA	0
1211	01	0044C	00000000	A		DATA	0
1212	01	0044D	00000000	A		DATA	0
1213	01	0044E	00000000	A		DATA	0

NEG COUNT OF WORDS IN CURRENT MODULE
INSTRUCTION BEING TESTED
PSW1 IN
PSW1 OUT
R IN
R OUT
MEMORY IN
MEMORY OUT
RU1 IN
RU1 OUT
MEMORY+1 IN

1214	01	0044F	00000000 A	DATA	0	MEMORY+1 BUT
1215	01	00450	00000000 A	DATA	0	PSW2 IN
1216	01	00451	00000000 A	DATA	0	PSW2 BUT
1217	01	00452	00000000 A	DATA	0	BLD PSW1 - USED ONLY FOR XPSD TEST
1218	01	00453	00000000 A	DATA	0	BLD PSW2 - USED ONLY FOR XPSD TEST
1219	01	00454	00000000 A	DATA	0	NEW PSW2 - USED ONLY FOR XPSD TEST
1220	01	00455	00000000 A	DATA	0	NEW PSW1 - USED ONLY FOR EPSD TEST
1221	01	00456	00000000 A	DATA	0,0	
	01	00457	00000000 A			
1222				PAGE		
1223	01	00458		RES	0	
1224	01	00458	00000000 A	FILL	#+12	
	01	00459	00000000 A			
	01	0045A	00000000 A			
	01	0045B	00000000 A			
	01	0045C	00000000 A			
	01	0045D	00000000 A			
	01	0045E	00000000 A			
	01	0045F	00000000 A			
	01	00460	00000000 A			
	01	00461	00000000 A			
	01	00462	00000000 A			
	01	00463	00000000 A			
1225				PAGE		
1226	01	00464	00000000 A	RETURN		
1227	01	00465	00000000 A	PZE		
1228	01	00466	0000016A	PZE,0	L0C+2	
1229	01	00467	00000000 A	PZE		
1230	01	00468	00000239	BUMP	PZE,0	BUMPER
1231	01	00469	00000000 A	PZE		
1232	01	0046A	00000115	REPEAT	PZE,0	CYCLE
1233	01	0046B	00000000 A	PZE		
1234	01	0046C	00000000 A	PSW1	PZE	
1235	01	0046D	00000000 A	PSW2	PZE	
1236	01	0046E	00000000 A	CNT1CP	PZE	
1237	01	0046F	00000000 A	CNT2CP	PZE	
1238	01	00470	00000000 A	CNT3CP	PZE	

1239	01	00471	00000000 A	CNT4CP	PZE	
1240	01	00472	00000000 A	COUNT	PZE	
1241	01	00473	00000000 A	ERRORS	PZE	
1242	01	00474	00000000 A	PASSES	PZE	
1243	01	00475	00000000 A	WKB	PZE	
1244	01	00476	00000000 A	WORD	PZE	
1245		01 003C0		ZER0	EQU	BYTE
1246		01 0038F		NEG4	EQU	NUMBER
1247		01 00391		NEG2	EQU	NUMBER+2
1248		01 00047		XPSD	EQU	BRANCH
1249		00000000		C	EQU	0
1250		00000000		I	EQU	0
1251		00000000		Y	EQU	0
1252		01 00459		INST	EQU	TEST+1
1253		01 0045A		IA	EQU	TEST+2
1254		01 00460		MEMBRY	EQU	TEST+8
1255		01 003C0		CNT3Z	EQU	ZER0
1256		01 003C0		CNT4Z	EQU	ZER0
1257		01 0046A		MODULE	EQU	REPEAT
1258		01 0046A		PASS	EQU	REPEAT
1259				PAGE		
1260	01	00477	0F000478	SPURTRAP	XPSD,0	SPUR
1261				B0UND		8
1262	01	00478	00000000 A	SPUR	PZE	0
1263	01	00479	00000000 A	PZE		0
1264	01	0047A	0000047C	PZE,0		#+2
1265	01	0047B	07000000 A	DATA	X'107000000'	TURN ON INTR INH BITS
1266	01	0047C	3280037C	LW,5	CPINT	
1267	01	0047D	6D501300 A	WD,5	X'1300'	ARM AND DISABLE COUNT PULSE INTRs.
1268	01	0047E	32300474	LW,3	PASSES	RESET PASSES TO LAST SETTING
1269	01	0047F	32200473	LW,2	ERRORS	RESET ERRORS TO LAST SETTING
1270	01	00480	32100121	LW,1	SAVE	MODULE POINTER
1271	01	00481	32000387	LW,0	TYPE	I/B ADDR
1272	01	00482	2E000000 A	WAIT,0	0	ERROR HALT
1273						
1274						
1275						

* CHECK THE CONTENTS OF 'RETURN' TO DETERMINE THE 'LOC+1' OF
 * THE XPSD THAT WAS EXECUTED AS A RESULT OF A SPURIOUS TRAP.

1276									
1277	01	00483	4850039D	SPUR1	AND,5	MASK+4			SAVE ONLY BITS 16-19
1278	01	00484	3550037C		STW,5	CPINT			SELECTED INTERRUPTS
1279	01	00485	35000387		STW,0	TYPE			
1280	01	00486	3550037D		STW,5	CPINTM			MASK FOR SELECTED INTERRUPTS
1281	01	00487	0E30046A		LPSD,3	REPEAT			RELEASE PANEL INTERRUPT,REPEAT TEST
1282					PAGE				
1283					BOUND 8				
1284	01	00488		LIST	RES	0			
1285	01	00488	FFFFFFFA A	EXU01	DATA	-6		EXU	L8C+1 XPSD
1286	01	00489	67000169		EXU	L8C+1			
1287	01	0048A	F000013A		K	15,0,0,SETPSW			
1288	01	0048B	F0000169		K	15,0,0,L8C+1			
1289	01	0048C	FFFFFFF7 A		DATA	-1			
1290	01	0048D	FFFFFFF7 A		DATA	-1			
1291	01	0048E	FFFFFFFC A	EXU02	DATA	-4		EXU	BRANCH XPSD
1292	01	0048F	67000047		EXU	BRANCH			
1293	01	00490	0000013A		DATA	SETPSW			
1294	01	00491	00000169		DATA	L8C+1			
1295	01	00492	FFFFFFF8 A	EXU03	DATA	-8		EXU	MEMORY LW
1296	01	00493	67000460		EXU	MEMORY			
1297	01	00494	9330013A		K	9,3,3,SETPSW			
1298	01	00495	A330016A		K	10,3,3,L8C+2			
1299	01	00496	FFFFFFF7 A		DATA	-1			
1300	01	00497	32C00460		LW,12	MEMORY			
1301	01	00498	32C00460		LW,12	MEMORY			
1302	01	00499	32C00460		LW,12	MEMORY			
1303	01	0049A	FFFFFFFA A	EXU04	DATA	-6		EXU X	BRANCH XPSD
1304	01	0049B	67020460		EXU	MEMORY,1			
1305	01	0049C	F730013A		K	15,7,3,SETPSW			
1306	01	0049D	F7300169		K	15,7,3,L8C+1			
1307	01	0049E	FFFFFFE7 A		DATA	BRANCH-MEMORY			
1308	01	0049F	FFFFFFE7 A		DATA	BRANCH-MEMORY			
1309	01	004A0	FFFFFFF8 A	EXU05	DATA	-8		EXU *	BRANCH XPSD
1310	01	004A1	E7000460		EXU	*MEMORY			
1311	01	004A2	0000013A		K	0,C,0,SETPSW			
1312	01	004A3	00000169		K	0,0,0,L8C+1			

7- bloc

1313	01	004A4	00000001 A		DATA	1			
1314	01	004A5	00000001 A		DATA	1			
1315	01	004A6	00C20047		PZE,12	BRANCH,1			
1316	01	004A7	00C20047		PZE,12	BRANCH,1			
1317					PAGE				
1318	01	004A8	FFFFFFF6 A	EXU06	DATA	-10		EXU *X	C1RET XPSD
1319	01	004A9	E7020460		EXU	*MEMORY,1			
1320	01	004AA	0000013A		K	0,0,0,SETPSW			
1321	01	004AB	00000169		K	0,0,0,L8C+1			
1322	01	004AC	0000FACE A		DATA	X'FACE'			
1323	01	004AD	0000FACE A		DATA	X'FACE'			
1324	01	004AE	000105D0		PZE,0	C1RET-X'FACE'			
1325	01	004AF	000105D0		PZE,0	C1RET-X'FACE'			
1326	01	004B0	0000DEAF A		DATA	X'DEAF'			
1327	01	004B1	0000DEAF A		DATA	X'DEAF'			
1328	01	004B2	FFFFFFF8 A	EXU07	DATA	-8		EXU	XPSD SLAVE MODE
1329	01	004B3	67000460		EXU	MEMORY		MV	
1330	01	004B4	078001B3		K	0,7,8,SIGNAB			
1331	01	004B5	27000065		K	2,7,0,MVRET+1			
1332	01	004B6	FFFFFFF7 A		DATA	-1			
1333	01	004B7	FFFFFFF7 A		DATA	-1			
1334	01	004B8	0F000464		XPSD,0	RETURN			
1335	01	004B9	0F000464		XPSD,0	RETURN			
1336	01	004BA	FFFFFFFA A	EXU08	DATA	-6		EXU	NEI SLAVE MODE (NEI=PRIV)
1337	01	004BB	6700000C A		EXU	12		MV	
1338	01	004BC	078001B3		K	0,7,11,SIGNAB			
1339	01	004BD	A730006D		K	10,7,3,NEIRET+3			
1340	01	004BE	0C000460		K	0,12,0,MEMORY			
1341	01	004BF	0C000460		K	0,12,0,MEMORY			
1342					PAGE				
1343	01	004C0	FFFFFFFC A	LCF01	DATA	-4		LCF 0	00 INT0 F7 = F7 BYTE 0
1344	01	004C1	70000460		LCF,0	MEMORY			
1345	01	004C2	F730013A		K	15,7,3,SETPSW			
1346	01	004C3	F730016A		K	15,7,3,L8C+2			
1347	01	004C4	FFFFFFFC A	LCF02	DATA	-4		LCF 1	00 INT0 F7 = F0 BYTE 0
1348	01	004C5	70100460		LCF,1	MEMORY			
1349	01	004C6	F720013A		K	15,7,2,SETPSW			

SIGMA 7 CPU DIAGNOSTIC-AUTB 704044-51B00 MARCH 10,1969 41

1350	01 004C7	F020016A		K	15,0,2,L8C+2		
1351	01 004C8	FFFFFFFFC A	LCF03	DATA	-4	LCF 2	00 INTO F7 = 07 BYTE 0
1352	01 004C9	70200460		LCF,2	MEMORY		
1353	01 004CA	F710013A		K	15,7,1,SETPSW		
1354	01 004CB	0710016A		K	0,7,1,L8C+2		
1355	01 004CC	FFFFFFFFC A	LCF04	DATA	-4	LCF 3	00 INTO F7 = 00 BYTE 0
1356	01 004CD	70300460		LCF,3	MEMORY		
1357	01 004CE	F730013A		K	15,7,3,SETPSW		
1358	01 004CF	0030016A		K	0,0,3,L8C+2		
1359	01 004D0	FFFFFFFF8 A	LCF05	DATA	-8	LCF 3 *	5D INTO A2 = 55 BYTE 0
1360	01 004D1	F030045A		LCF,3	*IA		
1361	01 004D2	A220013A		K	10,2,2,SETPSW		
1362	01 004D3	5520016A		K	5,5,2,L8C+2		
1363	01 004D4	01234567 A		DATA	X'01234567'		
1364	01 004D5	01234567 A		DATA	X'01234567'		
1365	01 004D6	5D4E6F70 A		DATA	X'5D4E6F70'		
1366	01 004D7	5D4E6F70 A		DATA	X'5D4E6F70'		
1367				PAGE			
1368			*				
1369			*				
1370			*				
1371			*				
1372			*				
1373			*				
1374			*				
1375			*				
1376			*				
1377			*				
1378	01 004D8	FFFFFFFFC A	AW01	DATA	-4	AW	KI=0,GI=0,RI=0,AI=0,DI=0
1379	01 004D9	30C00460		AW,12	MEMORY		
1380	01 004DA	F720013A		K	15,7,2,SETPSW		
1381	01 004DB	0720016A		K	0,7,2,L8C+2		
1382	01 004DC	FFFFFFFF8 A	AW02	DATA	-8	AW *	KI=0,GI=0,RI=1,AI=1,DI=0
1383	01 004DD	B0C0045A		AW,12	*IA		
1384	01 004DE	E720013A		K	14,7,2,SETPSW		
1385	01 004DF	1720016A		K	1,7,2,L8C+2		
1386	01 004E0	FFFFFFFFC A		DATA	-1		

PRI=PROPAGATE THRU ITH BIT POSITION
GI = GENERATE FROM THE ITH BIT
KI = CARRY INTO THE ITH BIT
I = BIT POSITIONS 0 THRU 31
J=0,4,8,12,16,20,24,28
K=1,5,9,13,17,21,25,29
L=2,6,10,14,18,22,26,30
M=3,7,11,15,19,23,27,31(31 OPTI0NAL)

SIGMA 7 CPU DIAGNOSTIC-AUTB 704044-51B00 MARCH 10,1969 42

1387	01 004E1	FFFFFFFF A		DATA	-1		
1388	01 004E2	00000000 A		DATA	0		
1389	01 004E3	00000000 A		DATA	0		
1390	01 004E4	FFFFFFFF8 A	AW03	DATA	-8	AW	KI=0,GI=0,RI=1,AI=0,DI=1
1391	01 004E5	30C00460		AW,12	MEMORY		
1392	01 004E6	0720013A		K	0,7,2,SETPSW		
1393	01 004E7	1720016A		K	1,7,2,L8C+2		
1394	01 004E8	00000000 A		DATA	0		
1395	01 004E9	FFFFFFFF A		DATA	-1		
1396	01 004EA	FFFFFFFF A		DATA	-1		
1397	01 004EB	FFFFFFFF A		DATA	-1		
1398				PAGE			
1399			** AW04 TESTS: K(EVEN BIT POSITION) = G(ODD BIT POSITION)				
1400			** EXAMPLE K04= G05				
1401	01 004EC	FFFFFFFF8 A	AW04	DATA	-8	AW X	KJ=1,GJ=0,RI=0
1402	01 004ED	30C2AF0B		AW,12	MEMORY-X'15555',1	KK=0,GK=1	
1403	01 004EE	9720013A		K	9,7,2,SETPSW	KL=1,GL=0	
1404	01 004EF	5720016A		K	5,7,2,L8C+2	KM=0,GM=1	
1405	01 004F0	55555555 A		DATA	X'55555555'		
1406	01 004F1	AAAAAAAA A		DATA	X'AAAAAAAA'		
1407	01 004F2	55555555 A		DATA	X'55555555'		
1408	01 004F3	55555555 A		DATA	X'55555555'		
1409			** AW05 TESTS THE FOLLOWING TERMS: G0003= G00, G0407= G04, G0811 = G08				
1410			** G12-15 = G12, G1619= G16, G2023= G20, G2427=G24, G2831=G28, K00=G003				
1411			** K03= G0407, K07= G0811, K11= G1215, K15=G1619, K19=G2023, K23=G2427				
1412			** K27= G2831,				
1413			** K01, 05, 09, 13, 17, 21, 25, 29, (EQUALS GEN TERM BN NEXT LINE)				
1414			** G02, 06, 10, 14, 18, 22, 26, 30				
1415	01 004F4	FFFFFFFF8 A	AW05	DATA	-8	AW	KJ=0,GJ=1,RI=0
1416	01 004F5	30C00460		AW,12	MEMORY	KK=1,GK=0	
1417	01 004F6	1720016A		K	1,7,2,FXP0SW	KL=0,GL=1	
1418	01 004F7	E720016A		K	14,7,2,L8C+2	KM=1,GM=0	
1419	01 004F8	AAAAAAAA A		DATA	X'AAAAAAAA'		
1420	01 004F9	55555554 A		DATA	X'55555554'		
1421	01 004FA	AAAAAAAA A		DATA	X'AAAAAAAA'		
1422	01 004FB	AAAAAAAA A		DATA	X'AAAAAAAA'		
1423				PAGE			

SIGMA 7 CPU DIAGNOSTIC-AUTB 704044-51800 MARCH 10,1969 43

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1424 ** AW06 TESTS1 G2831= G31,PR28,PR29,PR30, K00= PR00-PR15.K15
1425 ** K03= PR04-PR15,K15, K07= PR08-PR15,K15, K11= PR1215.K15
1426 ** K15= PR16-27,G2831, K19= PR20-27,G2831, K23= PR2427,G2831
1427 ** K04=PR05,PR06,PR07,K07, K05= PR06,PR07,K07, K06= PR07,K07
1428 ** K08= PR09,PR10,PR11,K11, K09= PR10,PR11,K11, K10= PR11,K11
1429 ** K12= PR13,PR14,PR15,K15, K13= PR14,PR15,K15, K14= PR15,K15
1430 ** K18= PR19,K19
1431 ** K20= PR21,PR22,PR23,K23, K21= PR22,PR23,K23, K22= PR23,K23
1432 ** K24= PR25,PR26,PR27,K27, K25= PR26,PR27,K27, K26= PR27,K27
1433 ** K28= PR29,PR30,G31, K29= PR30,G31
1434 01 004FC FFFFFFFF A AW06 DATA -8 AW KI=1,GI=0,PRI=1(EXCEPT I=31)
1435 01 004FD 30C00460 AW,12 MEMORY
1436 01 004FE 772001BF K 7,7,2,FXP0SW
1437 01 004FF 8720016A K 8,7,2,L0C+2
1438 01 00500 FFFFFFFF A DATA -1
1439 01 00501 00000000 A DATA 0
1440 01 00502 00000001 A DATA 1
1441 01 00503 00000001 A DATA 1
1442 01 00504 FFFFFFFF A AW07 DATA -8 AW KI=1,GI=0,PRI=1(EXCEPT I=31)
1443 01 00505 30C00460 AW,12 MEMORY
1444 01 00506 072001BF K 0,7,2,FXP0SW
1445 01 00507 8720016A K 8,7,2,L0C+2
1446 01 00508 00000001 A DATA 1
1447 01 00509 00000000 A DATA 0
1448 01 0050A FFFFFFFF A DATA -1
1449 01 0050B FFFFFFFF A DATA -1
1450 PAGE
1451 01 0050C FFFFFFFF A AW08 DATA -8 AW KI=1,GI=1,PRI=0(K31=0)
1452 01 0050D 30C00460 AW,12 MEMORY
1453 01 0050E 072001BF K 0,7,2,FXP0SW
1454 01 0050F 9720016A K 9,7,2,L0C+2
1455 01 00510 FFFFFFFF A DATA -1
1456 01 00511 FFFFFFFE A DATA -2
1457 01 00512 FFFFFFFF A DATA -1
1458 01 00513 FFFFFFFF A DATA -1
1459 01 00514 FFFFFFFF A AW09 DATA -8 AW KI=0,GI=0,PRI=1
1460 01 00515 30C00460 AW,12 MEMORY

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SIGMA 7 CPU DIAGNOSTIC-AUTB 704044-51800 MARCH 10,1969 44

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1461 01 00516 972001BF K 9,7,2,FXP0SW
1462 01 00517 1720016A K 1,7,2,L0C+2
1463 01 00518 AAAAAAAAAA A DATA X'AAAAAAAA'
1464 01 00519 FFFFFFFF A DATA -1
1465 01 0051A 55555555 A DATA X'55555555'
1466 01 0051B 55555555 A DATA X'55555555'
1467 01 0051C FFFFFFFF A AW10 DATA -8 AW KJ=0,GJ=0,PRI=0
1468 01 0051D 30C00460 AW,12 MEMORY KK=1,GK=0
1469 01 0051E 072001BF K 0,7,2,FXP0SW KL=0,GL=1,
1470 01 0051F 2720016A K 2,7,2,L0C+2 KM=0,GM=0,
1471 01 00520 22222222 A DATA X'22222222'
1472 01 00521 44444444 A DATA X'44444444'
1473 01 00522 22222222 A DATA X'22222222'
1474 01 00523 22222222 A DATA X'22222222'
1475 01 00524 FFFFFFFF A AW11 DATA -8 AW KI=0,GJ=1,PRJ=0
1476 01 00525 30C00460 AW,12 MEMORY KK=1,GK=0,PRK=0
1477 01 00526 F72001BF K 15,7,2,FXP0SW KL=1,GL=0,PRL=1
1478 01 00527 E720016A K 14,7,2,L0C+2 KM=1,GM=0,PRM=1
1479 01 00528 88888888 A DATA X'88888888'
1480 01 00529 44444443 A DATA X'44444443'
1481 01 0052A 88888888 A DATA X'88888888'
1482 01 0052B 88888888 A DATA X'88888888'
1483 PAGE
1484 01 0052C FFFFFFFF A AW12 DATA -8 AW KI=0,GJ=1,PRK=0
1485 01 0052D 30C00460 AW,12 MEMORY KK=0,GK=0,PRK=1
1486 01 0052E 072001BF K 0,7,2,FXP0SW KL=1,GL=0,PRK=0
1487 01 0052F E720016A K 14,7,2,L0C+2 KM=1,GM=0,PRK=1
1488 01 00530 DDDDDDDDD A DATA X'DDDDDDDD'
1489 01 00531 66666665 A DATA X'66666665'
1490 01 00532 88888888 A DATA X'88888888'
1491 01 00533 88888888 A DATA X'88888888'
1492 01 00534 FFFFFFFF A AW13 DATA -8 AW KJ=0,GJ=1,PRJ=0
1493 01 00535 30C00460 AW,12 MEMORY KK=0,GK=0,PRK=1
1494 01 00536 F72001BF K 15,7,2,FXP0SW KL=0,GL=0,PRL=1
1495 01 00537 E720016A K 14,7,2,L0C+2 KM=1,GM=0,PRM=0
1496 01 00538 CCCCCCCC A DATA X'CCCCCCCC'
1497 01 00539 77777776 A DATA X'77777776'

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1498	01	0053A	AAAAAAAA	A	DATA	X'AAAAAAAA'	
1499	01	0053B	AAAAAAAA	A	DATA	X'AAAAAAAA'	
1500	01	0053C	FFFFFFF8	A	DATA	-8	AW KI=0,GJ=0,PRJ=0
1501	01	0053D	30C00460		AW,12	MEMBRY	PRK=1
1502	01	0053E	772001BF		K	7,7,2,FXP8SW	PRK=1
1503	01	0053F	2720016A		K	2,7,2,L8C+2	PRK=1
1504	01	00540	22222222	A	DATA	X'22222222'	
1505	01	00541	77777777	A	DATA	X'77777777'	
1506	01	00542	55555555	A	DATA	X'55555555'	
1507	01	00543	55555555	A	DATA	X'55555555'	
1508	01	00544	FFFFFFF8	A	DATA	-8	AW KJ=0,GJ=0,PRJ=0
1509	01	00545	30C00460		AW,12	MEMBRY	KK=1,GK=0,PRK=0
1510	01	00546	772001BF		K	7,7,2,FXP8SW	KL=1,GL=0,PRL=1
1511	01	00547	2720016A		K	2,7,2,L8C+2	KM=0,GM=1,PRM=0
1512	01	00548	33333333	A	DATA	X'33333333'	
1513	01	00549	44444444	A	DATA	X'44444444'	
1514	01	0054A	11111111	A	DATA	X'11111111'	
1515	01	0054B	11111111	A	DATA	X'11111111'	
1516					PAGE		
1517	01	0054C	FFFFFFF8	A	DATA	-8	AW KJ=0,GJ=0,PRJ=0
1518	01	0054D	30C00460		AW,12	MEMBRY	KK=0,GK=0,PRK=1
1519	01	0054E	072001BF		K	0,7,2,FXP8SW	KL=1,GL=0,PRL=0
1520	01	0054F	2720016A		K	2,7,2,L8C+2	KM=0,GM=1,PRM=0
1521	01	00550	11111111	A	DATA	X'11111111'	
1522	01	00551	66666666	A	DATA	X'66666666'	
1523	01	00552	55555555	A	DATA	X'55555555'	
1524	01	00553	55555555	A	DATA	X'55555555'	
1525	01	00554	FFFFFFF8	A	DATA	-8	AW KI=1,GJ=1,PRJ=0 (K31=0)
1526	01	00555	30C00460		AW,12	MEMBRY	GK=0 PRK=1
1527	01	00556	772001BF		K	7,7,2,FXP8SW	GL=0,PRL=1
1528	01	00557	9720016A		K	9,7,2,L8C+2	GM=0,PRM=1
1529	01	00558	DDDDDDDD	A	DATA	X'DDDDDDDD'	
1530	01	00559	88888887	A	DATA	X'88888887'	
1531	01	0055A	AAAAAAAA	A	DATA	X'AAAAAAAA'	
1532	01	0055B	AAAAAAAA	A	DATA	X'AAAAAAAA'	
1533	01	0055C	FFFFFFF8	A	DATA	-8	AW KJ=1,GJ=0,PRJ=0
1534	01	0055D	30C00460		AW,12	MEMBRY	KK=1,GK=0,PRK=1

1535	01	0055E	F72001BF		K	15,7,2,FXP8SW	KL=1,GL=0,PRL=1
1536	01	0055F	5720016A		K	5,7,2,L8C+2	KM=0,GM=1,PRM=1
1537	01	00560	55555555	A	DATA	X'55555555'	
1538	01	00561	88888888	A	DATA	X'88888888'	
1539	01	00562	33333333	A	DATA	X'33333333'	
1540	01	00563	33333333	A	DATA	X'33333333'	
1541	01	00564	FFFFFFF8	A	DATA	-8	AW KJ=1,GJ=0,PRJ=0
1542	01	00565	30C00460		AW,12	MEMBRY	KK=1,GK=0,PK=01
1543	01	00566	072001BF		K	0,7,2,FXP8SW	KL=0,GL=1,PL=00
1544	01	00567	5720016A		K	5,7,2,L8C+2	KM=0,GM=0,PM=00
1545	01	00568	66666666	A	DATA	X'66666666'	
1546	01	00569	88888888	A	DATA	X'88888888'	
1547	01	0056A	22222222	A	DATA	X'22222222'	
1548	01	0056B	22222222	A	DATA	X'22222222'	
1549					PAGE		
1550	01	0056C	FFFFFFF8	A	DATA	-8	AW KI=1,GJ=0,PRJ=0
1551	01	0056D	30C00460		AW,12	MEMBRY	KK=0,GK=1
1552	01	0056E	272001BF		K	2,7,2,FXP8SW	KL=0,GL=0
1553	01	0056F	5720016A		K	5,7,2,L8C+2	KM=0,GM=0
1554	01	00570	44444444	A	DATA	X'44444444'	
1555	01	00571	88888888	A	DATA	X'88888888'	
1556	01	00572	44444444	A	DATA	X'44444444'	
1557	01	00573	44444444	A	DATA	X'44444444'	
1558	01	00574	FFFFFFF8	A	DATA	-8	AW KK=1,GM=1,PRJ=1
1559	01	00575	30C00460		AW,12	MEMBRY	KL=1 PRL=1
1560	01	00576	072001BF		K	0,7,2,FXP8SW	
1561	01	00577	1720016A		K	1,7,2,L8C+2	
1562	01	00578	BBBBBBBB	A	DATA	X'BBBBBBBB'	
1563	01	00579	CCCCCCCC	A	DATA	X'CCCCCCCC'	
1564	01	0057A	11111111	A	DATA	X'11111111'	
1565	01	0057B	11111111	A	DATA	X'11111111'	
1566	01	0057C	FFFFFFF8	A	DATA	-8	AW KL=1,GM=1,PRJ=1
1567	01	0057D	30C00460		AW,12	MEMBRY	PRK=1
1568	01	0057E	072001BF		K	0,7,2,FXP8SW	
1569	01	0057F	1720016A		K	1,7,2,L8C+2	
1570	01	00580	DDDDDDDD	A	DATA	X'DDDDDDDD'	
1571	01	00581	EEEEEEEE	A	DATA	X'EEEEEEEE'	

1572	01	00582	11111111 A		DATA	X'11111111'		
1573	01	00583	11111111 A		DATA	X'11111111'		
1574	01	00584	FFFFFFFF A	AW23	DATA	-8	AW	KI=0,GI=0,PRJ=1
1575	01	00585	30C00460		AW,12	MEMBRY	PRK=1	
1576	01	00586	072001BF		K	0,7,2,FXP8SW	PRL=1	
1577	01	00587	1720016A		K	1,7,2,L8C+2		
1578	01	00588	88888888 A		DATA	X'88888888'		
1579	01	00589	EEEEEEEE A		DATA	X'EEEEEEEE'		
1580	01	0058A	66666666 A		DATA	X'66666666'		
1581	01	0058B	66666666 A		DATA	X'66666666'		
1582					PAGE			
1583	01	0058C	FFFFFFFF A	AW24	DATA	-8	AW	KK=1,GL=1,PRJ=1
1584	01	0058D	30C00460		AW,12	MEMBRY		
1585	01	0058E	072001BF		K	0,7,2,FXP8SW		
1586	01	0058F	1720016A		K	1,7,2,L8C+2		
1587	01	00590	AAAAAAAA A		DATA	X'AAAAAAAA'		
1588	01	00591	CCCCCCCC A		DATA	X'CCCCCCCC'		
1589	01	00592	22222222 A		DATA	X'22222222'		
1590	01	00593	22222222 A		DATA	X'22222222'		
1591	01	00594	FFFFFFFF A	AW25	DATA	-8	AW	KI=0,GI=0,PRJ=1
1592	01	00595	30C00460		AW,12	MEMBRY	PRK=1	
1593	01	00596	072001BF		K	0,7,2,FXP8SW		
1594	01	00597	1720016A		K	1,7,2,L8C+2		
1595	01	00598	88888888 A		DATA	X'88888888'		
1596	01	00599	CCCCCCCC A		DATA	X'CCCCCCCC'		
1597	01	0059A	44444444 A		DATA	X'44444444'		
1598	01	0059B	44444444 A		DATA	X'44444444'		
1599								
1600					** AW26 TESTS:	G1215= G14,PR12,PR13, G2831= G30,PR28,PR29		
1601					** K00=	PRO0-11,G1215, K03=PRO4-11,G1215, K07= PRO811,G1215		
1602					** K0=	PRO1,PRO2,PRO3,K03, K01= PRO2,PRO3,K03, K02= PRO3,K03		
1603					** K12=	PR13,G14, K16= PR17,PR18,PR19,K19, K17= PR18,PR19,K19		
1604					** K28=	PR29,G30		
1604	01	0059C	FFFFFFFF A	AW26	DATA	-8	AW	KI=1(EXCEPT K14,K30,K31)
1605	01	0059D	30C00460		AW,12	MEMBRY	TEST ALL CARRY(K) TERMS GATED	
1606	01	0059E	072001BF		K	0,7,2,FXP8SW	BY G14 AND G30.	
1607	01	0059F	A720016A		K	10,7,2,L8C+2		
1608	01	005A0	FFFFFFFF A		DATA	X'FFFFFFFF'		

1609	01	005A1	00010000 A		DATA	X'10000'		
1610	01	005A2	00020002 A		DATA	X'20002'		
1611	01	005A3	00020002 A		DATA	X'20002'		
1612					PAGE			
1613					** AW27 TESTS:	G1215= G13,PR12, G2831= G29,PR28		
1614	01	005A4	FFFFFFFF A	AW27	DATA	-8	AW	KI=1(EXCEPT K13,K29-K31)
1615	01	005A5	30C00460		AW,12	MEMBRY	TEST ALL G13,G29 TERMS	
1616	01	005A6	F72001BF		K	15,7,2,FXP8SW		
1617	01	005A7	A720016A		K	10,7,2,L8C+2		
1618	01	005A8	FFFDFFFC A		DATA	X'FFFDFFFC'		
1619	01	005A9	00020000 A		DATA	X'20000'		
1620	01	005AA	00040004 A		DATA	X'40004'		
1621	01	005AB	00040004 A		DATA	X'40004'		
1622	01	005AC	FFFFFFFF A	AW28	DATA	-8	AW	KI=1(EXCEPT K12,K28-K31)
1623	01	005AD	30C00460		AW,12	MEMBRY	TEST G12,G28 TERMS	
1624	01	005AE	F72001BF		K	15,7,2,FXP8SW		
1625	01	005AF	A720016A		K	10,7,2,L8C+2		
1626	01	005B0	FFFBFFFB A		DATA	X'FFFBFFFB'		
1627	01	005B1	00040000 A		DATA	X'40000'		
1628	01	005B2	00080008 A		DATA	X'80008'		
1629	01	005B3	00080008 A		DATA	X'80008'		
1630					** AW29 TESTS:	G0811= G11,PRO8,PRO9,PR10, G2427= G27,PR24,PR25,PR26		
1631					** K00=	PRO0-PRO7,G0811, K03= PRO407,G0811, K15= PR16-23,G2427		
1632					** K19=	PR2023,G2427, K08= PRO9,PR10,G11, K09= PR10,G11		
1633					** K24=	PR25,PR26,G27, K25= PR26,G27		
1634	01	005B4	FFFFFFFF A	AW29	DATA	-8	AW	29=1,(EXCEPT K11,K27-K31)
1635	01	005B5	30C00460		AW,12	MEMBRY	TEST G11,G27 TERMS	
1636	01	005B6	F72001BF		K	15,7,2,FXP8SW		
1637	01	005B7	A720016A		K	10,7,2,L8C+2		
1638	01	005B8	FFF7FFF0 A		DATA	X'FFF7FFF0'		
1639	01	005B9	00080000 A		DATA	X'80000'		
1640	01	005BA	00100010 A		DATA	X'100010'		
1641	01	005BB	00100010 A		DATA	X'100010'		
1642					PAGE			
1643					** AW30 TESTS:	G0811= G10,PRO8,PRO9, G2427= G24,PR24,PR25, K24=PR25,G26		
1644	01	005BC	FFFFFFFF A	AW30	DATA	-8	AW	KI=1(EXCEPT K10,K26-K31)
1645	01	005BD	30C00460		AW,12	MEMBRY	TEST G10,G26	

SIGMA 7 CPU DIAGNOSTIC-AUTB 704044-51B00 MARCH 10, 1969 49

1646	01	005BE	F72001BF	K	15,7,2,FXP8SW		
1647	01	005BF	A720016A	K	10,7,2,L8C+2		
1648	01	005C0	FFEFFFE0 A	DATA	X'FFEFFFE0'		
1649	01	005C1	00100000 A	DATA	X'100000'		
1650	01	005C2	00200020 A	DATA	X'200020'		
1651	01	005C3	00200020 A	DATA	X'200020'		
1652				** AW31 TESTS:	G0811= G09.PR08, G2427= G25.PR24		
1653	01	005C4	FFFFFFF8 A	AW31	DATA -8	AW	KI=1(EXCEPT K9,K25-K31)
1654	01	005C5	30C00460	AW,12	MEMORY		TEST G9,G25
1655	01	005C6	072001BF	K	0,7,2,FXP8SW		
1656	01	005C7	A720016A	K	10,7,2,L8C+2		
1657	01	005C8	FFDFFFC0 A	DATA	X'FFDFFFC0'		
1658	01	005C9	00200000 A	DATA	X'200000'		
1659	01	005CA	00400040 A	DATA	X'400040'		
1660	01	005CB	00400040 A	DATA	X'400040'		
1661				*			
1662	01	005CC	FFFFFFF8 A	AW32	DATA -8	AW	KI=1(EXCEPT K8,K24-K31)
1663	01	005CD	30C00460	AW,12	MEMORY		TEST G8,G24
1664	01	005CE	F72001BF	K	15,7,2,FXP8SW		
1665	01	005CF	A720016A	K	10,7,2,L8C+2		
1666	01	005D0	FFBFFF80 A	DATA	X'FFBFFF80'		
1667	01	005D1	00400000 A	DATA	X'400000'		
1668	01	005D2	00800080 A	DATA	X'800080'		
1669	01	005D3	00800080 A	DATA	X'800080'		
1670				PAGE			
1671				** AW33 TESTS:	G0407= G07.PR04,PR05,PR06, G2023= G23.PR20,PR21,PR22		
1672				** K00=	PRO003,G0407, K15= PR1619,G2023, K4= PR05,PR06,G07, K5=PR06,G07		
1673				** K20=	PR21,PR22,G23, K21= PR22,G23		
1674	01	005D4	FFFFFFF8 A	AW33	DATA -8	AW	KI=1(EXCEPT K7,K23-K31)
1675	01	005D5	30C00460	AW,12	MEMORY		TEST G7,G23
1676	01	005D6	672001BF	K	6,7,2,FXP8SW		
1677	01	005D7	A720016A	K	10,7,2,L8C+2		
1678	01	005D8	FF7FFF00 A	DATA	X'FF7FFF00'		
1679	01	005D9	00800000 A	DATA	X'800000'		
1680	01	005DA	01000100 A	DATA	X'1000100'		
1681	01	005DB	01000100 A	DATA	X'1000100'		
1682				** AW34 TESTS:	G0407= G06.PR04,PR05, G2023= G22.PR20,PR21, K4=PR05,G06		

SIGMA 7 CPU DIAGNOSTIC-AUTB 704044-51B00 MARCH 10, 1969 50

1683				** K20=	G22,PR21		
1684	01	005DC	FFFFFFF8 A	AW34	DATA -8	AW *	KI=1(EXCEPT K6,K22-K31)
1685	01	005DD	80C0045A	AW,12	IA		TEST G6,G22
1686	01	005DE	572001BF	K	5,7,2,FXP8SW		
1687	01	005DF	A720016A	K	10,7,2,L8C+2		
1688	01	005E0	FEFFFE00 A	DATA	X'FEFFFE00'		
1689	01	005E1	01000000 A	DATA	X'1000000'		
1690	01	005E2	02000200 A	DATA	X'2000200'		
1691	01	005E3	02000200 A	DATA	X'2000200'		
1692				PAGE			
1693				** AW35 TESTS:	G0407= G05.PR04, G2023= PR20,G21		
1694	01	005E4	FFFFFFF8 A	AW35	DATA -8	AW	KI=1(EXCEPT K5,K21-K31)
1695	01	005E5	30C00460	AW,12	MEMORY		TEST G5,G21
1696	01	005E6	A72001BF	K	4,7,2,FXP8SW		
1697	01	005E7	A720016A	K	10,7,2,L8C+2		
1698	01	005E8	FDFFFC00 A	DATA	X'FDFFFC00'		
1699	01	005E9	02000000 A	DATA	X'2000000'		
1700	01	005EA	04000400 A	DATA	X'4000400'		
1701	01	005EB	04000400 A	DATA	X'4000400'		
1702	01	005EC	FFFFFFF8 A	AW36	DATA -8	AW	KI=1(EXCEPT K4,K20-K31)
1703	01	005ED	30C00460	AW,12	MEMORY		TEST G4,G20
1704	01	005EE	072001BF	K	0,7,2,FXP8SW		
1705	01	005EF	A720016A	K	10,7,2,L8C+2		
1706	01	005F0	FBFFF800 A	DATA	X'FBFFF800'		
1707	01	005F1	04000000 A	DATA	X'4000000'		
1708	01	005F2	08000800 A	DATA	X'8000800'		
1709	01	005F3	08000800 A	DATA	X'8000800'		
1710				** AW37 TESTS:	G1619= G19.PR16,PR17,PR18, K16= PR17,PR18,G19		
1711				** K17=	PR18,G19		
1712	01	005F4	FFFFFFF8 A	AW37	DATA -8	AW	K15,K16,K17,K18=1
1713	01	005F5	30C00460	AW,12	MEMORY		TEST G19
1714	01	005F6	B72001BF	K	11,7,2,FXP8SW		
1715	01	005F7	2720016A	K	2,7,2,L8C+2		
1716	01	005F8	0000F000 A	DATA	X'F000'		
1717	01	005F9	00010000 A	DATA	X'10000'		
1718	01	005FA	00001000 A	DATA	X'1000'		
1719	01	005FB	00001000 A	DATA	X'1000'		

1720				PAGE		
1721				TESTS: G1619= G18,PR16,PR17, K16= PR17,G18		
1722	01	005FC	FFFFFFF8 A	AW38	DATA	-8
1723	01	005FD	30C00460	AW,12	MEMBRY	AW K15,K16,K17=1
1724	01	005FE	F72001BF	K		TEST G18
1725	01	005FF	2720016A	K		
1726	01	00600	0000E000 A	DATA	X'E000'	
1727	01	00601	00010000 A	DATA	X'10000'	
1728	01	00602	00002000 A	DATA	X'2000'	
1729	01	00603	00002000 A	DATA	X'2000'	
1730				TESTS: G1619= PR16, G17		
1731	01	00604	FFFFFFF8 A	AW39	DATA	-8
1732	01	00605	30C00460	AW,12	MEMBRY	AW K15,K16=1
1733	01	00606	072001BF	K		TEST G17
1734	01	00607	2720016A	K		
1735	01	00608	0000C000 A	DATA	X'C000'	
1736	01	00609	00010000 A	DATA	X'10000'	
1737	01	0060A	00004000 A	DATA	X'4000'	
1738	01	0060B	00004000 A	DATA	X'4000'	
1739				PAGE		
1740				TESTS: G1215= G15,PR12,PR13,PR14, K12= G15,PR13,PR14		
1741				TESTS: G15,PR14		
1742	01	0060C	FFFFFFF8 A	AW40	DATA	-8
1743	01	0060D	30C00460	AW,12	MEMBRY	AW TEST G15
1744	01	0060E	072001BF	K		
1745	01	0060F	2720016A	K		
1746	01	00610	0FFF0000 A	DATA	X'FFF0000'	
1747	01	00611	10000000 A	DATA	X'10000000'	
1748	01	00612	00010000 A	DATA	X'10000'	
1749	01	00613	00010000 A	DATA	X'10000'	
1750	01	00614	FFFFFFF8 A	AW41	DATA	-8
1751	01	00615	30C00460	AW,12	MEMBRY	AW TEST OVERFLOW TRAP - TO +
1752	01	00616	073001BF	K		
1753	01	00617	E7300084	K		
1754	01	00618	89ABEF17 A	DATA	X'89ABEF17'	
1755	01	00619	70FF0579 A	DATA	X'70FF0579'	
1756	01	0061A	E7531662 A	DATA	X'E7531662'	

1757	01	0061B	E7531662 A	DATA	X'E7531662'	
1758	01	0061C	FFFFFFF8 A	AW42	DATA	-8
1759	01	0061D	30C00460	AW,12	MEMBRY	AW TEST OVERFLOW TRAP + TO -
1760	01	0061E	073001BF	K		
1761	01	0061F	57300084	K		
1762	01	00620	61754221 A	DATA	X'61754221'	
1763	01	00621	80000000 A	DATA	X'80000000'	
1764	01	00622	1E8ABDDF A	DATA	X'1E8ABDDF'	
1765	01	00623	1E8ABDDF A	DATA	X'1E8ABDDF'	
1766				PAGE		
1767				TEST G00=03=G03,PRO0,PRO1,PRO2 ,K0=PRO1,PRO2,G3, K1=PRO2,G03		
1768	01	00624	FFFFFFF4 A	AW43	DATA	-12
1769	01	00625	30C00460	AW,12	MEMBRY	
1770	01	00626	7730013A	K		
1771	01	00627	8730016A	K		
1772	01	00628	F0000000 A	DATA	X'F0000000'	
1773	01	00629	00000000 A	DATA	0	
1774	01	0062A	10000000 A	DATA	X'10000000'	
1775	01	0062B	10000000 A	DATA	X'10000000'	
1776	01	0062C	FFFFFFF4 A	DATA	-1,-1,100,100	
	01	0062D	FFFFFFF4 A			
	01	0062E	00000064 A			
	01	0062F	00000064 A			
1777				TEST G0003= G02,PRO0,PRO1, K0=PRO1,G02		
1778				TEST G0003= G02,PRO0,PRO1, K0=PRO1,G02		
1779	01	00630	FFFFFFF4 A	AW44	DATA	-12
1780	01	00631	30C00461	AW,12	MEMBRY+1	
1781	01	00632	0730013A	K		
1782	01	00633	8730016A	K		
1783	01	00634	E0000000 A	DATA	X'E0000000'	
1784	01	00635	00000000 A	DATA	0	
1785	01	00636	00000000 A	DATA	0,0,8,8,X'20000000',X'20000000'	
	01	00637	00000000 A			
	01	00638	00000008 A			
	01	00639	00000008 A			
	01	0063A	20000000 A			
	01	0063B	20000000 A			

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1786      PAGE
1787      G0003= 001,PROO NO OVERFLOW (+)+(-) T0 (+)
1788 01 0063C FFFFFFFF A AW45 DATA -12
1789 01 0063D 30000461 AW,13 MEMORY+1
1790 01 0063E 0730013A K 0,7,3,SETPSW
1791 01 0063F 8730016A K 8,7,3,L0C+2
1792 01 00640 00000001 A DATA 1,1,100,100,X1'40000000',0,X1'C0000000',X1'C0000000'
      01 00641 00000001 A
      01 00642 00000064 A
      01 00643 00000064 A
      01 00644 40000000 A
      01 00645 00000000 A
      01 00646 C0000000 A
      01 00647 C0000000 A

1793      ** TEST NO OVERFLOW (-)+(+ ) T0 (-)
1794 01 00648 FFFFFFFF A AW46 DATA -8
1795 01 00649 30C00460 AW,12 MEMORY
1796 01 0064A 0730013A K 0,7,3,SETPSW
1797 01 0064B 1730016A K 1,7,3,L0C+2
1798 01 0064C FFFFFFFF A DATA -100,-90,10,10
      01 0064D FFFFFFFF A
      01 0064E 0000000A A
      01 0064F 0000000A A

1799      ** TEST NO OVERFLOW (+)+(-) T0 (-)
1800 01 00650 FFFFFFFF A AW47 DATA -8
1801 01 00651 30C00460 AW,12 MEMORY
1802 01 00652 0730013A K 0,7,3,SETPSW
1803 01 00653 1730016A K 1,7,3,L0C+2
1804 01 00654 0000000A A DATA 10,-90,-100,-100
      01 00655 FFFFFFFF A
      01 00656 FFFFFFFF A
      01 00657 FFFFFFFF A

1805      PAGE
1806 01 00658 FFFFFFFF A SW01 DATA -8 SW
1807 01 00659 38C00460 SW,12 MEMORY
1808 01 0065A 7730013A K 7,7,3,SETPSW
1809 01 0065B 8730016A K 8,7,3,L0C+2
    
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1810 01 0065C FFFFFFFF A DATA -1
1811 01 0065D 00000000 A DATA 0
1812 01 0065E FFFFFFFF A DATA -1
1813 01 0065F FFFFFFFF A DATA -1
1814 01 00660 FFFFFFFF A SW02 DATA -4 SW *
1815 01 00661 B8C0045A SW,12 +1A
1816 01 00662 F73001BF K 15,7,3,FXP0SW
1817 01 00663 8730016A K 8,7,3,L0C+2
1818 01 00664 FFFFFFFF A SW03 DATA -8 SW
1819 01 00665 38C00460 SW,12 MEMORY
1820 01 00666 273001BF K 2,7,3,FXP0SW
1821 01 00667 57300084 K 5,7,3,FPBRET+1
1822 01 00668 7FFFFFFF A DATA X'7FFFFFFF'
1823 01 00669 80000000 A DATA X'80000000'
1824 01 0066A FFFFFFFF A DATA -1
1825 01 0066B FFFFFFFF A DATA -1
1826 01 0066C FFFFFFFF A SW04 DATA -6 SW
1827 01 0066D 38C0000C A SW,12 12
1828 01 0066E 773001BF K 7,7,3,FXP0SW
1829 01 0066F 8730016A K 8,7,3,L0C+2
1830 01 00670 80000000 A DATA X'80000000'
1831 01 00671 00000000 A DATA 0
1832 01 00672 FFFFFFFF A SW05 DATA -8 SW ,PRI=1
1833 01 00673 38C00460 SW,12 MEMORY TEST KM=1
1834 01 00674 0000013A K 0,0,0,SETPSW
1835 01 00675 5000016A K 5,0,0,L0C+2
1836 01 00676 7FFFFFFF A DATA X'7FFFFFFF'
1837 01 00677 80000000 A DATA X'80000000'
1838 01 00678 FFFFFFFF A DATA -1
1839 01 00679 FFFFFFFF A DATA -1
1840      PAGE
1841 01 0067A FFFFFFFF A SW06 DATA -8 SW TEST K31 WITH RR16-PR31
1842 01 0067B 38C00460 SW,12 MEMORY
1843 01 0067C 073001BF K 0,7,3,FXP0SW
1844 01 0067D 2730016A K 2,7,3,L0C+2
1845 01 0067E 0000FFFF A DATA X'FFFF'
1846 01 0067F 00010000 A DATA X'10000'
    
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1847 01 00680 FFFFFFFF A DATA -1
1848 01 00681 FFFFFFFF A DATA -1
1849 PAGE
1850
1851 01 00682 FFFFFFFF A ** INSURE THAT (R,CC) IS FALSE WHEN R28-31 ARE ONES AND CC1-4 ARE ZEROS
BCR01 DATA -8 BRANCH R FIELD=F CC=0
1852 01 00683 68F00460 BCR,15 MEMORY
1853 01 00684 0730013A K 0,7,3,SETPSW
1854 01 00685 07300461 K 0,7,3,MEMORY+1
1855 01 00686 00000000 A DATA 0
1856 01 00687 00000000 A DATA 0
1857 01 00688 0F000464 XPSD,0 RETURN
1858 01 00689 0F000464 XPSD,0 RETURN
1859
1860 01 0068A FFFFFFFF A ** INSURE THAT (R,CC) IS FALSE WHEN R28-31 ARE ZEROS AND CC1-4 ARE ONES
BCR02 DATA -6 BRANCH R FIELD=0 CC=F
1861 01 0068B 6800000C A BCR,0 12
1862 01 0068C F000013A K 15,0,0,SETPSW
1863 01 0068D F000000D A K 15,0,0,13
1864 01 0068E 0F000464 XPSD,0 RETURN
1865 01 0068F 0F000464 XPSD,0 RETURN
1866
1867 01 00690 FFFFFFFF A * CHECK (R,CC) = R28,CC1 NBRANCH R=CC= 8
BCR03 DATA -4
1868 01 00691 68800047 BCR,8 BRANCH
1869 01 00692 8000013A K 8,0,0,SETPSW
1870 01 00693 8000016A K 8,0,0,L0C+2
1871
1872 01 00694 FFFFFFFF A * CHECK (R,CC) = R29,CC2 NBRANCH R=CC= 4
BCR04 DATA -4
1873 01 00695 68400047 BCR,4 BRANCH
1874 01 00696 4000013A K 4,0,0,SETPSW
1875 01 00697 4000016A K 4,0,0,L0C+2
1876
1877 01 00698 FFFFFFFF A * CHECK (R,CC) = R30,CC3 NBRANCH R=CC= 2
BCR05 DATA -4
1878 01 00699 68200047 BCR,2 BRANCH
1879 01 0069A 2000013A K 2,0,0,SETPSW
1880 01 0069B 2000016A K 2,0,0,L0C+2
1881
1882 PAGE
1883 01 0069C FFFFFFFF A * CHECK (R,CC) = R31,CC4 NBRANCH R=CC= 1
BCR06 DATA -4
    
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1884 01 0069D 68100047 BCR,1 BRANCH
1885 01 0069E 1000013A K 1,0,0,SETPSW
1886 01 0069F 1000016A K 1,0,0,L0C+2
1887
1888
1889
1890
1891 01 006A0 FFFFFFFF A ** CHECK THAT CC3 OR 4 IS NOT SHORTED TO CC1 OR 2 ALSO
BCS01 DATA -4 N BRANCH R FIELD = C CC= 3
1892 01 006A1 69C00047 BCS,12 BRANCH
1893 01 006A2 3000013A K 3,0,0,SETPSW
1894 01 006A3 3000016A K 3,0,0,L0C+2
1895
1896
1897 01 006A4 FFFFFFFF A ** CHECK THAT CC2 OR 4 IS NOT SHORTED TO CC1 OR 3 ALSO
BCS02 DATA -4 NBRANCH R FIELD = A CC= 5
1898 01 006A5 69A00047 BCS,10 BRANCH
1899 01 006A6 5000013A K 5,0,0,SETPSW
1900 01 006A7 5000016A K 5,0,0,L0C+2
1901
1902 01 006A8 FFFFFFFF A ** CHECK THAT A BRANCH CONDITION WILL OCCUR
BCS03 DATA -8
1903 01 006A9 69800460 BCS,8 MEMORY
1904 01 006AA 8000013A K 8,0,0,SETPSW
1905 01 006AB 80000461 K 8,0,0,MEMORY+1
1906 01 006AC 00000000 A DATA 0
1907 01 006AD 00000000 A DATA 0
1908 01 006AE 0F000464 XPSD,0 RETURN
1909 01 006AF 0F000464 XPSD,0 RETURN
1910
1911 01 006B0 FFFFFFFF A BIR01 DATA -6 BIR NBR R=00000000
1912 01 006B1 65C00047 BIR,12 BRANCH
1913 01 006B2 0000013A DATA SETPSW
1914 01 006B3 0000016A DATA L0C+2
1915 01 006B4 FFFFFFFF A DATA -1
1916 01 006B5 00000000 A DATA 0
1917 01 006B6 FFFFFFFF A BIR02 DATA -6 BIR BR R=FFFFFFF
1918 01 006B7 65C00047 BIR,12 BRANCH
1919 01 006B8 0000013A DATA SETPSW
1920 01 006B9 00000468 DATA BRANCH+1
    
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SIGMA 7 CPU DIAGNOSTIC-AUTB 704044+51800 MARCH 10,1969 57

1921	01	0068A	FFFFFFFF A		DATA	X'FFFFFFFF'			
1922	01	0068B	FFFFFFFF A		DATA	-1			
1923	01	0068C	FFFFFFFF8 A	BIR03	DATA	-8	BIR X	BR	R=80000000
1924	01	0068D	65C20461		BIR,12	MEMORY+1,1			
1925	01	0068E	0000013A		DATA	SETPSW			
1926	01	0068F	00000461		DATA	MEMORY+1			
1927	01	006C0	7FFFFFFFF A		DATA	X'7FFFFFFFF'			
1928	01	006C1	80000000 A		DATA	X'80000000'			
1929	01	006C2	0F000464		XPSD,0	RETURN			
1930	01	006C3	0F000464		XPSD,0	RETURN			
1931	01	006C4	FFFFFFFF8 A	BIR04	DATA	-8	BIR *	BR	R=FFFFFFD8C
1932	01	006C5	ESC0045A		BIR,12	*IA			
1933	01	006C6	C000013A		K	12,0,0,SETPSW			
1934	01	006C7	C0000461		K	12,0,0,MEMORY+1			
1935	01	006C8	FFFFFFFF8B A		DATA	-X'275'			
1936	01	006C9	FFFFFFFF8C A		DATA	-X'274'			
1937	01	006CA	0F000464		XPSD,0	RETURN			
1938	01	006CB	0F000464		XPSD,0	RETURN			
1939					PAGE				
1940	01	006CC	FFFFFFFF6 A	BIR05	DATA	-10	BIR *X	BR	R=8000275E + MEMORY
1941	01	006CD	E5D20460		BIR,13	*MEMORY,1			
1942	01	006CE	0000013A		DATA	SETPSW			
1943	01	006CF	00000461		DATA	MEMORY+1			
1944	01	006D0	8001FFFF A		PZE,0	*MEMORY=RETURN			
1945	01	006D1	8001FFFF A		PZE,0	*MEMORY=RETURN			
1946	01	006D2	0F000464		XPSD,0	RETURN			
1947	01	006D3	0F000464		XPSD,0	RETURN			
1948	01	006D4	10002B8E		PZE,0	*MEMORY+X'0000275E'			
1949	01	006D5	80002B8F		PZE,0	*MEMORY+X'0000275E'+1			
1950	01	006D6	FFFFFFFF A	BIR06	DATA	-6	BIR	NBR	R=7F800000
1951	01	006D7	65C00047		BIR,12	BRANCH			
1952	01	006D8	C000013A		DATA	SETPSW			
1953	01	006D9	0000016A		DATA	LBC+2			
1954	01	006DA	7F7FFFFFF A		DATA	X'7F7FFFFFF'			
1955	01	006DB	7F800000 A		DATA	X'7F800000'			
1956					PAGE				
1957	01	006DC	FFFFFFFF A	BDR01	DATA	-6	BDR	BR	R=00000001

SIGMA 7 CPU DIAGNOSTIC-AUTB 704044+51800 MARCH 10,1969 58

1958	01	006DD	64C00047		BDR,12	BRANCH			
1959	01	006DE	F000013A		K	15,0,0,SETPSW			
1960	01	006DF	F0000048		K	15,0,0,BRANCH+1			
1961	01	006E0	00000002 A		DATA	2			
1962	01	006E1	00000001 A		DATA	1			
1963	01	006E2	FFFFFFFF A	BDR02	DATA	-6	BDR	NBR	R=00000000
1964	01	006E3	64C00047		BDR,12	BRANCH			
1965	01	006E4	F000013A		K	15,0,0,SETPSW			
1966	01	006E5	F000016A		K	15,0,0,LBC+2			
1967	01	006E6	00000001 A		DATA	1			
1968	01	006E7	00000000 A		DATA	0			
1969	01	006E8	FFFFFFFF A	BDR03	DATA	-6	BDR X	BR	R=7FFFFFFF
1970	01	006E9	64C20047		BDR,12	BRANCH,1			
1971	01	006EA	0000013A		K	0,0,0,SETPSW			
1972	01	006EB	00000048		K	0,0,0,BRANCH+1			
1973	01	006EC	80000000 A		DATA	X'80000000'			
1974	01	006ED	7FFFFFFF A		DATA	X'7FFFFFFF'			
1975	01	006EE	FFFFFFFF A	BDR04	DATA	-6	BDR X	BR	R=00023774
1976	01	006EF	64C3C8D2		BDR,12	BRANCH-X'13775',1			
1977	01	006F0	0000013A		K	0,0,0,SETPSW			
1978	01	006F1	00000048		K	0,0,0,BRANCH+1			
1979	01	006F2	00003775 A		DATA	X'13775'			
1980	01	006F3	00003774 A		DATA	X'13774'			
1981	01	006F4	FFFFFFFF8 A	BDR05	DATA	-8	BDR *	BR	R=40000000
1982	01	006F5	E4C0045A		BDR,12	*IA			
1983	01	006F6	C000013A		K	12,0,0,SETPSW			
1984	01	006F7	C0000461		K	12,0,0,MEMORY+1			
1985	01	006F8	40000001 A		DATA	X'40000001'			
1986	01	006F9	40000000 A		DATA	X'40000000'			
1987	01	006FA	0F000464		XPSD,0	RETURN			
1988	01	006FB	0F000464		XPSD,0	RETURN			
1989					PAGE				
1990	01	006FC	FFFFFFFF A	BDR06	DATA	-6	BDR	NBR	R=FFFFFFFF
1991	01	006FD	64C00047		BDR,12	BRANCH			
1992	01	006FE	7200013A		K	7,2,0,SETPSW			
1993	01	006FF	7200016A		K	7,2,0,LBC+2			
1994	01	00700	00000000 A		DATA	0			

SIGMA 7 CPU DIAGNOSTIC-AUT0 704044-51800 MARCH 10,1969 59

1995	01	00701	FFFFFFFF	A		DATA	-1		
1996	01	00702	FFFFFFFF	A	BDR07	DATA	-10		
1997	01	00703	E4D20460			BDR,13	*MEMORY,1		BDR *X BR R=02775AEE
1998	01	00704	6110013A			K	6,1,1,SETPSW		
1999	01	00705	61100048			K	6,1,1,BRANCH+1		
2000	01	00706	0375AF21	A		DATA	X'375AF21'		
2001	01	00707	0375AF21	A		DATA	X'375AF21'		
2002	01	00708	FFFE5126			DATA	BRANCH-X'1AF21'		
2003	01	00709	FFFE5126			DATA	BRANCH-X'1AF21'		
2004	01	0070A	02775AEF	A		DATA	X'2775AEF'		
2005	01	0070B	02775AEE	A		DATA	X'2775AEE'		
2006									
2007									
2008	01	0070C	FFFFFFFF	A	BAL01	DATA	-6	BAL C	BRANCH
2009	01	0070D	6AC00047			BAL,12	BRANCH		
2010	01	0070E	F730013A			K	15,7,3,SETPSW		
2011	01	0070F	F7300048			K	15,7,3,BRANCH+1		
2012	01	00710	08C00000	A		K	0,8,12,0		
2013	01	00711	00000169			DATA	L0C+1		
2014	01	00712	FFFFFFFF	A	BAL02	DATA	-10	BAL D X	MEMORY
2015	01	00713	6AD32583			BAL,13	MEMORY-X'DEAD',1		
2016	01	00714	0130013A			K	0,1,3,SETPSW		
2017	01	00715	01300461			K	0,1,3,MEMORY+1		
2018	01	00716	0000DEAD	A		DATA	X'DEAD'		
2019	01	00717	0000DEAD	A		DATA	X'DEAD'		
2020	01	00718	0F000464			XPSD,0	RETURN		
2021	01	00719	0F000464			XPSD,0	RETURN		
2022	01	0071A	11112222	A		DATA	X'11112222'		
2023	01	0071B	00000169			DATA	L0C+1		
2024						PAGE			
2025	01	0071C	FFFFFFFF	A	BAL03	DATA	-8	BAL D *	MEMORY
2026	01	0071D	EAC0045A			BAL,12	*IA		
2027	01	0071E	0000013A			DATA	SETPSW		
2028	01	0071F	00000461			DATA	MEMORY+1		
2029	01	00720	FFFFFFFF	A		DATA	-1		
2030	01	00721	00000169			DATA	L0C+1		
2031	01	00722	0F000464			XPSD,0	RETURN		

SIGMA 7 CPU DIAGNOSTIC-AUT0 704044-51800 MARCH 10,1969 60

2032	01	00723	0F000464			XPSD,0	RETURN		
2033	01	00724	FFFFFFFF	A	BAL04	DATA	-6	BAL C *X	BRANCH
2034	01	00725	EAC20460			BAL,12	*MEMORY,1		
2035	01	00726	F730013A			K	15,7,3,SETPSW		
2036	01	00727	F7300048			K	15,7,3,BRANCH+1		
2037	01	00728	00000047			DATA	BRANCH		
2038	01	00729	00000169			DATA	L0C+1		
2039									
2040									
2041									
2042	01	0072A	FFFFFFFF	A	BAL05	DATA	-6		
2043	01	0072B	680001AB			B	END	BECOMES BAL,12	NEM *B
2044	01	0072C	80000183			K	11,0,0,SIGNAB		
2045	01	0072D	F0000067			K	15,0,0,NEARET+1		
2046	01	0072E	00000000	A		DATA	0		
2047	01	0072F	00000169			DATA	L0C+1		
2048						PAGE			
2049									
2050	01	00730	FFFFFFEE	A	FAPSD01	DATA	-18	** RP SHOULD NOT CHANGE. INTERRUPT INHIBITS SHOULD REMAIN SET	
2051	01	00731	0F000452			XPSD,0	TABLE+14		
2052	01	00732	F730013A			K	15,7,3,SETPSW	PSW1 IN	
2053	01	00733	0000016A			K	0,0,0,L0C+2	PSW1 OUT	
2054	01	00734	00000000	A		DATA	0		
2055	01	00735	00000000	A		DATA	0		
2056	01	00736	00000000	A		DATA	0		
2057	01	00737	00000000	A		DATA	0		
2058	01	00738	00000000	A		DATA	0		
2059	01	00739	00000000	A		DATA	0		
2060	01	0073A	00000000	A		DATA	0		
2061	01	0073B	00000000	A		DATA	0		
2062	01	0073C	07000000	A		DATA	X'7000000'	PSW2 IN	
2063	01	0073D	07000000	A		DATA	X'7000000'	PSW2 OUT	
2064	01	0073E	00000000	A		DATA	0	TABLE+14	
2065	01	0073F	00000000	A		DATA	0	TABLE+15	
2066	01	00740	00000169			K	0,0,0,L0C+1	TABLE+16	LOADED INTO PSW1 BY XPSD
2067	01	00741	000000F0	A		DATA	X'F0'	TABLE+17	
2068						PAGE			

SIGMA 7 CPU DIAGNOSTIC-AUTO 704044-51800 MARCH 10, 1969 61

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2069          ** CHANGE RP AND INTERRUPT INHIBITS
2070 01 00742 FFFFFFF2 A FAPSD02 DATA -14
2071 01 00743 0E800480 LPSD,8 MEMORY
2072 01 00744 3000013A K 3,0,0,SETPSW PSW1 IN
2073 01 00745 C730016A K 12,7,3,L8C+2 PSW1 OUT
2074 01 00746 00000000 A DATA 0
2075 01 00747 00000000 A DATA 0
2076 01 00748 C7300169 K 12,7,3,L8C+1 MEMORY: LOADED INTO PSW1 BY LPSD
2077 01 00749 C7300169 K 12,7,3,L8C+1
2078 01 0074A 00000000 A DATA 0
2079 01 0074B 00000000 A DATA 0
2080 01 0074C 020000A0 A DATA X'020000A0' MEMORY+1 : LOADED INTO PSW2 BY LPSD
2081 01 0074D 020000A0 A DATA X'020000A0'
2082 01 0074E 05000000 A DATA X'05000000' PSW2 IN
2083 01 0074F 020000A0 A DATA X'020000A0' PSW2 OUT
2084          ** CHANGE RP AND INTERRUPT INHIBITS
2085 01 00750 FFFFFFF2 A FAPSD03 DATA -14
2086 01 00751 0E800480 LPSD,8 MEMORY
2087 01 00752 C510013A K 12,5,1,SETPSW
2088 01 00753 3220016A K 3,2,2,L8C+2
2089 01 00754 00000000 A DATA 0
2090 01 00755 00000000 A DATA 0
2091 01 00756 32200169 K 3,2,2,L8C+1 LOADED INTO PSW1 BY LPSD
2092 01 00757 32200169 K 3,2,2,L8C+1
2093 01 00758 00000000 A DATA 0
2094 01 00759 00000000 A DATA 0
2095 01 0075A 05000050 A DATA X'05000050' LOADED INTO PSW2 BY LPSD
2096 01 0075B 05000050 A DATA X'05000050'
2097 01 0075C 020000A0 A DATA X'020000A0' PSW2 IN
2098 01 0075D 05000050 A DATA X'05000050' PSW2 OUT
2099          PAGE
2100          ** LOAD FIVE INTO RP
2101 01 0075E FFFFFFF2 A LRPO1 DATA -14
2102 01 0075F 2F000480 LRP MEMORY
2103 01 00760 0000013A K 0,0,0,SETPSW
2104 01 00761 0000016A K 0,0,0,L8C+2
2105 01 00762 00000000 A DATA 0

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SIGMA 7 CPU DIAGNOSTIC-AUTO 704044-51800 MARCH 10, 1969 62

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2106 01 00763 00000000 A DATA 0
2107 01 00764 00000050 A DATA X'50'
2108 01 00765 00000050 A DATA X'50'
2109 01 00766 00000000 A DATA 0
2110 01 00767 00000000 A DATA 0
2111 01 00768 00000000 A DATA 0
2112 01 00769 00000000 A DATA 0
2113 01 0076A 000000A0 A DATA X'A0' PSW2 IN
2114 01 0076B 00000050 A DATA X'50' PSW2 OUT
2115          ** LOAD A INTO REG POINTER FROM REG
2116 01 0076C FFFFFFF2 A LRPO2 DATA -14
2117 01 0076D 2F00000C A LRP 12
2118 01 0076E F730013A K 15,7,3,SETPSW
2119 01 0076F F730016A K 15,7,3,L8C+2
2120 01 00770 000000A0 A DATA X'A0'
2121 01 00771 000000A0 A DATA X'A0'
2122 01 00772 00000000 A DATA 0
2123 01 00773 00000000 A DATA 0
2124 01 00774 00000000 A DATA 0
2125 01 00775 00000000 A DATA 0
2126 01 00776 00000000 A DATA 0
2127 01 00777 00000000 A DATA 0
2128 01 00778 00000050 A DATA X'50' PSW2 IN
2129 01 00779 000000A0 A DATA X'A0' PSW2 OUT
2130          PAGE
2131 01 0077A FFFFFFFA A LW01 DATA -6 LW +M INTO -R = +M 0=1
2132 01 0077B 32C00480 LW,12 MEMORY
2133 01 0077C F730013A K 15,7,3,SETPSW
2134 01 0077D C730016A K 12,7,3,L8C+2
2135 01 0077E FFFFFFFF A DATA -1
2136 01 0077F 00000000 A DATA 0
2137 01 00780 FFFFFFF8 A LW02 DATA -8 LW -M INTO -R = -R 1=1
2138 01 00781 32C00480 LW,12 MEMORY
2139 01 00782 3730013A K 3,7,3,SETPSW
2140 01 00783 1730016A K 1,7,3,L8C+2
2141 01 00784 FFFFFFFF A DATA X'FFFFFFFF'
2142 01 00785 FFFFFFFF A DATA X'FFFFFFFF'

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SIGMA 7 CPU DIAGNOSTIC-AUTB 704044-51800 MARCH 10, 1969 63

2143	01	00786	FFFFFFFF A		DATA	X'FFFFFFFF'			
2144	01	00787	FFFFFFFF A		DATA	X'FFFFFFFF'			
2145	01	00788	FFFFFFFF A	LW03	DATA	-8	LW	-M INTB +M = -R 1-0	
2146	01	00789	B2C0045A		LW,12	*IA			
2147	01	0078A	C620013A		K	12,6,2,SETPSW			
2148	01	0078B	D620016A		K	13,6,2,L0C+2			
2149	01	0078C	00000000 A		DATA	0			
2150	01	0078D	FFFFFFFF A		DATA	X'FFFFFFFF'			
2151	01	0078E	FFFFFFFF A		DATA	X'FFFFFFFF'			
2152	01	0078F	FFFFFFFF A		DATA	X'FFFFFFFF'			
2153	01	00790	FFFFFFFF A	LW04	DATA	-8	LW X	-M INTB -R = -M 1-1,0-1,1+0	
2154	01	00791	32C20419 A		LW,12	MEMORY-BRANCH,1			
2155	01	00792	A530013A		K	10,5,3,SETPSW			
2156	01	00793	9530016A		K	9,5,3,L0C+2			
2157	01	00794	80000047		PZE,0	*BRANCH			
2158	01	00795	FFF00000 A		DATA	X'FFF00000'			
2159	01	00796	FFF00000 A		DATA	X'FFF00000'			
2160	01	00797	FFF00000 A		DATA	X'FFF00000'			
2161	01	00798	FFFFFFFFC A	LW05	DATA	-4	LW	+M INTB +R = +R 0-0	
2162	01	00799	32C00460		LW,12	MEMORY			
2163	01	0079A	3330013A		K	3,3,3,SETPSW			
2164	01	0079B	0330016A		K	0,3,3,L0C+2			
2165					PAGE				
2166	01	0079C	FFFFFFFF8 A	LH01	DATA	-8	LH	HW 0 SE=1 1-1,1-0	
2167	01	0079D	52C00460		LH,12	MEMORY			
2168	01	0079E	7020013A		K	7,0,2,SETPSW			
2169	01	0079F	5020016A		K	5,0,2,L0C+2			
2170	01	007A0	FFF00000 A		DATA	X'FFF00000'			
2171	01	007A1	FFFFFFFF A		DATA	-1			
2172	01	007A2	FFF3210 A		DATA	X'FFF3210'			
2173	01	007A3	FFF3210 A		DATA	X'FFF3210'			
2174	01	007A4	FFFFFFFF8 A	LH02	DATA	-8	LH	HW 0 SE=1 1-0,0-1	
2175	01	007A5	52C00460		LH,12	MEMORY			
2176	01	007A6	E030013A		K	14,0,3,SETPSW			
2177	01	007A7	D030016A		K	13,0,3,L0C+2			
2178	01	007A8	00007FFF A		DATA	X'7FFF'			
2179	01	007A9	FFF8000 A		DATA	X'FFF8000'			

SIGMA 7 CPU DIAGNOSTIC-AUTB 704044-51800 MARCH 10, 1969 64

2180	01	007AA	80000000 A		DATA	X'80000000'			
2181	01	007AB	80000000 A		DATA	X'80000000'			
2182	01	007AC	FFFFFFFF8 A	LH03	DATA	-8	LH *	HW 0 SE=0 0-1,1-1	
2183	01	007AD	D2C0045A		LH,12	*IA			
2184	01	007AE	F730013A		K	15,7,3,SETPSW			
2185	01	007AF	E730016A		K	14,7,3,L0C+2			
2186	01	007B0	FFFFFFFF A		DATA	-1			
2187	01	007B1	00007FFF A		DATA	X'7FFF'			
2188	01	007B2	7FFF0000 A		DATA	X'7FFF0000'			
2189	01	007B3	7FFF0000 A		DATA	X'7FFF0000'			
2190	01	007B4	FFFFFFFF A	LH04	DATA	-6	LH	HW 0 SE=0 0-0,0-1	
2191	01	007B5	52C0000C A		LH,12	12			
2192	01	007B6	3030013A		K	3,0,3,SETPSW			
2193	01	007B7	0030016A		K	0,0,3,L0C+2			
2194	01	007B8	0000FFFF A		DATA	X'FFFF'			
2195	01	007B9	00000000 A		DATA	0			
2196	01	007BA	FFFFFFFF A	LH05	DATA	-6	LH X	HW 1 SE=0 0-1,0-0	
2197	01	007BB	52C0000C A		LH,12	12,7			
2198	01	007BC	7730013A		K	7,7,3,SETPSW			
2199	01	007BD	6730016A		K	6,7,3,L0C+2			
2200	01	007BE	FFFE0001 A		DATA	X'FFFE0001'			
2201	01	007BF	00000001 A		DATA	1			
2202					PAGE				
2203	01	007C0	FFFFFFFF8 A	LH06	DATA	-8	LH X	HW 1 SE=0 0-0,1-1	
2204	01	007C1	52C00461		LH,12	MEMORY-X'FFFF',1			
2205	01	007C2	7030013A		K	7,0,3,SETPSW			
2206	01	007C3	6030016A		K	6,0,3,L0C+2			
2207	01	007C4	0001FFFF A		DATA	X'1FFFF'			
2208	01	007C5	00007FFF A		DATA	X'7FFF'			
2209	01	007C6	00007FFF A		DATA	X'7FFF'			
2210	01	007C7	00007FFF A		DATA	X'7FFF'			
2211	01	007C8	FFFFFFFF4 A	LH07	DATA	-12	LH *X	HW=1 SE=1 1-1,0-1	
2212	01	007C9	D2D20460		LH,13	*MEMORY,1			
2213	01	007CA	F730013A		K	15,7,3,SETPSW			
2214	01	007CB	D730016A		K	13,7,3,L0C+2			
2215	01	007CC	00000699 A		DATA	2*(MEMORY-CYCLE)+3			
2216	01	007CD	00000699 A		DATA	2*(MEMORY-CYCLE)+3			

2217	01	007CE	00000115		DATA	CYCLE		
2218	01	007CF	00000115		DATA	CYCLE		
2219	01	007D0	FFFFFFFF A		DATA	-1		
2220	01	007D1	FFFF8000 A		DATA	X'FFFF8000'		
2221	01	007D2	00008000 A		DATA	X'8000'		
2222	01	007D3	00008000 A		DATA	X'8000'		
2223	01	007D4	FFFFFFFF4 A	LH08	DATA	-12		LH *X HW=1 SE=1 1=0,1=0
2224	01	007D5	D2D20460		LH,13	*MEMORY,1		
2225	01	007D6	0330013A		K	0,3,3,SETPSW		
2226	01	007D7	1330016A		K	1,3,3,L8C+2		
2227	01	007D8	0000023D		DATA	HA(CLEAR)+3		
2228	01	007D9	0000023D		DATA	HA(CLEAR)+3		
2229	01	007DA	00000343 A		DATA	MEMORY-CLEAR		
2230	01	007DB	00000343 A		DATA	MEMORY-CLEAR		
2231	01	007DC	00000000 A		DATA	0		
2232	01	007DD	FFFFFFFF A		DATA	-1		
2233	01	007DE	1234FFFF A		DATA	X'1234FFFF'		
2234	01	007DF	1234FFFF A		DATA	X'1234FFFF'		
2235					PAGE			
2236	01	007E0	FFFFFFFF8 A	LB01	DATA	-8		LB B 0 0=0,1=0
2237	01	007E1	72C00460		LB,12	MEMORY		
2238	01	007E2	F720013A		K	15,7,2,SETPSW		
2239	01	007E3	E720016A		K	14,7,2,L8C+2		
2240	01	007E4	00000000 A		DATA	0		
2241	01	007E5	000000FF A		DATA	X'FF'		
2242	01	007E6	FF000000 A		DATA	X'FF000000'		
2243	01	007E7	FF000000 A		DATA	X'FF000000'		
2244	01	007E8	FFFFFFFF8 A	LB02	DATA	-8		LB B 0 0=0,0=1
2245	01	007E9	72C00460		LB,12	MEMORY		
2246	01	007EA	F730013A		K	15,7,3,SETPSW		
2247	01	007EB	C730016A		K	12,7,3,L8C+2		
2248	01	007EC	000000FF A		DATA	X'FF'		
2249	01	007ED	00000000 A		DATA	0		
2250	01	007EE	00FFFFFF A		DATA	X'FFFFFF'		
2251	01	007EF	00FFFFFF A		DATA	X'FFFFFF'		
2252	01	007F0	FFFFFFFF8 A	LB03	DATA	-8		LB X B 0 0=1,0=0
2253	01	007F1	72C20460		LB,12	MEMORY+X'E0',1		

2254	01	007F2	F730013A		K	15,7,3,SETPSW		
2255	01	007F3	C730016A		K	12,7,3,L8C+2		
2256	01	007F4	FFFFFFFF80 A		DATA	X'FFFFFFFF80'		
2257	01	007F5	00000000 A		DATA	0		
2258	01	007F6	00FFFFFF A		DATA	X'FFFFFF'		
2259	01	007F7	00FFFFFF A		DATA	X'FFFFFF'		
2260	01	007F8	FFFFFFFF8 A	LB04	DATA	-8		LB * BYTE 0=1,1=1
2261	01	007F9	F2C0046A		LB,12	*1A		
2262	01	007FA	0020013A		K	0,0,2,SETPSW		
2263	01	007FB	2020016A		K	2,0,2,L8C+2		
2264	01	007FC	FFFFFFFF A		DATA	-1		
2265	01	007FD	000000FF A		DATA	X'FF'		
2266	01	007FE	FF000000 A		DATA	X'FF000000'		
2267	01	007FF	FF000000 A		DATA	X'FF000000'		
2268					PAGE			
2269	01	00800	FFFFFFFF8 A	LB05	DATA	-8		LB * B 0 0=1,0=1,1=1
2270	01	00801	F2C0046A		LB,12	*1A		
2271	01	00802	3730013A		K	3,7,3,SETPSW		
2272	01	00803	2730016A		K	2,7,3,L8C+2		
2273	01	00804	FFFFFFFF A		DATA	-1		
2274	01	00805	000000A2 A		DATA	X'1A2'		
2275	01	00806	A2FFFFFF A		DATA	X'A2FFFFFF'		
2276	01	00807	A2FFFFFF A		DATA	X'A2FFFFFF'		
2277	01	00808	FFFFFFFF6 A	LB06	DATA	-10		LB X B 2
2278	01	00809	72D2046A		LB,13	PASS,1		
2279	01	0080A	5030013A		K	5,0,3,SETPSW		
2280	01	0080B	6030016A		K	6,0,3,L8C+2		
2281	01	0080C	FFFFFFFFDA A		DATA	4*(MEMORY-PASS)+2		
2282	01	0080D	FFFFFFFFDA A		DATA	4*(MEMORY-PASS)+2		
2283	01	0080E	FFFF89FF A		DATA	X'FFFF89FF'		
2284	01	0080F	FFFF89FF A		DATA	X'FFFF89FF'		
2285	01	00810	FFFFFFFF A		DATA	-1		
2286	01	00811	00000089 A		DATA	X'89'		
2287	01	00812	FFFFFFFF A	LB07	DATA	-6		LB X B 1
2288	01	00813	72C3800D A		LB,12	12*X'18001',1		
2289	01	00814	1520013A		K	1,5,2,SETPSW		
2290	01	00815	2520016A		K	2,5,2,L8C+2		

SIGMA 7 CPU DIAGNOSTIC-AUTB 704044-51800 MARCH 10, 1969 67

2291	01	00816	FF99FFFD A		DATA	X'FF99FFFD'			
2292	01	00817	00000099 A		DATA	X'99'			
2293	01	00818	FFFFFFFF8 A	LB08	DATA	-8		LB X B 3	
2294	01	00819	72C20460		LB,12	MEMBRY,1			
2295	01	0081A	0130013A		K	0,1,3,SETPSW			
2296	01	0081B	2130016A		K	2,1,3,LBC+2			
2297	01	0081C	00000003 A		DATA	3			
2298	01	0081D	000000FF A		DATA	X'FF'			
2299	01	0081E	FFFFFFFF A		DATA	-1			
2300	01	0081F	FFFFFFFF A		DATA	-1			
2301					PAGE				
2302	01	00820	FFFFFFFF4 A	LB09	DATA	-12		LB *,IX	
2303	01	00821	F2CE0460		LB,12	*MEMBRY,7			
2304	01	00822	1000013A		K	1,0,0,SETPSW			
2305	01	00823	2000016A		K	2,0,0,LBC+2			
2306	01	00824	FFFFFFFF A		DATA	-1,X'27',MEMBRY+1,MEMBRY+1,X'F027F2F3',X'F027F2F3'			
	01	00825	00000027 A						
	01	00826	00000461						
	01	00827	00000461						
	01	00828	F027F2F3 A						
	01	00829	F027F2F3 A						
2307	01	0082A	F027F2F3 A		DATA	X'F027F2F3',X'F027F2F3'			
	01	0082B	F027F2F3 A						
2308					PAGE				
2309	01	0082C	FFFFFFFF6 A	LD01	DATA	-10		LD RE ME	
2310	01	0082D	12C00460		LD,12	MEMBRY			
2311	01	0082E	F730013A		K	15,7,3,SETPSW			
2312	01	0082F	C730016A		K	12,7,3,LBC+2			
2313	01	00830	FFFFFFFF A		DATA	-1			
2314	01	00831	00000000 A		DATA	0			
2315	01	00832	00000000 A		DATA	0			
2316	01	00833	00000000 A		DATA	0			
2317	01	00834	FFFFFFFF A		DATA	-1			
2318	01	00835	00000000 A		DATA	0			
2319	01	00836	FFFFFFFF4 A	LD02	DATA	-12		LD * RE ME	
2320	01	00837	92C0045A		LD,12	*IA			
2321	01	00838	7730013A		K	7,7,3,SETPSW			

SIGMA 7 CPU DIAGNOSTIC-AUTB 704044-51800 MARCH 10, 1969 68

2322	01	00839	5730016A		K	5,7,3,LBC+2			
2323	01	0083A	00000000 A		DATA	0			
2324	01	0083B	FFFFFFFF A		DATA	-1			
2325	01	0083C	FFFFFFFF A		DATA	-1			
2326	01	0083D	FFFFFFFF A		DATA	-1			
2327	01	0083E	00000000 A		DATA	0			
2328	01	0083F	FFFFFFFF A		DATA	-1			
2329	01	00840	FFFFFFFF A		DATA	-1			
2330	01	00841	FFFFFFFF A		DATA	-1			
2331	01	00842	FFFFFFFF4 A	LD03	DATA	-12		LD X RE ME	
2332	01	00843	12C00460		LD,12	BRANCH+1,1			
2333	01	00844	0730013A		K	0,7,3,SETPSW			
2334	01	00845	2730016A		K	2,7,3,LBC+2			
2335	01	00846	0000020C A		DATA	(MEMBRY-BRANCH-1)/2			
2336	01	00847	00000000 A		DATA	0			
2337	01	00848	00000000 A		DATA	0			
2338	01	00849	00000000 A		DATA	0			
2339	01	0084A	ACEBEDAD A		DATA	X'ACEBEDAD'			
2340	01	0084B	BEADFADE A		DATA	X'BEADFADE'			
2341	01	0084C	BEADFADE A		DATA	X'BEADFADE'			
2342	01	0084D	BEADFADE A		DATA	X'BEADFADE'			
2343					PAGE				
2344	01	0084E	FFFFFFFF4 A	LD04	DATA	-12		LD * RE ME	
2345	01	0084F	92C0045A		LD,12	*IA			
2346	01	00850	F730013A		K	15,7,3,SETPSW			
2347	01	00851	D730016A		K	13,7,3,LBC+2			
2348	01	00852	0000020C A		DATA	(MEMBRY-BRANCH-1)/2			
2349	01	00853	F234ABCD A		DATA	X'F234ABCD'			
2350	01	00854	F234ABCD A		DATA	X'F234ABCD'			
2351	01	00855	F234ABCD A		DATA	X'F234ABCD'			
2352	01	00856	F2397572 A		DATA	X'F2397572'			
2353	01	00857	1E2783F9 A		DATA	X'1E2783F9'			
2354	01	00858	1E2783F9 A		DATA	X'1E2783F9'			
2355	01	00859	1E2783F9 A		DATA	X'1E2783F9'			
2356	01	0085A	FFFFFFFF4 A	LD05	DATA	-12		LD RE ME	
2357	01	0085B	12D00461		LD,13	MEMBRY+1			
2358	01	0085C	D730013A		K	13,7,3,SETPSW			

SIGMA 7 CPU DIAGNOSTIC-AUT0 704044-51800 MARCH 10,1969 69

2359	01	0085D	E730016A	K	14,7,3,L8C+2			
2360	01	0085E	ABCDEF01 A	DATA	X'ABCDEF01'			
2361	01	0085F	ABCDEF01 A	DATA	X'ABCDEF01'			
2362	01	00860	543210FE A	DATA	X'543210FE'			
2363	01	00861	543210FE A	DATA	X'543210FE'			
2364	01	00862	12345678 A	DATA	X'12345678'			
2365	01	00863	543210FE A	DATA	X'543210FE'			
2366	01	00864	EDCBA987 A	DATA	X'EDCBA987'			
2367	01	00865	EDCBA987 A	DATA	X'EDCBA987'			
2368	01	00866	FFFFFFFF4 A	LD06	DATA	-12	LD	X RB ME
2369	01	00867	12D2CCA2	LD,13	MEMORY-2*X'9BDF',1			
2370	01	00868	2730013A	K	2,7,3,SETPSW			
2371	01	00869	1730016A	K	1,7,3,L8C+2			
2372	01	0086A	13579BDF A	DATA	X'13579BDF'			
2373	01	0086B	13579BDF A	DATA	X'13579BDF'			
2374	01	0086C	ECA86420 A	DATA	X'ECA86420'			
2375	01	0086D	ECA86420 A	DATA	X'ECA86420'			
2376	01	0086E	2468ACE0 A	DATA	X'2468ACE0'			
2377	01	0086F	ECA86420 A	DATA	X'ECA86420'			
2378	01	00870	DB97531F A	DATA	X'DB97531F'			
2379	01	00871	DB97531F A	DATA	X'DB97531F'			
2380				PAGE				
2381	01	00872	FFFFFFFF4 A	LD07	DATA	-12	LD	* RB ME
2382	01	00873	9200B45A	LD,13	*IA			
2383	01	00874	0730013A	K	0,7,3,SETPSW			
2384	01	00875	2730016A	K	2,7,3,L8C+2			
2385	01	00876	FFFFFFFFD A	DATA	-3			
2386	01	00877	FFFFFFFFD A	DATA	-3			
2387	01	00878	00000000 A	DATA	0			
2388	01	00879	00000000 A	DATA	0			
2389	01	0087A	FFFFFFFFF A	DATA	-1			
2390	01	0087B	00000000 A	DATA	0			
2391	01	0087C	00000001 A	DATA	1			
2392	01	0087D	00000001 A	DATA	1			
2393	01	0087E	FFFFFFFF4 A	LD08	DATA	-12	LD	MB
2394	01	0087F	12C00461	LD,12	MEMORY+1			
2395	01	00880	9730013A	K	9,7,3,SETPSW			

SIGMA 7 CPU DIAGNOSTIC-AUT0 704044-51800 MARCH 10,1969 70

2396	01	00881	A730016A	K	10,7,3,L8C+2			
2397	01	00882	EDCBA987 A	DATA	X'EDCBA987'			
2398	01	00883	12345678 A	DATA	X'12345678'			
2399	01	00884	12345678 A	DATA	X'12345678'			
2400	01	00885	12345678 A	DATA	X'12345678'			
2401	01	00886	6543210F A	DATA	X'16543210F'			
2402	01	00887	9ABCDEF0 A	DATA	X'9ABCDEF0'			
2403	01	00888	9ABCDEF0 A	DATA	X'9ABCDEF0'			
2404	01	00889	9ABCDEF0 A	DATA	X'9ABCDEF0'			
2405	01	0088A	FFFFFFFF4 A	LD09	DATA	-12	LD	RE RE
2406	01	0088B	12C00008 A	LD,12	8			
2407	01	0088C	7000013A	K	7,0,0,SETPSW			
2408	01	0088D	6000016A	K	6,0,0,L8C+2			
2409	01	0088E	12345678 A	DATA	X'12345678'			
2410	01	0088F	0FEDCBA9 A	DATA	X'0FEDCBA9'			
2411	01	00890	0FEDCBA9 A	DATA	X'0FEDCBA9'			
2412	01	00891	0FEDCBA9 A	DATA	X'0FEDCBA9'			
2413	01	00892	9ABCDEF0 A	DATA	X'9ABCDEF0'			
2414	01	00893	87654321 A	DATA	X'87654321'			
2415	01	00894	87654321 A	DATA	X'87654321'			
2416	01	00895	87654321 A	DATA	X'87654321'			
2417				PAGE				
2418	01	00896	FFFFFFFF4 A	LD10	DATA	-12	LD	RB RE
2419	01	00897	12D00008 A	LD,13	8			
2420	01	00898	1000013A	K	1,0,0,SETPSW			
2421	01	00899	2000016A	K	2,0,0,L8C+2			
2422	01	0089A	13579BDF A	DATA	X'13579BDF'			
2423	01	0089B	13579BDF A	DATA	X'13579BDF'			
2424	01	0089C	02468ACE A	DATA	X'02468ACE'			
2425	01	0089D	02468ACE A	DATA	X'02468ACE'			
2426	01	0089E	ECA86420 A	DATA	X'ECA86420'			
2427	01	0089F	02468ACE A	DATA	X'02468ACE'			
2428	01	008A0	ECA86420 A	DATA	X'ECA86420'			
2429	01	008A1	ECA86420 A	DATA	X'ECA86420'			
2430	01	008A2	FFFFFFFF4 A	LD11	DATA	-12	LD	RE RB
2431	01	008A3	12C00009 A	LD,12	9			
2432	01	008A4	1000013A	K	1,0,0,SETPSW			

SIGMA 7 CPU DIAGNOSTIC-AUTB 704044-51B00 MARCH 10, 1969 71

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2433 01 008A5 2000016A K 2,0,0,L6C+2
2434 01 008A6 ABCDEF01 A DATA X'ABCDEF01'
2435 01 008A7 12347956 A DATA X'12347956'
2436 01 008A8 12347956 A DATA X'12347956'
2437 01 008A9 12347956 A DATA X'12347956'
2438 01 008AA 10345768 A DATA X'10345768'
2439 01 008AB ACDEFB29 A DATA X'ACDEFB29'
2440 01 008AC ACDEFB29 A DATA X'ACDEFB29'
2441 01 008AD ACDEFB29 A DATA X'ACDEFB29'
2442 01 008AE FFFFFFFF A LD12 DATA -12 LD R8 R8
2443 01 008AF 12D00009 A LD,13 LD,13 9
2444 01 008B0 0000013A K 0,0,0,SETPSW
2445 01 008B1 2000016A K 2,0,0,L6C+2
2446 01 008B2 11111111 A DATA X'11111111'
2447 01 008B3 11111111 A DATA X'11111111'
2448 01 008B4 5AB91233 A DATA X'5AB91233'
2449 01 008B5 5AB91233 A DATA X'5AB91233'
2450 01 008B6 33445566 A DATA X'33445566'
2451 01 008B7 5AB91233 A DATA X'5AB91233'
2452 01 008B8 FFFFFFFF A DATA -1
2453 01 008B9 FFFFFFFF A DATA -1
2454 PAGE
2455 01 008BA FFFFFFFF A LD13 DATA -12 LD *,IX
2456 01 008BB 92CE0460 LD,12 *MEMORY,7
2457 01 008BC 0000013A K 0,0,0,SETPSW
2458 01 008BD 2000016A K 2,0,0,L6C+2
2459 01 008BE FFFFFFFF A DATA -1, MEMORY-1, MEMORY-1, -1, -16, -16, -16
01 008BF 0000045F
01 008C0 0000045F
01 008C1 0000045F
01 008C2 FFFFFFFF A
01 008C3 FFFFFFFF A
01 008C4 FFFFFFFF A
01 008C5 FFFFFFFF A
2460 PAGE
2461 01 008C6 FFFFFFFF A LI01 DATA -6 LI SE=1 1=0,1=0
2462 01 008C7 22C9FFFF A LI,12 X'9FFFF'

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SIGMA 7 CPU DIAGNOSTIC-AUTB 704044-51B00 MARCH 10, 1969 72

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2463 01 008C8 F730013A K 15,7,3,SETPSW
2464 01 008C9 D730016A K 13,7,3,L6C+2
2465 01 008CA 00000000 A DATA 0
2466 01 008CB FFFF9FFF A DATA X'FFF9FFF'
2467 01 008CC FFFFFFFF A LI02 DATA -6 LI SE=0 0=1,0=1
2468 01 008CD 22C40001 A LI,12 X'40001'
2469 01 008CE 0730013A K 0,7,3,SETPSW
2470 01 008CF 2730016A K 2,7,3,L6C+2
2471 01 008D0 FFFFFFFF A DATA -1
2472 01 008D1 00040001 A DATA X'40001'
2473 01 008D2 FFFFFFFF A LI03 DATA -6 LI SE=1 1=1,0=0
2474 01 008D3 22C80000 A LI,12 X'80000'
2475 01 008D4 F730013A K 15,7,3,SETPSW
2476 01 008D5 D730016A K 13,7,3,L6C+2
2477 01 008D6 FFF00000 A DATA X'FF00000'
2478 01 008D7 FFF80000 A DATA X'FF80000'
2479 01 008D8 FFFFFFFF A LI04 DATA -6 LI SE=0 0=0 1=1
2480 01 008D9 22C7FFFF A LI,12 X'7FFFF'
2481 01 008DA F730013A K 15,7,3,SETPSW
2482 01 008DB E730016A K 14,7,3,L6C+2
2483 01 008DC 000FFFFFFF A DATA X'FFFFFFF'
2484 01 008DD 0007FFFF A DATA X'7FFFF'
2485 01 008DE FFFFFFFF A LI05 DATA -6 LI *
2486 01 008DF A2C00460 LI,12 *MEMORY
2487 01 008E0 17300103 K 1,7,3,S19NAB
2488 01 008E1 9730006B K 9,7,3,NEIRET+1
2489 01 008E2 FFFFFFFF A DATA -1
2490 01 008E3 FFFFFFFF A DATA -1
2491 PAGE
2492 01 008E4 FFFFFFFF A LS01 DATA -10 LS RE
2493 01 008E5 4AC00460 LS,12 MEMORY
2494 01 008E6 7730013A K 7,7,3,SETPSW
2495 01 008E7 5730016A K 5,7,3,L6C+2
2496 01 008E8 3C3C3C3C A DATA X'3C3C3C3C'
2497 01 008E9 F0F03C3C A DATA X'F0F03C3C'
2498 01 008EA F0F0F0F0 A DATA X'F0F0F0F0'
2499 01 008EB F0F0F0F0 A DATA X'F0F0F0F0'

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SIGMA 7 CPU DIAGNOSTIC-AUTB 704044-51800 MARCH 10,1969 73

2500	01	008EC	FFFF0000	A	DATA	X'FFFFFF0000'		
2501	01	008ED	FFFF0000	A	DATA	X'FFFFFF0000'		
2502	01	008EE	FFFFFFF6	A	LS02	DATA	-10	LS X RE
2503	01	008EF	4AC3C824		LS,12	MEMORY-X'3C3C',1		
2504	01	008F0	0730013A		K	0,7,3,SETPSW		
2505	01	008F1	2730016A		K	2,7,3,L8C+2		
2506	01	008F2	3C3C3C3C	A	DATA	X'3C3C3C3C'		
2507	01	008F3	3C3CF0F0	A	DATA	X'3C3CF0F0'		
2508	01	008F4	F0F0F0F0	A	DATA	X'F0F0F0F0'		
2509	01	008F5	F0F0F0F0	A	DATA	X'F0F0F0F0'		
2510	01	008F6	0000FFFF	A	DATA	X'FFFF'		
2511	01	008F7	0000FFFF	A	DATA	X'FFFF'		
2512	01	008F8	FFFFFFF6	A	LS03	DATA	-10	LS * RE
2513	01	008F9	CAC0045A		LS,12	*1A		
2514	01	008FA	F730013A		K	15,7,3,SETPSW		
2515	01	008FB	E730016A		K	14,7,3,L8C+2		
2516	01	008FC	3C3C3C3C	A	DATA	X'3C3C3C3C'		
2517	01	008FD	0F0F3C3C	A	DATA	X'F0F3C3C'		
2518	01	008FE	0F0F0F0F	A	DATA	X'F0F0F0F'		
2519	01	008FF	0F0F0F0F	A	DATA	X'F0F0F0F'		
2520	01	00900	FFFF0000	A	DATA	X'FFFFFF0000'		
2521	01	00901	FFFF0000	A	DATA	X'FFFFFF0000'		
2522					PAGE			
2523	01	00902	FFFFFFF4	A	LS04	DATA	-12	LS * X RE
2524	01	00903	CAC28461		LS,12	*MEMBRY+1,1		
2525	01	00904	0730013A		K	0,7,3,SETPSW		
2526	01	00905	2730016A		K	2,7,3,L8C+2		
2527	01	00906	3C3C3C3C	A	DATA	X'3C3C3C3C'		
2528	01	00907	3C3C0F0F	A	DATA	X'3C3C0F0F'		
2529	01	00908	0F0F0F0F	A	DATA	X'F0F0F0F'		
2530	01	00909	0F0F0F0F	A	DATA	X'F0F0F0F'		
2531	01	0090A	0000FFFF	A	DATA	X'FFFF'		
2532	01	0090B	0000FFFF	A	DATA	X'FFFF'		
2533	01	0090C	FFFFC824		DATA	MEMORY-X'3C3C'		
2534	01	0090D	FFFFC824		DATA	MEMORY-X'3C3C'		
2535	01	0090E	FFFFFFF6	A	LS05	DATA	-10	LS RE
2536	01	0090F	4AC00460		LS,12	MEMORY		

SIGMA 7 CPU DIAGNOSTIC-AUTB 704044-51800 MARCH 10,1969 74

2537	01	00910	2730013A		K	2,7,3,SETPSW		
2538	01	00911	1730016A		K	1,7,3,L8C+2		
2539	01	00912	C3C3C3C3	A	DATA	X'3C3C3C3C'		
2540	01	00913	F0F0C3C3	A	DATA	X'F0F0C3C3'		
2541	01	00914	F0F0F0F0	A	DATA	X'F0F0F0F0'		
2542	01	00915	F0F0F0F0	A	DATA	X'F0F0F0F0'		
2543	01	00916	FFFF0000	A	DATA	X'FFFFFF0000'		
2544	01	00917	FFFF0000	A	DATA	X'FFFFFF0000'		
2545	01	00918	FFFFFFF6	A	LS06	DATA	-10	LS RE
2546	01	00919	4AC00460		LS,12	MEMORY		
2547	01	0091A	F730013A		K	15,7,3,SETPSW		
2548	01	0091B	D730016A		K	13,7,3,L8C+2		
2549	01	0091C	C3C3C3C3	A	DATA	X'3C3C3C3C'		
2550	01	0091D	C3C3F0F0	A	DATA	X'3C3F0F0'		
2551	01	0091E	F0F0F0F0	A	DATA	X'F0F0F0F0'		
2552	01	0091F	F0F0F0F0	A	DATA	X'F0F0F0F0'		
2553	01	00920	0000FFFF	A	DATA	X'FFFF'		
2554	01	00921	0000FFFF	A	DATA	X'FFFF'		
2555					PAGE			
2556	01	00922	FFFFFFF6	A	LS07	DATA	-10	LS RE
2557	01	00923	4AC00460		LS,12	MEMORY		
2558	01	00924	1730013A		K	1,7,3,SETPSW		
2559	01	00925	2730016A		K	2,7,3,L8C+2		
2560	01	00926	C3C3C3C3	A	DATA	X'3C3C3C3C'		
2561	01	00927	0F0FC3C3	A	DATA	X'F0FC3C3'		
2562	01	00928	0F0F0F0F	A	DATA	X'F0F0F0F'		
2563	01	00929	0F0F0F0F	A	DATA	X'F0F0F0F'		
2564	01	0092A	FFFF0000	A	DATA	X'FFFFFF0000'		
2565	01	0092B	FFFF0000	A	DATA	X'FFFFFF0000'		
2566	01	0092C	FFFFFFF6	A	LS08	DATA	-10	LS RE
2567	01	0092D	4AC00460		LS,12	MEMORY		
2568	01	0092E	8730013A		K	8,7,3,SETPSW		
2569	01	0092F	9730016A		K	9,7,3,L8C+2		
2570	01	00930	C3C3C3C3	A	DATA	X'3C3C3C3C'		
2571	01	00931	C3C30F0F	A	DATA	X'3C30F0F'		
2572	01	00932	0F0F0F0F	A	DATA	X'F0F0F0F'		
2573	01	00933	0F0F0F0F	A	DATA	X'F0F0F0F'		

SIGMA 7 CPU DIAGNOSTIC-AUTB 704044-51800 MARCH 10, 1969 75

2574	01	00934	0000FFFF	A	DATA	X'FFFF'		
2575	01	00935	0000FFFF	A	DATA	X'FFFF'		
2576	01	00936	FFFFFFFFA	A	LS09	DATA	-6	LS RE
2577	01	00937	4AC00460		LS,12	MEMBRY		
2578	01	00938	F730013A		K	15,7,3,SETPSW		
2579	01	00939	D730016A		K	13,7,3,L8C+2		
2580	01	0093A	FFFFFFFF	A	DATA	-1		
2581	01	0093B	FFFFFFFF	A	DATA	-1		
2582	01	0093C	FFFFFFFF6	A	LS10	DATA	-10	LS R0
2583	01	0093D	4AD00460		LS,13	MEMBRY		
2584	01	0093E	1730013A		K	1,7,3,SETPSW		
2585	01	0093F	2730016A		K	2,7,3,L8C+2		
2586	01	00940	FFFFFFFF	A	DATA	-1		
2587	01	00941	FFFFFFFF	A	DATA	-1		
2588	01	00942	F0F0F0F0	A	DATA	X'F0F0F0F0'		
2589	01	00943	F0F0F0F0	A	DATA	X'F0F0F0F0'		
2590	01	00944	3C3C3C3C	A	DATA	X'3C3C3C3C'		
2591	01	00945	30303030	A	DATA	X'30303030'		
2592					PAGE			
2593	01	00946	FFFFFFFF6	A	LS11	DATA	-10	LS X R0
2594	01	00947	4AD3ADE8		LS,13	MEMBRY-X'5678',,1		
2595	01	00948	0730013A		K	0,7,3,SETPSW		
2596	01	00949	1730016A		K	1,7,3,L8C+2		
2597	01	0094A	12345678	A	DATA	X'12345678'		
2598	01	0094B	12345678	A	DATA	X'12345678'		
2599	01	0094C	F0F0F0F0	A	DATA	X'F0F0F0F0'		
2600	01	0094D	F0F0F0F0	A	DATA	X'F0F0F0F0'		
2601	01	0094E	C3C3C3C3	A	DATA	X'C3C3C3C3'		
2602	01	0094F	C0C0C0C0	A	DATA	X'C0C0C0C0'		
2603	01	00950	FFFFFFFF6	A	LS12	DATA	-10	LS * R0
2604	01	00951	CAD0045A		LS,13	*1A		
2605	01	00952	1730013A		K	1,7,3,SETPSW		
2606	01	00953	2730016A		K	2,7,3,L8C+2		
2607	01	00954	FFFFFFFF	A	DATA	-1		
2608	01	00955	FFFFFFFF	A	DATA	-1		
2609	01	00956	F0F0F0F0	A	DATA	X'F0F0F0F0'		
2610	01	00957	F0F0F0F0	A	DATA	X'F0F0F0F0'		

SIGMA 7 CPU DIAGNOSTIC-AUTB 704044-51800 MARCH 10, 1969 76

2611	01	00958	3C3C3C3C	A	DATA	X'3C3C3C3C'		
2612	01	00959	C0C0C0C0	A	DATA	X'C0C0C0C0'		
2613	01	0095A	FFFFFFFF4	A	LS13	DATA	-12	LS*X R0
2614	01	0095B	CAD20461		LS,13	*MEMBRY+1,1		
2615	01	0095C	1730013A		K	1,7,3,SETPSW		
2616	01	0095D	2730016A		K	2,7,3,L8C+2		
2617	01	0095E	00000464	- C	DATA	RETURN		
2618	01	0095F	00000464	-	DATA	RETURN		
2619	01	00960	F0F0F0F0	A	DATA	X'F0F0F0F0'		
2620	01	00961	F0F0F0F0	A	DATA	X'F0F0F0F0'		
2621	01	00962	C3C3C3C3	A	DATA	X'C3C3C3C3'		
2622	01	00963	03030303	A	DATA	X'30303030'		
2623	01	00964	FFFFFFFFC	A	DATA	MEMBRY-RETURN		
2624	01	00965	FFFFFFFFC	A	DATA	MEMBRY-RETURN		
2625					PAGE			
2626	01	00966	FFFFFFFF6	A	LS14	DATA	-10	LS R0=0
2627	01	00967	4AD00460		LS,13	MEMBRY		
2628	01	00968	3730013A		K	3,7,3,SETPSW		
2629	01	00969	0730016A		K	0,7,3,L8C+2		
2630	01	0096A	FFFFFFFF6	A	DATA	-10		
2631	01	0096B	FFFFFFFF6	A	DATA	-10		
2632	01	0096C	F0F0F0F0	A	DATA	X'F0F0F0F0'		
2633	01	0096D	F0F0F0F0	A	DATA	X'F0F0F0F0'		
2634	01	0096E	F0F0F0F0	A	DATA	X'F0F0F0F0'		
2635	01	0096F	00000000	A	DATA	0		
2636					PAGE			
2637	01	00970	FFFFFFFFA	A	LCF06	DATA	-6	LCF 3 X 10 INT0 E7 = 10 BYTE 1
2638	01	00971	70320041		LCF,3	BRANCH-6,1		
2639	01	00972	E730013A		K	14,7,3,SETPSW		
2640	01	00973	1730016A		K	1,7,3,L8C+2		
2641	01	00974	1117FF2D	A	DATA	X'1117FF2D'		
2642	01	00975	1117FF2D	A	DATA	X'1117FF2D'		
2643	01	00976	FFFFFFFF4	A	LCF07	DATA	-12	LCF 3 *X FF INT0 00 = F7 BYTE 3
2644	01	00977	F0320460		LCF,3	*MEMBRY,1		
2645	01	00978	0030013A		K	0,0,3,SETPSW		
2646	01	00979	F730016A		K	15,7,3,L8C+2		
2647	01	0097A	00000123		DATA	BA(BRANCH)+7		

2648	01	00978	00000123		DATA	BA(BRANCH)+7	
2649	01	0097C	00000419	A	DATA	MEMBRY+BRANCH	
2650	01	0097D	00000419	A	DATA	MEMBRY+BRANCH	
2651	01	0097E	4537FE21	A	DATA	X'4537FE21'	
2652	01	0097E	4537FE21	A	DATA	X'4537FE21'	
2653	01	00980	000000FF	A	DATA	X'FF'	
2654	01	00981	000000FF	A	DATA	X'FF'	
2655	01	00982	FFFFFFF8	A	DATA	-8	LCF 3 X 56 INTO A1 = 56 BYTE 2
2656	01	00983	7032011D	-	LCF,3	CLEAR,1	
2657	01	00984	A130013A		K	10,1,3,SETPSW	
2658	01	00985	5630016A		K	5,6,3,L8C+2	
2659	01	00986	00000DOE	A	DATA	4*(MEMBRY-CLEAR)+2	
2660	01	00987	00000DOE	A	DATA	4*(MEMBRY-CLEAR)+2	
2661	01	00988	12345678	A	DATA	X'12345678'	
2662	01	00989	12345678	A	DATA	X'12345678'	
2663	01	0098A	FFFFFFF8	A	DATA	-8	
2664	01	0098B	70C00480		LCF,12	MEMBRY	
2665	01	0098C	0000013A		K	0,0,0,SETPSW	
2666	01	0098D	0000016A		K	0,0,0,L8C+2	
2667	01	0098E	00000000	A	DATA	0,0,-1,-1	
		01	0098F	00000000	A		
		01	00990	FFFFFFF8	A		
		01	00991	FFFFFFF8	A		
2668					PAGE		
2669	01	00992	FFFFFFFC	A	LCFI01	DATA	-4
2670	01	00993	020000FF	A	LCFI,0	X'FF'	LCFI 0 FF INTO 00 IS 00
2671	01	00994	0000013A		DATA	SETPSW	
2672	01	00995	0000016A		DATA	L8C+2	
2673	01	00996	FFFFFFFC	A	LCFI02	DATA	-4
2674	01	00997	02300000	A	LCFI,3	0	LCFI 3 00 INTO F7 IS 00
2675	01	00998	F730013A		K	15,7,3,SETPSW	
2676	01	00999	0030016A		K	0,0,3,L8C+2	
2677	01	0099A	FFFFFFFC	A	LCFI03	DATA	-4
2678	01	0099B	02200057	A	LCFI,2	X'57'	LCFI 2 57 INTO A0 IS 50
2679	01	0099C	A020013A		K	10,0,2,SETPSW	
2680	01	0099D	5020016A		K	5,0,2,L8C+2	
2681	01	0099E	FFFFFFFC	A	LCFI04	DATA	-4

2682	01	0099F	021000D9	A	LCFI,1	X'D9'	
2683	01	009A0	2610013A		K	2,6,1,SETPSW	
2684	01	009A1	2110016A		K	2,1,1,L8C+2	
2685	01	009A2	FFFFFFF8	A	DATA	-8	LCFI 3 FF INTO 00 IS FF INDEX
2686	01	009A3	023000FF	A	LCFI,3	X'FF',1	
2687	01	009A4	0000013A		DATA	SETPSW	
2688	01	009A5	F700016A		K	15,7,0,L8C+2	
2689	01	009A6	12345678	A	DATA	X'12345678'	
2690	01	009A7	12345678	A	DATA	X'12345678'	
2691	01	009A8	9ABCDEFO	A	DATA	X'9ABCDEFO'	
2692	01	009A9	9ABCDEFO	A	DATA	X'9ABCDEFO'	
2693	01	009AA	FFFFFFFC	A	LCFI06	DATA	-4
2694	01	009AB	82300460		LCFI,3	*MEMBRY	LCFI *
2695	01	009AC	773001B3		K	7,7,3,SIGNAB	
2696	01	009AD	F730006B		K	15,7,3,NEIRET+1	
2697	01	009AE	FFFFFFFC	A	LCFI07	DATA	-4
2698	01	009AF	02120011	A	LCFI,1	X'20011'	
2699	01	009B0	8000013A		K	8,0,0,SETPSW	
2700	01	009B1	8100016A		K	8,1,0,L8C+2	
2701					PAGE		
2702	01	009B2	FFFFFFF8	A	LAW01	DATA	-8
2703	01	009B3	38C00480		LAW,12	MEMBRY	LAW
2704	01	009B4	F730013A		K	15,7,3,SETPSW	
2705	01	009B5	8730016A		K	8,7,3,L8C+2	
2706	01	009B6	FFFFFFF8	A	DATA	-1	
2707	01	009B7	00000000	A	DATA	0	
2708	01	009B8	00000000	A	DATA	0	
2709	01	009B9	00000000	A	DATA	0	
2710	01	009BA	FFFFFFF8	A	LAW02	DATA	-8
2711	01	009BB	38C20481		LAW,12	MEMBRY+1,1	LAW X
2712	01	009BC	1730013A		K	1,7,3,SETPSW	
2713	01	009BD	2730016A		K	2,7,3,L8C+2	
2714	01	009BE	FFFFFFF8	A	DATA	-1	
2715	01	009BF	00000001	A	DATA	1	
2716	01	009C0	FFFFFFF8	A	DATA	-1	
2717	01	009C1	FFFFFFF8	A	DATA	-1	
2718	01	009C2	FFFFFFF8	A	LAW03	DATA	-8

SIGMA 7 CPU DIAGNOSTIC-AUT8 704044-51800 MARCH 10,1969 79

2719	01	009C3	BBC0045A		LAW,12	*1A	
2720	01	009C4	3720013A		K	3,7,2,SETPSW	
2721	01	009C5	5720016A		K	5,7,2,L0C+2	
2722	01	009C6	7FFFFFFF A		DATA	X'7FFFFFFF'	
2723	01	009C7	80000000 A		DATA	X'80000000'	
2724	01	009C8	80000000 A		DATA	X'80000000'	
2725	01	009C9	80000000 A		DATA	X'80000000'	
2726	01	009CA	FFFFFFFF4 A	LAW04	DATA	-12	LAW *X 0F TRAP
2727	01	009CB	B8D20461		LAW,13	*MEMORY+1,1	
2728	01	009CC	F73001BF		K	15,7,3,FXP8SW	
2729	01	009CD	D7300084		K	13,7,3,FP0RET+1	
2730	01	009CE	0000046A		DATA	REPEAT	
2731	01	009CF	0000046A		DATA	REPEAT	
2732	01	009D0	80000000 A		DATA	X'80000000'	
2733	01	009D1	80000000 A		DATA	X'80000000'	
2734	01	009D2	F0BCA972 A		DATA	X'F0BCA972'	
2735	01	009D3	80000000 A		DATA	X'80000000'	
2736	01	009D4	FFFFFFFF6 A		DATA	MEMORY-REPEAT	
2737	01	009D5	FFFFFFFF6 A		DATA	MEMORY-REPEAT	
2738					PAGE		
2739	01	009D6	FFFFFFFFR A	LAW05	DATA	-8	LAW
2740	01	009D7	3RC00460		LAW,12	MEMORY	
2741	01	009D8	0730013A		K	0,7,3,SETPSW	
2742	01	009D9	2730016A		K	2,7,3,L0C+2	
2743	01	009DA	00000000 A		DATA	0	
2744	01	009DB	7FFFFFFF A		DATA	X'7FFFFFFF'	
2745	01	009DC	80000001 A		DATA	X'80000001'	
2746	01	009DD	80000001 A		DATA	X'80000001'	
2747	01	009DE	FFFFFFFF6 A	LAW06	DATA	-10	LAW FXP8 TRAP-- VERIFY TRAP ADDRESS SEE ALSO 'FXPSW2' IN DRIVER SECTION
2748	01	009DF	3BC00460		LAW,12	MEMORY	
2749	01	009E0	073001C2		K	0,7,3,FXPS2	
2750	01	009E1	5730009A		K	5,7,3,FXPS2+1	
2751	01	009E2	5A5A5A5A A		DATA	X'5A5A5A5A'	
2752	01	009E3	80000000 A		DATA	X'80000000'	
2753	01	009E4	80000000 A		DATA	X'80000000'	
2754	01	009E5	80000000 A		DATA	X'80000000'	
2755	01	009E6	FFFFFFFF A		DATA	X'FFFFFFFF'	

SIGMA 7 CPU DIAGNOSTIC-AUT8 704044-51800 MARCH 10,1969 80

2756	01	009E7	00000168		DATA	L0C	
2757					PAGE		
2758	01	009E8	FFFFFFFF8 A	LAH01	DATA	-8	LAH
2759	01	009E9	5RC00460		LAW,12	MEMORY	
2760	01	009EA	0730013A		K	0,7,3,SETPSW	
2761	01	009EB	2730016A		K	2,7,3,L0C+2	
2762	01	009EC	FFFFFFFF A		DATA	-1	
2763	01	009ED	00008000 A		DATA	X'8000'	
2764	01	009EE	8000FFFF A		DATA	X'8000FFFF'	
2765	01	009EF	8000FFFF A		DATA	X'8000FFFF'	
2766	01	009F0	FFFFFFFF8 A	LAH02	DATA	-8	LAH X
2767	01	009F1	58C3FFF6 A		LAW,12	MEMORY-REPEAT,1	
2768	01	009F2	3730013A		K	3,7,3,SETPSW	
2769	01	009F3	0730016A		K	0,7,3,L0C+2	
2770	01	009F4	000008D5		DATA	HA(REPEAT)+1	
2771	01	009F5	00000000 A		DATA	0	
2772	01	009F6	FFFF0000 A		DATA	X'FFFF0000'	
2773	01	009F7	FFFF0000 A		DATA	X'FFFF0000'	
2774	01	009F8	FFFFFFFF8 A	LAH03	DATA	-8	LAH 8
2775	01	009F9	D8C0045A		LAW,12	*1A	
2776	01	009FA	1730013A		K	1,7,3,SETPSW	
2777	01	009FB	2730016A		K	2,7,3,L0C+2	
2778	01	009FC	FFFFFFFF A		DATA	-1	
2779	01	009FD	00000001 A		DATA	1	
2780	01	009FE	FFFF0000 A		DATA	X'FFFF0000'	
2781	01	009FF	FFFF0000 A		DATA	X'FFFF0000'	
2782					PAGE		
2783	01	00A00	FFFFFFFF4 A	LAD01	DATA	-12	LAD RE
2784	01	00A01	18C00460		LAD,12	MEMORY	
2785	01	00A02	1730013A		K	1,7,3,SETPSW	
2786	01	00A03	2730016A		K	2,7,3,L0C+2	
2787	01	00A04	9ABCDEF0 A		DATA	X'9ABCDEF0'	
2788	01	00A05	7FFFFFFF A		DATA	X'7FFFFFFF'	
2789	01	00A06	80000000 A		DATA	X'80000000'	
2790	01	00A07	80000000 A		DATA	X'80000000'	
2791	01	00A08	12345678 A		DATA	X'12345678'	
2792	01	00A09	FFFFFFFF A		DATA	-1	

SIGMA 7 CPU DIAGNOSTIC-AUT8 704044-51800 MARCH 10,1969 81

2793	01	00A0A	00000001 A	DATA	1	
2794	01	00A0B	00000001 A	DATA	1	
2795	01	00A0C	FFFFFFFF4 A	LAD02	DATA	-12 LAD MB RE
2796	01	00A0D	18C00461	LAD,12	MEMORY+1	
2797	01	00A0E	3730013A	K	3,7,3,SETPSW	
2798	01	00A0F	0730016A	K	0,7,3,L8C+2	
2799	01	00A10	FFFFFFFF A	DATA	-1	
2800	01	00A11	00000000 A	DATA	0	
2801	01	00A12	00000000 A	DATA	0	
2802	01	00A13	00000000 A	DATA	0	
2803	01	00A14	FFFFFFFF A	DATA	-1	
2804	01	00A15	00008000 A	DATA	0	
2805	01	00A16	00000000 A	DATA	0	
2806	01	00A17	00000000 A	DATA	0	
2807	01	00A18	FFFFFFFF4 A	LAD03	DATA	-12 LAD X RE
2808	01	00A19	18C2046A	LAD,12	REPEAT,1	
2809	01	00A1A	3730013A	K	3,7,3,SETPSW	
2810	01	00A1B	2730016A	K	2,7,3,L8C+2	
2811	01	00A1C	FFFFFFFFB A	DATA	(MEMBRY+REPEAT)/2	
2812	01	00A1D	6789ABCD A	DATA	X'6789ABCD'	
2813	01	00A1E	98765432 A	DATA	X'98765432'	
2814	01	00A1F	98765432 A	DATA	X'98765432'	
2815	01	00A20	FFFFFFFF A	DATA	-1	
2816	01	00A21	EFO12346 A	DATA	X'EFO12346'	
2817	01	00A22	10FEDCBA A	DATA	X'10FEDCBA'	
2818	01	00A23	10FEDCBA A	DATA	X'10FEDCBA'	
2819				PAGE		
2820	01	00A24	FFFFFFFF4 A	LAD04	DATA	-12 LAD * RE OF NTRAP
2821	01	00A25	18C0046A	LAD,12	*1A	
2822	01	00A26	2720013A	K	2,7,2,SETPSW	
2823	01	00A27	5720016A	K	5,7,2,L8C+2	
2824	01	00A28	76543210 A	DATA	X'76543210'	
2825	01	00A29	80000000 A	DATA	X'80000000'	
2826	01	00A2A	80000000 A	DATA	X'80000000'	
2827	01	00A2B	80000000 A	DATA	X'80000000'	
2828	01	00A2C	12345678 A	DATA	X'12345678'	
2829	01	00A2D	00000000 A	DATA	0	

SIGMA 7 CPU DIAGNOSTIC-AUT8 704044-51800 MARCH 10,1969 82

2830	01	00A2E	00000000 A	DATA	0	
2831	01	00A2F	00000000 A	DATA	0	
2832	01	00A30	FFFFFFFF4 A	LAD05	DATA	-12 LAD RE OF TRAP
2833	01	00A31	18C00460	LAD,12	MEMORY	
2834	01	00A32	073001BF	K	0,7,3,FXP8SW	
2835	01	00A33	57300084	K	5,7,3,FP8RET+1	
2836	01	00A34	00000000 A	DATA	0	
2837	01	00A35	80000000 A	DATA	X'80000000'	
2838	01	00A36	80000000 A	DATA	X'80000000'	
2839	01	00A37	80000000 A	DATA	X'80000000'	
2840	01	00A38	FFFFFFFF A	DATA	-1	
2841	01	00A39	00000000 A	DATA	0	
2842	01	00A3A	00000000 A	DATA	0	
2843	01	00A3B	00000000 A	DATA	0	
2844	01	00A3C	FFFFFFFF4 A	LAD06	DATA	-12 LAD R8
2845	01	00A3D	18D00460	LAD,13	MEMORY	
2846	01	00A3E	B730013A	K	11,7,3,SETPSW	
2847	01	00A3F	A730016A	K	10,7,3,L8C+2	
2848	01	00A40	92345678 A	DATA	X'92345678'	
2849	01	00A41	92345678 A	DATA	X'92345678'	
2850	01	00A42	80000000 A	DATA	X'80000000'	
2851	01	00A43	80000000 A	DATA	X'80000000'	
2852	01	00A44	00BAD8ED A	DATA	X'00BAD8ED'	
2853	01	00A45	7FFFFFFFF A	DATA	X'7FFFFFFFF'	
2854	01	00A46	00000001 A	DATA	1	
2855	01	00A47	00000001 A	DATA	1	
2856				PAGE		
2857	01	00A48	FFFFFFFF4 A	LAD07	DATA	-12 LAD R8
2858	01	00A49	18D00460	LAD,13	MEMORY	
2859	01	00A4A	A730013A	K	10,7,3,SETPSW	
2860	01	00A4B	A730016A	K	10,7,3,L8C+2	
2861	01	00A4C	CCCCCCCC A	DATA	X'CCCCCCCC'	
2862	01	00A4D	CCCCCCCC A	DATA	X'CCCCCCCC'	
2863	01	00A4E	7FFFFFFFF A	DATA	X'7FFFFFFFF'	
2864	01	00A4F	7FFFFFFFF A	DATA	X'7FFFFFFFF'	
2865	01	00A50	BCDEF98 A	DATA	X'BCDEF98'	
2866	01	00A51	7FFFFFFFF A	DATA	X'7FFFFFFFF'	

SIGMA 7 CPU DIAGNOSTIC-AUTB 704044-51800 MARCH 10,1969 83

2867	01	00A52	FFFFFFFF	A		DATA	-1		
2868	01	00A53	FFFFFFFF	A		DATA	-1		
2869						PAGE			
2870	01	00A54	FFFFFFFF	A	LCW01	DATA	-8		LCW
2871	01	00A55	3AC00480			LCW,12	MEMORY		
2872	01	00A56	8730013A			K	8,7,3,SETPSW		
2873	01	00A57	9730016A			K	9,7,3,L8C+2		
2874	01	00A58	12345678	A		DATA	X'12345678'		
2875	01	00A59	E8CD431E	A		DATA	X'E8CD431E'		
2876	01	00A5A	17328CE2	A		DATA	X'17328CE2'		
2877	01	00A5B	17328CE2	A		DATA	X'17328CE2'		
2878	01	00A5C	FFFFFFFF	A	LCW02	DATA	-8		LCW OF NTRAP
2879	01	00A5D	3AC00480			LCW,12	MEMORY		
2880	01	00A5E	0720013A			K	0,7,2,SETPSW		
2881	01	00A5F	5720016A			K	5,7,2,L8C+2		
2882	01	00A60	7FFFFFFFF	A		DATA	X'7FFFFFFFF'		
2883	01	00A61	80000000	A		DATA	X'80000000'		
2884	01	00A62	80000000	A		DATA	X'80000000'		
2885	01	00A63	80000000	A		DATA	X'80000000'		
2886	01	00A64	FFFFFFFF	A	LCW03	DATA	-6		LCW REGISTER TO REGISTER
2887	01	00A65	3AC0000C	A		LCW,12	12		
2888	01	00A66	2730013A			K	2,7,3,SETPSW		
2889	01	00A67	1730016A			K	1,7,3,L8C+2		
2890	01	00A68	12345678	A		DATA	X'12345678'		
2891	01	00A69	E8CBA988	A		DATA	X'E8CBA988'		
2892	01	00A6A	FFFFFFFF	A	LCW04	DATA	-8		LCW X OF TRAP
2893	01	00A6B	3AC20464			LCW,12	RETURN,1		
2894	01	00A6C	F730018F			K	15,7,3,FXPSW		
2895	01	00A6D	D7300084			K	13,7,3,FPBRET+1		
2896	01	00A6E	FFFFFFFF	A		DATA	MEMORY-RETURN		
2897	01	00A6F	80000000	A		DATA	X'80000000'		
2898	01	00A70	80000000	A		DATA	X'80000000'		
2899	01	00A71	80000000	A		DATA	X'80000000'		
2900						PAGE			
2901	01	00A72	FFFFFFFF	A	LCW05	DATA	-8		LCW * ZERO
2902	01	00A73	BAC0045A			LCW,12	+1A		
2903	01	00A74	7730013A			K	7,7,3,SETPSW		

SIGMA 7 CPU DIAGNOSTIC-AUTB 704044-51800 MARCH 10,1969 84

2904	01	00A75	0730016A			K	0,7,3,L8C+2		
2905	01	00A76	FFFFFFFF	A		DATA	-1		
2906	01	00A77	00000000	A		DATA	0		
2907	01	00A78	00000000	A		DATA	0		
2908	01	00A79	00000000	A		DATA	0		
2909	01	00A7A	FFFFFFFF	A	LCW06	DATA	-8		LCW
2910	01	00A7B	3AC00480			LCW,12	MEMORY		
2911	01	00A7C	0730013A			K	0,7,3,SETPSW		
2912	01	00A7D	2730016A			K	2,7,3,L8C+2		
2913	01	00A7E	00000000	A		DATA	0		
2914	01	00A7F	7FFFFFFFF	A		DATA	X'7FFFFFFFF'		
2915	01	00A80	80000001	A		DATA	X'80000001'		
2916	01	00A81	80000001	A		DATA	X'80000001'		
2917						PAGE			
2918	01	00A82	FFFFFFFF	A	LCH01	DATA	-8		LCH ME
2919	01	00A83	5AC00460			LCH,12	MEMORY		
2920	01	00A84	0730013A			K	0,7,3,SETPSW		
2921	01	00A85	1730016A			K	1,7,3,L8C+2		
2922	01	00A86	FFFFFFFF	A		DATA	-1		
2923	01	00A87	FFFFFFEDCC	A		DATA	X'FFFFFFEDCC'		
2924	01	00A88	12345678	A		DATA	X'12345678'		
2925	01	00A89	12345678	A		DATA	X'12345678'		
2926	01	00A8A	FFFFFFFF	A	LCH02	DATA	-8		LCH X ME
2927	01	00A8B	5AC2046A			LCH,12	REPEAT,1		
2928	01	00A8C	0730013A			K	0,7,3,SETPSW		
2929	01	00A8D	2730016A			K	2,7,3,L8C+2		
2930	01	00A8E	FFFFFFFF	A		DATA	2*(MEMORY-REPEAT)		
2931	01	00A8F	0000789B	A		DATA	X'789B'		
2932	01	00A90	87654321	A		DATA	X'87654321'		
2933	01	00A91	87654321	A		DATA	X'87654321'		
2934	01	00A92	FFFFFFFF	A	LCH03	DATA	-8		LCH * ME
2935	01	00A93	DAC0045A			LCH,12	+1A		
2936	01	00A94	3730013A			K	3,7,3,SETPSW		
2937	01	00A95	0730016A			K	0,7,3,L8C+2		
2938	01	00A96	FFFFFFFF	A		DATA	-1		
2939	01	00A97	00000000	A		DATA	0		
2940	01	00A98	0000FFFF	A		DATA	X'FFFF'		

SIGMA 7 CPU DIAGNOSTIC-AUTB 704044-51800

MARCH 10, 1969

85

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2941 01 00A99 0000FFFF A DATA X'FFFF'
2942 01 00A9A FFFFFFFF8 A LCH04 DATA -8 LCH X M8
2943 01 00A9B 5AC20047 LCH,12 BRANCH,1
2944 01 00A9C 3730013A K 3,7,3,SETPSW
2945 01 00A9D 1730016A K 1,7,3,L8C+2
2946 01 00A9E 00008833 A DATA 2*(MEMBRY+BRANCH)+1
2947 01 00A9F FFFF89AC A DATA X'FFFF89AC'
2948 01 00AA0 FFFF7654 A DATA X'FFFF7654'
2949 01 00AA1 FFFF7654 A DATA X'FFFF7654'
2950 PAGE
2951 01 00AA2 FFFFFFFF8 A LCH05 DATA -8 LCH X M8
2952 01 00AA3 5AC2046A LCH,12 REPEAT,1
2953 01 00AA4 3730013A K 3,7,3,SETPSW
2954 01 00AA5 2730016A K 2,7,3,L8C+2
2955 01 00AA6 FFFFFFFED A DATA 2*(MEMBRY+REPEAT)+1
2956 01 00AA7 00007FFF A DATA X'7FFF'
2957 01 00AA8 00008001 A DATA X'8001'
2958 01 00AA9 00008001 A DATA X'8001'
2959 PAGE
2960 01 00AAA FFFFFFFF4 A LCD01 DATA -12 LCD RE
2961 01 00AAB 1AC00460 LCD,12 MEMBRY
2962 01 00AAC 1730013A K 1,7,3,SETPSW
2963 01 00AAD 2730016A K 2,7,3,L8C+2
2964 01 00AAE 88888888 A DATA X'88888888'
2965 01 00AAF 7FFFFFFF A DATA X'7FFFFFFF'
2966 01 00AB0 80000000 A DATA X'80000000'
2967 01 00AB1 80000000 A DATA X'80000000'
2968 01 00AB2 CCCCCCCC A DATA X'CCCCCCCC'
2969 01 00AB3 FFFFFFFF A DATA -1
2970 01 00AB4 00000001 A DATA 1
2971 01 00AB5 00000001 A DATA 1
2972 01 00AB6 FFFFFFFF4 A LCD02 DATA -12 LCD X RE
2973 01 00AB7 1AC2046A LCD,12 REPEAT,1
2974 01 00AB8 2730013A K 2,7,3,SETPSW
2975 01 00AB9 1730016A K 1,7,3,L8C+2
2976 01 00ABA FFFFFFFFB A DATA (MEMBRY+REPEAT)/2
2977 01 00ABB 80000000 A DATA X'80000000'
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SIGMA 7 CPU DIAGNOSTIC-AUTB 704044-51800

MARCH 10, 1969

86

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2978 01 00ABC 7FFFFFFF A DATA X'7FFFFFFF'
2979 01 00ABD 7FFFFFFF A DATA X'7FFFFFFF'
2980 01 00ABE 2347689E A DATA X'2347689E'
2981 01 00ABF 00000001 A DATA 1
2982 01 00AC0 FFFFFFFF A DATA -1
2983 01 00AC1 FFFFFFFF A DATA -1
2984 01 00AC2 FFFFFFFF4 A LCD03 DATA -12 LCD RE
2985 01 00AC3 9AC0045A LCD,12 +1A
2986 01 00AC4 3730013A K 3,7,3,SETPSW
2987 01 00AC5 0730016A K 0,7,3,L8C+2
2988 01 00AC6 FFFFFFFF A DATA -1
2989 01 00AC7 00000000 A DATA 0
2990 01 00AC8 00000000 A DATA 0
2991 01 00AC9 00000000 A DATA 0
2992 01 00ACA FFFFFFFF A DATA -1
2993 01 00ACB 00000000 A DATA 0
2994 01 00ACC 00000000 A DATA 0
2995 01 00ACD 00000000 A DATA 0
2996 PAGE
2997 01 00ACE FFFFFFFF4 A LCD04 DATA -12 LCD RE BF NTRAP
2998 01 00ACE 1AC00460 LCD,12 MEMBRY
2999 01 00AD0 2720013A K 2,7,2,SETPSW
3000 01 00AD1 5720016A K 5,7,2,L8C+2
3001 01 00AD2 FFFFFFFF A DATA -1
3002 01 00AD3 80000000 A DATA X'80000000'
3003 01 00AD4 80000000 A DATA X'80000000'
3004 01 00AD5 80000000 A DATA X'80000000'
3005 01 00AD6 FFFFFFFF A DATA -1
3006 01 00AD7 00000000 A DATA 0
3007 01 00AD8 00000000 A DATA 0
3008 01 00AD9 00000000 A DATA 0
3009 01 00ADA FFFFFFFF4 A LCD05 DATA -12 LCD R8 BF TRAP
3010 01 00ADB 1AD00460 LCD,13 MEMBRY
3011 01 00ADC 9730018F K 9,7,3,FXP8SW
3012 01 00ADD 07300084 K 13,7,3,FPBRET+1
3013 01 00ADE FEEDBEAD A DATA X'FEEDBEAD'
3014 01 00ADF FEEDBEAD A DATA X'FEEDBEAD'
```

3015	01	00AED	80000000	A		DATA	X'80000000'		
3016	01	00AE1	80000000	A		DATA	X'80000000'		
3017	01	00AE2	FFFFFFFF	A		DATA	-1		
3018	01	00AE3	80000000	A		DATA	X'80000000'		
3019	01	00AE4	00000000	A		DATA	0		
3020	01	00AE5	00000000	A		DATA	0		
3021	01	00AE6	FFFFFFFF	A	LCD06	DATA	-10	LCD	REGISTER TO REGISTER
3022	01	00AE7	1AC0000C	A		LCD,12	12		
3023	01	00AE8	F730013A	A		K	15,7,3,SETPSW		
3024	01	00AE9	A730016A	A		K	10,7,3,L8C+2		
3025	01	00AEA	FFFFFFFF	A		DATA	-1		
3026	01	00AEB	00000000	A		DATA	0		
3027	01	00AEC	00000000	A		DATA	0		
3028	01	00AED	00000000	A		DATA	0		
3029	01	00AEE	FFFFFFFF	A		DATA	-1		
3030	01	00AEF	00000001	A		DATA	1		
3031						PAGE			
3032	01	00AF0	FFFFFFFF	A	STW01	DATA	-8		STW
3033	01	00AF1	35C00460	A		STW,12	MEMORY		
3034	01	00AF2	2730013A	A		K	2,7,3,SETPSW		
3035	01	00AF3	2730016A	A		K	2,7,3,L8C+2		
3036	01	00AF4	FFFFFFFF	A		DATA	-1		
3037	01	00AF5	FFFFFFFF	A		DATA	-1		
3038	01	00AF6	00000000	A		DATA	0		
3039	01	00AF7	FFFFFFFF	A		DATA	-1		
3040	01	00AF8	FFFFFFFF	A	STW02	DATA	-8		STW X
3041	01	00AF9	35C2C459	A		STW,12	INST,1		
3042	01	00AFA	1730013A	A		K	1,7,3,SETPSW		
3043	01	00AFB	1730016A	A		K	1,7,3,L8C+2		
3044	01	00AFC	00000007	A		DATA	MEMORY-INST		
3045	01	00AFD	00000007	A		DATA	MEMORY-INST		
3046	01	00AFE	FFFFFFFF	A		DATA	-1		
3047	01	00AFF	00000007	A		DATA	MEMORY-INST		
3048	01	00B00	FFFFFFFF	A	STW03	DATA	-8		STW *
3049	01	00B01	B5C0045A	A		STW,12	*IA		
3050	01	00B02	3730013A	A		K	3,7,3,SETPSW		
3051	01	00B03	3730016A	A		K	3,7,3,L8C+2		

3052	01	00B04	00000000	A		DATA	0		
3053	01	00B05	00000000	A		DATA	0		
3054	01	00B06	FFFFFFFF	A		DATA	-1		
3055	01	00B07	00000000	A		DATA	0		
3056						PAGE			
3057	01	00B08	FFFFFFFF	A	STH01	DATA	-8		STH
3058	01	00B09	55C00460	A		STH,12	MEMORY		
3059	01	00B0A	F730013A	A		K	15,7,3,SETPSW		
3060	01	00B0B	B730016A	A		K	11,7,3,L8C+2		
3061	01	00B0C	FFFF8000	A		DATA	X'FFFF8000'		
3062	01	00B0D	FFFF8000	A		DATA	X'FFFF8000'		
3063	01	00B0E	FFFFFFFF	A		DATA	-1		
3064	01	00B0F	8000FFFF	A		DATA	X'8000FFFF'		
3065	01	00B10	FFFFFFFF	A	STH02	DATA	-8		STH X
3066	01	00B11	55C3C461	A		STH,12	MEMORY-X'3FFF',1		
3067	01	00B12	6730013A	A		K	6,7,3,SETPSW		
3068	01	00B13	2730016A	A		K	2,7,3,L8C+2		
3069	01	00B14	00007FFF	A		DATA	X'7FFF'		
3070	01	00B15	00007FFF	A		DATA	X'7FFF'		
3071	01	00B16	12345678	A		DATA	X'12345678'		
3072	01	00B17	12347FFF	A		DATA	X'12347FFF'		
3073	01	00B18	FFFFFFFF	A	STH03	DATA	-8		STH *
3074	01	00B19	D5C0045A	A		STH,12	*IA		
3075	01	00B1A	A730013A	A		K	10,7,3,SETPSW		
3076	01	00B1B	E730016A	A		K	14,7,3,L8C+2		
3077	01	00B1C	0000FFFF	A		DATA	X'FFFF'		
3078	01	00B1D	0000FFFF	A		DATA	X'FFFF'		
3079	01	00B1E	00000000	A		DATA	0		
3080	01	00B1F	FFFF0000	A		DATA	X'FFFF0000'		
3081	01	00B20	FFFFFFFF	A	STH04	DATA	-8		STH
3082	01	00B21	55C00460	A		STH,12	MEMORY		
3083	01	00B22	3730013A	A		K	3,7,3,SETPSW		
3084	01	00B23	7730016A	A		K	7,7,3,L8C+2		
3085	01	00B24	80001234	A		DATA	X'80001234'		
3086	01	00B25	80001234	A		DATA	X'80001234'		
3087	01	00B26	56781234	A		DATA	X'56781234'		
3088	01	00B27	12341234	A		DATA	X'12341234'		

3089					PAGE			
3090	01	00B28	FFFFFFF8 A	STH05	DATA	-8		STH
3091	01	00B29	55C00460		STH,12	MEMORY,7		
3092	01	00B2A	9730013A		K	9,7,3,SETPSW		
3093	01	00B2B	0730016A		K	13,7,3,L8C+2		
3094	01	00B2C	FFFEF379 A		DATA	X'FFFEF379'		
3098	01	00B2D	FFFEF379 A		DATA	X'FFFEF379'		
3096	01	00B2E	67921113 A		DATA	X'67921113'		
3097	01	00B2E	6792F379 A		DATA	X'6792F379'		
3098	01	00B30	FFFFFFF8 A	STH06	DATA	-8		STH
3099	01	00B31	55C00460		STH,12	MEMORY		
3100	01	00B32	0730013A		K	0,7,3,SETPSW		
3101	01	00B33	4730016A		K	4,7,3,L8C+2		
3102	01	00B34	7FFF1692 A		DATA	X'7FFF1692'		
3103	01	00B35	7FFF1692 A		DATA	X'7FFF1692'		
3104	01	00B36	00000000 A		DATA	0		
3105	01	00B37	16920000 A		DATA	X'16920000'		
3106					PAGE			
3107	01	00B38	FFFFFFF8 A	STB01	DATA	-8		STB BYTE 0
3108	01	00B39	75C00460		STB,12	MEMORY		
3109	01	00B3A	F730013A		K	15,7,3,SETPSW		
3110	01	00B3B	F730016A		K	15,7,3,L8C+2		
3111	01	00B3C	12345678 A		DATA	X'12345678'		
3112	01	00B3D	12345678 A		DATA	X'12345678'		
3113	01	00B3E	FFFFFFFF A		DATA	-1		
3114	01	00B3F	78FFFFFFF A		DATA	X'78FFFFFF'		
3115	01	00B40	FFFFFFF8 A	STB02	DATA	-8		STB X BYTE 1
3116	01	00B41	75C20440		STB,12	MEMORY-X'20',1		
3117	01	00B42	E730013A		K	14,7,3,SETPSW		
3118	01	00B43	E730016A		K	14,7,3,L8C+2		
3119	01	00B44	00000081 A		DATA	X'81'		
3120	01	00B45	00000081 A		DATA	X'81'		
3121	01	00B46	FFFFFFFF A		DATA	-1		
3122	01	00B47	FF81FFFFF A		DATA	X'FF81FFFF'		
3123	01	00B48	FFFFFFFF A	STB03	DATA	-6		STB X BYTE 2
3124	01	00B49	75C20048 A		STB,12	12-X'1FFC4',1		
3125	01	00B4A	0730013A		K	13,7,3,SETPSW		

3126	01	00B4B	0730016A		K	13,7,3,L8C+2		
3127	01	00B4C	FFFFFFFF12 A		DATA	X'FFFFFFFF12'		
3128	01	00B4D	FFFF1212 A		DATA	X'FFFF1212'		
3129	01	00B4E	FFFFFFF8 A	STB04	DATA	-8		STB BYTE 3
3130	01	00B4F	75C28FCB		STB,12	MEMORY-X'17495',1		
3131	01	00B50	C730013A		K	12,7,3,SETPSW		
3132	01	00B51	C730016A		K	12,7,3,L8C+2		
3133	01	00B52	63750257 A		DATA	X'63750257'		
3134	01	00B53	63750257 A		DATA	X'63750257'		
3135	01	00B54	FFFFFFFF A		DATA	-1		
3136	01	00B55	FFFFFFF57 A		DATA	X'FFFFFFF57'		
3137					PAGE			
3138	01	00B56	FFFFFFF8 A	STB05	DATA	-8		STB BYTE 0 ZERO
3139	01	00B57	F5C0045A		STB,12	+1A		
3140	01	00B58	F730013A		K	15,7,3,SETPSW		
3141	01	00B59	F730016A		K	15,7,3,L8C+2		
3142	01	00B5A	000000FF A		DATA	X'FF'		
3143	01	00B5B	000000FF A		DATA	X'FF'		
3144	01	00B5C	00000000 A		DATA	0		
3145	01	00B5D	FF000000 A		DATA	X'FF000000'		
3146					PAGE			
3147	01	00B5E	FFFFFFF4 A	STD01	DATA	-12		STD
3148	01	00B5F	15C00460		STD,12	MEMORY		
3149	01	00B60	B730013A		K	11,7,3,SETPSW		
3150	01	00B61	B730016A		K	11,7,3,L8C+2		
3151	01	00B62	80000000 A		DATA	X'80000000'		
3152	01	00B63	80000000 A		DATA	X'80000000'		
3153	01	00B64	7FFFFFFF A		DATA	X'7FFFFFFF'		
3154	01	00B65	80000000 A		DATA	X'80000000'		
3155	01	00B66	00000000 A		DATA	0		
3156	01	00B67	00000000 A		DATA	0		
3157	01	00B68	FFFFFFFF A		DATA	-1		
3158	01	00B69	00000000 A		DATA	0		
3159	01	00B6A	FFFFFFFF A	STD02	DATA	-12		STD X
3160	01	00B6B	15C2023C		STD,12	MEMORY-548,1		
3161	01	00B6C	A730013A		K	10,7,3,SETPSW		
3162	01	00B6D	A730016A		K	10,7,3,L8C+2		

SIGMA 7 CPU DIAGNOSTIC-AUT8 704044-51800 MARCH 10, 1969 91

3163	01	00B6E	00000112	A	DATA	274		
3164	01	00B6F	00000112	A	DATA	274		
3165	01	00B70	FFFFFFFF	A	DATA	-1		
3166	01	00B71	00000112	A	DATA	274		
3167	01	00B72	FFFFFFFF	A	DATA	-1		
3168	01	00B73	FFFFFFFF	A	DATA	-1		
3169	01	00B74	00000000	A	DATA	0		
3170	01	00B75	FFFFFFFF	A	DATA	-1		
3171	01	00B76	FFFFFFFF	A	DATA	-12	STD *	R0
3172	01	00B77	95D0045A	A	STD,13	*IA		
3173	01	00B78	9730013A	A	K	9,7,3,SETPSW		
3174	01	00B79	9730016A	A	K	9,7,3,L8C+2		
3175	01	00B7A	12345678	A	DATA	X'12345678'		
3176	01	00B7B	12345678	A	DATA	X'12345678'		
3177	01	00B7C	ECBD129E	A	DATA	X'ECBD129E'		
3178	01	00B7D	9ABCDEF0	A	DATA	X'9ABCDEF0'		
3179	01	00B7E	9ABCDEF0	A	DATA	X'9ABCDEF0'		
3180	01	00B7F	9ABCDEF0	A	DATA	X'9ABCDEF0'		
3181	01	00B80	56782349	A	DATA	X'56782349'		
3182	01	00B81	9ABCDEF0	A	DATA	X'9ABCDEF0'		
3183					PAGE			
3184	01	00B82	FFFFFFFF	A	DATA	-12	STD	M0
3185	01	00B83	15C00461	A	STD,12	MEMORY+1		
3186	01	00B84	8730013A	A	K	8,7,3,SETPSW		
3187	01	00B85	8730016A	A	K	8,7,3,L8C+2		
3188	01	00B86	00000000	A	DATA	0		
3189	01	00B87	00000000	A	DATA	0		
3190	01	00B88	FFFFFFFF	A	DATA	-1		
3191	01	00B89	00000000	A	DATA	0		
3192	01	00B8A	00000001	A	DATA	1		
3193	01	00B8B	00000001	A	DATA	1		
3194	01	00B8C	FFFFFFFFE	A	DATA	-2		
3195	01	00B8D	00000001	A	DATA	1		
3196					PAGE			
3197	01	00B8E	FFFFFFFF	A	DATA	-10	STS	
3198	01	00B8F	47C00460	A	STS,12	MEMORY		
3199	01	00B90	0730013A	A	K	0,7,3,SETPSW		

SIGMA 7 CPU DIAGNOSTIC-AUT8 704044-51800 MARCH 10, 1969 92

3200	01	00B91	0730016A	A	K	0,7,3,L8C+2		
3201	01	00B92	0F0F0F0F	A	DATA	X'0F0F0F0F'		
3202	01	00B93	0F0F0F0F	A	DATA	X'0F0F0F0F'		
3203	01	00B94	55555555	A	DATA	X'55555555'		
3204	01	00B95	47474747	A	DATA	X'47474747'		
3205	01	00B96	33333333	A	DATA	X'33333333'		
3206	01	00B97	33333333	A	DATA	X'33333333'		
3207	01	00B98	FFFFFFFF	A	DATA	-10	STS X	
3208	01	00B99	47C3E642	A	STS,12	MEMORY-X'1E1E1E',1		
3209	01	00BA0	1730013A	A	K	1,7,3,SETPSW		
3210	01	00BA1	1730016A	A	K	1,7,3,L8C+2		
3211	01	00BA2	1E1E1E1E	A	DATA	X'1E1E1E1E'		
3212	01	00BA3	1E1E1E1E	A	DATA	X'1E1E1E1E'		
3213	01	00BA4	AAAAAAAA	A	DATA	X'AAAAAAAA'		
3214	01	00BA5	8E8E8E8E	A	DATA	X'8E8E8E8E'		
3215	01	00BA6	66666666	A	DATA	X'66666666'		
3216	01	00BA7	66666666	A	DATA	X'66666666'		
3217	01	00BA8	FFFFFFFF	A	DATA	-10	STS	
3218	01	00BA9	47C00460	A	STS,12	MEMORY		
3219	01	00BA0	2730013A	A	K	2,7,3,SETPSW		
3220	01	00BA1	2730016A	A	K	2,7,3,L8C+2		
3221	01	00BA2	3C3C3C3C	A	DATA	X'3C3C3C3C'		
3222	01	00BA3	3C3C3C3C	A	DATA	X'3C3C3C3C'		
3223	01	00BA4	55555555	A	DATA	X'55555555'		
3224	01	00BA5	1D1D1D1D	A	DATA	X'1D1D1D1D'		
3225	01	00BA6	CCCCCCCC	A	DATA	X'CCCCCCCC'		
3226	01	00BA7	CCCCCCCC	A	DATA	X'CCCCCCCC'		
3227					PAGE			
3228	01	00BA8	FFFFFFFF	A	DATA	-10	STS	
3229	01	00BA9	47C00460	A	STS,12	MEMORY		
3230	01	00BA0	3630013A	A	K	3,6,3,SETPSW		
3231	01	00BA1	3630016A	A	K	3,6,3,L8C+2		
3232	01	00BA2	78787878	A	DATA	X'78787878'		
3233	01	00BA3	78787878	A	DATA	X'78787878'		
3234	01	00BA4	AAAAAAAA	A	DATA	X'AAAAAAAA'		
3235	01	00BA5	3A3A3A3A	A	DATA	X'3A3A3A3A'		
3236	01	00BA6	99999999	A	DATA	X'99999999'		

SIGMA 7 CPU DIAGNOSTIC-AUTO 704044-51800 MARCH 10, 1969 93

3237	01	00BB5	99999999	A	DATA	X'99999999'		
3238	01	00BB6	FFFFFFF6	A STS05	DATA	-10		STS
3239	01	00BB7	47C00460		STS,12	MEMORY		
3240	01	00BB8	4530013A		K	4,5,3,SETPSW		
3241	01	00BB9	4530016A		K	4,5,3,L0C+2		
3242	01	00BBA	F0F0F0F0	A	DATA	X'F0F0F0F0'		
3243	01	00BBB	F0F0F0F0	A	DATA	X'F0F0F0F0'		
3244	01	00BBC	55555555	A	DATA	X'55555555'		
3245	01	00BBD	74747474	A	DATA	X'74747474'		
3246	01	00BBE	33333333	A	DATA	X'33333333'		
3247	01	00BBF	33333333	A	DATA	X'33333333'		
3248	01	00BC0	FFFFFFF6	A STS06	DATA	-10		STS
3249	01	00BC1	47C00460		STS,12	MEMORY		
3250	01	00BC2	5430013A		K	5,4,3,SETPSW		
3251	01	00BC3	5430016A		K	5,4,3,L0C+2		
3252	01	00BC4	E1E1E1E1	A	DATA	X'E1E1E1E1'		
3253	01	00BC5	E1E1E1E1	A	DATA	X'E1E1E1E1'		
3254	01	00BC6	AAAAAAAAAA	A	DATA	X'AAAAAAAAAA'		
3255	01	00BC7	E8E8E8E8	A	DATA	X'E8E8E8E8'		
3256	01	00BC8	66666666	A	DATA	X'66666666'		
3257	01	00BC9	66666666	A	DATA	X'66666666'		
3258					PAGE			
3259	01	00BCA	FFFFFFF6	A STS07	DATA	-10		STS
3260	01	00BCB	47C00460		STS,12	MEMORY		
3261	01	00BCC	6330013A		K	6,3,3,SETPSW		
3262	01	00BCD	6330016A		K	6,3,3,L0C+2		
3263	01	00BCE	C3C3C3C3	A	DATA	X'C3C3C3C3'		
3264	01	00BCF	C3C3C3C3	A	DATA	X'C3C3C3C3'		
3265	01	00BD0	55555555	A	DATA	X'55555555'		
3266	01	00BD1	D1D1D1D1	A	DATA	X'D1D1D1D1'		
3267	01	00BD2	CCCCCCCC	A	DATA	X'CCCCCCCC'		
3268	01	00BD3	CCCCCCCC	A	DATA	X'CCCCCCCC'		
3269	01	00BD4	FFFFFFF6	A STS08	DATA	-10		STS
3270	01	00BD5	47C00460		STS,12	MEMORY		
3271	01	00BD6	7230013A		K	7,2,3,SETPSW		
3272	01	00BD7	7230016A		K	7,2,3,L0C+2		
3273	01	00BD8	87878787	A <i>R. aw</i>	DATA	X'87878787'		

SIGMA 7 CPU DIAGNOSTIC-AUTO 704044-51800 MARCH 10, 1969 94

3274	01	00BD9	87878787	A <i>Kap</i>	DATA	X'87878787'		
3275	01	00BDA	AAAAAAAAAA	A <i>K. aw</i>	DATA	X'AAAAAAAAAA'		
3276	01	00BDB	A3A3A3A3	A	DATA	X'A3A3A3A3'		
3277	01	00BDC	99999999	A <i>R+1 aw</i>	DATA	X'99999999'		
3278	01	00BDD	99999999	A <i>R+1 aw</i>	DATA	X'99999999'		
3279	01	00BDE	FFFFFFF6	A STS09	DATA	-10		STS RO
3280	01	00BDF	47D00460		STS,13	MEMORY		
3281	01	00BE0	8130013A		K	8,1,3,SETPSW		
3282	01	00BE1	8130016A		K	8,1,3,L0C+2		
3283	01	00BE2	FABADDED	A	DATA	X'FABADDED'		
3284	01	00BE3	FABADDED	A	DATA	X'FABADDED'		
3285	01	00BE4	12345678	A	DATA	X'12345678'		
3286	01	00BE5	FF35777D	A	DATA	X'FF35777D'		
3287	01	00BE6	EF012345	A	DATA	X'EF012345'		
3288	01	00BE7	EF012345	A	DATA	X'EF012345'		
3289					PAGE			
3290	01	00BE8	FFFFFFF6	A STS10	DATA	-10		STS REGISTER TO REGISTER
3291	01	00BE9	47C0000C	A	STS,12	12		
3292	01	00BEA	9030013A		K	9,0,3,SETPSW		
3293	01	00BEB	9030016A		K	9,0,3,L0C+2		
3294	01	00BEC	78787878	A	DATA	X'78787878'		
3295	01	00BED	78787878	A	DATA	X'78787878'		
3296	01	00BEE	FFFFFFF6	A	DATA	-1		
3297	01	00BEF	FFFFFFF6	A	DATA	-1		
3298	01	00BF0	3C3C3C3C	A	DATA	X'3C3C3C3C'		
3299	01	00BF1	3C3C3C3C	A	DATA	X'3C3C3C3C'		
3300					PAGE			
3301	01	00BF2	FFFFFFF8	A STCF01	DATA	-8		STFC BYTE 0
3302	01	00BF3	74000460		STCF,0	MEMORY		
3303	01	00BF4	F730013A		K	15,7,3,SETPSW		
3304	01	00BF5	F730016A		K	15,7,3,L0C+2		
3305	01	00BF6	00000000	A	DATA	0		
3306	01	00BF7	00000000	A	DATA	0		
3307	01	00BF8	00000000	A	DATA	0		
3308	01	00BF9	F7000000	A	DATA	X'F7000000'		
3309	01	00BFA	FFFFFFF8	A STCF02	DATA	-8		STFC X BYTE 1
3310	01	00BFB	74F2006A		STCF,15	NEIRET,1		

SIGMA 7 CPU DIAGNOSTIC-AUTO 704044-51800 MARCH 10,1969 95

3311	01	00BFC	E620013A		K	14,6,2,SETPSW		
3312	01	00BFD	E620016A		K	14,6,2,L8C+2		
3313	01	00BFE	00000F09 A		DATA	4*(MEMORY-NEIRET)+1		
3314	01	00BFF	00000F09 A		DATA	4*(MEMORY-NEIRET)+1		
3315	01	00C00	00000000 A		DATA	0		
3316	01	00C01	00E60000 A		DATA	X'E60000'		
3317	01	00C02	FFFFFFFF8 A	STCF03	DATA	-8	STFC *X	BYTE 2
3318	01	00C03	F432045A		STCF,3	*IA,1		
3319	01	00C04	D530013A		K	13,5,3,SETPSW		
3320	01	00C05	D530016A		K	13,5,3,L8C+2		
3321	01	00C06	00000002 A		DATA	2		
3322	01	00C07	00000002 A		DATA	2		
3323	01	00C08	FFFFFFFF A		DATA	-1		
3324	01	00C09	FFFFFFD5FF A		DATA	X'FFFFFFD5FF'		
3325	01	00C0A	FFFFFFFF8 A	STCF04	DATA	-8	STCF X	BYTE 3
3326	01	00C0B	74120460		STCF,1	MEMORY,1		
3327	01	00C0C	3430013A		K	3,4,3,SETPSW		
3328	01	00C0D	3430016A		K	3,4,3,L8C+2		
3329	01	00C0E	00000003 A		DATA	3		
3330	01	00C0F	00000003 A		DATA	3		
3331	01	00C10	FFFFFFFF A		DATA	-1		
3332	01	00C11	FFFFFFFF34 A		DATA	X'FFFFFFFF34'		
3333					PAGE			
3334	01	00C12	FFFFFFFF8 A	XW01	DATA	-8	XW RESULT IN R IS ZERO	
3335	01	00C13	46C00460		XW,12	MEMORY		
3336	01	00C14	F730013A		K	15,7,3,SETPSW		
3337	01	00C15	C730016A		K	12,7,3,L8C+2		
3338	01	00C16	FFFFFFFF A		DATA	-1		
3339	01	00C17	00000000 A		DATA	0		
3340	01	00C18	00000000 A		DATA	0		
3341	01	00C19	FFFFFFFF A		DATA	-1		
3342	01	00C1A	FFFFFFFF8 A	XW02	DATA	-8	XW RESULT IN R IS P8S	
3343	01	00C1B	46C2046A		XW,12	REPEAT,1		
3344	01	00C1C	3730013A		K	3,7,3,SETPSW		
3345	01	00C1D	2730016A		K	2,7,3,L8C+2		
3346	01	00C1E	FFFFFFFF6 A		DATA	MEMORY-REPEAT		
3347	01	00C1F	7FFFFFFFF A		DATA	X'7FFFFFFFF'		

SIGMA 7 CPU DIAGNOSTIC-AUTO 704044-51800 MARCH 10,1969 96

3348	01	00C20	7FFFFFFFF A		DATA	X'7FFFFFFFF'		
3349	01	00C21	FFFFFFFF6 A		DATA	MEMORY-REPEAT		
3350	01	00C22	FFFFFFFF8 A	XW03	DATA	-8	XW RESULT IN R IS NEG	
3351	01	00C23	C6C0045A		XW,12	*IA		
3352	01	00C24	2730013A		K	2,7,3,SETPSW		
3353	01	00C25	1730016A		K	1,7,3,L8C+2		
3354	01	00C26	00000000 A		DATA	0		
3355	01	00C27	FFFFFFFF A		DATA	-1		
3356	01	00C28	FFFFFFFF A		DATA	-1		
3357	01	00C29	00000000 A		DATA	0		
3358	01	00C2A	FFFFFFFF6 A	XW04	DATA	-10	XW REGISTER TO REGISTER. RESULT NEG.	
3359	01	00C2B	46C0000D A		XW,12	13		
3360	01	00C2C	0730013A		K	0,7,3,SETPSW		
3361	01	00C2D	1730016A		K	1,7,3,L8C+2		
3362	01	00C2E	00000001 A		DATA	1		
3363	01	00C2F	FFFFFFFF A		DATA	-1		
3364	01	00C30	00000000 A		DATA	0		
3365	01	00C31	00000000 A		DATA	0		
3366	01	00C32	FFFFFFFF A		DATA	-1		
3367	01	00C33	00000001 A		DATA	1		
3368					PAGE			
3369	01	00C34	FFFFFFFF6 A	INT01	DATA	-10	INT *	
3370	01	00C35	68C00460		INT,12	MEMORY		
3371	01	00C36	7730013A		K	7,7,3,SETPSW		
3372	01	00C37	1730016A		K	1,7,3,L8C+2		
3373	01	00C38	FFFFFFFF A		DATA	-1		
3374	01	00C39	00000234 A		DATA	X'234'		
3375	01	00C3A	12345678 A		DATA	X'12345678'		
3376	01	00C3B	12345678 A		DATA	X'12345678'		
3377	01	00C3C	FFFFFFFF A		DATA	-1		
3378	01	00C3D	00005678 A		DATA	X'5678'		
3379	01	00C3E	FFFFFFFF6 A	INT02	DATA	-10	INT X	
3380	01	00C3F	68C201AB		INT,12	END,1		
3381	01	00C40	0730013A		K	0,7,3,SETPSW		
3382	01	00C41	F730016A		K	15,7,3,L8C+2		
3383	01	00C42	00000285 A		DATA	MEMORY-END		
3384	01	00C43	00000EDC A		DATA	X'EDC'		

BIGMA 7 CPU DIAGNOSTIC-AUTB 706044-51800 MARCH 10,1969 97

3385	01	00C44	FE00013A	A	DATA	X'FE00013A'		
3386	01	00C45	FE00013A	A	DATA	X'FE00013A'		
3387	01	00C46	1200013A	A	DATA	X'1200013A'		
3388	01	00C47	0000013A	A	DATA	X'0000013A'		
3389	01	00C48	FFFFFFFF	A	DATA	-10	INT * R0	
3390	01	00C49	EB00013A	A	INT,13	*IA		
3391	01	00C4A	7730013A	A	K	7,7,3,SETPSW		
3392	01	00C4B	8730016A	A	K	8,7,3,L0C+2		
3393	01	00C4C	FFFFFFFF	A	DATA	-1		
3394	01	00C4D	FFFFFFFF	A	DATA	-1		
3395	01	00C4E	89ABCDEF	A	DATA	X'89ABCDEF'		
3396	01	00C4F	89ABCDEF	A	DATA	X'89ABCDEF'		
3397	01	00C50	FFFFFFFF	A	DATA	-1		
3398	01	00C51	00000DEF	A	DATA	X'00000DEF'		
3399					PAGE			
3400	01	00C52	FFFFFFFF	A	DATA	-12	ANALYZE--	AD *IA
3401	01	00C53	44000460	A	ANLZ,13	MEMORY		
3402	01	00C54	0730013A	A	K	0,7,3,SETPSW		
3403	01	00C55	E730016A	A	K	14,7,3,L0C+2		
3404	01	00C56	FFFFFFFF	A	DATA	X'FFFFFFFF'		
3405	01	00C57	FFFFFFFF	A	DATA	X'FFFFFFFF'		
3406	01	00C58	9000046A	A	AD,12	*IA		
3407	01	00C59	8000046A	A	AD,12	*IA		
3408	01	00C5A	55555555	A	DATA	X'55555555'		
3409	01	00C5B	00000200	A	DATA	DA(MEMORY)		
3410	01	00C5C	CCCCCCCC	A	DATA	X'CCCCCCCC'		
3411	01	00C5D	CCCCCCCC	A	DATA	X'CCCCCCCC'		
3412	01	00C5E	FFFFFFFF	A	DATA	-12	ANALYZE--	SW
3413	01	00C5F	44000460	A	ANLZ,12	MEMORY		
3414	01	00C60	B730013A	A	K	11,7,3,SETPSW		
3415	01	00C61	8730016A	A	K	8,7,3,L0C+2		
3416	01	00C62	33333333	A	DATA	X'33333333'		
3417	01	00C63	00000460	A	DATA	MEMORY		
3418	01	00C64	38000460	A	SW,12	MEMORY		
3419	01	00C65	38000460	A	SW,12	MEMORY		
3420	01	00C66	22222222	A	DATA	X'22222222'		
3421	01	00C67	22222222	A	DATA	X'22222222'		

BIGMA 7 CPU DIAGNOSTIC-AUTB 704044-51800 MARCH 10,1969 98

3422	01	00C68	DDDDDDDD	A	DATA	X'DDDDDDDD'		
3423	01	00C69	DDDDDDDD	A	DATA	X'DDDDDDDD'		
3424	01	00C6A	FFFFFFFF	A	DATA	-12	ANALYZE--	CB
3425	01	00C6B	44000460	A	ANLZ,12	MEMORY		
3426	01	00C6C	F730013A	A	K	15,7,3,SETPSW		
3427	01	00C6D	0730016A	A	K	0,7,3,L0C+2		
3428	01	00C6E	00000000	A	DATA	0		
3429	01	00C6F	00001185	A	DATA	BA(MEMORY+1)+1		
3430	01	00C70	71DE0461	A	CB,13	MEMBRY+1,7		
3431	01	00C71	71DE0461	A	CB,13	MEMBRY+1,7		
3432	01	00C72	00000036	A	DATA	X'36'		
3433	01	00C73	00000036	A	DATA	X'36'		
3434	01	00C74	00003600	A	DATA	X'3600'		
3435	01	00C75	00003600	A	DATA	X'3600'		
3436	01	00C76	FFFFFFFF	A	DATA	-12	ANALYZE--	AD IX
3437	01	00C77	44000461	A	ANLZ,13	MEMORY+1		
3438	01	00C78	6730013A	A	K	6,7,3,SETPSW		
3439	01	00C79	C730016A	A	K	12,7,3,L0C+2		
3440	01	00C7A	00000000	A	DATA	0,0		
3441	01	00C7C	99999999	A	DATA	X'99999999'		
3442	01	00C7D	99999999	A	DATA	X'99999999'		
3443	01	00C7E	FFFFFFFF	A	DATA	X'FFFFFFFF'		
3444	01	00C7F	0000231	A	DATA	DA(MEMORY)+1		
3445	01	00C80	10CE0460	A	AD,12	MEMBRY,7		
3446	01	00C81	10CE0460	A	AD,12	MEMBRY,7		
3447	01	00C82	FFFFFFFF	A	DATA	-12	ANALYZE--	AI X'666666'
3448	01	00C83	44000460	A	ANLZ,12	MEMORY		
3449	01	00C84	F730013A	A	K	15,7,3,SETPSW		
3450	01	00C85	9730016A	A	K	9,7,3,L0C+2		
3451	01	00C86	19999999	A	DATA	X'19999999'		
3452	01	00C87	19999999	A	DATA	X'19999999'		
3453	01	00C88	20C66666	A	AI,12	X'666666'		
3454	01	00C89	20C66666	A	AI,12	X'666666'		
3455	01	00C8A	55555555	A	DATA	X'55555555'		
3456	01	00C8B	55555555	A	DATA	X'55555555'		
3457	01	00C8C	AAAAAAAA	A	DATA	X'AAAAAAAA'		

SIGMA 7 CPU DIAGNOSTIC-AUT8 704044-51800 MARCH 10,1969 99

3458	01	00C8D	AAAAAAAA	A		DATA	X'AAAAAAAA'		
3459	01	00C8E	FFFFFFF4	A	ANLZ06	DATA	-12		ANALYZE-- MH MEMORY+1
3460	01	00C8F	44C00460			ANLZ,12	MEMORY		
3461	01	00C90	F730013A			K	15,7,3,SETPSW		
3462	01	00C91	4730016A			K	4,7,3,L8C+2		
3463	01	00C92	00004444	A		DATA	X'4444'		
3464	01	00C93	000008C2			DATA	HA(MEMORY+1)		
3465	01	00C94	57000461			MH,13	MEMORY+1		
3466	01	00C95	57000461			MH,13	MEMORY+1		
3467	01	00C96	88888888	A		DATA	X'88888888'		
3468	01	00C97	88888888	A		DATA	X'88888888'		
3469	01	00C98	22222222	A		DATA	X'22222222'		
3470	01	00C99	22222222	A		DATA	X'22222222'		
3471						PAGE			
3472	01	00C9A	FFFFFFF4	A	ANLZ07	DATA	-12		ILLEGAL 0P CODE 03-- IMMEDIATE ADDRESS TYPE
3473	01	00C9B	44C00460			ANLZ,12	MEMORY		
3474	01	00C9C	0730013A			K	0,7,3,SETPSW		
3475	01	00C9D	9730016A			K	9,7,3,L8C+2		
3476	01	00C9E	00000000	A		DATA	0,0		
3477	01	00CA0	03000461			DATA	X'03000000'+MEMORY+1		
3478	01	00CA1	03000461			DATA	X'03000000'+MEMORY+1		
3479	01	00CA2	00000000	A		DATA	0,0		
3480	01	00CA3	00000000	A					
3481	01	00CA4	55555555	A		DATA	X'55555555'		
3482	01	00CA5	55555555	A		DATA	X'55555555'		
3483	01	00CA6	FFFFFFF4	A	ANLZ08	DATA	-12		ILLEGAL 0P CODE 54
3484	01	00CA7	44C00460			ANLZ,13	MEMORY		
3485	01	00CA8	8730013A			K	11,7,3,SETPSW		
3486	01	00CA9	4730016A			K	4,7,3,L8C+2		
3487	01	00CAA	FFFFFFF4	A		DATA	X'FFFFFFF4'		
3488	01	00CAB	FFFFFFF4	A		DATA	X'FFFFFFF4'		
3489	01	00CAC	54000463			DATA	X'54000000'+MEMORY+3		
3490	01	00CAD	54000463			DATA	X'54000000'+MEMORY+3		
3491	01	00CAE	11111111	A		DATA	X'11111111'		
3492	01	00CAF	000008C6			DATA	HA(MEMORY+3)		
3493	01	00CB0	00000000	A		DATA	0,0		

SIGMA 7 CPU DIAGNOSTIC-AUT8 704044-51800 MARCH 10,1969 100

3493	01	00CB1	00000000	A					
3494	01	00CB2	FFFFFFF4	A	ANLZ09	DATA	-12		ANALYZE-- LRP
3495	01	00CB3	44C00460			ANLZ,12	MEMORY		
3496	01	00CB4	0730013A			K	0,7,3,SETPSW		
3497	01	00CB5	8730016A			K	8,7,3,L8C+2		
3498	01	00CB6	66666666	A		DATA	X'66666666'		
3499	01	00CB7	00000461			DATA	MEMORY+1		
3500	01	00CB8	2F000461			LRP	MEMORY+1		
3501	01	00CBA	00000000	A		LRP	MEMORY+1		
3502	01	00CBB	00000000	A		DATA	0,0		
3503	01	00CBC	00000180	A		DATA	X'180'		
3504	01	00CBD	00000180	A		DATA	X'180'		
3505	01	00CBE	FFFFFFF8	A	AND01	PAGE			
3506	01	00CBF	48C0046C			DATA	-8		AND 0+0=0,1
3507	01	00CC0	3730013A			AND,12	MEMORY		
3508	01	00CC1	0730016A			K	3,7,3,SETPSW		
3509	01	00CC2	00000000	A		K	0,7,3,L8C+2		
3510	01	00CC3	00000000	A		DATA	0		
3511	01	00CC4	00000000	A		DATA	0		
3512	01	00CC5	00000000	A		DATA	0		
3513	01	00CC6	FFFFFFF8	A	AND02	DATA	-8		AND X
3514	01	00CC7	48C33794			AND,12	MEMORY=X'CCCC',1		
3515	01	00CC8	7730013A			K	7,7,3,SETPSW		
3516	01	00CC9	5730016A			K	5,7,3,L8C+2		
3517	01	00CCA	CCCCCCCC	A		DATA	X'CCCCCCCC'		
3518	01	00CCB	88888888	A		DATA	X'88888888'		
3519	01	00CCC	AAAAAAAA	A		DATA	X'AAAAAAAA'		
3520	01	00CCD	AAAAAAAA	A		DATA	X'AAAAAAAA'		
3521	01	00CCE	FFFFFFF8	A	AND03	DATA	-8		AND *
3522	01	00CCF	C8C0045A			AND,12	*1A		
3523	01	00CD0	0730013A			K	0,7,3,SETPSW		
3524	01	00CD1	2730016A			K	2,7,3,L8C+2		
3525	01	00CD2	99999999	A		DATA	X'99999999'		
3526	01	00CD3	11111111	A		DATA	X'11111111'		
3527	01	00CD4	55555555	A		DATA	X'55555555'		

SIGMA 7 CPU DIAGNOSTIC-AUT8 704044-51B00 MARCH 10, 1969 101

3528	01	00CD5	55555555 A		DATA	X'55555555'	
3529	01	00CD6	FFFFFFFF8 A	AND04	DATA	-8	AND
3530	01	00CD7	4BC00460		AND,12	MEMORY	
3531	01	00CD8	3730013A		K	3,7,3,SETPSW	
3532	01	00CD9	2730016A		K	2,7,3,LBC+2	
3533	01	00CDA	33333333 A		DATA	X'33333333'	
3534	01	00CDB	22222222 A		DATA	X'22222222'	
3535	01	00CDC	AAAAAAAA A		DATA	X'AAAAAAAA'	
3536	01	00CDD	AAAAAAAA A		DATA	X'AAAAAAAA'	
3537					PAGE		
3538	01	00CDE	FFFFFFFF8 A	AND05	DATA	-8	AND
3539	01	00CDE	4BC00460		AND,12	MEMORY	
3540	01	00CE0	F730013A		K	15,7,3,SETPSW	
3541	01	00CE1	E730016A		K	14,7,3,LBC+2	
3542	01	00CE2	66666666 A		DATA	X'66666666'	
3543	01	00CE3	44444444 A		DATA	X'44444444'	
3544	01	00CE4	55555555 A		DATA	X'55555555'	
3545	01	00CE5	55555555 A		DATA	X'55555555'	
3546	01	00CE6	FFFFFFFFA A	AND06	DATA	-6	AND
3547	01	00CE7	4BC0000C A		AND,12	12	
3548	01	00CE8	7330013A		K	7,3,3,SETPSW	
3549	01	00CE9	6330016A		K	6,3,3,LBC+2	
3550	01	00CEA	12345678 A		DATA	X'12345678'	
3551	01	00CEB	12345678 A		DATA	X'12345678'	
3552					PAGE		
3553	01	00CEC	FFFFFFFF8 A	E0R01	DATA	-8	E0R
3554	01	00CED	4BC00460		E0R,12	MEMORY	
3555	01	00CEE	F730013A		K	15,7,3,SETPSW	
3556	01	00CEF	E730016A		K	14,7,3,LBC+2	
3557	01	00CF0	CCCCCCCC A		DATA	X'CCCCCCCC'	
3558	01	00CF1	66666666 A		DATA	X'66666666'	
3559	01	00CF2	AAAAAAAA A		DATA	X'AAAAAAAA'	
3560	01	00CF3	AAAAAAAA A		DATA	X'AAAAAAAA'	
3561	01	00CF4	FFFFFFFF8 A	E0R02	DATA	-8	
3562	01	00CF5	48C26AC7		E0R,12	MEMORY-X'19999',1	E0R X
3563	01	00CF6	8730013A		K	8,7,3,SETPSW	
3564	01	00CF7	9730016A		K	9,7,3,LBC+2	

SIGMA 7 CPU DIAGNOSTIC-AUT8 704044-51B00 MARCH 10, 1969 102

3565	01	00CF8	99999999 A		DATA	X'99999999'	
3566	01	00CF9	CCCCCCCC A		DATA	X'CCCCCCCC'	
3567	01	00CFA	55555555 A		DATA	X'55555555'	
3568	01	00CFB	55555555 A		DATA	X'55555555'	
3569	01	00CFC	FFFFFFFF8 A	E0R03	DATA	-8	E0R *
3570	01	00CFD	C8C0045A		E0R,12	+1A	
3571	01	00CFE	2730013A		K	2,7,3,SETPSW	
3572	01	00CFF	1730016A		K	1,7,3,LBC+2	
3573	01	00D00	33333333 A		DATA	X'33333333'	
3574	01	00D01	99999999 A		DATA	X'99999999'	
3575	01	00D02	AAAAAAAA A		DATA	X'AAAAAAAA'	
3576	01	00D03	AAAAAAAA A		DATA	X'AAAAAAAA'	
3577	01	00D04	FFFFFFFF8 A	E0R04	DATA	-8	E0R
3578	01	00D05	4BC00460		E0R,12	MEMORY	
3579	01	00D06	0730013A		K	0,7,3,SETPSW	
3580	01	00D07	2730016A		K	2,7,3,LBC+2	
3581	01	00D08	66666666 A		DATA	X'66666666'	
3582	01	00D09	33333333 A		DATA	X'33333333'	
3583	01	00D0A	55555555 A		DATA	X'55555555'	
3584	01	00D0B	55555555 A		DATA	X'55555555'	
3585					PAGE		
3586	01	00D0C	FFFFFFFFA A	E0R05	DATA	-6	E0R
3587	01	00D0D	48C0000C A		E0R,12	12	
3588	01	00D0E	3730013A		K	3,7,3,SETPSW	
3589	01	00D0F	0730016A		K	0,7,3,LBC+2	
3590	01	00D10	F0F0F0F0 A		DATA	X'F0F0F0F0'	
3591	01	00D11	00000000 A		DATA	0	
3592							
3593							
3594	01	00D12	FFFFFFFFA A	E0R01	DATA	-6	E0R
3595	01	00D13	49C0000C A		E0R,12	12	
3596	01	00D14	0730013A		K	0,7,3,SETPSW	
3597	01	00D15	1730016A		K	1,7,3,LBC+2	
3598	01	00D16	F0F0F0F0 A		DATA	X'F0F0F0F0'	
3599	01	00D17	F0F0F0F0 A		DATA	X'F0F0F0F0'	
3600	01	00D18	FFFFFFFFC A	E0R02	DATA	-4	E0R
3601	01	00D19	49C00460		E0R,12	MEMORY	ZERO

SIGMA 7 CPU DIAGNOSTIC-AUTB 704044-51B00 MARCH 10,1969 103

3602	01	0001A	3730013A		K	3,7,3,SETPSW	
3603	01	0001B	0730016A		K	0,7,3,L0C+2	
3604	01	0001C	FFFFFFFF8 A	0R03	DATA	-8	0R X
3605	01	0001D	49C33794		0R,12	MEM0RY-X'CCCC',1	
3606	01	0001E	7730013A		K	7,7,3,SETPSW	
3607	01	0001F	5730016A		K	5,7,3,L0C+2	
3608	01	00020	CCCCCCC A		DATA	X'CCCCCCC'	
3609	01	00021	EEEEEEEE A		DATA	X'EEEEEEEE'	
3610	01	00022	AAAAAAAA A		DATA	X'AAAAAAAA'	
3611	01	00023	AAAAAAAA A		DATA	X'AAAAAAAA'	
3612					PAGE		
3613	01	00024	FFFFFFFF8 A	0R04	DATA	-8	0R *
3614	01	00025	C9C0045A		0R,12	+1A	
3615	01	00026	F730013A		K	15,7,3,SETPSW	
3616	01	00027	D730016A		K	13,7,3,L0C+2	
3617	01	00028	99999999 A		DATA	X'99999999'	
3618	01	00029	DDDDDDDD A		DATA	X'DDDDDDD'	
3619	01	0002A	55555555 A		DATA	X'55555555'	
3620	01	0002B	55555555 A		DATA	X'55555555'	
3621	01	0002C	FFFFFFFF8 A	0R05	DATA	-8	0R
3622	01	0002D	49C00460		0R,12	MEM0RY	
3623	01	0002E	8730013A		K	8,7,3,SETPSW	
3624	01	0002F	9730016A		K	9,7,3,L0C+2	
3625	01	00030	33333333 A		DATA	X'33333333'	
3626	01	00031	BBBBBBBB A		DATA	X'BBBBBBBB'	
3627	01	00032	AAAAAAAA A		DATA	X'AAAAAAAA'	
3628	01	00033	AAAAAAAA A		DATA	X'AAAAAAAA'	
3629	01	00034	FFFFFFFF8 A	0R06	DATA	-8	0R
3630	01	00035	49C00460		0R,12	MEM0RY	
3631	01	00036	5730013A		K	5,7,3,SETPSW	
3632	01	00037	6730016A		K	6,7,3,L0C+2	
3633	01	00038	66666666 A		DATA	X'66666666'	
3634	01	00039	77777777 A		DATA	X'77777777'	
3635	01	0003A	55555555 A		DATA	X'55555555'	
3636	01	0003B	55555555 A		DATA	X'55555555'	
3637					PAGE		
3638							

** CONDITION CODE SETTINGS FOR CI,CB,CH,CW

SIGMA 7 CPU DIAGNOSTIC-AUTB 704044-51B00 MARCH 10,1969 104

3639					**	CC2 CC3 CC4	
3640					**	- 0 0	0PERANDS EQUAL
3641					**	- 0 1	REGISTER WORD < EFFECTIVE WORD
3642					**	- 1 0	REGISTER WORD > EFFECTIVE WORD
3643					**	0 - -	LOGICAL PRODUCT OF THE TWO 0PERANDS IS ZERO
3644					**	1 - -	LOGICAL PRODUCT OF THE TWO 0PERANDS IS NONZERO
3645					**		COMPARE C(R) > C(EW) LOGIC PROD ZERO
3646					**		CHECK THAT SO-NFAC0MP DOES NOT INHIBIT SGTZ (S/CC3) ALSO
3647					**		CHECK THAT SO-NFAC0MP DOES NOT S/CC4
3648	01	0003C	FFFFFFFF8 A	CW01	DATA	-8	CW
3649	01	0003D	31C00460		CW,12	MEM0RY	
3650	01	0003E	7730013A		K	7,7,3,SETPSW	
3651	01	0003F	4730016A		K	4,7,3,L0C+2	
3652	01	00040	F0F0F0F0 A		DATA	X'F0F0F0F0'	
3653	01	00041	F0F0F0F0 A		DATA	X'F0F0F0F0'	
3654	01	00042	F0F0F0F0 A		DATA	X'F0F0F0F0'	
3655	01	00043	F0F0F0F0 A		DATA	X'F0F0F0F0'	
3656	01	00044	FFFFFFFFA A	CW02	DATA	-6	CW
3657	01	00045	31C0000C A		CW,12	12	
3658	01	00046	0730013A		K	0,7,3,SETPSW	
3659	01	00047	4730016A		K	4,7,3,L0C+2	
3660	01	00048	0F0F0F0F A		DATA	X'F0F0F0F0'	
3661	01	00049	0F0F0F0F A		DATA	X'F0F0F0F0'	
3662	01	0004A	FFFFFFFF8 A	CW04	DATA	-8	CW *
3663	01	0004B	B1C0045A		CW,12	+1A	
3664	01	0004C	0730013A		K	0,7,3,SETPSW	
3665	01	0004D	5730016A		K	5,7,3,L0C+2	
3666	01	0004E	FFFFFFFFF A		DATA	-1	
3667	01	0004F	FFFFFFFFF A		DATA	-1	
3668	01	00050	7FFFFFFFF A		DATA	X'7FFFFFFFF'	
3669	01	00051	7FFFFFFFF A		DATA	X'7FFFFFFFF'	
3670					PAGE		
3671	01	00052	FFFFFFFF8 A	CW05	DATA	-8	CW
3672	01	00053	31C00460		CW,12	MEM0RY	
3673	01	00054	7730013A		K	7,7,3,SETPSW	
3674	01	00055	1730016A		K	1,7,3,L0C+2	
3675	01	00056	AAAAAAAA A		DATA	X'AAAAAAAA'	

3676	01	00D57	AAAAAAAA A		DATA	X'AAAAAAAA'	
3677	01	00D58	55555555 A		DATA	X'55555555'	
3678	01	00D59	55555555 A		DATA	X'55555555'	
3679	01	00D5A	FFFFFFFF8 A	CW06	DATA	-8	CW
3680	01	00D5B	31C00460		CW,12	MEMORY	
3681	01	00D5C	7730013A		K	7,7,3,SETPSW	
3682	01	00D5D	2730016A		K	2,7,3,L8C+2	
3683	01	00D5E	3C3C3C3C A		DATA	X'3C3C3C3C'	
3684	01	00D5F	3C3C3C3C A		DATA	X'3C3C3C3C'	
3685	01	00D60	C3C3C3C3 A		DATA	X'C3C3C3C3'	
3686	01	00D61	C3C3C3C3 A		DATA	X'C3C3C3C3'	
3687	01	00D62	FFFFFFFF8 A	CW07	DATA	-8	CW
3688	01	00D63	31C00460		CW,12	MEMORY	
3689	01	00D64	7730013A		K	7,7,3,SETPSW	
3690	01	00D65	5730016A		K	5,7,3,L8C+2	
3691	01	00D66	AAAAAAAA A		DATA	X'AAAAAAAA'	
3692	01	00D67	AAAAAAAA A		DATA	X'AAAAAAAA'	
3693	01	00D68	55555557 A		DATA	X'55555557'	
3694	01	00D69	55555557 A		DATA	X'55555557'	
3695	01	00D6A	FFFFFFFFC A	CW08	DATA	-4	CW
3696	01	00D6B	31C00460		CW,12	MEMORY	
3697	01	00D6C	7730013A		K	7,7,3,SETPSW	
3698	01	00D6D	0730016A		K	0,7,3,L8C+2	
3699					PAGE		
3700	01	00D6E	FFFFFFFF8 A	CH01	DATA	-8	CH
3701	01	00D6F	51C00460		CH,12	MEMORY	
3702	01	00D70	F730013A		K	15,7,3,SETPSW	
3703	01	00D71	C730016A		K	12,7,3,L8C+2	
3704	01	00D72	FFFF8000 A		DATA	X'FFFF8000'	
3705	01	00D73	FFFF8000 A		DATA	X'FFFF8000'	
3706	01	00D74	8000F739 A		DATA	X'8000F739'	
3707	01	00D75	8000F739 A		DATA	X'8000F739'	
3708	01	00D76	FFFFFFFF8 A	CH02	DATA	-8	CH X
3709	01	00D77	51C00460		CH,12	MEMORY,7	
3710	01	00D78	7730013A		K	7,7,3,SETPSW	
3711	01	00D79	4730016A		K	4,7,3,L8C+2	
3712	01	00D7A	00007F32 A		DATA	X'7F32'	

3713	01	00D7B	00007F32 A		DATA	X'7F32'	
3714	01	00D7C	123E7F32 A		DATA	X'123E7F32'	
3715	01	00D7D	123E7F32 A		DATA	X'123E7F32'	
3716	01	00D7E	FFFFFFFF8 A	CH03	DATA	-8	CH *
3717	01	00D7F	D1C0045A		CH,12	*1A	
3718	01	00D80	0730013A		K	0,7,3,SETPSW	
3719	01	00D81	6730016A		K	6,7,3,L8C+2	
3720	01	00D82	7FFFE263 A		DATA	X'7FFFE263'	
3721	01	00D83	7FFFE263 A		DATA	X'7FFFE263'	
3722	01	00D84	E2630000 A		DATA	X'E2630000'	
3723	01	00D85	E2630000 A		DATA	X'E2630000'	
3724	01	00D86	FFFFFFFF8 A	CH04	DATA	-8	CH
3725	01	00D87	51C00460		CH,12	MEMORY	
3726	01	00D88	0730013A		K	0,7,3,SETPSW	
3727	01	00D89	5730016A		K	5,7,3,L8C+2	
3728	01	00D8A	80002579 A		DATA	X'80002579'	
3729	01	00D8B	80002579 A		DATA	X'80002579'	
3730	01	00D8C	DA860000 A		DATA	X'DA860000'	
3731	01	00D8D	DA860000 A		DATA	X'DA860000'	
3732					PAGE		
3733	01	00D8E	FFFFFFFF8 A	CH05	DATA	-8	CH *
3734	01	00D8F	51C00460		CH,12	MEMORY,7	
3735	01	00D90	7730013A		K	7,7,3,SETPSW	
3736	01	00D91	0730016A		K	0,7,3,L8C+2	
3737	01	00D92	00000000 A		DATA	0	
3738	01	00D93	00000000 A		DATA	0	
3739	01	00D94	FFFF0000 A		DATA	X'FFFF0000'	
3740	01	00D95	FFFF0000 A		DATA	X'FFFF0000'	
3741	01	00D96	FFFFFFFF8 A	CH06	DATA	-8	CH
3742	01	00D97	51C00460		CH,12	MEMORY,7	
3743	01	00D98	5730013A		K	5,7,3,SETPSW	
3744	01	00D99	2730016A		K	2,7,3,L8C+2	
3745	01	00D9A	00005555 A		DATA	X'5555'	
3746	01	00D9B	00005555 A		DATA	X'5555'	
3747	01	00D9C	5555AAAA A		DATA	X'5555AAAA'	
3748	01	00D9D	5555AAAA A		DATA	X'5555AAAA'	
3749	01	00D9E	FFFFFFFF8 A	CH07	DATA	-8	CH

3750	01	00D9F	51CE0460		CH,12	MEM8RY,7		
3751	01	00DA0	6730013A		K	6,7,3,SETPSW		
3752	01	00DA1	1730016A		K	1,7,3,L8C+2		
3753	01	00DA2	FFFFABCD A		DATA	X'FFFFABCD'		
3754	01	00DA3	FFFFABCD A		DATA	X'FFFFABCD'		
3755	01	00DA4	00005432 A		DATA	X'5432'		
3756	01	00DA5	00005432 A		DATA	X'5432'		
3757					PAGE			
3758	01	00DA6	FFFFFFF8 A	CB01	DATA	-8	CB	BYTE 0
3759	01	00DA7	71C00460		CB,12	MEM8RY		
3760	01	00DA8	7730013A		K	7,7,3,SETPSW		
3761	01	00DA9	0730016A		K	0,7,3,L8C+2		
3762	01	00DAA	FFFFFFF0 A		DATA	X'FFFFFFF0'		
3763	01	00DAB	FFFFFFF0 A		DATA	X'FFFFFFF0'		
3764	01	00DAC	00FFFFFF A		DATA	X'FFFFFF'		
3765	01	00DAD	00FFFFFF A		DATA	X'FFFFFF'		
3766	01	00DAE	FFFFFFF8 A	CB02	DATA	-8	CB	BYTE 1
3767	01	00DAF	71C20440		CB,12	MEM8RY-X'20',1		
3768	01	00DB0	7730013A		K	7,7,3,SETPSW		
3769	01	00DB1	5730016A		K	5,7,3,L8C+2		
3770	01	00DB2	00000081 A		DATA	X'81'		
3771	01	00DB3	00000081 A		DATA	X'81'		
3772	01	00DB4	FFFFFFF8 A		DATA	X'FFFFFFF8'		
3773	01	00DB5	FFFFFFF8 A		DATA	X'FFFFFFF8'		
3774	01	00DB6	FFFFFFF8 A	CB03	DATA	-8	CB	BYTE 0
3775	01	00DB7	71C00460		CB,12	MEM8RY		
3776	01	00DB8	3730013A		K	3,7,3,SETPSW		
3777	01	00DB9	4730016A		K	4,7,3,L8C+2		
3778	01	00DBA	000000FF A		DATA	X'FF'		
3779	01	00DBB	000000FF A		DATA	X'FF'		
3780	01	00DBC	FFEECCDD A		DATA	X'FFEECCDD'		
3781	01	00DBD	FFEECCDD A		DATA	X'FFEECCDD'		
3782	01	00DBE	FFFFFFF8 A	CB04	DATA	-8	CB X	BYTE 1
3783	01	00DBF	71C2EEC2		CB,12	MEM8RY-X'1159E',1		
3784	01	00DC0	7730013A		K	15,7,3,SETPSW		
3785	01	00DC1	C730016A		K	12,7,3,L8C+2		
3786	01	00DC2	12345679 A		DATA	X'12345679'		

3787	01	00DC3	12345679 A		DATA	X'12345679'		
3788	01	00DC4	26793355 A		DATA	X'26793355'		
3789	01	00DC5	26793355 A		DATA	X'26793355'		
3790					PAGE			
3791	01	00DC6	FFFFFFF8 A	CB05	DATA	-8	CB *X	BYTE 2
3792	01	00DC7	71C2045A		CB,12	+1A,1		
3793	01	00DC8	0730013A		K	0,7,3,SETPSW		
3794	01	00DC9	4730016A		K	4,7,3,L8C+2		
3795	01	00DCA	00000002 A		DATA	2		
3796	01	00DCB	00000002 A		DATA	2		
3797	01	00DCC	FFFF02FF A		DATA	X'FFFF02FF'		
3798	01	00DCD	FFFF02FF A		DATA	X'FFFF02FF'		
3799	01	00DCE	FFFFFFF8 A	CB06	DATA	-8	CB	BYTE 3
3800	01	00DCF	71C22810		CB,12	MEM8RY-X'10950',1		
3801	01	00DD0	0730013A		K	0,7,3,SETPSW		
3802	01	00DD1	4730016A		K	4,7,3,L8C+2		
3803	01	00DD2	ABC76543 A		DATA	X'ABC76543'		
3804	01	00DD3	ABC76543 A		DATA	X'ABC76543'		
3805	01	00DD4	54389A43 A		DATA	X'54389A43'		
3806	01	00DD5	54389A43 A		DATA	X'54389A43'		
3807	01	00DD6	FFFFFFF8 A	CB07	DATA	-8	CB	BYTE 2
3808	01	00DD7	71CE0460		CB,12	MEM8RY,7		
3809	01	00DD8	7730013A		K	7,7,3,SETPSW		
3810	01	00DD9	1730016A		K	1,7,3,L8C+2		
3811	01	00DDA	00000059 A		DATA	X'59'		
3812	01	00DDB	00000059 A		DATA	X'59'		
3813	01	00DDC	58A65754 A		DATA	X'58A65754'		
3814	01	00DDD	58A65754 A		DATA	X'58A65754'		
3815	01	00DDE	FFFFFFF8 A	CB08	DATA	-8	CB	BYTE 0
3816	01	00DDF	71C00460		CB,12	MEM8RY		
3817	01	00DEC	7730013A		K	7,7,3,SETPSW		
3818	01	00DE1	2730016A		K	2,7,3,L8C+2		
3819	01	00DE2	FFFFFFF8 A		DATA	X'FFFFFFF8'		
3820	01	00DE3	FFFFFFF8 A		DATA	X'FFFFFFF8'		
3821	01	00DE4	43210567 A		DATA	X'43210567'		
3822	01	00DE5	43210567 A		DATA	X'43210567'		
3823					PAGE			

3824	01	000E6	FFFFFFFFA A	CI01	DATA	-6	CI
3825	01	000E7	21C80001 A		CI,12	X'80001'	
3826	01	000E8	1730013A		K	1,7,3,SETPSW	
3827	01	000E9	5730016A		K	5,7,3,L8C+2	
3828	01	000EA	80000000 A		DATA	X'80000000'	
3829	01	000EB	80000000 A		DATA	X'80000000'	
3830	01	000EC	FFFFFFFFA A	CI02	DATA	-6	CI
3831	01	000ED	21C7FFFF A		CI,12	X'7FFFF'	
3832	01	000EE	3730013A		K	3,7,3,SETPSW	
3833	01	000EF	4730016A		K	4,7,3,L8C+2	
3834	01	000F0	0007FFFF A		DATA	X'7FFFF'	
3835	01	000F1	0007FFFF A		DATA	X'7FFFF'	
3836	01	000F2	FFFFFFFFA A	CI03	DATA	-6	CI
3837	01	000F3	21CFFFFF A		CI,12	X'FFFFFF'	
3838	01	000F4	0730013A		K	0,7,3,SETPSW	
3839	01	000F5	6730016A		K	6,7,3,L8C+2	
3840	01	000F6	00000001 A		DATA	1	
3841	01	000F7	00000001 A		DATA	1	
3842	01	000F8	FFFFFFFFA A	CI04	DATA	-6	CI
3843	01	000F9	21CABC0E A		CI,12	X'ABC0E'	
3844	01	000FA	0730013A		K	0,7,3,SETPSW	
3845	01	000FB	2730016A		K	2,7,3,L8C+2	
3846	01	000FC	00054321 A		DATA	X'54321'	
3847	01	000FD	00054321 A		DATA	X'54321'	
3848	01	000FE	FFFFFFFFA A	CI05	DATA	-6	CI
3849	01	000FF	21C46543 A		CI,12	X'46543'	
3850	01	00E00	5730013A		K	5,7,3,SETPSW	
3851	01	00E01	1730016A		K	1,7,3,L8C+2	
3852	01	00E02	00039ABC A		DATA	X'39ABC'	
3853	01	00E03	00039ABC A		DATA	X'39ABC'	
3854	01	00E04	FFFFFFFFA A	CI06	DATA	-6	CI
3855	01	00E05	21C87657 A		CI,12	X'87657'	
3856	01	00E06	0730013A		K	0,7,3,SETPSW	
3857	01	00E07	4730016A		K	4,7,3,L8C+2	
3858	01	00E08	FFF87657 A		DATA	X'FFF87657'	
3859	01	00E09	FFF87657 A		DATA	X'FFF87657'	
3860					PAGE		

3861	01	00E0A	FFFFFFFFC A	CI07	DATA	-4	CI
3862	01	00E0B	21C00000 A		CI,12	0	
3863	01	00E0C	7730013A		K	7,7,3,SETPSW	
3864	01	00E0D	0730016A		K	0,7,3,L8C+2	
3865	01	00E0E	FFFFFFFFC A	CI08	DATA	-4	CI *
3866	01	00E0F	A1C0045A		CI,12	*1A	
3867	01	00E10	77300143		K	7,7,3,S19NA8	
3868	01	00E11	F7300068		K	15,7,3,NEIRET+1	
3869							
3870							
3871	01	00E12	FFFFFFFF4 A	CD01	DATA	-12	CD
3872	01	00E13	11C00460		CD,12	MEMORY	
3873	01	00E14	F730013A		K	15,7,3,SETPSW	
3874	01	00E15	C730016A		K	12,7,3,L8C+2	
3875	01	00E16	12345678 A		DATA	X'12345678'	
3876	01	00E17	12345678 A		DATA	X'12345678'	
3877	01	00E18	12345678 A		DATA	X'12345678'	
3878	01	00E19	12345678 A		DATA	X'12345678'	
3879	01	00E1A	9ABCDEF0 A		DATA	X'9ABCDEF0'	
3880	01	00E1B	9ABCDEF0 A		DATA	X'9ABCDEF0'	
3881	01	00E1C	9ABCDEF0 A		DATA	X'9ABCDEF0'	
3882	01	00E1D	9ABCDEF0 A		DATA	X'9ABCDEF0'	
3883	01	00E1E	FFFFFFFF4 A	CD02	DATA	-12	CD *
3884	01	00E1F	11C35770		CD,12	MEMORY-X'ACF0',1	
3885	01	00E20	0730013A		K	0,7,3,SETPSW	
3886	01	00E21	2730016A		K	2,7,3,L8C+2	
3887	01	00E22	12345678 A		DATA	X'12345678'	
3888	01	00E23	12345678 A		DATA	X'12345678'	
3889	01	00E24	12345678 A		DATA	X'12345678'	
3890	01	00E25	12345678 A		DATA	X'12345678'	
3891	01	00E26	9ABCDEF1 A		DATA	X'9ABCDEF1'	
3892	01	00E27	9ABCDEF1 A		DATA	X'9ABCDEF1'	
3893	01	00E28	9ABCDEF0 A		DATA	X'9ABCDEF0'	
3894	01	00E29	9ABCDEF0 A		DATA	X'9ABCDEF0'	
3895					PAGE		
3896	01	00E2A	FFFFFFFF4 A	CD03	DATA	-12	CD *
3897	01	00E2B	91C0045A		CD,12	*1A	

3898	01	00E2C	7730013A		K	7,7,3,SETPSW	
3899	01	00E2D	5730016A		K	5,7,3,L8C+2	
3900	01	00E2E	76543210	A	DATA	X'76543210'	
3901	01	00E2F	76543210	A	DATA	X'76543210'	
3902	01	00E30	76543210	A	DATA	X'76543210'	
3903	01	00E31	76543210	A	DATA	X'76543210'	
3904	01	00E32	FDECB98	A	DATA	X'FDECB98'	
3905	01	00E33	FDECB98	A	DATA	X'FDECB98'	
3906	01	00E34	FDECB99	A	DATA	X'FDECB99'	
3907	01	00E35	FDECB99	A	DATA	X'FDECB99'	
3908	01	00E36	FFFFFFF4	A	CD04	DATA	-12
3909	01	00E37	11D00460		CD,13	MEMORY	
3910	01	00E38	F730013A		K	15,7,3,SETPSW	
3911	01	00E39	D730016A		K	13,7,3,L8C+2	
3912	01	00E3A	ADDEBCAD	A	DATA	X'ADDEBCAD'	
3913	01	00E3B	ADDEBCAD	A	DATA	X'ADDEBCAD'	
3914	01	00E3C	76503210	A	DATA	X'76543210'	
3915	01	00E3D	76543210	A	DATA	X'76543210'	
3916	01	00E3E	76543210	A	DATA	X'76543210'	
3917	01	00E3F	76543210	A	DATA	X'76543210'	
3918	01	00E40	76543211	A	DATA	X'76543211'	
3919	01	00E41	76543211	A	DATA	X'76543211'	
3920					PAGE		
3921	01	00E42	FFFFFFF6	A	CS01	DATA	-10
3922	01	00E43	45C00460		CS,12	MEMORY	
3923	01	00E44	0730013A		K	0,7,3,SETPSW	
3924	01	00E45	2730016A		K	2,7,3,L8C+2	
3925	01	00E46	92345678	A	DATA	X'92345678'	
3926	01	00E47	92345678	A	DATA	X'92345678'	
3927	01	00E48	12345677	A	DATA	X'12345677'	
3928	01	00E49	12345677	A	DATA	X'12345677'	
3929	01	00E4A	7FFFFFFF	A	DATA	X'7FFFFFFF'	
3930	01	00E4B	7FFFFFFF	A	DATA	X'7FFFFFFF'	
3931	01	00E4C	FFFFFFF6	A	CS02	DATA	-10
3932	01	00E4D	45C38D73		CS,12	MEMORY=X'76ED,1	
3933	01	00E4E	8730013A		K	8,7,3,SETPSW	
3934	01	00E4F	9730016A		K	9,7,3,L8C+2	

3935	01	00E50	7F7C76ED	A	DATA	X'7F7C76ED'	
3936	01	00E51	7F7C76ED	A	DATA	X'7F7C76ED'	
3937	01	00E52	2E78238A	A	DATA	X'2E78238A'	
3938	01	00E53	2E78238A	A	DATA	X'2E78238A'	
3939	01	00E54	AAAAAAAA	A	DATA	X'AAAAAAAA'	
3940	01	00E55	AAAAAAAA	A	DATA	X'AAAAAAAA'	
3941	01	00E56	FFFFFFF6	A	CS03	DATA	-10
3942	01	00E57	C5C0046A		CS,12	*IA	
3943	01	00E58	3730013A		K	3,7,3,SETPSW	
3944	01	00E59	2730016A		K	2,7,3,L8C+2	
3945	01	00E5A	43EFAD7F	A	DATA	X'43EFAD7F'	
3946	01	00E5B	43EFAD7F	A	DATA	X'43EFAD7F'	
3947	01	00E5C	C94D87C7	A	DATA	X'C94D87C7'	
3948	01	00E5D	C94D87C7	A	DATA	X'C94D87C7'	
3949	01	00E5E	55555555	A	DATA	X'55555555'	
3950	01	00E5F	55555555	A	DATA	X'55555555'	
3951					PAGE		
3952	01	00E60	FFFFFFF6	A	CS04	DATA	-10
3953	01	00E61	45C00460		CS,12	MEMORY	
3954	01	00E62	F730013A		K	15,7,3,SETPSW	
3955	01	00E63	C730016A		K	12,7,3,L8C+2	
3956	01	00E64	FFFFFFF6	A	DATA	-1	
3957	01	00E65	FFFFFFF6	A	DATA	-1	
3958	01	00E66	FFFFFFF6	A	DATA	-1	
3959	01	00E67	FFFFFFF6	A	DATA	-1	
3960	01	00E68	12345678	A	DATA	X'12345678'	
3961	01	00E69	12345678	A	DATA	X'12345678'	
3962	01	00E6A	FFFFFFF6	A	CS05	DATA	-10
3963	01	00E6B	45C00460		CS,12	MEMORY	
3964	01	00E6C	0730013A		K	0,7,3,SETPSW	
3965	01	00E6D	2730016A		K	2,7,3,L8C+2	
3966	01	00E6E	FFFFFFF6	A	DATA	-1	
3967	01	00E6F	FFFFFFF6	A	DATA	-1	
3968	01	00E70	FFFFFFF6	A	DATA	-2	
3969	01	00E71	FFFFFFF6	A	DATA	-2	
3970	01	00E72	ABCDEF23	A	DATA	X'ABCDEF23'	
3971	01	00E73	ABCDEF23	A	DATA	X'ABCDEF23'	

3972	01	00E74	FFFFFFFF6 A	CS06	DATA	-10	CS
3973	01	00E75	45000460		CS,13	MEMORY	
3974	01	00E76	C730013A		K	12,7,3,SETPSW	
3975	01	00E77	E730016A		K	14,7,3,L8C+2	
3976	01	00E78	FFFFFFFF6 A		DATA	-1	
3977	01	00E79	FFFFFFFF6 A		DATA	-1	
3978	01	00E7A	789EBCDE A		DATA	X'789EBCDE'	
3979	01	00E7B	789EBCDE A		DATA	X'789EBCDE'	
3980	01	00E7C	389EBCD9 A		DATA	X'389EBCD9'	
3981	01	00E7D	389EBCD9 A		DATA	X'389EBCD9'	
3982					PAGE		
3983	01	00E7E	FFFFFFFF6 A	CLR01	DATA	-10	CLR-- R & RU1 = EW
3984	01	00E7F	39C00460		CLR,12	MEMORY	
3985	01	00E80	F730013A		K	15,7,3,SETPSW	
3986	01	00E81	0730016A		K	0,7,3,L8C+2	
3987	01	00E82	12345678 A		DATA	X'12345678'	
3988	01	00E83	12345678 A		DATA	X'12345678'	
3989	01	00E84	12345678 A		DATA	X'12345678'	
3990	01	00E85	12345678 A		DATA	X'12345678'	
3991	01	00E86	12345678 A		DATA	X'12345678'	
3992	01	00E87	12345678 A		DATA	X'12345678'	
3993	01	00E88	FFFFFFFF6 A	CLR02	DATA	-10	CLR IX-- R > EW, RU1 < EW
3994	01	00E89	39C2C13F		CLR,12	MEMORY-X'14321',1	
3995	01	00E8A	0730013A		K	0,7,3,SETPSW	
3996	01	00E8B	6730016A		K	6,7,3,L8C+2	
3997	01	00E8C	87654321 A		DATA	X'87654321'	
3998	01	00E8D	87654321 A		DATA	X'87654321'	
3999	01	00E8E	37654320 A		DATA	X'87654320'	
4000	01	00E8F	87654320 A		DATA	X'87654320'	
4001	01	00E90	8765431F A		DATA	X'8765431F'	
4002	01	00E91	8765431F A		DATA	X'8765431F'	
4003	01	00E92	FFFFFFFF6 A	CLR03	DATA	-10	CLR --- R < EW, RU1 > EW
4004	01	00E93	B9C0045A		CLR,12	+1A	
4005	01	00E94	0730013A		K	0,7,3,SETPSW	
4006	01	00E95	9730016A		K	9,7,3,L8C+2	
4007	01	00E96	12345678 A		DATA	X'12345678'	
4008	01	00E97	12345678 A		DATA	X'12345678'	

4009	01	00E98	12345679 A		DATA	X'12345679'	
4010	01	00E99	12345679 A		DATA	X'12345679'	
4011	01	00E9A	1234567A A		DATA	X'1234567A'	
4012	01	00E9B	1234567A A		DATA	X'1234567A'	
4013					PAGE		
4014	01	00E9C	FFFFFFFF6 A	CLR04	DATA	-10	CLR-- R < EW, RU1 = EW
4015	01	00E9D	39C0000D A		CLR,12	13	
4016	01	00E9E	0730013A		K	0,7,3,SETPSW	
4017	01	00E9F	1730016A		K	1,7,3,L8C+2	
4018	01	00EA0	ABCDEFAB A		DATA	X'ABCDEFAB'	
4019	01	00EA1	ABCDEFAB A		DATA	X'ABCDEFAB'	
4020	01	00EA2	00000000 A		DATA	0	
4021	01	00EA3	00000000 A		DATA	0	
4022	01	00EA4	2BCDEFAB A		DATA	X'2BCDEFAB'	
4023	01	00EA5	2BCDEFAB A		DATA	X'2BCDEFAB'	
4024	01	00EA6	FFFFFFFF6 A	CLR05	DATA	-10	CLR-- R > EW, RU1 > EW
4025	01	00EA7	39D00460		CLR,13	MEMORY	
4026	01	00EA8	F730013A		K	15,7,3,SETPSW	
4027	01	00EA9	A730016A		K	10,7,3,L8C+2	
4028	01	00EAA	FFFFFFFF6 A		DATA	-1	
4029	01	00EAB	FFFFFFFF6 A		DATA	-1	
4030	01	00EAC	00000000 A		DATA	0	
4031	01	00EAD	00000000 A		DATA	0	
4032	01	00EAE	00000001 A		DATA	1	
4033	01	00EAF	00000001 A		DATA	1	
4034							
4035							
4036	01	00EB0	FFFFFFFF4 A	CLM01	DATA	-12	CLM-- R < ED(0-31), R < ED(32-63)
4037	01	00EB1	19C00460		CLM,12	MEMORY	
4038	01	00EB2	0730013A		K	0,7,3,SETPSW	
4039	01	00EB3	5730016A		K	5,7,3,L8C+2	
4040	01	00EB4	80000000 A		DATA	X'80000000'	
4041	01	00EB5	80000000 A		DATA	X'80000000'	
4042	01	00EB6	80000001 A		DATA	X'80000001'	
4043	01	00EB7	80000001 A		DATA	X'80000001'	
4044	01	00EB8	00000000 A		DATA	0	
4045	01	00EB9	00000000 A		DATA	0	

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SIGMA 7 CPU DIAGNOSTIC-AUT0 704044-51800 MARCH 10,1969 115
4046 01 00EBA FFFFFFFF A DATA -1
4047 01 00EBB FFFFFFFF A DATA -1
4048 PAGE
4049 01 00EBC FFFFFFFF A CLM02 DATA -12 CLM-- R > ED(0-31), R > ED(32-63)
4050 01 00EBD 19D2ACC6 CLM,13 MEMORY-2*X'ABCD',1
4051 01 00EBE 0730013A K 0,7,3,SETPSW
4052 01 00EBF A730016A K 10,7,3,L8C+2
4053 01 00EC0 6789ABCD A DATA X'6789ABCD'
4054 01 00EC1 6789ABCD A DATA X'6789ABCD'
4055 01 00EC2 7FFFFFFF A DATA X'7FFFFFFF'
4056 01 00EC3 7FFFFFFF A DATA X'7FFFFFFF'
4057 01 00EC4 7FFFFFFF A DATA X'7FFFFFFF'
4058 01 00EC5 7FFFFFFF A DATA X'7FFFFFFF'
4059 01 00EC6 FFFFFFFF A DATA -1
4060 01 00EC7 FFFFFFFF A DATA -1
4061 01 00EC8 FFFFFFFF A CLM03 DATA -4 CLM *** R = ED(0-31) & ED(32-63)
4062 01 00EC9 99C0045A CLM,12 *1A
4063 01 00ECA F730013A K 15,7,3,SETPSW
4064 01 00ECB 0730016A K 0,7,3,L8C+2
4065 01 00ECC FFFFFFFF A CLM04 DATA -12 CLM-- R = ED(0-31), R > ED(32-63)
4066 01 00ECD 19C00461 CLM,12 MEMORY+1
4067 01 00ECE 7730013A K 7,7,3,SETPSW
4068 01 00ECF 8730016A K 8,7,3,L8C+2
4069 01 00ED0 02345678 A DATA X'2345678'
4070 01 00ED1 02345678 A DATA X'2345678'
4071 01 00ED2 02345678 A DATA X'2345678'
4072 01 00ED3 02345678 A DATA X'2345678'
4073 01 00ED4 00000000 A DATA 0
4074 01 00ED5 00000000 A DATA 0
4075 01 00ED6 02345677 A DATA X'2345677'
4076 01 00ED7 02345677 A DATA X'2345677'
4077 PAGE
4078 ** CHECK OVERFLOW TRAP
4079 01 00ED8 FFFFFFFF A MTW01 DATA -6 MTW-- CHECK OVERFLOW NO TRAP
4080 01 00ED9 33F0000C A MTW,15 12
4081 01 00EDA 072001BF K 0,7,2,FXP0SW
4082 01 00EDB E720016A K 14,7,2,L8C+2

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SIGMA 7 CPU DIAGNOSTIC-AUT0 704044-51800 MARCH 10,1969 116
4083 01 00EDC 80000000 A DATA X'80000000'
4084 01 00EDD 7FFFFFFF A DATA X'7FFFFFFF'
4085 01 00EDE FFFFFFFF A MTW02 DATA -6 MTW
4086 01 00EDF 3300000C A MTW,0 12
4087 01 00EE0 0730013A K 0,7,3,SETPSW
4088 01 00EE1 1730016A K 1,7,3,L8C+2
4089 01 00EE2 80000000 A DATA X'80000000'
4090 01 00EE3 80000000 A DATA X'80000000'
4091 01 00EE4 FFFFFFFF A MTW03 DATA -8 MTW X
4092 01 00EE5 33D211EA MTW,13 MEMORY-X'1F276',1
4093 01 00EE6 7730013A K 7,7,3,SETPSW
4094 01 00EE7 8730016A K 8,7,3,L8C+2
4095 01 00EE8 0001F276 A DATA X'1F276'
4096 01 00EE9 0001F276 A DATA X'1F276'
4097 01 00EEA 00000003 A DATA 3
4098 01 00EEB 00000000 A DATA 0
4099 ** CHECK OVERFLOW TRAP
4100 01 00EEC FFFFFFFF A MTW04 DATA -8 MTW-- CHECK OVERFLOW TRAP
4101 01 00EED B310045A MTW,1 *1A
4102 01 00EEE 073001BF K 0,7,3,FXP0SW
4103 01 00EEF 57300084 K 5,7,3,FP0RET+1
4104 01 00EFO 00000000 A DATA 0
4105 01 00EF1 00000000 A DATA 0
4106 01 00EF2 7FFFFFFF A DATA X'7FFFFFFF'
4107 01 00EF3 80000000 A DATA X'80000000'
4108 PAGE
4109 01 00EF4 FFFFFFFF A MTW05 DATA -8 MTW
4110 01 00EF5 33700460 MEMORY
4111 01 00EF6 F730013A K 15,7,3,SETPSW
4112 01 00EF7 1730016A K 1,7,3,L8C+2
4113 01 00EF8 FFFFFFFF A DATA -1
4114 01 00EF9 FFFFFFFF A DATA -1
4115 01 00EFA FFFFFFFF A DATA X'FFFFFFF8'
4116 01 00EFB FFFFFFFF A DATA -1
4117 *
4118 *
4119 ** CHECK OVERFLOW NO TRAP

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SIGMA 7 CPU DIAGNOSTIC-AUT0 704044-51800 MARCH 10,1969 117
4120 01 00EFC FFFFFFFF A MTH01 DATA -6 MTH-- CHECK OVERFLOW NO TRAP
4121 01 00EFD 5300000C A MTH,0 12
4122 01 00EFE 0730013A K 0,7,3,SETPSW
4123 01 00EFF 2730016A K 2,7,3,L8C+2
4124 01 00F00 00010000 A DATA X'10000'
4125 01 00F01 00010000 A DATA X'10000'
4126 01 00F02 FFFFFFFF A MTH02 DATA -8 MTH X
4127 01 00F03 5323C01C MTH,2 MEMORY-X'14444',1
4128 01 00F04 7730013A K 7,7,3,SETPSW
4129 01 00F05 8730016A K 8,7,3,L8C+2
4130 01 00F06 00008889 A DATA X'8889'
4131 01 00F07 00008889 A DATA X'8889'
4132 01 00F08 7FFFFFFF A DATA X'7FFFFFFF'
4133 01 00F09 7FFF0000 A DATA X'7FFF0000'
4134 ** CHECK OVERFLOW NO TRAP
4135 01 00FOA FFFFFFFF A MTH03 DATA -8 MTH *
4136 01 00FOB D3E2045A MTH,14 +1A,1
4137 01 00FOC 172001BF K 1,7,2,FXPCSW
4138 01 00FOD E720016A K 14,7,2,L8C+2
4139 01 00FOE 00000001 A DATA 1
4140 01 00FOF 00000001 A DATA 1
4141 01 00F10 FFFF8000 A DATA X'FFF8000'
4142 01 00F11 FFFF7FFE A DATA X'FFF7FFE'
4143 PAGE
4144 ** CHECK OVERFLOW TRAP
4145 01 00F12 FFFFFFFF A MTH04 DATA -8 MTH-- CHECK OVERFLOW TRAP
4146 01 00F13 53320460 MTH,3 MEMORY,1
4147 01 00F14 273001BF K 2,7,3,FXPCSW
4148 01 00F15 57300084 K 5,7,3,FPBRET+1
4149 01 00F16 00000001 A DATA 1
4150 01 00F17 00000001 A DATA 1
4151 01 00F18 7FFF7FFF A DATA X'7FFF7FFF'
4152 01 00F19 7FFF8002 A DATA X'7FFF8002'
4153 01 00F1A FFFFFFFF A MTH05 DATA -8 MTH X(X=0)
4154 01 00F1B 53920480 MTH,9 MEMORY,1
4155 01 00F1C F730013A K 15,7,3,SETPSW
4156 01 00F1D 9730016A K 9,7,3,L8C+2

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SIGMA 7 CPU DIAGNOSTIC-AUT0 704044-51800 MARCH 10,1969 118
4157 01 00F1E 00000000 A DATA 0
4158 01 00F1F 00000000 A DATA 0
4159 01 00F20 FFF979AB A DATA X'FFF979AB'
4160 01 00F21 FFF279AB A DATA X'FF279AB'
4161 PAGE
4162 01 00F22 FFFFFFFF A MTB01 DATA -8 MTB BYTE 0
4163 01 00F23 73000460 MTB,0 MEMORY
4164 01 00F24 F730013A K 15,7,3,SETPSW
4165 01 00F25 0730016A K 0,7,3,L8C+2
4166 01 00F26 00000000 A DATA 0
4167 01 00F27 00000000 A DATA 0
4168 01 00F28 00FFFFFF A DATA X'FFFFFF'
4169 01 00F29 00FFFFFF A DATA X'FFFFFF'
4170 01 00F2A FFFFFFFF A MTB02 DATA -8 MTB X BYTE 1
4171 01 00F2B 73C20460 MTB,12 MEMORY,1
4172 01 00F2C F730013A K 15,7,3,SETPSW
4173 01 00F2D A730016A K 10,7,3,L8C+2
4174 01 00F2E 00000001 A DATA 1
4175 01 00F2F 00000001 A DATA 1
4176 01 00F30 F0F5F300 A DATA X'F0F5F300'
4177 01 00F31 F0F1F300 A DATA X'F0F1F300'
4178 01 00F32 FFFFFFFF A MTB03 DATA -8 MTB *X BYTE 2
4179 01 00F33 F342045A MTB,4 +1A,1
4180 01 00F34 0730013A K 0,7,3,SETPSW
4181 01 00F35 A730016A K 10,7,3,L8C+2
4182 01 00F36 00000002 A DATA 2
4183 01 00F37 00000002 A DATA 2
4184 01 00F38 F0F9FF03 A DATA X'F0F9FF03'
4185 01 00F39 F0F90303 A DATA X'F0F90303'
4186 01 00F3A FFFFFFFF A MTB04 DATA -8 MTH X BYTE 3
4187 01 00F3B 73B20460 MTB,11 MEMORY,1
4188 01 00F3C 7730013A K 7,7,3,SETPSW
4189 01 00F3D 8730016A K 8,7,3,L8C+2
4190 01 00F3E 00000003 A DATA 3
4191 01 00F3F 00000003 A DATA 3
4192 01 00F40 FFFFFFF0 A DATA X'FFF0'
4193 01 00F41 FFFFFFF0 A DATA -256

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4194					PAGE		
4195	01	00F42	FFFFFFFFA	MTB05	DATA	-6	MTB BYTE 1
4196	01	00F43	738E000C	A	MTB,8	12,7	
4197	01	00F44	7730013A		K	7,7,3,SETPSW	
4198	01	00F45	8730016A		K	8,7,3,L8C+2	
4199	01	00F46	FF08FFFF	A	DATA	X'FF08FFFF'	
4200	01	00F47	FF00FFFF	A	DATA	X'FF00FFFF'	
4201	01	00F48	FFFFFFFFA	MTB06	DATA	-6	MTB BYTE 2
4202	01	00F49	7552014C	A	MTB,5	12-X'1FEC0',1	
4203	01	00F4A	0730013A		K	0,7,3,SETPSW	
4204	01	00F4B	8730016A		K	8,7,3,L8C+2	
4205	01	00F4C	FFFFF802	A	DATA	X'FFFFF802'	
4206	01	00F4D	FFFF0002	A	DATA	X'FFFF0002'	
4207	01	00F4E	FFFFFFFFA	MTB07	DATA	-6	MTB BYTE 0
4208	01	00F4F	73A0000C	A	MTB,10	12	
4209	01	00F50	3730013A		K	3,7,3,SETPSW	
4210	01	00F51	8730016A		K	8,7,3,L8C+2	
4211	01	00F52	06123457	A	DATA	X'16123457'	
4212	01	00F53	00123457	A	DATA	X'1123457'	
4213	01	00F54	FFFFFFFFA	MTB08	DATA	-6	
4214	01	00F55	7360000C	A	MTB,6	12	
4215	01	00F56	5730013A		K	5,7,3,SETPSW	
4216	01	00F57	2730016A		K	2,7,3,L8C+2	
4217	01	00F58	00000000	A	DATA	0	
4218	01	00F59	06000000	A	DATA	X'16000000'	
4219					PAGE		
4220	01	00F5A	FFFFFFFF8	AH01	DATA	-8	AH
4221	01	00F5B	50C00460		AH,12	MEMBRY	
4222	01	00F5C	6730018F		K	6,7,3,FXP8SW	
4223	01	00F5D	9730016A		K	9,7,3,L8C+2	
4224	01	00F5E	FFFF7654	A	DATA	X'FFFF7654'	
4225	01	00F5F	FFFEFFFF	A	DATA	X'FFFEFFFF'	
4226	01	00F60	89A80000	A	DATA	X'89A80000'	
4227	01	00F61	89A80000	A	DATA	X'89A80000'	
4228	01	00F62	FFFFFFFF8	AH02	DATA	-8	AH X
4229	01	00F63	50CE0460		AH,12	MEMBRY,7	
4230	01	00F64	5730018F		K	5,7,3,FXP8SW	

4231	01	00F65	2730016A		K	2,7,3,L8C+2	
4232	01	00F66	7FFFDCBB	A	DATA	X'7FFFDCBB'	
4233	01	00F67	7FFFFFFFF	A	DATA	X'7FFFFFFFF'	
4234	01	00F68	23452344	A	DATA	X'123452344'	
4235	01	00F69	23452344	A	DATA	X'123452344'	
4236	01	00F6A	FFFFFFFF8	AH03	DATA	-8	AH *
4237	01	00F6B	00CE045A		AH,12	*1A,7	
4238	01	00F6C	0720018F		K	0,7,2,FXP8SW	
4239	01	00F6D	E720016A		K	14,7,2,L8C+2	
4240	01	00F6E	80000000	A	DATA	X'180000000'	
4241	01	00F6F	7FFFFFFFF	A	DATA	X'7FFFFFFFF'	
4242	01	00F70	7FFFFFFFF	A	DATA	X'7FFFFFFFF'	
4243	01	00F71	7FFFFFFFF	A	DATA	X'7FFFFFFFF'	
4244	01	00F72	FFFFFFFFA	AH04	DATA	-6	AH
4245	01	00F73	50C0000C	A	AH,12	12	
4246	01	00F74	2730018F		K	2,7,3,FXP8SW	
4247	01	00F75	57300084		K	5,7,3,FP8RET+1	
4248	01	00F76	7FFF8001	A	DATA	X'7FFF8001'	
4249	01	00F77	80000000	A	DATA	X'180000000'	
4250					PAGE		
4251	01	00F78	FFFFFFFFA	AI01	DATA	-6	AI
4252	01	00F79	20C70000	A	AI,12	X'170000'	
4253	01	00F7A	7730018F		K	7,7,3,FXP8SW	
4254	01	00F7B	1730016A		K	1,7,3,L8C+2	
4255	01	00F7C	80000000	A	DATA	X'180000000'	
4256	01	00F7D	80070000	A	DATA	X'180070000'	
4257	01	00F7E	FFFFFFFFA	AI02	DATA	-6	AI
4258	01	00F7F	20C80000	A	AI,12	X'180000'	
4259	01	00F80	1730018F		K	1,7,3,FXP8SW	
4260	01	00F81	E7300084		K	14,7,3,FP8RET+1	
4261	01	00F82	80000000	A	DATA	X'180000000'	
4262	01	00F83	7FF8000C	A	DATA	X'7FF8000C'	
4263	01	00F84	FFFFFFFFC	AI03	DATA	-4	AI *
4264	01	00F85	A0C0045A		AI,12	*1A	
4265	01	00F86	17300184		K	1,7,3,RI9NA8	
4266	01	00F87	97300063		K	9,7,3,N8RET+1	
4267					PAGE		

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SIGMA 7 CPU DIAGNOSTIC-AUT0 704044-51B00 MARCH 10,1969 121
4268 01 00F88 FFFFFFFF A ADO1 DATA -12 AD
4269 01 00F89 10C00460 AD,12 MEMORY
4270 01 00F8A 773001BF K 7,7,3,FXP8SW
4271 01 00F8B 8730016A K 8,7,3,L8C+2
4272 01 00F8C FFFFFFFF A DATA -1
4273 01 00F8D 00000000 A DATA 0
4274 01 00F8E 00000000 A DATA 0
4275 01 00F8F 00000000 A DATA 0
4276 01 00F90 FFFFFFFF A DATA -1
4277 01 00F91 00000000 A DATA 0
4278 01 00F92 00000001 A DATA 1
4279 01 00F93 00000001 A DATA 1
4280 01 00F94 FFFFFFFF A ADO2 DATA -12 AD X BF TRAP
4281 01 00F95 10C20462 AD,12 MEMORY+2,1
4282 01 00F96 2730014F K 2,7,3,FXP8SW
4283 01 00F97 57300084 K 5,7,3,FXP8RET+1
4284 01 00F98 7FFFFFFF A DATA X'7FFFFFFF'
4285 01 00F99 80000000 A DATA X'80000000'
4286 01 00F9A 00000000 A DATA 0
4287 01 00F9B 00000000 A DATA 0
4288 01 00F9C FFFFFFFF A DATA -1
4289 01 00F9D 00000000 A DATA 0
4290 01 00F9E 00000001 A DATA 1
4291 01 00F9F 00000001 A DATA 1
4292 01 00FA0 FFFFFFFF A ADO3 DATA -12 AD * BF NTRAP
4293 01 00FA1 90C0045A AD,12 +IA
4294 01 00FA2 172001BF K 1,7,2,FXP8SW
4295 01 00FA3 E720016A K 14,7,2,L8C+2
4296 01 00FA4 87654321 A DATA X'87654321'
4297 01 00FA5 7FFFFFFF A DATA X'7FFFFFFF'
4298 01 00FA6 F89ABCDE A DATA X'F89ABCDE'
4299 01 00FA7 F89ABCDE A DATA X'F89ABCDE'
4300 01 00FA8 0FEDCBA9 A DATA X'0FEDCBA9'
4301 01 00FA9 FFFFFFFF A DATA -1
4302 01 00FAA F0123456 A DATA X'F0123456'
4303 01 00FAB F0123456 A DATA X'F0123456'
4304 PAGE

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SIGMA 7 CPU DIAGNOSTIC-AUT0 704044-51B00 MARCH 10,1969 122
4305 01 00FAC FFFFFFFF A ADO4 DATA -12 AD MB TRAP
4306 01 00FAD 10C00461 AD,12 MEMBRY+1
4307 01 00FAE F73001BF K 15,7,3,FXP8SW
4308 01 00FAF 1730016A K 1,7,3,L8C+2
4309 01 00FB0 83759624 A DATA X'83759624'
4310 01 00FB1 F5D02CDA A DATA X'F5D02CDA'
4311 01 00FB2 725A96B5 A DATA X'725A96B5'
4312 01 00FB3 725A96B5 A DATA X'725A96B5'
4313 01 00FB4 F65219AC A DATA X'F65219AC'
4314 01 00FB5 2FA47D20 A DATA X'2FA47D20'
4315 01 00FB6 39526374 A DATA X'39526374'
4316 01 00FB7 39526374 A DATA X'39526374'
4317
4318 01 00FB8 FFFFFFFF A ** CHECK THAT OVERFLOW OF LSW DOES NOT CAUSE AN OVERFLOW
4319 01 00FB9 10C00460 ADO5 DATA -12
4320 01 00FBA 0730013A AD,12 MEMORY
4321 01 00FBB 2730016A K 0,7,3,SETPSW
4322 01 00FBC 00000000 A K 2,7,3,L8C+2
01 00FBD 00000000 A DATA 0,0,0,X'40000000',X'80000000'
01 00FBE 00000000 A
01 00FBF 00000000 A
01 00FC0 40000000 A
01 00FC1 80000000 A
4323 01 00FC2 40000000 A DATA X'40000000',X'40000000'
01 00FC3 40000000 A
4324 PAGE
4325 ** CHECK K15= PR16-31.K31, K19= PR20-31.K31, K23=PR24-31.K31
4326 ** K27 = PR2831.K31
4327 01 00FC4 FFFFFFFF A ADO6 DATA -12
4328 01 00FC5 10C00460 AD,12 MEMORY
4329 01 00FC6 0730013A K 0,7,3,SETPSW
4330 01 00FC7 2730016A K 2,7,3,L8C+2
4331 01 00FC8 00000000 A DATA 0,X'10000',X'FFFF',X'FFFF'
01 00FC9 00010000 A
01 00FCA 0000FFFF A
01 00FCB 0000FFFF A
4332 01 00FCC 80000000 A DATA X'80000000',0,X'80000000',X'80000000'

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```

01 00FCD 00000000 A
01 00FCE 80000000 A
01 00FCF 80000000 A
4333
4334
4335
4336 01 00FD0 FFFFFFFF A AWM01 DATA -8 AWM OF NTRAP
4337 01 00FD1 66C00460 AWM,12 MEMORY
4338 01 00FD2 273001BF K 2,7,3,FXP8SW
4339 01 00FD3 57300084 K 5,7,3,FPBRET+1
4340 01 00FD4 2375694B A DATA X'2375694B'
4341 01 00FD5 2375694B A DATA X'2375694B'
4342 01 00FD6 7235641C A DATA X'7235641C'
4343 01 00FD7 95AACD57 A DATA X'95AACD57'
4344 01 00FD8 FFFFFFFF A AWM02 DATA -8 AWM X
4345 01 00FD9 66C26DE8 AWM,12 MEMORY-X'19675',1
4346 01 00FDA F73001BF K 15,7,3,FXP8SW
4347 01 00FDB A730016A K 10,7,3,L8C+2
4348 01 00FDC F3219675 A DATA X'F3219675'
4349 01 00FDD F3219675 A DATA X'F3219675'
4350 01 00FDE 691ABCDE A DATA X'691ABCDE'
4351 01 00FDF 5C3C5353 A DATA X'5C3C5353'
4352
4353 01 00FE0 FFFFFFFF A AWM03 DATA -8 AWM *
4354 01 00FE1 E6C0045A AWM,12 *IA
4355 01 00FE2 773001BF K 7,7,3,FXP8SW
4356 01 00FE3 8730016A K 8,7,3,L8C+2
4357 01 00FE4 00000007 A DATA 7
4358 01 00FE5 00000007 A DATA 7
4359 01 00FE6 FFFFFFFF A DATA -7
4360 01 00FE7 00000000 A DATA 0
4361
4362 01 00FE8 FFFFFFFF A ** AWM WITH IX AND IA
4363 01 00FE9 E6CE045A AWM04 DATA -12
4364 01 00FEA F000013A AWM,12 *IA,7
4365 01 00FEB 2000016A K 15,0,0,SETPSW
4366 01 00FEC 00000007 A K 2,0,0,L8C+2
DATA 7,7,MEMORY,MEMORY,-1,-1,1,8
    
```

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01 00FED 00000007 A
01 00FEE 00000460
01 00FEF 00000460
01 00FF0 FFFFFFFF A
01 00FF1 FFFFFFFF A
01 00FF2 00000001 A
01 00FF3 00000008 A
4367
4368 01 00FF4 FFFFFFFF A SH01 PAGE
4369 01 00FF5 58C00460 SH,12 DATA -8 SH OF NTRAP
4370 01 00FF6 072001BF K MEMORY
4371 01 00FF7 E720016A K 0,7,2,FXP8SW
4372 01 00FF8 80003946 A K 14,7,2,L8C+2
4373 01 00FF9 7FFFFFFF A DATA X'80003946'
4374 01 00FFA 3947F261 A DATA X'7FFFFFFF'
4375 01 00FFB 3947F261 A DATA X'3947F261'
4376 01 00FFC FFFFFFFF A SH02 DATA -8 SH X OF TRAP
4377 01 00FFD 58CE0460 SH,12 MEMORY,7
4378 01 00FFE 773001BF K 7,7,3,FXP8SW
4379 01 00FFF 57300084 K 5,7,3,FPBRET+1
4380 01 01000 7FFF8375 A DATA X'7FFF8375'
4381 01 01001 80002834 A DATA X'80002834'
4382 01 01002 7FFF8841 A DATA X'7FFF8841'
4383 01 01003 7FFF8841 A DATA X'7FFF8841'
4384 01 01004 FFFFFFFF A SH03 DATA -8 SH *X
4385 01 01005 D8CE045A SH,12 *IA,7
4386 01 01006 0730013A K 0,7,3,SETPSW
4387 01 01007 8730016A K 8,7,3,L8C+2
4388 01 01008 00000000 A DATA 0
4389 01 01009 00000000 A DATA 0
4390 01 0100A FFFF0000 A DATA X'FFF0000'
4391 01 0100B FFFF0000 A DATA X'FFF0000'
4392
4393 01 0100C FFFFFFFF A SDO1 PAGE
4394 01 0100D 18C00460 SD,12 DATA -12 SD
4395 01 0100E 0730013A K MEMORY
4396 01 0100F 1730016A K 0,7,3,SETPSW
DATA 1,7,3,L8C+2
    
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SIGMA 7 CPU DIAGNOSTIC-AUTB 704044-51B00 MARCH 10,1969 125

4397	01	01010	37562981 A	DATA	X'37562981'					
4398	01	01011	FFFFFFFF A	DATA	-1					
4399	01	01012	37562981 A	DATA	X'37562981'					
4400	01	01013	37562981 A	DATA	X'37562981'					
4401	01	01014	8548A76C A	DATA	X'8548A76C'					
4402	01	01015	FFFFFFFF A	DATA	-1					
4403	01	01016	8548A76D A	DATA	X'8548A76D'					
4404	01	01017	8548A76D A	DATA	X'8548A76D'					
4405	01	01018	FFFFFFFF4 A	SD02	DATA	-12	SD *	OF	TRAP	
4406	01	01019	98C0045A		SD,12	*1A				
4407	01	0101A	1730018F		K	1,7,3,FXP0SW				
4408	01	0101B	E7300084		K	14,7,3,FP8RET+1				
4409	01	0101C	80000000 A		DATA	X'80000000'				
4410	01	0101D	7FFFFFFFF A		DATA	X'7FFFFFFFF'				
4411	01	0101E	00000000 A		DATA	0				
4412	01	0101F	00000000 A		DATA	0				
4413	01	01020	00000000 A		DATA	0				
4414	01	01021	FFFFFFFF A		DATA	-1				
4415	01	01022	00000001 A		DATA	1				
4416	01	01023	00000001 A		DATA	1				
4417	01	01024	FFFFFFFF4 A	SD03	DATA	-12	SD X			
4418	01	01025	18C39770		SD,12	MEMORY-X'ACF0',1				
4419	01	01026	5730018F		K	5,7,3,FXP0SW				
4420	01	01027	A730016A		K	10,7,3,L8C+2				
4421	01	01028	12345678 A		DATA	X'12345678'				
4422	01	01029	00000000 A		DATA	0				
4423	01	0102A	12345678 A		DATA	X'12345678'				
4424	01	0102B	12345678 A		DATA	X'12345678'				
4425	01	0102C	9ABCDEF1 A		DATA	X'9ABCDEF1'				
4426	01	0102D	00000001 A		DATA	1				
4427	01	0102E	9ABCDEF0 A		DATA	X'9ABCDEF0'				
4428	01	0102F	9ABCDEF0 A		DATA	X'9ABCDEF0'				
4429					PAGE					
4430	01	01030	FFFFFFFF4 A	SD04	DATA	-12	SD	M0	OF	TRAP
4431	01	01031	18C00451		SD,12	MEMORY+1				
4432	01	01032	F730018F		K	15,7,3,FXP0SW				
4433	01	01033	57300084		K	5,7,3,FP8RET+1				

SIGMA 7 CPU DIAGNOSTIC-AUTB 704044-51B00 MARCH 10,1969 126

4434	01	01034	798436AB A	DATA	X'798436AB'				
4435	01	01035	F54ABF33 A	DATA	X'F54ABF33'				
4436	01	01036	84397777 A	DATA	X'84397777'				
4437	01	01037	84397777 A	DATA	X'84397777'				
4438	01	01038	E319C566 A	DATA	X'E319C566'				
4439	01	01039	EC87B211 A	DATA	X'EC87B211'				
4440	01	0103A	F6921355 A	DATA	X'F6921355'				
4441	01	0103B	F6921355 A	DATA	X'F6921355'				
4442					PAGE				
4443						** LOGICAL SHIFT LEFT OF 31. CHECKS THAT ALL SET AND RESET INPUTS			
4444						** EXCEPTING BIT 0 AND 31 WORK PROPERLY			
4445	01	0103C	FFFFFFFF6 A	SD01	DATA	-10			
4446	01	0103D	25C0001F A		S,12	31			
4447	01	0103E	F730013A		K	15,7,3,SETPSW			
4448	01	0103F	7730016A		K	7,7,3,L8C+2			
4449	01	01040	00000001 A		DATA	1,X'80000000',-1,-1,-1,-1			
	01	01041	80000000 A						
	01	01042	FFFFFFFF A						
	01	01043	FFFFFFFF A						
	01	01044	FFFFFFFF A						
	01	01045	FFFFFFFF A						
4450						** ARITH SHIFT LEFT. VERIFIES BIT 0 AND EVEN PARITY. SHIFT OF 8			
4451	01	01046	FFFFFFFF6 A	SD02	DATA	-10			
4452	01	01047	25C00408 A		S,12	X'408'			
4453	01	01048	8000013A		K	8,0,0,SETPSW			
4454	01	01049	4000016A		K	4,0,0,L8C+2			
4455	01	0104A	C3A53C5A A		DATA	X'C3A53C5A',X'A53C5A00',0,0,-1,-1			
	01	0104B	A53C5A00 A						
	01	0104C	00000000 A						
	01	0104D	00000000 A						
	01	0104E	FFFFFFFF A						
	01	0104F	FFFFFFFF A						
4456						** LOGICAL SHIFT LEFT DOUBLE. CHECK B REG INPUTS. SHIFT OF 33 BITS			
4457	01	01050	FFFFFFFF6 A	SD03	DATA	-10			
4458	01	01051	25C00121 A		S,12	X'121'			
4459	01	01052	C000013A		K	12,0,0,SETPSW			
4460	01	01053	0000016A		K	0,0,0,L8C+2			

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4461 01 01054 00000000 A DATA 0,2,-1,-1,1,0
      01 01055 00000002 A
      01 01056 FFFFFFFF A
      01 01057 FFFFFFFF A
      01 01058 00000001 A
      01 01059 00000000 A

4462                                     PAGE
4463                                     ** LOGICAL SHIFT LEFT DOUBLE. PARITY ODD. SHIFT OF 12 BITS
4464 01 0105A FFFFFFFF A S004 DATA -10
4465 01 0105B 25C0010C A S,12 X'10C'
4466 01 0105C 0730013A K 0,7,3,SETPSW
4467 01 0105D C730016A K 12,7,3,L8C+2
4468 01 0105E B5C35A3C A DATA X'B5C35A3C',X'35A3C3CA',0,0,X'3CA5C35A',X'5C35A000'
      01 0105F 35A3C3CA A
      01 01060 00000000 A
      01 01061 00000000 A
      01 01062 3CA5C35A A
      01 01063 5C35A000 A

4469                                     ** CYCLICAL SHIFT LEFT SINGLE. SHIFT 16 BITS
4470 01 01064 FFFFFFFF A S005 DATA -10
4471 01 01065 25C00210 A S,12 X'210'
4472 01 01066 0000013A K 0,0,0,SETPSW
4473 01 01067 4000016A K 4,0,0,L8C+2
4474 01 01068 3CA5C35A A DATA X'3CA5C35A',X'C35A3CA5',0,0,X'FFFF',X'FFFF'
      01 01069 C35A3CA5 A
      01 0106A 00000000 A
      01 0106B 00000000 A
      01 0106C 0000FFFF A
      01 0106D 0000FFFF A

4475                                     ** CYCLICAL SHIFT LEFT SINGLE. ODD REGISTER. SHIFT 16 BITS
4476 01 0106E FFFFFFFF A S006 DATA -10
4477 01 0106F 25D00210 A S,13 X'210'
4478 01 01070 0000013A K 0,0,0,SETPSW
4479 01 01071 4000016A K 4,0,0,L8C+2
4480 01 01072 A5A5C3C3 A DATA X'A5A5C3C3',-1,-1,X'C53AA3C5',X'A3C5C53A'
      01 01073 A5A5C3C3 A
      01 01074 FFFFFFFF A
  
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4481 01 01075 FFFFFFFF A
      01 01076 C53AA3C5 A
      01 01077 A3C5C53A A

4482                                     PAGE
4483 01 01078 FFFFFFFF A S007 DATA -10
4484 01 01079 25C00320 A S,12 X'320'
4485 01 0107A F730013A K 15,7,3,SETPSW
4486 01 0107B 7730016A K 7,7,3,L8C+2
4487 01 0107C EDB77BDE A DATA X'EDB77BDE',X'A53C5AC3',0,0,X'A53C5AC3',X'EDB77BDE'
      01 0107D A53C5A3C A
      01 0107E 00000000 A
      01 0107F 00000000 A
      01 01080 A53C5AC3 A
      01 01081 EDB77BDE A

4488                                     ** CYCLICAL LEFT SHIFT DOUBLE. SHIFT OF MAX COUNT (EQUIVALENT TO SHIFT
4489                                     ** RIGHT CYCLICAL BY 1 BIT)
4490 01 01082 FFFFFFFF A S008 DATA -10
4491 01 01083 25C0033F A S,12 X'33F'
4492 01 01084 0730013A K 0,7,3,SETPSW
4493 01 01085 4730016A K 4,7,3,L8C+2
4494 01 01086 5A5A5A5A A DATA X'5A5A5A5A',X'2D2D2D2D',0,0,X'5A5A5A5A',X'2D2D2D2D'
      01 01087 2D2D2D2D A
      01 01088 00000000 A
      01 01089 00000000 A
      01 0108A 5A5A5A5A A
      01 0108B 2D2D2D2D A

4495                                     PAGE
4496                                     ** LOGICAL SHIFT RIGHT. ODD REGISTER. TEST SET OF ODD BITS. SHIFT OF 31
4497 01 0108C FFFFFFFF A S009 DATA -10
4498 01 0108D 25D00061 A S,13 X'61'
4499 01 0108E F730013A K 15,7,3,SETPSW
4500 01 0108F 3730016A K 3,7,3,L8C+2
4501 01 01090 00000000 A DATA 0,0,0,X'80000000',1
      01 01091 00000000 A
      01 01092 00000000 A
      01 01093 00000000 A
  
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01 01094 80000000 A
01 01095 00000001 A
4502
4503 01 01096 FFFFFFFF A ** LOGICAL SHIFT RIGHT. TEST SET OF EVEN BIT POSITIONS. SHIFT OF 30
4504 01 01097 25C00062 A S010 DATA -6
4505 01 01098 0000013A K 0,0,0,SETPSW S,12 X'62'
4506 01 01099 0000016A K 0,0,0,L8C+2 DATA X'80000000',2
4507 01 0109A 80000000 A
01 0109B 00000002 A
4508
4509 01 0109C FFFFFFFF A ** ARITH SHIFT RIGHT. FILL WITH ONES. SHIFT OF 12 BITS
4510 01 0109D 25C00474 A S011 DATA -6
4511 01 0109E 0000013A DATA X'474'
01 0109F 0000016A SETPSW,L8C+2,X'ASASASAS',X'FFFA5A5A'
01 010A0 ASASASAS A
01 010A1 FFFA5A5A A
4512
4513
4514
4515 01 010A2 FFFFFFFF A PAGE
4516 01 010A3 25C0055E A ** ARITH SHIFT RIGHT. FILL WITH ZEROS. DOUBLE REG. SHIFT OF 34 BITS
4517 01 010A4 0000013A ** CHECKS SET OF ODD B REG BITS
01 010A5 0000016A S012 DATA -10
01 010A6 00000005 A S,12 X'55E'
01 010A7 00000000 A DATA SETPSW,L8C+2,5,0,7,7,0,1
01 010A8 00000007 A
01 010A9 00000007 A
01 010AA 00000000 A
01 010AB 00000001 A
4518
4519 01 010AC FFFFFFFF A ** ARITH SHIFT RIGHT. FILL WITH ONES. DOUBLE REG. SHIFT OF 31 BITS
4520 01 010AD 25C0055E A S013 DATA -10
4521 01 010AE 0000013A S,12 X'561'
01 010AF 0000016A DATA SETPSW,L8C+2,X'C3C3C3C3',-1,0,0,X'80005AC3'
01 010B0 C3C3C3C3 A
01 010B1 FFFFFFFF A
01 010B2 00000000 A
    
```

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01 010B3 00000000 A
01 010B4 80005AC3 A
4522 01 010B5 87878787 A DATA X'87878787'
4523
4524 01 010B6 FFFFFFFF A ** CIRCULAR RIGHT SHIFT SINGLE REG. 13 BITS
4525 01 010B7 25C00273 A S014 DATA -6
4526 01 010B8 0000013A S,12 X'273'
01 010B9 0000016A DATA SETPSW,L8C+2,X'ASASASAS',X'2D2D2D2D'
01 010BA ASASASAS A
01 010BB 2D2D2D2D A
4527
4528
4529
4530 01 010BC FFFFFFFF A PAGE
4531 01 010BD 25C00273 A ** CIRCULAR RIGHT SHIFT SINGLE REGISTER. 13 BITS
01 010BE 0000013A S015 DATA -6
01 010BF 0000016A S,12 X'273'
01 010C0 ASASASAS A DATA SETPSW,L8C+2,X'ASASASAS',X'D2D2D2D2'
01 010C1 D2D2D2D2 A
4532
4533 01 010C2 FFFFFFFF A ** CIRCULAR RIGHT SHIFT DOUBLE REGISTER 13 BITS
4534 01 010C3 25C00373 A S016 DATA -10
4535 01 010C4 0000013A S,12 X'373'
01 010C5 0000016A DATA SETPSW,L8C+2,X'CA35CA35',X'2D2E51AE',0,0
01 010C6 CA35CA35 A
01 010C7 2D2E51AE A
01 010C8 00000000 A
01 010C9 00000000 A
4536 01 010CA ASASASAS A DATA X'ASASASAS',X'51AD2D2D'
01 010CB 51AD2D2D A
4537
4538 01 010CC FFFFFFFF A ** CIRCULAR RIGHT SHIFT DOUBLE REGISTER. 13 BITS
4539 01 010CD 25C00373 A S017 DATA -10
4540 01 010CE 0000013A S,12 X'373'
01 010CF 0000016A DATA SETPSW,L8C+2,X'5C3A35AC',X'D2D2E1D1',0,0
01 010D0 5C3A35AC A
01 010D1 D2D2E1D1 A
01 010D2 00000000 A
    
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4541 01 010D3 00000000 A
01 010D4 5A5A5A5A A DATA X'5A5A5A5A',X'AD62D2D2'
01 010D5 AD62D2D2 A

4542 PAGE
4543 ** CIRCULAR RIGHT SHIFT. IA. 8DD REG. MAX SHIFT COUNT OF 64
4544 01 010D6 FFFFFFFF A S018 DATA -10
4545 01 010D7 A5D00490 S,13 *MEMORY
4546 01 010D8 0000013A DATA SETPSW,L8C+2,-1,-1,X'340',X'340',1,1
01 010D9 0000019A
01 010DA FFFFFFFF A
01 010DB FFFFFFFF A
01 010DC 00000390 A
01 010DD 00000340 A
01 010DE 00000001 A
01 010DF 00000001 A

4547 ** ARITH RIGHT SHIFT. INDEXING. SHIFT OF 1
4548 01 010E0 FFFFFFFF A S019 DATA -8
4549 01 010E1 25C2FFCF A S,12 X'FFCF',1
4550 01 010E2 0000013A DATA SETPSW,L8C+2
01 010E3 0000016A
4551 01 010E4 00000430 A DATA X'430',X'218',X'FFF4F',X'FFF4F'
01 010E5 00000218 A
01 010E6 000FFF4F A
01 010E7 000FFF4F A

4552 ** ARITH LEFT SHIFT. IA AND IX. SHIFT OF 0
4553 01 010E8 FFFFFFFF A S020 DATA -8
4554 01 010E9 A5CE000C A S,12 *12,7
4555 01 010EA 0000013A DATA SETPSW,L8C+2,X'47F',X'47F',1,1
01 010EB 0000016A
01 010EC 0000047F A
01 010ED 0000047F A
01 010EE 00000001 A
01 010EF 00000001 A

4556 PAGE
4557 01 010F0 FFFFFFFF A S01 DATA -6 ALS 1 OF SL1 ALT 1'S + 0'S
4558 01 010F1 25C00401 A S,12 X'401' O INT8 A31
4559 01 010F2 0730018F K 0,7,3,FXP8SW 6VF 01
    
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4560 01 010F3 4730016A K 4,7,3,L8C+2
4561 01 010F4 55555555 A DATA X'55555555'
4562 01 010F5 AAAAAAAAAA A DATA X'AAAAAAAAA'
4563 01 010F6 FFFFFFFF A S02 DATA -6 ALS 1
4564 01 010F7 25C00401 A S,12 X'401'
4565 01 010F8 3730018F K 3,7,3,FXP8SW
4566 01 010F9 F730016A K 15,7,3,L8C+2
4567 01 010FA AAAAAAAAAA A DATA X'AAAAAAAAA'
4568 01 010FB 55555554 A DATA X'55555554'
4569 01 010FC FFFFFFFF A S03 DATA -6 ALS 4 SL4 ALT 1'S + 0'S
4570 01 010FD 25C00404 A S,12 X'404' PARITY 1111
4571 01 010FE 3730018F K 3,7,3,FXP8SW 6VF 10
4572 01 010FF 7730016A K 7,7,3,L8C+2
4573 01 01100 F0F0F0F0 A DATA X'F0F0F0F0'
4574 01 01101 0F0F0F00 A DATA X'0F0F0F00'
4575 01 01102 FFFFFFFF A S04 DATA -6 ALS 4
4576 01 01103 25C00404 A S,12 X'404' PARITY 0000
4577 01 01104 F730018F K 15,7,3,FXP8SW
4578 01 01105 7730016A K 7,7,3,L8C+2
4579 01 01106 0F0F0F0F A DATA X'0F0F0F0F'
4580 01 01107 F0F0F0F0 A DATA X'F0F0F0F0'
4581 01 01108 FFFFFFFF A S05 DATA -6 ALS 0 SUIFT 0
4582 01 01109 25C00400 A S,12 X'400'
4583 01 0110A F730013A K 15,7,3,SETPSW
4584 01 0110B 3730016A K 3,7,3,L8C+2
4585 01 0110C 40000000 A DATA X'40000000'
4586 01 0110D 40000000 A DATA X'40000000'
4587 01 0110E FFFFFFFF A S06 DATA -6 ALS 2 2-SL1
4588 01 0110F 25C00402 A S,12 X'402'
4589 01 01110 0730013A K 0,7,3,SETPSW
4590 01 01111 4730016A K 4,7,3,L8C+2
4591 01 01112 02345678 A DATA X'D2345678'
4592 01 01113 48D159E0 A DATA X'48D159E0'
4593 PAGE
4594 01 01114 FFFFFFFF A S07 DATA -8 ALS 3 * 3-SL1
4595 01 01115 A5C00460 S,12 *MEMORY
4596 01 01116 3730013A K 3,7,3,SETPSW
    
```

4597	01	01117	8730016A		K	11,7,3,L8C+2	
4598	01	01118	F2345678 A		DATA	X'F2345678'	
4599	01	01119	91A283C0 A		DATA	X'91A283C0'	
4600	01	0111A	00000403 A		DATA	X'403'	
4601	01	0111B	00000403 A		DATA	X'403'	
4602	01	0111C	FFFFFFFF A	S08	DATA	-6	ALS 29
4603	01	0111D	25C0041D A		S,12	X'41D'	
4604	01	0111E	0730013A		K	0,7,3,SETPSW	
4605	01	0111F	4730016A		K	4,7,3,L8C+2	
4606	01	01120	12345674 A		DATA	X'12345674'	
4607	01	01121	80000000 A		DATA	X'80000000'	
4608	01	01122	FFFFFFFF A	S09	DATA	-6	ALS 27 X
4609	01	01123	25C2042B A		S,12	X'42B',1	
4610	01	01124	0730013A		K	0,7,3,SETPSW	
4611	01	01125	8730016A		K	8,7,3,L8C+2	
4612	01	01126	FFFFFFFF0 A		DATA	-16	
4613	01	01127	80000000 A		DATA	X'80000000'	
4614	01	01128	FFFFFFFF A	S10	DATA	-6	LLS 1
4615	01	01129	25C00001 A		S,12	1	0 INT8 A31
4616	01	0112A	7730013A		K	7,7,3,SETPSW	8VF 00
4617	01	0112B	3730016A		K	3,7,3,L8C+2	
4618	01	0112C	3C3C3C3C A		DATA	X'3C3C3C3C'	
4619	01	0112D	78787878 A		DATA	X'78787878'	
4620	01	0112E	FFFFFFFF A	S11	DATA	-6	LLS 1 X
4621	01	0112F	25C2003E A		S,12	X'3E',1	
4622	01	01130	8730013A		K	8,7,3,SETPSW	8VF 11
4623	01	01131	8730016A		K	8,7,3,L8C+2	
4624	01	01132	C3C3C3C3 A		DATA	X'C3C3C3C3'	
4625	01	01133	37878786 A		DATA	X'87878786'	
4626					PAGE		
4627	01	01134	FFFFFFFF8 A	S12	DATA	-8	LLS 4
4628	01	01135	A5C00400 A		S,12	+MEMORY	
4629	01	01136	0730013A		K	0,7,3,SETPSW	
4630	01	01137	C730016A		K	1,7,3,L8C+2	
4631	01	01138	23456789 A		DATA	X'23456789'	
4632	01	01139	34567890 A		DATA	X'34567890'	
4633	01	0113A	00000004 A		DATA	4	

4634	01	0113B	00000004 A		DATA	4	
4635	01	0113C	FFFFFFFF A	S13	DATA	-6	LLS 4
4636	01	0113D	25C00004 A		S,12	4	PARITY 0001
4637	01	0113E	F730013A		K	15,7,3,SETPSW	
4638	01	0113F	F730016A		K	15,7,3,L8C+2	
4639	01	01140	12345678 A		DATA	X'12345678'	
4640	01	01141	23456780 A		DATA	X'23456780'	
4641	01	01142	FFFFFFFF A	S14	DATA	-6	LLS 4
4642	01	01143	25C00004 A		S,12	4	PARITY 0011
4643	01	01144	0730013A		K	0,7,3,SETPSW	
4644	01	01145	4730016A		K	4,7,3,L8C+2	
4645	01	01146	3456789A A		DATA	X'3456789A'	
4646	01	01147	456789A0 A		DATA	X'456789A0'	
4647	01	01148	FFFFFFFF A	S15	DATA	-6	LLS 4
4648	01	01149	25C00004 A		S,12	4	PARITY 0100
4649	01	0114A	0730013A		K	0,7,3,SETPSW	
4650	01	0114B	C730016A		K	12,7,3,L8C+2	
4651	01	0114C	456789AB A		DATA	X'456789AB'	
4652	01	0114D	56789AB0 A		DATA	X'56789AB0'	
4653	01	0114E	FFFFFFFF A	S16	DATA	-6	LLS 4
4654	01	0114F	25C00004 A		S,12	4	PARITY 0101
4655	01	01150	3730013A		K	3,7,3,SETPSW	
4656	01	01151	7730016A		K	7,7,3,L8C+2	
4657	01	01152	56789ABC A		DATA	X'56789ABC'	
4658	01	01153	6789ABCO A		DATA	X'6789ABCO'	
4659					PAGE		
4660	01	01154	FFFFFFFF A	S17	DATA	-6	LLS 4
4661	01	01155	25C00004 A		S,12	4	PARITY 0110
4662	01	01156	0730013A		K	0,7,3,SETPSW	
4663	01	01157	4730016A		K	4,7,3,L8C+2	
4664	01	01158	6789ABCD A		DATA	X'6789ABCD'	
4665	01	01159	789ABCDO A		DATA	X'789ABCDO'	
4666	01	0115A	FFFFFFFF A	S18	DATA	-6	LLS 4
4667	01	0115B	25C00004 A		S,12	4	PARITY 0111
4668	01	0115C	A730013A		K	10,7,3,SETPSW	
4669	01	0115D	E730016A		K	14,7,3,L8C+2	
4670	01	0115E	789ABCDE A		DATA	X'789ABCDE'	

4671	01	0115F	89ABCDE0	A		DATA	X'89ABCDE0'	
4672	01	01160	FFFFFFFF	A	S19	DATA	-6	CLS 32
4673	01	01161	25C00020	A		S,12	X'20'	
4674	01	01162	0730013A			K	0,7,3,SETPSW	
4675	01	01163	C730016A			K	12,7,3,L8C+2	
4676	01	01164	00000001	A		DATA	1	
4677	01	01165	00000000	A		DATA	0	
4678	01	01166	FFFFFFFF	A	S20	DATA	-6	CLS 30
4679	01	01167	25C0001E	A		S,12	X'1E'	
4680	01	01168	3730013A			K	3,7,3,SETPSW	
4681	01	01169	F730016A			K	15,7,3,L8C+2	
4682	01	0116A	89ABCDE7	A		DATA	X'89ABCDE7'	
4683	01	0116B	C0000000	A		DATA	X'C0000000'	
4684	01	0116C	FFFFFFFF	A	S21	DATA	-6	CLS 1
4685	01	0116D	25C00201	A		S,12	X'201'	AO(1) INT0 A31
4686	01	0116E	0730013A			K	0,7,3,SETPSW	
4687	01	0116F	C730016A			K	12,7,3,L8C+2	AO-A1(10)INT0 A30 A31
4688	01	01170	89ABCDE0	A		DATA	X'89ABCDE0'	
4689	01	01171	13579BC1	A		DATA	X'13579BC1'	
4690	01	01172	FFFFFFFF	A	S22	DATA	-6	CLS 2 X
4691	01	01173	25C20222	A		S,12	X'222',1	
4692	01	01174	F730013A			K	15,7,3,SETPSW	
4693	01	01175	F730016A			K	15,7,3,L8C+2	
4694	01	01176	91234560	A		DATA	X'91234560'	
4695	01	01177	448D1582	A		DATA	X'448D1582'	
4696						PAGE		
4697	01	01178	FFFFFFFF	A	S23	DATA	-6	CLS 3 3-SL1
4698	01	01179	25C00203	A		S,12	X'203'	
4699	01	0117A	3730013A			K	3,7,3,SETPSW	
4700	01	0117B	7730016A			K	7,7,3,L8C+2	
4701	01	0117C	76543210	A		DATA	X'76543210'	
4702	01	0117D	B2A19083	A		DATA	X'B2A19083'	
4703	01	0117E	FFFFFFFF	A	S24	DATA	-6	CLS 4
4704	01	0117F	25C00204	A		S,12	X'204'	PARITY 1000
4705	01	01180	F730013A			K	15,7,3,SETPSW	
4706	01	01181	F730016A			K	15,7,3,L8C+2	
4707	01	01182	89ABCDE0	A		DATA	X'89ABCDE0'	

4708	01	01183	9ABCDE08	A		DATA	X'9ABCDE08'	
4709	01	01184	FFFFFFFF	A	S25	DATA	-6	CLS 4
4710	01	01185	25C00204	A		S,12	X'204'	PARITY 1001
4711	01	01186	0730013A			K	0,7,3,SETPSW	
4712	01	01187	4730016A			K	4,7,3,L8C+2	
4713	01	01188	9ABCDE00	A		DATA	X'9ABCDE00'	
4714	01	01189	ABCDEF09	A		DATA	X'ABCDEF09'	
4715	01	0118A	FFFFFFFF	A	S26	DATA	-6	CLS 4
4716	01	0118B	25C00204	A		S,12	X'204'	PARITY 1010
4717	01	0118C	0730013A			K	0,7,3,SETPSW	
4718	01	0118D	4730016A			K	4,7,3,L8C+2	
4719	01	0118E	ABCDEF01	A		DATA	X'ABCDEF01'	
4720	01	0118F	BCDEF01A	A		DATA	X'BCDEF01A'	
4721	01	01190	FFFFFFFF	A	S27	DATA	-6	CLS 4
4722	01	01191	25C00204	A		S,12	X'204'	PARITY 1011
4723	01	01192	0730013A			K	0,7,3,SETPSW	
4724	01	01193	C730016A			K	12,7,3,L8C+2	
4725	01	01194	BCDEF012	A		DATA	X'BCDEF012'	
4726	01	01195	CDEF012B	A		DATA	X'CDEF012B'	
4727	01	01196	FFFFFFFF	A	S28	DATA	-6	CLS 4
4728	01	01197	25C00204	A		S,12	X'204'	PARITY 1100
4729	01	01198	0730013A			K	0,7,3,SETPSW	
4730	01	01199	4730016A			K	4,7,3,L8C+2	
4731	01	0119A	CDEF0123	A		DATA	X'CDEF0123'	
4732	01	0119B	DEF0123C	A		DATA	X'DEF0123C'	
4733						PAGE		
4734	01	0119C	FFFFFFFF	A	S29	DATA	-6	CLS 4
4735	01	0119D	25C00204	A		S,12	X'204'	PARITY 1101
4736	01	0119E	0730013A			K	0,7,3,SETPSW	
4737	01	0119F	C730016A			K	12,7,3,L8C+2	
4738	01	011A0	DEF01234	A		DATA	X'DEF01234'	
4739	01	011A1	EF01234D	A		DATA	X'EF01234D'	
4740	01	011A2	FFFFFFFF	A	S30	DATA	-6	CLS 4
4741	01	011A3	25C00204	A		S,12	X'204'	PARITY 1110
4742	01	011A4	3730013A			K	3,7,3,SETPSW	
4743	01	011A5	F730016A			K	15,7,3,L8C+2	
4744	01	011A6	EF012345	A		DATA	X'EF012345'	

SIGMA 7 CPU DIAGNOSTIC-AUTO 704044-51800 MARCH 10, 1969 137

4745	01	011A7	F012345E A		DATA	X'F012345E'	
4746	01	011A8	FFFFFFFFA A	S31	DATA	-6	CLS 63
4747	01	011A9	25C0023F A		S,12	X'23F'	
4748	01	011AA	0730013A		K	0,7,3,SETPSW	
4749	01	011AB	C730016A		K	12,7,3,L0C+2	
4750	01	011AC	76543211 A		DATA	X'76543211'	
4751	01	011AD	BB2A1908 A		DATA	X'BB2A1908'	
4752	01	011AE	FFFFFFFFA A	S32	DATA	-6	CLS 31
4753	01	011AF	25C0023F A		S,12	X'23F'	
4754	01	011B0	0730013A		K	0,7,3,SETPSW	
4755	01	011B1	C730016A		K	12,7,3,L0C+2	
4756	01	011B2	76543211 A		DATA	X'76543211'	
4757	01	011B3	BB2A1908 A		DATA	X'BB2A1908'	
4758	01	011B4	FFFFFFFF6 A	S33	DATA	-10	ALD 1 B0(0) INT0 A31
4759	01	011B5	25C00501 A		S,12	X'501'	(0) INT0 B31
4760	01	011B6	0730013A		K	0,7,3,SETPSW	
4761	01	011B7	0730016A		K	0,7,3,L0C+2	
4762	01	011B8	12345679 A		DATA	X'12345679'	
4763	01	011B9	2468ACF2 A		DATA	X'2468ACF2'	
4764	01	011BA	00000000 A		DATA	0	
4765	01	011BB	00000000 A		DATA	0	
4766	01	011BC	55555555 A		DATA	X'55555555'	
4767	01	011BD	AAAAAAAA A		DATA	X'AAAAAAAA'	
4768					PAGE		
4769	01	011BE	FFFFFFFF6 A	S34	DATA	-10	ALD 1 B0(1) INT0 A31
4770	01	011BF	25C00501 A		S,12	X'501'	
4771	01	011C0	0730013A		K	0,7,3,SETPSW	
4772	01	011C1	0730016A		K	0,7,3,L0C+2	
4773	01	011C2	12345678 A		DATA	X'12345678'	
4774	01	011C3	2468ACF1 A		DATA	X'2468ACF1'	
4775	01	011C4	00000000 A		DATA	0	
4776	01	011C5	00000000 A		DATA	0	
4777	01	011C6	AAAAAAAA8 A		DATA	X'AAAAAAAA8'	
4778	01	011C7	55555556 A		DATA	X'55555556'	
4779	01	011C8	FFFFFFFF6 A	S35	DATA	-10	ALD 35 *
4780	01	011C9	ASC00460		S,12	*MEMORY	
4781	01	011CA	0730013A		K	0,7,3,SETPSW	

SIGMA 7 CPU DIAGNOSTIC-AUTO 704044-51800 MARCH 10, 1969 138

4782	01	011CB	4730016A		K	4,7,3,L0C+2	
4783	01	011CC	CABBEDED A		DATA	X'CABBEDED'	
4784	01	011CD	91A2B3C0 A		DATA	X'91A2B3C0'	
4785	01	011CE	00000523 A		DATA	X'523'	
4786	01	011CF	00000523 A		DATA	X'523'	
4787	01	011D0	12345678 A		DATA	X'12345678'	
4788	01	011D1	00000000 A		DATA	0	
4789	01	011D2	FFFFFFFF6 A	S36	DATA	-10	ALD 17 X R0
4790	01	011D3	25D20547 A		S,13	X'547',1	
4791	01	011D4	0730013A		K	0,7,3,SETPSW	
4792	01	011D5	4730016A		K	4,7,3,L0C+2	
4793	01	011D6	1728394A A		DATA	X'1728394A'	
4794	01	011D7	1728394A A		DATA	X'1728394A'	
4795	01	011D8	00000000 A		DATA	0	
4796	01	011D9	00000000 A		DATA	0	
4797	01	011DA	92345678 A		DATA	X'92345678'	
4798	01	011DB	ACF12468 A		DATA	X'ACF12468'	
4799					PAGE		
4800	01	011DC	FFFFFFFF A	S37	DATA	-10	LLD 63
4801	01	011DD	25C0013F A		S,12	X'13F'	
4802	01	011DE	0730013A		K	0,7,3,SETPSW	
4803	01	011DF	8730016A		K	8,7,3,L0C+2	
4804	01	011E0	FFFFFFFF A		DATA	-1	
4805	01	011E1	80000000 A		DATA	X'80000000'	
4806	01	011E2	00000000 A		DATA	0	
4807	01	011E3	00000000 A		DATA	0	
4808	01	011E4	FFFFFFFF A		DATA	-1	
4809	01	011E5	00000000 A		DATA	0	
4810	01	011E6	FFFFFFFF6 A	S38	DATA	-10	LLD 47 X R0
4811	01	011E7	25D20107 A		S,13	X'107',1	
4812	01	011E8	0730013A		K	0,7,3,SETPSW	
4813	01	011E9	C730016A		K	12,7,3,L0C+2	
4814	01	011EA	584A3928 A		DATA	X'584A3928'	
4815	01	011EB	584A3928 A		DATA	X'584A3928'	
4816	01	011EC	00000000 A		DATA	0	
4817	01	011ED	00000000 A		DATA	0	
4818	01	011EE	23456789 A		DATA	X'23456789'	

SIGMA 7 CPU DIAGNOSTIC-AUTB 704044-51800 MARCH 10, 1969 139

4815	01	011EF	83C48000	A		DATA	X'1B3C48000'	
4820	01	011F0	FFFFFFFF	A	S39	DATA	-10	CLD 19
4821	01	011F1	25C00313	A		S,12	X'1313'	
4822	01	011F2	0730013A	A		K	0,7,3,SETPSW	
4823	01	011F3	4730016A	A		K	4,7,3,L8C+2	
4824	01	011F4	12345678	A		DATA	X'12345678'	
4825	01	011F5	83C4D5E6	A		DATA	X'1B3C4D5E6'	
4826	01	011F6	00000000	A		DATA	0	
4827	01	011F7	00000000	A		DATA	0	
4828	01	011F8	9ABCDEF0	A		DATA	X'9ABCDEF0'	
4829	01	011F9	F78091A2	A		DATA	X'F78091A2'	
4830	01	011FA	FFFFFFFF	A	S40	DATA	-6	ARS 2
4831	01	011FB	25C0047E	A		S,12	X'147E'	
4832	01	011FC	F73001BF	A		K	15,7,3,FXP8SW	
4833	01	011FD	3730016A	A		K	3,7,3,L8C+2	
4834	01	011FE	CCCCCCCC	A		DATA	X'CCCCCCCC'	
4835	01	011FF	F3333333	A		DATA	X'F3333333'	
4836						PAGE		
4837	01	01200	FFFFFFFF	A	S41	DATA	-6	ARS 2
4838	01	01201	25C0047E	A		S,12	X'147E'	
4839	01	01202	0000013A	A		DATA	SETPSW	
4840	01	01203	0000016A	A		DATA	L8C+2	
4841	01	01204	33333333	A		DATA	X'33333333'	
4842	01	01205	0CCCCCCC	A		DATA	X'0CCCCCCC'	
4843	01	01206	FFFFFFFF	A	S42	DATA	-6	ARS 1
4844	01	01207	25C0047F	A		S,12	X'147F'	
4845	01	01208	0000013A	A		DATA	SETPSW	
4846	01	01209	0000016A	A		DATA	L8C+2	
4847	01	0120A	AAAAAAAA	A		DATA	X'AAAAAAAA'	
4848	01	0120B	55555555	A		DATA	X'D5555555'	
4849	01	0120C	FFFFFFFF	A	S43	DATA	-6	ARS 1
4850	01	0120D	25C0047F	A		S,12	X'147F'	
4851	01	0120E	0000013A	A		DATA	SETPSW	
4852	01	0120F	0000016A	A		DATA	L8C+2	
4853	01	01210	55555555	A		DATA	X'55555555'	
4854	01	01211	2AAAAAAAA	A		DATA	X'2AAAAAAAA'	
4855	01	01212	FFFFFFFF	A	S44	DATA	-6	ARS 28 X

SIGMA 7 CPU DIAGNOSTIC-AUTB 704044-51800 MARCH 10, 1969 140

4856	01	01213	25C20471	A		S,12	X'1471',1	
4857	01	01214	0000013A	A		DATA	SETPSW	
4858	01	01215	0000016A	A		DATA	L8C+2	
4859	01	01216	800000F3	A		DATA	X'800000F3'	
4860	01	01217	FFFFFFFF	A		DATA	-8	
4861	01	01218	FFFFFFFF	A	S45	DATA	-6	LRS 13
4862	01	01219	25C00073	A		S,12	X'173'	
4863	01	0121A	F73001BF	A		K	15,7,3,FXP8SW	
4864	01	0121B	3730016A	A		K	3,7,3,L8C+2	
4865	01	0121C	87654321	A		DATA	X'87654321'	
4866	01	0121D	0004382A	A		DATA	X'4382A'	
4867	01	0121E	FFFFFFFF	A	S46	DATA	-6	CRS 11
4868	01	0121F	25C00275	A		S,12	X'1275'	
4869	01	01220	F73001BF	A		K	15,7,3,FXP8SW	
4870	01	01221	3730016A	A		K	3,7,3,L8C+2	
4871	01	01222	ABCDEF89	A		DATA	X'ABCDEF89'	
4872	01	01223	F13579BD	A		DATA	X'F13579BD'	
4873						PAGE		
4874	01	01224	FFFFFFFF	A	S47	DATA	-6	CRS 64
4875	01	01225	25C00240	A		S,12	X'1240'	
4876	01	01226	0000013A	A		DATA	SETPSW	
4877	01	01227	0000016A	A		DATA	L8C+2	
4878	01	01228	99999999	A		DATA	X'99999999'	
4879	01	01229	99999999	A		DATA	X'99999999'	
4880	01	0122A	FFFFFFFF	A	S48	DATA	-10	ARD 33
4881	01	0122B	25C0055F	A		S,12	X'155F'	
4882	01	0122C	F73001BF	A		K	15,7,3,FXP8SW	
4883	01	0122D	3730016A	A		K	3,7,3,L8C+2	
4884	01	0122E	87654321	A		DATA	X'87654321'	
4885	01	0122F	FFFFFFFF	A		DATA	-1	
4886	01	01230	00000000	A		DATA	0	
4887	01	01231	00000000	A		DATA	0	
4888	01	01232	0FEDCBA9	A		DATA	X'0FEDCBA9'	
4889	01	01233	C3B2A190	A		DATA	X'C3B2A190'	
4890	01	01234	FFFFFFFF	A	S49	DATA	-10	ARD 15
4891	01	01235	A5D00480	A		S,13	*MEMORY	
4892	01	01236	0000013A	A		DATA	SETPSW	

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SIGMA 7 CPU DIAGNOSTIC-AUTO 704044-51800 MARCH 10,1969 141
4893 01 01237 0000016A DATA L8C+2
4894 01 01238 789ABCDE A DATA X'789ABCDE'
4895 01 01239 789ABCDE A DATA X'789ABCDE'
4896 01 0123A 00000571 A DATA X'571'
4897 01 0123B 00000571 A DATA X'571'
4898 01 0123C F0123456 A DATA X'F0123456'
4899 01 0123D FFFFFFFE024 A DATA X'FFFFFFE024'
4900 01 0123E FFFFFFFF6 A S50 DATA -10 LRD 54
4901 01 0123F 25C0014A A S,12 X'14A'
4902 01 01240 F73001BF K 15,7,3,FXPSW
4903 01 01241 3730018A K 3,7,3,L8C+2
4904 01 01242 87654321 A DATA X'87654321'
4905 01 01243 00000000 A DATA 0
4906 01 01244 00000000 A DATA 0
4907 01 01245 00000000 A DATA 0
4908 01 01246 ABCDEF01 A DATA X'ABCDEF01'
4909 01 01247 000021D A DATA X'21D'
4910 PAGE
4911 01 01248 FFFFFFFF6 A S51 DATA -10 LRD 36 R0
4912 01 01249 25D0015C A S,13 X'15C'
4913 01 0124A 0000013A DATA SETPSW
4914 01 0124B 0000016A DATA L8C+2
4915 01 0124C 12345678 A DATA X'12345678'
4916 01 0124D 12345678 A DATA X'12345678'
4917 01 0124E 00000000 A DATA 0
4918 01 0124F 00000000 A DATA 0
4919 01 01250 9ABCDEFO A DATA X'9ABCDEFO'
4920 01 01251 00000000 A DATA 0
4921 01 01252 FFFFFFFF6 A S52 DATA -10 CRD 62 *
4922 01 01253 A5C00460 S,12 *MEMORY
4923 01 01254 0000013A DATA SETPSW
4924 01 01255 0000016A DATA L8C+2
4925 01 01256 99999999 A DATA X'99999999'
4926 01 01257 66666666 A DATA X'66666666'
4927 01 01258 00000342 A DATA X'342'
4928 01 01259 00000342 A DATA X'342'
4929 01 0125A 99999999 A DATA X'99999999'

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SIGMA 7 CPU DIAGNOSTIC-AUTO 704044-51800 MARCH 10,1969 142
4930 01 0125B 66666666 A DATA X'66666666'
4931 01 0125C FFFFFFFF6 A S53 DATA -10 CRD 31 *X R0
4932 01 0125D A5D20460 S,13 *MEMORY,1
4933 01 0125E F73001BF K 15,7,3,FXPSW
4934 01 0125F 3730018A K 3,7,3,L8C+2
4935 01 01260 22222222 A DATA X'22222222'
4936 01 01261 22222222 A DATA X'22222222'
4937 01 01262 000003BF A DATA X'3BF'
4938 01 01263 000003BF A DATA X'3BF'
4939 01 01264 7BDE7BDE A DATA X'7BDE7BDE'
4940 01 01265 F7BCF7BC A DATA X'F7BCF7BC'
4941 PAGE
4942 ** NUMBER ALREADY NORMALIZED
4943 01 01266 FFFFFFFF A SF001 DATA -6
4944 01 01267 24C0000F A SF,12 15
4945 01 01268 F730013A K 15,7,3,SETPSW
4946 01 01269 A730016A K 10,7,3,L8C+2
4947 01 0126A 0F100000 A DATA X'F100000',X'F100000'
4948 01 0126B 0F100000 A
4949 ** NORMALIZED WHEN COUNT EQUALS ZERO
4949 01 0126C FFFFFFFF A SF002 DATA -10
4950 01 0126D 24C00104 A SF,12 X'104'
4951 01 0126E 0730013A K 0,7,3,SETPSW
4952 01 0126F A730016A K 10,7,3,L8C+2
4953 01 01270 0F00002F A DATA X'F00002F',X'B2FFFFF',0,0,-1,X'FFFF0000'
4954 01 01271 0B2FFFFF A
4955 01 01272 00000000 A
4956 01 01273 00000000 A
4957 01 01274 FFFFFFFF A
4958 01 01275 FFFF0000 A
4959 ** NORMALIZED BEFORE COUNT EQUALS ZERO
4954 01 01276 FFFFFFFF A SF003 DATA -6
4956 01 01277 24C00104 A SF,12 X'104'
4957 01 01278 7000013A K 7,0,0,SETPSW
4958 01 01279 A000016A K 10,0,0,L8C+2
4959 01 0127A 0F004FFF A DATA X'0F004FFF',X'D4FFF00'
4959 01 0127B 0D4FFF00 A

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4960                                     PAGE
4961                                     ** UNDERFLOW. NOT NORMALIZED COUNT NOT EQUAL ZERO
4962 01 0127C FFFFFFFF A SF004 DATA -10
4963 01 0127D 24C0013F A SF,12 X'113F'
4964 01 0127E 9730013A K 9,7,3,SETPSW
4965 01 0127F 6730016A K 6,7,3,L8C+2
4966 01 01280 04000000 A DATA X'4000000',X'7F0F0000',0,0,X'F0000000',0
      01 01281 7F0F0000 A
      01 01282 00000000 A
      01 01283 00000000 A
      01 01284 F0000000 A
      01 01285 00000000 A

4967                                     ** UNDERFLOW. NORMALIZED. COUNT EQUAL ZERO
4968 01 01286 FFFFFFFF A SF005 DATA -6
4969 01 01287 24C00005 A SF,12 5
4970 01 01288 1730013A K 1,7,3,SETPSW
4971 01 01289 E730016A K 14,7,3,L8C+2
4972 01 0128A 04000008 A DATA X'04000008',X'17F800000'
      01 0128B 7F800000 A

4973                                     ** COUNT EQUALS ZERO. NOT NORMALIZED
4974 01 0128C FFFFFFFF A SF006 DATA -6
4975 01 0128D 24C00004 A SF,12 4
4976 01 0128E D730013A K 13,7,3,SETPSW
4977 01 0128F 2730016A K 2,7,3,L8C+2
4978 01 01290 0F000001 A DATA X'F000001',X'0B010000'
      01 01291 0B010000 A

4979                                     PAGE
4980                                     ** TRUE ZERO
4981 01 01292 FFFFFFFF A SF007 DATA -10
4982 01 01293 24C00004 A SF,12 4
4983 01 01294 7030013A K 7,0,3,SETPSW
4984 01 01295 8030016A K 8,0,3,L8C+2
4985 01 01296 03000000 A DATA X'3000000',0,0,0,-1,-1
      01 01297 00000000 A
      01 01298 00000000 A
      01 01299 00000000 A
      01 0129A FFFFFFFF A

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4986 01 0129B FFFFFFFF A
4987 01 0129C FFFFFFFF A ** NEGATIVE CHARACTERISTIC
4988 01 0129D 24C00004 A SF008 DATA -10
4989 01 0129E E700013A SF,12 4
4990 01 0129F 1700016A K 14,7,0,SETPSW
4991 01 012A0 F0FFFFFF1 A K 1,7,0,L8C+2
      01 012A1 F4F10000 A DATA X'F0FFFFFF1',X'F4F10000',0,0,-1,-1
      01 012A2 00000000 A
      01 012A3 00000000 A
      01 012A4 FFFFFFFF A
      01 012A5 FFFFFFFF A

4992                                     ** NEG CHAR. UNDERFLOW 8DD REG NORMALIZED
4993 01 012A6 FFFFFFFF A SF009 DATA -6
4994 01 012A7 24C00004 A SF,12 4
4995 01 012A8 2730013A K 2,7,3,SETPSW
4996 01 012A9 D730016A K 13,7,3,L8C+2
4997 01 012AA FFFFFFFF A DATA X'FFFFFFF',X'80FFFFFF0'
      01 012AB 80FFFFFF0 A

4998                                     PAGE
4999                                     ** NEG CHAR
5000 01 012AC FFFFFFFF A SF010 DATA -10
5001 01 012AD 24C00102 A SF,12 X'102'
5002 01 012AE 0000013A K 0,0,0,SETPSW
5003 01 012AF 9000016A K 9,0,0,L8C+2
5004 01 012B0 F0FF4321 A DATA X'F0FF4321',X'F24321FF',0,0,-1,X'FFFFFFF00'
      01 012B1 F24321FF A
      01 012B2 00000000 A
      01 012B3 00000000 A
      01 012B4 FFFFFFFF A
      01 012B5 FFFFFFFF A

5005                                     ** NEG CHAR
5006 01 012B6 FFFFFFFF A SF011 DATA -6
5007 01 012B7 24C00102 A SF,12 X'102'
5008 01 012B8 6310013A K 6,3,1,SETPSW
5009 01 012B9 9310016A K 9,3,1,L8C+2
5010 01 012BA F0FF4320 A DATA X'F0FF4320',X'F2432000'

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01 012B8 F2432000 A
5011 ** TEST THAT MAX COUNT W/O NORMALIZING IS OK
5012 01 012B8 FFFFFFF6 A SF012 DATA -10
5013 01 012B8 24C0010C A SF,12 X'10C'
5014 01 012BE 5510013A K 5,5,1,SETPSW
5015 01 012BF 2510016A K 2,5,1,L8C+2
5016 01 012C0 7F0000C0 A DATA X'7F000000',X'73010000',0,0,1,0
      01 012C1 73010000 A
      01 012C2 00000000 A
      01 012C3 00000000 A
      01 012C4 00000001 A
      01 012C5 00000000 A

5017 PAGE
5018 ** RIGHT SHIFT. TRUE ZERO BEFORE COUNT DONE
5019 01 012C6 FFFFFFF6 A SF013 DATA -10
5020 01 012C7 24D0007B A SF,13 X'17B'
5021 01 012C8 F730013A K 15,7,3,SETPSW
5022 01 012C9 0730016A K 0,7,3,L8C+2
5023 01 012CA 04800000 A DATA X'04800000',X'04800000',0,0,X'20000100',0
      01 012CB 04800000 A
      01 012CC 00000000 A
      01 012CD 00000000 A
      01 012CE 20000100 A
      01 012CF 00000000 A

5024 ** RIGHT SHIFT OVERFLOW AT COUNT DONE.
5025 01 012D0 FFFFFFF6 A SF014 DATA -10
5026 01 012D1 24C0017F A SF,12 X'17F'
5027 01 012D2 0730013A K 0,7,3,SETPSW
5028 01 012D3 6730016A K 6,7,3,L8C+2
5029 01 012D4 7F453210 A DATA X'7F453210',X'00045321',0,0,-1,X'FFFFFFF'
      01 012D5 00045321 A
      01 012D6 00000000 A
      01 012D7 00000000 A
      01 012D8 FFFFFFFF A
      01 012D9 0FFFFFFF A

5030 ** RIGHT SHIFT. OVERFLOW BEFORE COUNT DONE.
5031 01 012DA FFFFFFF6 A SF015 DATA -10

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5032 01 012DB 24C00170 A SF,12 X'170'
5033 01 012DC F000013A K 15,0,0,SETPSW
5034 01 012DD 5000016A K 5,0,0,L8C+2
5035 01 012DE 81FFFFFF A DATA X'81FFFFFF',-1,0,0,X'FFFFFF222',X'FFFFFFF3'
      01 012DF FFFFFFFF A
      01 012E0 00000000 A
      01 012E1 00000000 A
      01 012E2 FFFFF222 A
      01 012E3 FFFFFFF3 A

5036 PAGE
5037 ** RIGHT SHIFT. OVERFLOW AND TRUE ZERO. AT COUNT DONE.
5038 01 012E4 FFFFFFF6 A SF016 DATA -10
5039 01 012E5 24C0017F A SF,12 X'17F'
5040 01 012E6 0000013A DATA SETPSW,L8C+2,X'7F000000',0,0,0,1,0
      01 012E7 0000016A
      01 012E8 7F000000 A
      01 012E9 00000000 A
      01 012EA 00000000 A
      01 012EB 00000000 A
      01 012EC 00000001 A
      01 012ED 00000000 A

5041 ** RIGHT SHIFT COUNT DONE. MAX COUNT W/O OVERFLOW OR TRUE ZERO
5042 01 012EE FFFFFFF6 A SF017 DATA -10
5043 01 012EF 24C00173 A SF,12 X'173'
5044 01 012F0 0000013A DATA SETPSW
5045 01 012F1 2000016A K 2,0,0,L8C+2
5046 01 012F2 0125AC31 A DATA X'0125AC31',X'0E000000',0,0,X'95A3C195',2
      01 012F3 0E000000 A
      01 012F4 00000000 A
      01 012F5 00000000 A
      01 012F6 95A3C195 A
      01 012F7 00000002 A

5047 PAGE
5048 ** THE NEXT 16 TESTS ARE LEFT SHIFTS WITH THE COUNT GOING TO ZERO
5049 ** EACH TEST LEAVES A SINGLE BIT IN REG B TO VERIFY EACH BIT POSITION
5050 ** WILL CAUSE B0031Z TO BE FALSE. CHARACTERISTICS ARE CHOSEN TO VERIFY
5051 ** THAT THE A DOWN COUNT LOGIC IS FUNCTIONING

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SIGMA 7 CPU DIAGNOSTIC-AUTB 704044-51800 MARCH 10, 1969 147

5052	01 012F8	FFFFFFF6 A	SF018	DATA	-10	B00
5053	01 012F9	A4C00460		SF,12	*MEMBRY	
5054	01 012FA	0000013A		DATA	SETPSW	
5055	01 012FB	2000016A		K	2,0,0,L8C+2	
5056	01 012FC	73000000 A		DATA	X'73000000',X'71000000',X'102',X'102',X'800000'	
	01 012FD	71000000 A				
	01 012FE	00000102 A				
	01 012FF	00000102 A				
	01 01300	00800000 A				
5057	01 01301	80000000 A		DATA	X'80000000'	
5058	01 01302	FFFFFFF6 A	SF019	DATA	-10	B01
5059	01 01303	24CE0100 A		SF,12	X'100',7	IX ADD 1 TO CBUNT
5060	01 01304	0000013A		DATA	SETPSW	
5061	01 01305	2000016A		K	2,0,0,L8C+2	
5062	01 01306	70000000 A		DATA	X'70000000',X'6F000000',0,0,X'4000000',X'40000000'	
	01 01307	6F000000 A				
	01 01308	00C00000 A				
	01 01309	00000000 A				
	01 0130A	04000000 A				
	01 0130B	40000000 A				
5063	01 0130C	FFFFFFF6 A	SF020	DATA	-10	B02
5064	01 0130D	A4CE0460		SF,12	*MEMBRY,7	
5065	01 0130E	0000013A		DATA	SETPSW	
5066	01 0130F	2000016A		K	2,0,0,L8C+2	
5067	01 01310	60000000 A		DATA	X'60000000',X'5F000000',X'100',X'100',X'2000000'	
	01 01311	5F000000 A				
	01 01312	00000100 A				
	01 01313	00000100 A				
	01 01314	02000000 A				
5068	01 01315	20000000 A		DATA	X'20000000'	
5069				PAGE		
5070	01 01316	FFFFFFF6 A	SF021	DATA	-10	B03
5071	01 01317	24C00101 A		SF,12	X'101'	
5072	01 01318	0000013A		DATA	SETPSW	
5073	01 01319	2000016A		K	2,0,0,L8C+2	
5074	01 0131A	50000000 A		DATA	X'50000000',X'4F000000',0,0,X'1000000',X'10000000'	
	01 0131B	4F000000 A				

SIGMA 7 CPU DIAGNOSTIC-AUTB 704044-51800 MARCH 10, 1969 148

	01 0131C	00000000 A				
	01 0131D	00000000 A				
	01 0131E	01000000 A				
	01 0131F	10000000 A				
5075	01 01320	FFFFFFF6 A	SF022	DATA	-10	B04
5076	01 01321	24C00101 A		SF,12	X'101'	
5077	01 01322	0000013A		DATA	SETPSW	
5078	01 01323	2000016A		K	2,0,0,L8C+2	
5079	01 01324	40000000 A		DATA	X'40000000',X'3F000000',0,0,X'800000',X'8000000'	
	01 01325	3F000000 A				
	01 01326	00000000 A				
	01 01327	00000000 A				
	01 01328	00800000 A				
	01 01329	08000000 A				
5080	01 0132A	FFFFFFF6 A	SF023	DATA	-10	B05
5081	01 0132B	24C00101 A		SF,12	X'101'	
5082	01 0132C	0000013A		DATA	SETPSW	
5083	01 0132D	2000016A		K	2,0,0,L8C+2	
5084	01 0132E	30000000 A		DATA	X'30000000',X'2F000000',0,0,X'400000',X'4000000'	
	01 0132F	2F000000 A				
	01 01330	00000000 A				
	01 01331	00000000 A				
	01 01332	00400000 A				
	01 01333	04000000 A				
5085				PAGE		
5086	01 01334	FFFFFFF6 A	SF024	DATA	-10	B06
5087	01 01335	24C00101 A		SF,12	X'101'	
5088	01 01336	0000013A		DATA	SETPSW	
5089	01 01337	2000016A		K	2,0,0,L8C+2	
5090	01 01338	20000000 A		DATA	X'20000000',X'1F000000',0,0,X'200000',X'2000000'	
	01 01339	1F000000 A				
	01 0133A	00000000 A				
	01 0133B	00000000 A				
	01 0133C	00200000 A				
	01 0133D	02000000 A				
5091	01 0133E	FFFFFFF6 A	SF025	DATA	-10	B07
5092	01 0133F	24C00101 A		SF,12	X'101'	

5093	01 01340	0000013A		DATA	SETPSW		
5094	01 01341	2000016A		K	2,0,0,L8C+2		
5095	01 01342	10000000 A		DATA	X'10000000',X'0F000000',0,0,X'100000',X'1000000'		
	01 01343	0F000000 A					
	01 01344	00000000 A					
	01 01345	00000000 A					
	01 01346	00100000 A					
	01 01347	01000000 A					
5096	01 01348	FFFFFFF6 A	SF026	DATA	-10	B08	
5097	01 01349	24C00101 A		SF,12	X'101'		
5098	01 0134A	0000013A		DATA	SETPSW		
5099	01 0134B	2000016A		K	2,0,0,L8C+2		
5100	01 0134C	71000000 A		DATA	X'171000000',X'170000000',0,0,X'80000',X'800000'		
	01 0134D	70000000 A					
	01 0134E	00000000 A					
	01 0134F	00000000 A					
	01 01350	00000000 A					
	01 01351	00800000 A					
5101				PAGE			
5102	01 01352	FFFFFFF6 A	SF027	DATA	-10	B09	
5103	01 01353	24C00101 A		SF,12	X'101'		
5104	01 01354	0000013A		DATA	SETPSW		
5105	01 01355	2000016A		K	2,0,0,L8C+2		
5106	01 01356	61000000 A		DATA	X'61000000',X'60000000',0,0,X'40000',X'400000'		
	01 01357	60000000 A					
	01 01358	00000000 A					
	01 01359	00000000 A					
	01 0135A	00040000 A					
	01 0135B	00400000 A					
5107	01 0135C	FFFFFFF6 A	SF028	DATA	-10	B10	
5108	01 0135D	24C00101 A		SF,12	X'101'		
5109	01 0135E	0000013A		DATA	SETPSW		
5110	01 0135F	2000016A		K	2,0,0,L8C+2		
5111	01 01360	51000000 A		DATA	X'51000000',X'50000000',0,0,X'20000',X'200000'		
	01 01361	50000000 A					
	01 01362	00000000 A					
	01 01363	00000000 A					

	01 01364	00200000 A					
	01 01365	00200000 A					
5112	01 01366	FFFFFFF6 A	SF029	DATA	-10	B11	
5113	01 01367	24C00101 A		SF,12	X'101'		
5114	01 01368	0000013A		DATA	SETPSW		
5115	01 01369	2000016A		K	2,0,0,L8C+2		
5116	01 0136A	41000000 A		DATA	X'41000000',X'40000000',0,0,X'10000',X'100000'		
	01 0136B	40000000 A					
	01 0136C	00000000 A					
	01 0136D	00000000 A					
	01 0136E	00010000 A					
	01 0136F	00100000 A					
5117				PAGE			
5118	01 01370	FFFFFFF6 A	SF030	DATA	-10	B12	
5119	01 01371	24C00101 A		SF,12	X'101'		
5120	01 01372	0000013A		DATA	SETPSW		
5121	01 01373	2000016A		K	2,0,0,L8C+2		
5122	01 01374	31000000 A		DATA	X'31000000',X'30000000',0,0,X'8000',X'80000'		
	01 01375	30000000 A					
	01 01376	00000000 A					
	01 01377	00000000 A					
	01 01378	00008000 A					
	01 01379	00000000 A					
5123	01 0137A	FFFFFFF6 A	SF031	DATA	-10	B13	
5124	01 0137B	24C00101 A		SF,12	X'101'		
5125	01 0137C	0000013A		DATA	SETPSW		
5126	01 0137D	2000016A		K	2,0,0,L8C+2		
5127	01 0137E	21000000 A		DATA	X'21000000',X'20000000',0,0,X'4000',X'40000'		
	01 0137F	20000000 A					
	01 01380	00000000 A					
	01 01381	00000000 A					
	01 01382	00004000 A					
	01 01383	00040000 A					
5128				PAGE			
5129	01 01384	FFFFFFF6 A	SF032	DATA	-10	B14	
5130	01 01385	24C00101 A		SF,12	X'101'		
5131	01 01386	0000013A		DATA	SETPSW		

SIGMA 7 CPU DIAGNOSTIC-AUT8 704044-51800 MARCH 10,1969 151

5132	01 01387	2000016A		K	2,0,0,L8C+2	
5133	01 01388	11000000 A		DATA	X'11000000',0,0,X'2000',X'20000'	
	01 01389	10000000 A				
	01 0138A	00000000 A				
	01 0138B	00000000 A				
	01 0138C	00002000 A				
	01 0138D	00020000 A				
5134	01 0138E	FFFFFFF6 A	SF033	DATA	-10	B15
5135	01 0138F	24C00101 A		SF,12	X'101'	
5136	01 01390	0000013A		DATA	SETPSW	
5137	01 01391	2000016A		K	2,0,0,L8C+2	
5138	01 01392	01000000 A		DATA	X'01000000',0,0,0,X'1000',X'10000'	
	01 01393	00000000 A				
	01 01394	00000000 A				
	01 01395	00000000 A				
	01 01396	00001000 A				
	01 01397	00010000 A				
5139						
5140						
5141						
5142	01 01398	FFFFFFF6 A		DATA	-10	R31
5143	01 01399	24C0017F A		SF,12	X'17F'	
5144	01 0139A	0000013A		DATA	SETPSW	
5145	01 0139B	2000016A		K	2,0,0,L8C+2	
5146	01 0139C	0F000000 A		DATA	X'0F000000',X'10000000',0,0,16,1	
	01 0139D	10000000 A				
	01 0139E	00000000 A				
	01 0139F	00000000 A				
	01 013A0	00000010 A				
	01 013A1	00000001 A				
5147	01 013A2	FFFFFFF6 A	SF035	DATA	-10	B30
5148	01 013A3	24C0017F A		SF,12	X'17F'	
5149	01 013A4	0000013A		DATA	SETPSW	
5150	01 013A5	2000016A		K	2,0,0,L8C+2	
5151	01 013A6	1F000000 A		DATA	X'1F000000',X'20000000',0,0,32,2	
	01 013A7	20000000 A				
	01 013A8	00000000 A				

PAGE
 ** THE NEXT 16 TESTS COMPLETE THE TEST OF 80031Z AND CHECK THE A UP
 ** COUNT LOGIC.

SIGMA 7 CPU DIAGNOSTIC-AUT8 704044-51800 MARCH 10,1969 152

	01 013A9	00000000 A				
	01 013AA	00000020 A				
	01 013AB	00000002 A				
5152	01 013AC	FFFFFFF6 A	SF036	DATA	-10	B29
5153	01 013AD	24C0017F A		SF,12	X'17F'	
5154	01 013AE	0000013A		DATA	SETPSW	
5155	01 013AF	2000016A		K	2,0,0,L8C+2	
5156	01 013B0	2F000000 A		DATA	X'2F000000',X'30000000',0,0,64,4	
	01 013B1	30000000 A				
	01 013B2	00000000 A				
	01 013B3	00000000 A				
	01 013B4	00000040 A				
	01 013B5	00000004 A				
5157						
5158	01 013B6	FFFFFFF6 A	SF037	DATA	-10	B28
5159	01 013B7	24C0017F A		SF,12	X'17F'	
5160	01 013B8	0000013A		DATA	SETPSW	
5161	01 013B9	2000016A		K	2,0,0,L8C+2	
5162	01 013BA	3F000000 A		DATA	X'3F000000',X'40000000',0,0,128,8	
	01 013BB	40000000 A				
	01 013BC	00000000 A				
	01 013BD	00000000 A				
	01 013BE	00000080 A				
	01 013BF	00000008 A				
5163	01 013C0	FFFFFFF6 A	SF038	DATA	-10	B27
5164	01 013C1	24C0017F A		SF,12	X'17F'	
5165	01 013C2	0000013A		DATA	SETPSW	
5166	01 013C3	2000016A		K	2,0,0,L8C+2	
5167	01 013C4	4F000000 A		DATA	X'4F000000',X'50000000',0,0,256,16	
	01 013C5	50000000 A				
	01 013C6	00000000 A				
	01 013C7	00000000 A				
	01 013C8	00000100 A				
	01 013C9	00000010 A				
5168	01 013CA	FFFFFFF6 A	SF039	DATA	-10	B26
5169	01 013CB	24C0017F A		SF,12	X'17F'	
5170	01 013CC	0000013A		DATA	SETPSW	

5171	01 013CD	2000016A		K	2,0,0,L8C+2	
5172	01 013CE	5F00C000 A		DATA	X'5F000000',0,0,512,32	
	01 013CF	60000000 A				
	01 013D0	00000000 A				
	01 013D1	00000000 A				
	01 013D2	00000200 A				
	01 013D3	00000020 A				
5173				PAGE		
5174	01 013D4	FFFFFFF6 A	SF040	DATA	-10	B25
5175	01 013D5	24C0017F A		SF,12	X'17F'	
5176	01 013D6	0000013A		DATA	SETPSW	
5177	01 013D7	2000016A		K	2,0,0,L8C+2	
5178	01 013D8	6F000000 A		DATA	X'6F000000',X'70000000',0,0,1024,64	
	01 013D9	70000000 A				
	01 013DA	00000000 A				
	01 013DB	00000000 A				
	01 013DC	00000400 A				
	01 013DD	00000040 A				
5179	01 013DE	FFFFFFF6 A	SF041	DATA	-10	B24
5180	01 013DF	24C0017F A		SF,12	X'17F'	
5181	01 013E0	0000013A		DATA	SETPSW	
5182	01 013E1	2000016A		K	2,0,0,L8C+2	
5183	01 013E2	06000000 A		DATA	X'60000000',X'70000000',0,0,2048,128	
	01 013E3	07000000 A				
	01 013E4	00000000 A				
	01 013E5	00000000 A				
	01 013E6	00000800 A				
	01 013E7	00000080 A				
5184	01 013E8	FFFFFFF6 A	SF042	DATA	-10	B23
5185	01 013E9	24C0017F A		SF,12	X'17F'	
5186	01 013EA	0000013A		DATA	SETPSW	
5187	01 013EB	2000016A		K	2,0,0,L8C+2	
5188	01 013EC	70000000 A		DATA	X'70000000',X'71000000',0,0,4096,256	
	01 013ED	71000000 A				
	01 013EE	00000000 A				
	01 013EF	00000000 A				
	01 013F0	00001000 A				

	01 013F1	00000100 A				
5189				PAGE		
5190	01 013F2	FFFFFFF6 A	SF043	DATA	-10	B22
5191	01 013F3	24C0017F A		SF,12	X'17F'	
5192	01 013F4	0000013A		DATA	SETPSW	
5193	01 013F5	2000016A		K	2,0,0,L8C+2	
5194	01 013F6	60000000 A		DATA	X'60000000',X'61000000',0,0,8192,512	
	01 013F7	61000000 A				
	01 013F8	00000000 A				
	01 013F9	00000000 A				
	01 013FA	00002000 A				
	01 013FB	00000200 A				
5195	01 013FC	FFFFFFF6 A	SF044	DATA	-10	B21
5196	01 013FD	24C0017F A		SF,12	X'17F'	
5197	01 013FE	0000013A		DATA	SETPSW	
5198	01 013FF	2000016A		K	2,0,0,L8C+2	
5199	01 01400	50000000 A		DATA	X'50000000',X'51000000',0,0,16384,1024	
	01 01401	51000000 A				
	01 01402	00000000 A				
	01 01403	00000000 A				
	01 01404	00004000 A				
	01 01405	00000400 A				
5200	01 01406	FFFFFFF6 A	SF045	DATA	-10	B20
5201	01 01407	24C0017F A		SF,12	X'17F'	
5202	01 01408	0000013A		DATA	SETPSW	
5203	01 01409	2000016A		K	2,0,0,L8C+2	
5204	01 0140A	40000000 A		DATA	X'40000000',X'41000000',0,0,32768,2048	
	01 0140B	41000000 A				
	01 0140C	00000000 A				
	01 0140D	00000000 A				
	01 0140E	00008000 A				
	01 0140F	00000800 A				
5205				PAGE		
5206	01 01410	FFFFFFF6 A	SF046	DATA	-10	B19
5207	01 01411	24C0017F A		SF,12	X'17F'	
5208	01 01412	0000013A		DATA	SETPSW	
5209	01 01413	2000016A		K	2,0,0,L8C+2	

5210	01 01414	30000000 A		DATA	X'30000000',X'31000000',0,0,65536,4096
	01 01415	31000000 A			
	01 01416	00000000 A			
	01 01417	00000000 A			
	01 01418	00018000 A			
	01 01419	00001000 A			
5211	01 0141A	FFFFFFF6 A	SF047	DATA	-10 B18
5212	01 0141B	24C0017F A		SF,12	X'17F'
5213	01 0141C	0000013A		DATA	SETPSW
5214	01 0141D	2000016A		K	2,0,0,L8C+2
5215	01 0141E	20000000 A		DATA	X'20000000',X'21000000',0,0,131072,8192
	01 0141F	21000000 A			
	01 01420	00000000 A			
	01 01421	00000000 A			
	01 01422	00020000 A			
	01 01423	00002000 A			
5216	01 01424	FFFFFFF6 A	SF048	DATA	-10 B17
5217	01 01425	24C0017F A		SF,12	X'17F'
5218	01 01426	0000013A		DATA	SETPSW
5219	01 01427	2000016A		K	2,0,0,L8C+2
5220	01 01428	10000000 A		DATA	X'10000000',X'11000000',0,0,262144,16384
	01 01429	11000000 A			
	01 0142A	00000000 A			
	01 0142B	00000000 A			
	01 0142C	00040000 A			
	01 0142D	00040000 A			
5221				PAGE	
5222	01 0142E	FFFFFFF6 A	SF049	DATA	-10 B16
5223	01 0142F	24C0017F A		SF,12	X'17F'
5224	01 01430	0000013A		DATA	SETPSW
5225	01 01431	2000016A		K	2,0,0,L8C+2
5226	01 01432	00000000 A		DATA	0,X'10000000',0,0,524288,32768
	01 01433	01000000 A			
	01 01434	00000000 A			
	01 01435	00000000 A			
	01 01436	00080000 A			
	01 01437	00080000 A			

5227					** CHECK THAT UNUSED BITS IN ADDRESS FIELD HAVE NO EFFECT
5228					** ALSO THAT INDEXING WILL CHANGE A - COUNT TO A + COUNT
5229	01 01438	FFFFFFF4 A	SF050	DATA	-12
5230	01 01439	A4C20480		SF,12	*MEMORY,1
5231	01 0143A	0000013A		K	0,0,0,SETPSW
5232	01 0143B	2000016A		K	2,0,0,L8C+2
5233	01 0143C	04C00011 A		DATA	X'04000011',X'03000110',X'FFFFFFF0',X'FFFFFFE0',-9,-9
	01 0143D	03000110 A			
	01 0143E	FFFFFFE0 A			
	01 0143F	FFFFFFE0 A			
	01 01440	FFFFFFF7 A			
	01 01441	FFFFFFF7 A			
5234	01 01442	00000008 A		DATA	8,8
	01 01443	00000008 A			
5235				PAGE	
5236	01 01444	FFFFFFF4 A	SF01	DATA	-12 SF
5237	01 01445	24C00101 A		SF,12	X'101'
5238	01 01446	073001C5		K	0,7,3,FLPFSW
5239	01 01447	A730016A		K	10,7,3,L8C+2
5240	01 01448	010F0F0F A		DATA	X'010F0F0F'
5241	01 01449	00F0F0F0 A		DATA	X'00F0F0F0'
5242	01 0144A	00000000 A		DATA	X'0'
5243	01 0144B	00000000 A		DATA	X'0'
5244	01 0144C	0F0F0F0F A		DATA	X'0F0F0F0F'
5245	01 0144D	F0F0F0F0 A		DATA	X'F0F0F0F0'
5246	01 0144E	00000000 A		DATA	X'0'
5247	01 0144F	00000000 A		DATA	X'0'
5248	01 01450	FFFFFFF4 A	SF02	DATA	-12 SF
5249	01 01451	24C00101 A		SF,12	X'101'
5250	01 01452	073001C5		K	0,7,3,FLPFSW
5251	01 01453	A730016A		K	2,7,3,L8C+2
5252	01 01454	0300F0F0 A		DATA	X'0300F0F0'
5253	01 01455	020F0F0F A		DATA	X'020F0F0F'
5254	01 01456	00000000 A		DATA	X'0'
5255	01 01457	00000000 A		DATA	X'0'
5256	01 01458	F0F0F0F0 A		DATA	X'F0F0F0F0'
5257	01 01459	0F0F0F00 A		DATA	X'0F0F0F00'

SIGMA 7 CPU DIAGNOSTIC-AUTB 704044-51800 MARCH 10,1969 157

5258	01	0145A	00000000	A	DATA	X'10'		
5259	01	0145B	00000000	A	DATA	X'10'		
5260	01	0145C	FFFFFFF4	A	SF03	DATA	-12	SF
5261	01	0145D	24C0017F	A	SF,12	X'17F'		
5262	01	0145E	073001C5	A	K	0,7,3,FLPFSW		
5263	01	0145F	2730016A	A	K	2,7,3,L8C+2		
5264	01	01460	010F0F0F	A	DATA	X'1010F0F0'		
5265	01	01461	0200F0F0	A	DATA	X'10200F0F0'		
5266	01	01462	00000000	A	DATA	X'10'		
5267	01	01463	00000000	A	DATA	X'10'		
5268	01	01464	0F0F0F0F	A	DATA	X'10F0F0F0'		
5269	01	01465	F0F0F0F0	A	DATA	X'10F0F0F0'		
5270	01	01466	00000000	A	DATA	X'10'		
5271	01	01467	00000000	A	DATA	X'10'		
5272					PAGE			
5273	01	01468	FFFFFFF4	A	SF04	DATA	-12	SF
5274	01	01469	24C0017F	A	SF,12	X'17F'		
5275	01	0146A	073001C5	A	K	0,7,3,FLPFSW		
5276	01	0146B	2730016A	A	K	2,7,3,L8C+2		
5277	01	0146C	03F0F0F0	A	DATA	X'103F0F0F0'		
5278	01	0146D	040F0F0F	A	DATA	X'1040F0F0F0'		
5279	01	0146E	00000000	A	DATA	X'10'		
5280	01	0146F	00000000	A	DATA	X'10'		
5281	01	01470	F0F0F0F0	A	DATA	X'10F0F0F0'		
5282	01	01471	0F0F0F0F	A	DATA	X'10F0F0F0'		
5283	01	01472	00000000	A	DATA	X'10'		
5284	01	01473	00000000	A	DATA	X'10'		
5285	01	01474	FFFFFFF4	A	SF05	DATA	-12	SF
5286	01	01475	24C00101	A	SF,12	X'101'		
5287	01	01476	073001C5	A	K	0,7,3,FLPFSW		
5288	01	01477	8730016A	A	K	8,7,3,L8C+2		
5289	01	01478	7F000000	A	DATA	X'17F000000'		
5290	01	01479	00000000	A	DATA	X'10'		
5291	01	0147A	00000000	A	DATA	X'10'		
5292	01	0147B	00000000	A	DATA	X'10'		
5293	01	0147C	00000000	A	DATA	X'10'		
5294	01	0147D	00000000	A	DATA	X'10'		

SIGMA 7 CPU DIAGNOSTIC-AUTB 704044-51800 MARCH 10,1969 158

5295	01	0147E	00000000	A	DATA	X'10'		
5296	01	0147F	00000000	A	DATA	X'10'		
5297	01	01480	FFFFFFF4	A	SF06	DATA	-12	SF
5298	01	01481	24C00041	A	SF,12	X'1041'		
5299	01	01482	073001C5	A	K	0,7,3,FLPFSW		
5300	01	01483	0730016A	A	K	0,7,3,L8C+2		
5301	01	01484	7F000000	A	DATA	X'17F000000'		
5302	01	01485	00000000	A	DATA	X'10'		
5303	01	01486	00000000	A	DATA	X'10'		
5304	01	01487	00000000	A	DATA	X'10'		
5305	01	01488	00000000	A	DATA	X'10'		
5306	01	01489	00000000	A	DATA	X'10'		
5307	01	0148A	00000000	A	DATA	X'10'		
5308	01	0148B	00000000	A	DATA	X'10'		
5309					PAGE			
5310	01	0148C	FFFFFFF4	A	SF07	DATA	-12	SF
5311	01	0148D	24C00101	A	SF,12	X'101'		
5312	01	0148E	073001C5	A	K	0,7,3,FLPFSW		
5313	01	0148F	5730016A	A	K	5,7,3,L8C+2		
5314	01	01490	FFFFFFF4	A	DATA	X'FFFFFFF4'		
5315	01	01491	80FFFFFF	A	DATA	X'80FFFFFF0'		
5316	01	01492	00000000	A	DATA	X'10'		
5317	01	01493	00000000	A	DATA	X'10'		
5318	01	01494	00000000	A	DATA	X'10'		
5319	01	01495	00000000	A	DATA	X'10'		
5320	01	01496	00000000	A	DATA	X'10'		
5321	01	01497	00000000	A	DATA	X'10'		
5322	01	01498	FFFFFFF4	A	SF08	DATA	-12	SF
5323	01	01499	24C00141	A	SF,12	X'141'		
5324	01	0149A	073001C5	A	K	0,7,3,FLPFSW		
5325	01	0149B	0730016A	A	K	0,7,3,L8C+2		
5326	01	0149C	00FFFFFF	A	DATA	X'00FFFFFF'		
5327	01	0149D	00000000	A	DATA	X'10'		
5328	01	0149E	00000000	A	DATA	X'10'		
5329	01	0149F	00000000	A	DATA	X'10'		
5330	01	014A0	FFFFFFF4	A	DATA	X'FFFFFFF4'		
5331	01	014A1	00000000	A	DATA	X'10'		

SIGMA 7 CPU DIAGNOSTIC-AUT8 704044-51B00 MARCH 10,1969 159

5332	01	014A2	00000000 A		DATA	X'0'	
5333	01	014A3	00000000 A		DATA	X'0'	
5334	01	014A4	FFFFFFFF4 A	SF09	DATA	-12	SF
5335	01	014A5	24C00173 A		SF,12	X'173'	
5336	01	014A6	073001C5		K	0,7,3,FLPFSW	
5337	01	014A7	2730016A		K	2,7,3,L8C+2	
5338	01	014A8	72F00000 A		DATA	X'72F00000'	
5339	01	014A9	7F000000 A		DATA	X'7F000000'	
5340	01	014AA	00000000 A		DATA	X'0'	
5341	01	014AB	00000000 A		DATA	X'0'	
5342	01	014AC	00000000 A		DATA	X'0'	
5343	01	014AD	0000000F A		DATA	X'0000000F'	
5344	01	014AE	00000000 A		DATA	X'0'	
5345	01	014AF	00000000 A		DATA	X'0'	
5346					PAGE		
5347	01	01480	FFFFFFFF4 A	SF10	DATA	-12	SF
5348	01	01481	24C0013F A		SF,12	X'13F'	
5349	01	01482	073001C5		K	0,7,3,FLPFSW	
5350	01	01483	A730016A		K	10,7,3,L8C+2	
5351	01	01484	07080000 A		DATA	X'07080000'	
5352	01	01485	06800000 A		DATA	X'06800000'	
5353	01	01486	00000000 A		DATA	X'0'	
5354	01	01487	00000000 A		DATA	X'0'	
5355	01	01488	00000000 A		DATA	X'0'	
5356	01	01489	00000000 A		DATA	X'0'	
5357	01	0148A	00000000 A		DATA	X'0'	
5358	01	0148B	00000000 A		DATA	X'0'	
5359	01	0148C	FFFFFFFF4 A	SF11	DATA	-12	SF
5360	01	0148D	24C00172 A		SF,12	X'172'	
5361	01	0148E	073001C5		K	0,7,3,FLPFSW	
5362	01	0148F	0730016A		K	0,7,3,L8C+2	
5363	01	014C0	72FFFFFF A		DATA	X'72FFFFFF'	
5364	01	014C1	00000000 A		DATA	X'0'	
5365	01	014C2	00000000 A		DATA	X'0'	
5366	01	014C3	00000000 A		DATA	X'0'	
5367	01	014C4	FFFFFFFF A		DATA	X'FFFFFFFF'	
5368	01	014C5	00000000 A		DATA	X'0'	

SIGMA 7 CPU DIAGNOSTIC-AUT8 704044-51B00 MARCH 10,1969 160

5369	01	014C6	00000000 A		DATA	X'0'	
5370	01	014C7	00000000 A		DATA	X'0'	
5371	01	014C8	FFFFFFFF4 A	SF12	DATA	-12	SF
5372	01	014C9	24C0010D A		SF,12	X'10D'	
5373	01	014CA	073001C5		K	0,7,3,FLPFSW	
5374	01	014CB	A730016A		K	10,7,3,L8C+2	
5375	01	014CC	73000000 A		DATA	X'73000000'	
5376	01	014CD	66100000 A		DATA	X'66100000'	
5377	01	014CE	00000000 A		DATA	X'0'	
5378	01	014CF	00000000 A		DATA	X'0'	
5379	01	014D0	00000001 A		DATA	X'00000001'	
5380	01	014D1	00000000 A		DATA	X'0'	
5381	01	014D2	00000000 A		DATA	X'0'	
5382	01	014D3	00000000 A		DATA	X'0'	
5383					PAGE		
5384	01	014D4	FFFFFFFF4 A	SF13	DATA	-12	SF
5385	01	014D5	24C0017E A		SF,12	X'17E'	
5386	01	014D6	073001C5		K	0,7,3,FLPFSW	
5387	01	014D7	6730016A		K	6,7,3,L8C+2	
5388	01	014D8	7FF00000 A		DATA	X'7FF00000'	
5389	01	014D9	000F0000 A		DATA	X'000F0000'	
5390	01	014DA	00000000 A		DATA	X'0'	
5391	01	014DB	00000000 A		DATA	X'0'	
5392	01	014DC	0000000F A		DATA	X'0000000F'	
5393	01	014DD	00000000 A		DATA	X'0'	
5394	01	014DE	00000000 A		DATA	X'0'	
5395	01	014DF	00000000 A		DATA	X'0'	
5396	01	014E0	FFFFFFFF4 A	SF14	DATA	-12	SF
5397	01	014E1	24C00000 A		SF,12	X'000'	
5398	01	014E2	073001C5		K	0,7,3,FLPFSW	
5399	01	014E3	A730016A		K	10,7,3,L8C+2	
5400	01	014E4	7F555555 A		DATA	X'7F555555'	
5401	01	014E5	7F555555 A		DATA	X'7F555555'	
5402	01	014E6	00000000 A		DATA	X'0'	
5403	01	014E7	00000000 A		DATA	X'0'	
5404	01	014E8	00000000 A		DATA	X'0'	
5405	01	014E9	00000000 A		DATA	X'0'	

5406	01 014EA	00000000 A		DATA	X'0'
5407	01 014EB	00000000 A		DATA	X'0'
5408	01 014EC	FFFFFFF4 A	SF15	DATA	-12
5409	01 014ED	24C00101 A		SF,12	X'101'
5410	01 014EE	073001C5		K	0,7,3,FLPFSW
5411	01 014EF	9730016A		K	9,7,3,L8C+2
5412	01 014F0	FE000000 A		DATA	X'FE000000'
5413	01 014F1	FE000000 A		DATA	X'FE000000'
5414	01 014F2	00000000 A		DATA	X'0'
5415	01 014F3	00000000 A		DATA	X'0'
5416	01 014F4	FFFFFFF4 A		DATA	X'FFFFFFF4'
5417	01 014F5	FFFFFFF4 A		DATA	X'FFFFFFF4'
5418	01 014F6	00000000 A		DATA	X'0'
5419	01 014F7	00000000 A		DATA	X'0'
5420				PAGE	
5421	01 014F8	FFFFFFF4 A	SF16	DATA	-12
5422	01 014F9	24D0017E A		SF,13	X'17E'
5423	01 014FA	073001C5		K	0,7,3,FLPFSW
5424	01 014FB	2730016A		K	2,7,3,L8C+2
5425	01 014FC	7FAAAAAA A		DATA	X'7FAAAAAA'
5426	01 014FD	7FAAAAAA A		DATA	X'7FAAAAAA'
5427	01 014FE	00000000 A		DATA	X'0'
5428	01 014FF	00000000 A		DATA	X'0'
5429	01 01500	40555555 A		DATA	X'40555555'
5430	01 01501	42005555 A		DATA	X'42005555'
5431	01 01502	C0000000 A		DATA	X'0'
5432	01 01503	C0000000 A		DATA	X'0'
5433	01 01504	FFFFFFF4 A	SF17	DATA	-12
5434	01 01505	24D00104 A		SF,13	X'104'
5435	01 01506	073001C5		K	0,7,3,FLPFSW
5436	01 01507	4730016A		K	10,7,3,L8C+2
5437	01 01508	C0000001 A		DATA	X'00000001'
5438	01 01509	00000001 A		DATA	X'1'
5439	01 0150A	00000000 A		DATA	X'0'
5440	01 0150B	00000000 A		DATA	X'0'
5441	01 0150C	40000FFF A		DATA	X'40000FFF'
5442	01 0150D	3DFFF400 A		DATA	X'3DFFF400'

5443	01 0150E	00000000 A		DATA	X'0'
5444	01 0150F	00000000 A		DATA	X'0'
5445	01 01510	FFFFFFF4 A	SF18	DATA	-12
5446	01 01511	24C0007D A		SF,12	X'07D'
5447	01 01512	073001C5		K	0,7,3,FLPFSW
5448	01 01513	0730016A		K	0,7,3,L8C+2
5449	01 01514	FF000000 A		DATA	X'FF000000'
5450	01 01515	00000000 A		DATA	X'0'
5451	01 01516	00000000 A		DATA	X'0'
5452	01 01517	00000000 A		DATA	X'0'
5453	01 01518	00000000 A		DATA	X'0'
5454	01 01519	00000000 A		DATA	X'0'
5455	01 0151A	00000000 A		DATA	X'0'
5456	01 0151B	00000000 A		DATA	X'0'
5457				PAGE	
5458	01 0151C	FFFFFFF4 A	SF19	DATA	-12
5459	01 0151D	24D00001 A		SF,13	X'001'
5460	01 0151E	073001C5		K	0,7,3,FLPFSW
5461	01 0151F	A730016A		K	10,7,3,L8C+2
5462	01 01520	00000000 A		DATA	X'0'
5463	01 01521	00000000 A		DATA	X'0'
5464	01 01522	00000000 A		DATA	X'0'
5465	01 01523	00000000 A		DATA	X'0'
5466	01 01524	080F0F0F A		DATA	X'080F0F0F'
5467	01 01525	07F0F0F0 A		DATA	X'07F0F0F0'
5468	01 01526	00000000 A		DATA	X'0'
5469	01 01527	00000000 A		DATA	X'0'
5470	01 01528	FFFFFFF4 A	SF20	DATA	-12
5471	01 01529	24D0007F A		SF,13	X'07F'
5472	01 0152A	073001C5		K	0,7,3,FLPFSW
5473	01 0152B	2730016A		K	2,7,3,L8C+2
5474	01 0152C	00000000 A		DATA	X'0'
5475	01 0152D	00000000 A		DATA	X'0'
5476	01 0152E	00000000 A		DATA	X'0'
5477	01 0152F	00000000 A		DATA	X'0'
5478	01 01530	07F0F0F0 A		DATA	X'07F0F0F0'
5479	01 01531	080F0F0F A		DATA	X'080F0F0F'

SIGMA 7 CPU DIAGNOSTIC-AUT8 704044-51B00 MARCH 10,1969 163

5480	01	01532	00000000 A		DATA	X'0'	
5481	01	01533	00000000 A		DATA	X'0'	
5482	01	01534	FFFFFFFF4 A	SF21	DATA	-12	SF
5483	01	01535	A4C00480		SF,12	*MEMBRY	
5484	01	01536	073001C5		K	0,7,3,FLPESW	
5485	01	01537	A730016A		K	10,7,3,LBC+2	
5486	01	01538	010F0F0F A		DATA	X'010F0F0F'	
5487	01	01539	00F0F0F0 A		DATA	X'00F0F0F0'	
5488	01	0153A	00000101 A		DATA	X'101'	
5489	01	0153B	00000101 A		DATA	X'101'	
5490	01	0153C	0F0F0F0F A		DATA	X'0F0F0F0F'	
5491	01	0153D	F0F0F0F0 A		DATA	X'F0F0F0F0'	
5492	01	0153E	00000000 A		DATA	X'0'	
5493	01	0153F	00000000 A		DATA	X'0'	
5494					PAGE		
5495	01	01540	FFFFFFFF4 A	SF22	DATA	-12	SF
5496	01	01541	24CE0101 A		SF,12	X'1011,7	
5497	01	01542	073001C5		K	0,7,3,FLPFSW	
5498	01	01543	A730016A		K	10,7,3,LBC+2	
5499	01	01544	010F0F0F A		DATA	X'010F0F0F'	
5500	01	01545	00F0F0F0 A		DATA	X'00F0F0F0'	
5501	01	01546	00000000 A		DATA	X'0'	
5502	01	01547	00000000 A		DATA	X'0'	
5503	01	01548	0F0F0F0F A		DATA	X'0F0F0F0F'	
5504	01	01549	F0F0F0F0 A		DATA	X'F0F0F0F0'	
5505	01	0154A	00000000 A		DATA	X'0'	
5506	01	0154B	00000000 A		DATA	X'0'	
5507	01	0154C	FFFFFFFF4 A	SF23	DATA	-12	SF
5508	01	0154D	A4CE0480		SF,12	*MEMBRY,7	
5509	01	0154E	073001C5		K	0,7,3,FLPFSW	
5510	01	0154F	A730016A		K	10,7,3,LBC+2	
5511	01	01550	010F0F0F A		DATA	X'010F0F0F'	
5512	01	01551	00F0F0F0 A		DATA	X'00F0F0F0'	
5513	01	01552	00000100 A		DATA	X'100'	
5514	01	01553	00000100 A		DATA	X'100'	
5515	01	01554	0F0F0F0F A		DATA	X'0F0F0F0F'	
5516	01	01555	F0F0F0F0 A		DATA	X'F0F0F0F0'	

SIGMA 7 CPU DIAGNOSTIC-AUT8 704044-51B00 MARCH 10,1969 164

5517	01	01556	00000000 A		DATA	X'0'	
5518	01	01557	00000000 A		DATA	X'0'	
5519					PAGE		
5520				** CHECK	C6ND CODE SETTINGS AND TRAP LOCATIONS. I9 SET FOR FIRST SIX		
5521	01	01558	FFFFFFFFC A	CAL01	DATA	-4	
5522	01	01559	04301589		CAL1,3	\$	
5523	01	0155A	079001CE		K	0,7,9,S19CL1	SLAVE MODE
5524	01	0155B	371000A2		K	3,7,1,C1RET+4	
5525	01	0155C	FFFFFFFFC A	CAL02	DATA	-4	
5526	01	0155D	05C0159D		CAL2,12	\$	
5527	01	0155E	073001D4		K	0,7,3,S19CL2	MASTER MODE
5528	01	0155F	C73000BF		K	12,7,3,C2RET+13	
5529	01	01560	FFFFFFFFC A	CAL03	DATA	-4	
5530	01	01561	06A01561		CAL3,10	\$	
5531	01	01562	008001DA		K	0,0,8,S19CL3	SLAVE
5532	01	01563	A00000D1		K	10,0,0,C3RET+11	
5533	01	01564	FFFFFFFFC A	CAL04	DATA	-4	
5534	01	01565	07501565		CAL4,5	\$	
5535	01	01566	000001E0		K	0,0,0,S19CL4	MASTER
5536	01	01567	500000E0		K	5,0,0,C4RET+6	
5537				*			
5538				*			
5539				** CHECK	THAT IA AND IX HAS NO EFFECT		
5540	01	01568	FFFFFFFF8 A	CAL05	DATA	-8	
5541	01	01569	870E0480		CAL4,0	*MEMBRY,7	
5542	01	0156A	F08001E0		K	15,0,8,S19CL4	SLAVE
5543	01	0156B	F00000DB		K	15,0,0,C4RET+1	
5544	01	0156C	00000000 A		DATA	0	
5545	01	0156D	00000000 A		DATA	0	
5546	01	0156E	00000480		DATA	MEMBRY	
5547	01	0156F	00000480		DATA	MEMBRY	
5548	01	01570	FFFFFFFFC A	CAL06	DATA	-4	
5549	01	01571	07F01571		CAL4,F	\$	
5550	01	01572	000001E0		K	0,0,0,S19CL4	MASTER
5551	01	01573	F00000EA		K	15,0,0,C4RET+16	
5552				** I9	RESET		
5553	01	01574	FFFFFFFFC A	CAL07	DATA	-4	

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SIGMA 7 CPU DIAGNOSTIC-AUT8 704044-51800 MARCH 10,1969 165
5554 01 01575 07F01575 CAL4,F *
5555 01 01576 000001E1 K 0,0,0,R19CL4 MASTER
5556 01 01577 F00000DB K 15,0,0,C4RET+1
5557
5558 *** CAUTION
5559 *** PSW1 BUT IS DEPENDENT UPON THE SENSE SWITCH SETTING WHEN EXECUTING
5560 *** FARWD INSTRUCTIONS. A FALSE ERROR COULD OCCUR IF SWITCHES ARE
5561 *** OPERATED.
5562 *** TO RECOVER USE THE CP INTERRUPT SET THE SENSE SWITCHES, ENTER
5563 *** THE M8DULE LOCATION IN R1, DISPLAY THE IA AND RUN.
5564 01 01578 FFFFFFF2 A FARWD01 DATA -14
5565 01 01579 6DC00037 A WD,12 X'37' SET ALL INTERRUPT INHIBITS IN PSW2
5566 01 0157A 000001E6 DATA FARWD
5567 01 0157B 0000016A DATA L8C+2
5568 01 0157C 00000000 A DATA 0,0,0,0,0,0,0,0,X'7000000'
01 0157D 00000000 A
01 0157E 00000000 A
01 0157F 00000000 A
01 01580 00000000 A
01 01581 00000000 A
01 01582 00000000 A
01 01583 00000000 A
01 01584 00000000 A
01 01585 07000000 A
5569 01 01586 FFFFFFF2 A FARWD02 DATA -14
5570 01 01587 30C00030 A WD,12 X'30' PSW2 UNCHANGED
5571 01 01588 000001E6 DATA FARWD
5572 01 01589 0000016A DATA L8C+2
5573 01 0158A FFFFFFFF A DATA -1,-1,-1,-1,-1,-1,-1,-1,X'7000000',X'7000000'
01 0158B FFFFFFFF A
01 0158C FFFFFFFF A
01 0158D FFFFFFFF A
01 0158E FFFFFFFF A
01 0158F FFFFFFFF A
01 01590 FFFFFFFF A
01 01591 FFFFFFFF A
01 01592 07000000 A

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SIGMA 7 CPU DIAGNOSTIC-AUT8 704044-51800 MARCH 10,1969 166
5574 01 01593 07000000 A PAGE
5575 ** CHECK THAT INDX=C4.C14
5576 ** INDEXING ALIGNMENT IS CHECKED BY THE BYTE, HALF AND DOUBLEWORD MODULE
5577 01 01594 FFFFFFFF A IX01 DATA -8
5578 01 01595 48C3EECC A E8R,12 MEMORY-IX01,1
5579 01 01596 0000013A DATA SETPSW,L8C+2
01 01597 0000016A
5580 01 01598 00001594 DATA IX01,0,IX01,IX01
01 01599 00000000 A
01 0159A 00001594
01 0159B 00001594
5581 ** CHECK THAT INDX=C3.C12
5582 01 0159C FFFFFFFF A IX02 DATA -8
5583 01 0159D 30C80004 A AW,12 4,4 EFF ADDR IS 8. CONTENTS OF MEM IN 8
5584 01 0159E 0000013A DATA SETPSW
5585 01 0159F 2000016A K 2,0,0,L8C+2
5586 01 015A0 00000064 A DATA 100,300,200,200
01 015A1 0000012C A
01 015A2 000000C8 A
01 015A3 000000C8 A
5587 ** CHECK THAT INDX=C5.C13
5588 01 015A4 FFFFFFFF A IX03 DATA -10
5589 01 015A5 24C40002 A SF,12 2,2 IX2 CONTAINS A 1. CAUSING LS OF 3.
5590 01 015A6 0000013A K 0,0,0,SETPSW
5591 01 015A7 A000016A K 10,0,0,L8C+2
5592 01 015A8 14000100 A DATA X'14000100'
5593 01 015A9 11100000 A DATA X'11100000'
5594 01 015AA 00000000 A DATA 0
5595 01 015AB 00000000 A DATA 0
5596 01 015AC FFFFFFFF A DATA -1
5597 01 015AD FFFFFFFF A DATA -1
5598 PAGE
5599 ** TEST THAT A PRIVILEGED INSTRUCTION TRAPS IN SLAVE MODE
5600 01 015AE FFFFFFFC A FAPRIV01 DATA -4
5601 01 015AF 0F000464 XPSD,0 RETURN
5602 01 015B0 F7B001B3 K 15,7,11,SIGNA0 I9=1 CAUSING TRACC2 ADDITION TO ADD

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SIGMA 7 CPU DIAGNOSTIC-AUTB 704044-51B00 MARCH 10,1969 167

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5603 01 015B1 F7300065 K F,7,3,MVRET+1
5604 ** TEST THAT FAPRIV IS FALSE WHEN 05 IS FALSE
5605 01 015B2 FFFFFFFC A FAPRIV02 DATA -4
5606 01 015B3 48C00460 EBR,12 MEMBRY
5607 01 015B4 F780013A K 15,7,11,SETPSW
5608 01 015B5 C7800169 K 12,7,11,L8C+1
5609 ** TEST THAT FAPRIV IS FALSE WHEN 04 IS FALSE
5610 01 015B6 FFFFFFFC A FAPRIV03 DATA -4
5611 01 015B7 66C00460 AWM,12 MEMBRY
5612 01 015B8 F780013A K 15,7,11,SETPSW
5613 01 015B9 07800169 K 0,7,11,L8C+1
5614 ** TEST THAT FAPRIV IS FALSE WHEN 03 IS TRUE. NON-EXISTENT TRAP SHOULD
5615 ** OCCUR. A RETURN FROM NEIRET+2 INDICATES FAPRIV BECAME TRUE.
5616 01 015BA FFFFFFFC A FAPRIV04 DATA -4
5617 01 015BB 5C000460 K 5,12,0,MEMBRY ILLEGAL BP CODE 5C
5618 01 015BC F7800183 K 15,7,11,S19NA0
5619 01 015BD F730006B K 15,7,3,NEIRET+1
5620 PAGE
5621 01 015BE FFFFFFFF8 A NEI01 DATA -8 NEI 00
5622 01 015BF 00C00460 K 0,0,12,MEMBRY
5623 01 015C0 77300184 K 7,7,3,R19NA0
5624 01 015C1 F7300063 K 15,7,3,NABRET+1
5625 01 015C2 78787878 A DATA X'78787878'
5626 01 015C3 78787878 A DATA X'78787878'
5627 01 015C4 87878787 A DATA X'87878787'
5628 01 015C5 87878787 A DATA X'87878787'
5629 01 015C6 FFFFFFFC A NEI02 DATA -4 NEI 01
5630 01 015C7 011015C7 K 0,1,1,$
5631 01 015C8 00000183 K 0,0,0,S19NA0
5632 01 015C9 8000006B K 8,0,0,NEIRET+1
5633 01 015CA FFFFFFFC A NEI03 DATA -4 NEI 03
5634 01 015CB 031015CB K 0,3,1,$
5635 01 015CC 77300183 K 7,7,3,S19NA0
5636 01 015CD F730006B K 15,7,3,NEIRET+1
5637 01 015CE FFFFFFFC A NEI04 DATA -4 NEI 03 WITH IA
5638 01 015CF 831015CF K 8,3,1,$
5639 01 015DD 17300183 K 1,7,3,S19NA0

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SIGMA 7 CPU DIAGNOSTIC-AUTB 704044-51B00 MARCH 10,1969 168

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5640 01 015D1 9730006B K 9,7,3,NEIRET+1
5641 01 015D2 FFFFFFFC A NEI05 DATA -4 NEI 0C
5642 01 015D3 0C1015D3 K 0,12,1,$
5643 01 015D4 20100183 K 2,0,1,S19NA0
5644 01 015D5 A010006B K 10,0,1,NEIRET+1
5645 01 015D6 FFFFFFFC A NEI06 DATA -4 NEI 0D
5646 01 015D7 0D1015D7 K 0,13,1,$
5647 01 015D8 31200184 K 3,1,2,R19NA0
5648 01 015D9 B1200063 K 11,1,2,NABRET+1
5649 01 015DA FFFFFFFC A NEI07 DATA -4 NEI 14
5650 01 015DB 14C015DB K 1,4,12,$
5651 01 015DC 42300183 K 4,2,3,S19NA0
5652 01 015DD C230006B K 12,2,3,NEIRET+1
5653 01 015DE FFFFFFFC A NEI073 DATA -4 NEI 16
5654 01 015DF 16C015DF K 1,6,12,$
5655 01 015E0 42300183 K 4,2,3,S19NA0
5656 01 015E1 C230006B K 12,2,3,NEIRET+1
5657 01 015E2 FFFFFFFC A NEI08 DATA -4 NEI 1B
5658 01 015E3 161015E3 K 1,6,1,$
5659 01 015E4 53000183 K 5,3,0,S19NA0
5660 01 015E5 D300006B K 13,3,0,NEIRET+1
5661 01 015E6 FFFFFFFC A NEI09 DATA -4 NEI 17
5662 01 015E7 17D015E7 K 1,7,13,$
5663 01 015E8 64100183 K 6,4,1,S19NA0
5664 01 015E9 E410006B K 14,4,1,NEIRET+1
5665 01 015EA FFFFFFFC A NEI10 DATA -4 NEI 26
5666 01 015EB 261015EB K 2,6,1,$
5667 01 015EC 75200184 K 7,5,2,R19NA0
5668 01 015ED F5200063 K 15,5,2,NABRET+1
5669 01 015EE FFFFFFFC A NEI11 DATA -4 NEI 27
5670 01 015EF 27C015EF K 2,7,12,$
5671 01 015F0 86300183 K 8,6,3,S19NA0
5672 01 015F1 8630006B K 8,6,3,NEIRET+1
5673 01 015F2 FFFFFFFC A NEI12 DATA -4 NEI 2C
5674 01 015F3 2C1015F3 K 2,12,1,$
5675 01 015F4 97000183 K 9,7,0,S19NA0
5676 01 015F5 9700006B K 9,7,0,NEIRET+1

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SIGMA 7 CPU DIAGNOSTIC-AUTB 704044-51B00 MARCH 10,1969 169

5677	01	015F6	FFFFFFFFC	A	NEI13	DATA	-4		NEI 20
5678	01	015F7	2DD015F7			K	2,13,13,8		
5679	01	015F8	A8000183			K	10,8,0,S19NA8		
5680	01	015F9	A000006B			K	10,0,0,NEIRET+1		
5681	01	015FA	FFFFFFFFC	A	NEI14	DATA	-4		NEI 34
5682	01	015FB	34C015FB			K	3,4,12,8		
5683	01	015FC	B9100183			K	11,9,1,S19NA8		
5684	01	015FD	8110006B			K	11,1,1,NEIRET+1		
5685	01	015FE	FFFFFFFFC	A	NEI15	DATA	-4		NEI 42
5686	01	015FF	421015FF			K	4,2,1,8		
5687	01	01600	CA200183			K	12,10,2,S19NA8		
5688	01	01601	C220006B			K	12,2,2,NEIRET+1		
5689						PAGE			
5690	01	01602	FFFFFFFFC	A	NEI16	DATA	-4		NEI 43
5691	01	01603	43C01603			K	4,3,12,8		
5692	01	01604	DB300183			K	13,11,3,S19NA8		
5693	01	01605	D330006B			K	13,3,3,NEIRET+1		
5694	01	01606	FFFFFFFFC	A	NEI17	DATA	-4		NEI 54
5695	01	01607	54101607			K	5,4,1,8		
5696	01	01608	EB000183			K	14,11,0,S19NA8		
5697	01	01609	E300006B			K	14,3,0,NEIRET+1		
5698	01	0160A	FFFFFFFFC	A	NEI18	DATA	-4		NEI 59
5699	01	0160B	59C0160B			K	5,9,12,8		
5700	01	0160C	FC100184			K	15,12,1,S19NA8		
5701	01	0160D	F410006B			K	15,4,1,NA8RET+1		
5702	01	0160E	FFFFFFFFC	A	NEI19	DATA	-4		NEI 5C
5703	01	0160F	5CD0160F			K	5,12,13,8		
5704	01	01610	0D200183			K	0,13,2,S19NA8		
5705	01	01611	8520006B			K	8,5,2,NEIRET+1		
5706	01	01612	FFFFFFFFC	A	NEI20	DATA	-4		NEI 5D
5707	01	01613	5D101613			K	5,13,1,8		
5708	01	01614	1E300183			K	1,14,3,S19NA8		
5709	01	01615	9630006B			K	9,6,3,NEIRET+1		
5710	01	01616	FFFFFFFFC	A	NEI21	DATA	-4		NEI 5E
5711	01	01617	5EC01617			K	5,14,12,8		
5712	01	01618	2F000183			K	2,15,0,S19NA8		
5713	01	01619	A700006B			K	10,7,0,NEIRET+1		

SIGMA 7 CPU DIAGNOSTIC-AUTB 704044-51B00 MARCH 10,1969 170

5714	01	0161A	FFFFFFFFC	A	NEI22	DATA	-4		NEI 5F
5715	01	0161B	5FD0161B			K	5,15,13,8		
5716	01	0161C	30100184			K	3,0,1,S19NA8		
5717	01	0161D	B010006B			K	11,0,1,NA8RET+1		
5718	01	0161E	FFFFFFFFC	A	NEI23	DATA	-4		NEI 62
5719	01	0161F	6210161F			K	6,2,1,8		
5720	01	01620	41200183			K	4,1,2,S19NA8		
5721	01	01621	C120006B			K	12,1,2,NEIRET+1		
5722						PAGE			
5723						**			
5724						** THIS TEST IS BYPASSED IF FLOATING POINT IS INSTALLED.			
5725	01	01622	FFFFFFFFC	A	NFAIMP01	DATA	-4		
5726	01	01623	680001AB			B	END		BECOMES FAS,12MEMORY IF NFP0PTION
5727	01	01624	00000189			K	0,0,0,UIISW		
5728	01	01625	00000077			K	0,0,0,UIIRET+1		
5729						**			
5730						** THESE TESTS ARE BYPASSED IF DECIMAL OPTION IS INSTALLED			
5731	01	01626	FFFFFFFFC	A	NDEC8PT	DATA	-4		
5732	01	01627	680001AB			B	END		BECOMES DA,4 DECHRD IF DECIMAL
5733	01	01628	00000189			K	0,0,0,UIISW		OPTION NOT INSTALLED
5734	01	01629	00000077			K	0,0,0,UIIRET+1		
5735	01	0162A	FFFFFFFFC	A	NDEC8P1	DATA	-12		
5736	01	0162B	680001AB			B	END		BECOMES DECIMAL PACK IF DECIMAL
5737	01	0162C	00000189			K	0,0,0,UIISW		OPTION NOT INSTALLED
5738	01	0162D	00000077			K	0,0,0,UIIRET+1		
5739	01	0162E	FFFFFFFFC	A		DATA	-1		
5740	01	0162F	FFFFFFFFC	A		DATA	-1		
5741	01	01630	A9000000	A		DATA	X'A9000000'		
5742	01	01631	A9000000	A		DATA	X'A9000000'		
5743	01	01632	FFFFFFFFC	A		DATA	-1		
5744	01	01633	FFFFFFFFC	A		DATA	-1		
5745	01	01634	00000000	A		DATA	0,0		
5746	01	01635	00000000	A					
5747	01	01636	FFFFFFFFC	A	NDEC8P2	DATA	-12		
5748	01	01637	680001AB			B	END		BECOMES DECIMAL EDIT IF DECIMAL
5749	01	01638	00000189			K	0,0,0,UIISW		OPTION NOT INSTALLED
5749	01	01639	00000077			K	0,0,0,UIIRET+1		

SIGMA 7 CPU DIAGNOSTIC-AUTB 704044-51800

MARCH 10, 1969

171

5750	01	0163A	00000460		DATA	MEMORY	
5751	01	0163B	00000460		DATA	MEMORY	
5752	01	0163C	12345678 A		DATA	X'12345678'	
5753	01	0163D	12345678 A		DATA	X'12345678'	
5754	01	0163E	01000461		K	0,1,0, MEMORY+1	
5755	01	0163F	01000461		K	0,1,0, MEMORY+1	
5756	01	01640	00000000 A		DATA	0,0	
		01 01641	00000000 A				
5757					PAGE		
5758	01	01642	FFFFFFF6 A	MW01	DATA	-10	MW
5759	01	01643	37C00460		MW,12	MEMORY	
5760	01	01644	073001BF		K	00,7,3,FXP8SW	
5761	01	01645	5730016A		K	5,7,3,L8C+2	
5762	01	01646	55555555 A		DATA	X'55555555'	
5763	01	01647	058E3546 A		DATA	X'058E3546'	
5764	01	01648	55555555 A		DATA	X'55555555'	
5765	01	01649	55555555 A		DATA	X'55555555'	
5766	01	0164A	80AA9FD4 A		DATA	X'80AA9FD4'	
5767	01	0164B	D51C7564 A		DATA	X'D51C7564'	
5768	01	0164C	FFFFFFF6 A	MW02	DATA	-10	MW
5769	01	0164D	37C00460		MW,12	MEMORY	
5770	01	0164E	073001BF		K	00,7,3,FXP8SW	
5771	01	0164F	5730016A		K	5,7,3,L8C+2	
5772	01	01650	00000000 A		DATA	X'00000000'	
5773	01	01651	FE40C35E A		DATA	X'FE40C35E'	
5774	01	01652	FC7CF1CC A		DATA	X'FC7CF1CC'	
5775	01	01653	FC7CF1CC A		DATA	X'FC7CF1CC'	
5776	01	01654	7F56BA80 A		DATA	X'7F56BA80'	
5777	01	01655	74AF1E00 A		DATA	X'74AF1E00'	
5778	01	01656	FFFFFFF6 A	MW03	DATA	-10	MW
5779	01	01657	37C00460		MW,12	MEMORY	
5780	01	01658	073001BF		K	00,7,3,FXP8SW	
5781	01	01659	6730016A		K	6,7,3,L8C+2	
5782	01	0165A	00000000 A		DATA	X'00000000'	
5783	01	0165B	158B908B A		DATA	X'158B908B'	
5784	01	0165C	59C61C18 A		DATA	X'59C61C18'	
5785	01	0165D	59C61C18 A		DATA	X'59C61C18'	

SIGMA 7 CPU DIAGNOSTIC-AUTB 704044-51800

MARCH 10, 1969

172

5786	01	0165E	30F91CF8 A		DATA	X'30F91CF8'	
5787	01	0165F	AE55D740 A		DATA	X'AE55D740'	
5788					PAGE		
5789	01	01660	FFFFFFF6 A	MW04	DATA	-10	MW
5790	01	01661	37C00460		MW,12	MEMORY	
5791	01	01662	073001BF		K	00,7,3,FXP8SW	
5792	01	01663	5730016A		K	5,7,3,L8C+2	
5793	01	01664	00000000 A		DATA	X'00000000'	
5794	01	01665	FAE49435 A		DATA	X'FAE49435'	
5795	01	01666	F1C3C731 A		DATA	X'F1C3C731'	
5796	01	01667	F1C3C731 A		DATA	X'F1C3C731'	
5797	01	01668	58D80E1D A		DATA	X'58D80E1D'	
5798	01	01669	946A3E8D A		DATA	X'946A3E8D'	
5799	01	0166A	FFFFFFF6 A	MW05	DATA	-10	MW
5800	01	0166B	37C00460		MW,12	MEMORY	
5801	01	0166C	073001BF		K	00,7,3,FXP8SW	
5802	01	0166D	6730016A		K	6,7,3,L8C+2	
5803	01	0166E	00000000 A		DATA	X'00000000'	
5804	01	0166F	1EC17468 A		DATA	X'1EC17468'	
5805	01	01670	3F01FC03 A		DATA	X'3F01FC03'	
5806	01	01671	3F01FC03 A		DATA	X'3F01FC03'	
5807	01	01672	7CF5C8E1 A		DATA	X'7CF5C8E1'	
5808	01	01673	907FD6A3 A		DATA	X'907FD6A3'	
5809	01	01674	FFFFFFF6 A	MW06	DATA	-10	MW
5810	01	01675	37C00460		MW,12	MEMORY	
5811	01	01676	073001BF		K	00,7,3,FXP8SW	
5812	01	01677	5730016A		K	5,7,3,L8C+2	
5813	01	01678	00000000 A		DATA	X'00000000'	
5814	01	01679	CD4A4EAS A		DATA	X'CD4A4EAS'	
5815	01	0167A	70000000 A		DATA	X'70000000'	
5816	01	0167B	70000000 A		DATA	X'70000000'	
5817	01	0167C	8C178F32 A		DATA	X'8C178F32'	
5818	01	0167D	E0000000 A		DATA	X'E0000000'	
5819					PAGE		
5820	01	0167E	FFFFFFF6 A	MW07	DATA	-10	MW
5821	01	0167F	37C00460		MW,12	MEMORY	
5822	01	01680	073001BF		K	00,7,3,FXP8SW	

5823	01	01681	5730016A		K	5,7,3,L8C+2	
5824	01	01682	00000000	A	DATA	X'00000000'	
5825	01	01683	EC7E668F	A	DATA	X'EC7E668F'	
5826	01	01684	CDB53C70	A	DATA	X'CDB53C70'	
5827	01	01685	CDB53C70	A	DATA	X'CDB53C70'	
5828	01	01686	634AC271	A	DATA	X'634AC271'	
5829	01	01687	ED2C8D70	A	DATA	X'ED2C8D70'	
5830	01	01688	FFFFFFF6	A	DATA	-10	MW
5831	01	01689	37C00460		MW,12	MEMORY	
5832	01	0168A	073001BF		K	00,7,3,FXP8SW	
5833	01	0168B	5730016A		K	5,7,3,L8C+2	
5834	01	0168C	00000000	A	DATA	X'00000000'	
5835	01	0168D	FAA8C9D1	A	DATA	X'FAA8C9D1'	
5836	01	0168E	31C3C1F0	A	DATA	X'31C3C1F0'	
5837	01	0168F	31C3C1F0	A	DATA	X'31C3C1F0'	
5838	01	01690	E486C662	A	DATA	X'E486C662'	
5839	01	01691	B88FDDE0	A	DATA	X'B88FDDE0'	
5840	01	01692	FFFFFFF6	A	DATA	-10	MW
5841	01	01693	37C00460		MW,12	MEMORY	
5842	01	01694	073001BF		K	00,7,3,FXP8SW	
5843	01	01695	5730016A		K	5,7,3,L8C+2	
5844	01	01696	00000000	A	DATA	X'00000000'	
5845	01	01697	F47642A4	A	DATA	X'F47642A4'	
5846	01	01698	DF4F3C70	A	DATA	X'DF4F3C70'	
5847	01	01699	DF4F3C70	A	DATA	X'DF4F3C70'	
5848	01	0169A	5A5ACF3B	A	DATA	X'5A5ACF3B'	
5849	01	0169B	28817DD0	A	DATA	X'28817DD0'	
5850					PAGE		
5851	01	0169C	FFFFFFF6	A	DATA	-10	MW
5852	01	0169D	37C00460		MW,12	MEMORY	
5853	01	0169E	073001BF		K	00,7,3,FXP8SW	
5854	01	0169F	1730016A		K	1,7,3,L8C+2	
5855	01	016A0	00000000	A	DATA	X'00000000'	
5856	01	016A1	FFFFFFF6	A	DATA	X'FFFFFFF6'	
5857	01	016A2	FFFFFFF6	A	DATA	X'FFFFFFF6'	
5858	01	016A3	FFFFFFF6	A	DATA	X'FFFFFFF6'	
5859	01	016A4	55555551	A	DATA	X'55555551'	

5860	01	016A5	AAAAAAAF	A	DATA	X'AAAAAAAF'	
5861	01	016A6	FFFFFFF6	A	DATA	-10	MW
5862	01	016A7	37C00460		MW,12	MEMORY	
5863	01	016A8	073001BF		K	00,7,3,FXP8SW	
5864	01	016A9	1730016A		K	1,7,3,L8C+2	
5865	01	016AA	00000000	A	DATA	X'00000000'	
5866	01	016AB	FFFFFFF6	A	DATA	X'FFFFFFF6'	
5867	01	016AC	FFFFFFF6	A	DATA	X'FFFFFFF6'	
5868	01	016AD	FFFFFFF6	A	DATA	X'FFFFFFF6'	
5869	01	016AE	00000005	A	DATA	X'00000005'	
5870	01	016AF	FFFFFFF6	A	DATA	X'FFFFFFF6'	
5871	01	016B0	FFFFFFF6	A	DATA	-10	MW
5872	01	016B1	37C00460		MW,12	MEMORY	
5873	01	016B2	073001BF		K	00,7,3,FXP8SW	
5874	01	016B3	6730016A		K	6,7,3,L8C+2	
5875	01	016B4	00000000	A	DATA	X'00000000'	
5876	01	016B5	06D3A075	A	DATA	X'06D3A075'	
5877	01	016B6	EEEEEEEE	A	DATA	X'EEEEEEEE'	
5878	01	016B7	EEEEEEEE	A	DATA	X'EEEEEEEE'	
5879	01	016B8	99999922	A	DATA	X'99999922'	
5880	01	016B9	92C5F99C	A	DATA	X'92C5F99C'	
5881					PAGE		
5882	01	016BA	FFFFFFF6	A	DATA	-10	MW
5883	01	016BB	37C00460		MW,12	MEMORY	
5884	01	016BC	073001BF		K	00,7,3,FXP8SW	
5885	01	016BD	0730016A		K	0,7,3,L8C+2	
5886	01	016BE	00000000	A	DATA	X'00000000'	
5887	01	016BF	00000000	A	DATA	X'00000000'	
5888	01	016C0	00000000	A	DATA	X'00000000'	
5889	01	016C1	00000000	A	DATA	X'00000000'	
5890	01	016C2	83333334	A	DATA	X'83333334'	
5891	01	016C3	00000000	A	DATA	X'00000000'	
5892	01	016C4	FFFFFFF6	A	DATA	-10	MW
5893	01	016C5	37C00460		MW,12	MEMORY	
5894	01	016C6	073001BF		K	00,7,3,FXP8SW	
5895	01	016C7	6730016A		K	6,7,3,L8C+2	
5896	01	016C8	00000000	A	DATA	X'00000000'	

5897	01 016C9	0EB851EA	A	DATA	X'0EB851EA'	
5898	01 016CA	CCCCCCCC	A	DATA	X'CCCCCCCC'	
5899	01 016CB	CCCCCCCC	A	DATA	X'CCCCCCCC'	
5900	01 016CC	B666666E	A	DATA	X'B666666E'	
5901	01 016CD	3AE147A8	A	DATA	X'3AE147A8'	
5902	01 016CE	FFFFFFF6	A	DATA	-10	MW
5903	01 016CF	37C00460		MW,12	MEMBRY	
5904	01 016D0	073001BF		K	00,7,3,FXP8SW	
5905	01 016D1	5730016A		K	5,7,3,L8C+2	
5906	01 016D2	00000000	A	DATA	X'00000000'	
5907	01 016D3	F58F28C2	A	DATA	X'F58F28C2'	
5908	01 016D4	33333333	A	DATA	X'33333333'	
5909	01 016D5	33333333	A	DATA	X'33333333'	
5910	01 016D6	C8C8C8C8	A	DATA	X'C8C8C8C8'	
5911	01 016D7	3DA40A71	A	DATA	X'3DA40A71'	
5912				PAGE		
5913	01 016D8	FFFFFFF6	A	DATA	-10	MW
5914	01 016D9	37C00460		MW,12	MEMBRY	
5915	01 016DA	073001BF		K	00,7,3,FXP8SW	
5916	01 016DB	6730016A		K	6,7,3,L8C+2	
5917	01 016DC	00000000	A	DATA	X'00000000'	
5918	01 016DD	36A48B36	A	DATA	X'36A48B36'	
5919	01 016DE	6DB6DB6D	A	DATA	X'6DB6DB6D'	
5920	01 016DF	6DB6DB6D	A	DATA	X'6DB6DB6D'	
5921	01 016E0	7F7F7F7F	A	DATA	X'7F7F7F7F'	
5922	01 016E1	12A4EE13	A	DATA	X'12A4EE13'	
5923	01 016E2	FFFFFFF6	A	DATA	-10	MW
5924	01 016E3	37C00460		MW,12	MEMBRY	
5925	01 016E4	073001BF		K	00,7,3,FXP8SW	
5926	01 016E5	5730016A		K	5,7,3,L8C+2	
5927	01 016E6	00000000	A	DATA	X'00000000'	
5928	01 016E7	FEFF1010	A	DATA	X'FEFF1010'	
5929	01 016E8	DDDDDDDD	A	DATA	X'DDDDDDDD'	
5930	01 016E9	DDDDDDDD	A	DATA	X'DDDDDDDD'	
5931	01 016EA	07870787	A	DATA	X'07870787'	
5932	01 016EB	189C0A8B	A	DATA	X'189C0A8B'	
5933	01 016EC	FFFFFFF6	A	DATA	-10	MW

5934	01 016ED	37C00460		MW,12	MEMBRY	
5935	01 016EE	073001BF		K	00,7,3,FXP8SW	
5936	01 016EF	1730016A		K	1,7,3,L8C+2	
5937	01 016F0	00000000	A	DATA	X'00000000'	
5938	01 016F1	FFFFFFF6	A	DATA	X'FFFFFFF6'	
5939	01 016F2	FFFFFFF6	A	DATA	X'FFFFFFF6'	
5940	01 016F3	FFFFFFF6	A	DATA	X'FFFFFFF6'	
5941	01 016F4	6B6D36D9	A	DATA	X'6B6D36D9'	
5942	01 016F5	9492C927	A	DATA	X'9492C927'	
5943				PAGE		
5944	01 016F6	FFFFFFF6	A	DATA	-10	MW
5945	01 016F7	37C00460		MW,12	MEMBRY	
5946	01 016F8	073001BF		K	00,7,3,FXP8SW	
5947	01 016F9	5730016A		K	5,7,3,L8C+2	
5948	01 016FA	00000000	A	DATA	X'00000000'	
5949	01 016FB	F80D84B6	A	DATA	X'F80D84B6'	
5950	01 016FC	EEEEEEEE	A	DATA	X'EEEEEEEE'	
5951	01 016FD	EEEEEEEE	A	DATA	X'EEEEEEEE'	
5952	01 016FE	4A32694C	A	DATA	X'4A32694C'	
5953	01 016FF	656A8CAB	A	DATA	X'656A8CAB'	
5954	01 01700	FFFFFFF6	A	DATA	-10	MW
5955	01 01701	37C00460		MW,12	MEMBRY	
5956	01 01702	073001BF		K	00,7,3,FXP8SW	
5957	01 01703	6730016A		K	6,7,3,L8C+2	
5958	01 01704	00000000	A	DATA	X'00000000'	
5959	01 01705	15555552	A	DATA	X'15555552'	
5960	01 01706	7FFFFFFF	A	DATA	X'7FFFFFFF'	
5961	01 01707	7FFFFFFF	A	DATA	X'7FFFFFFF'	
5962	01 01708	2AAAAAA6	A	DATA	X'2AAAAAA6'	
5963	01 01709	D555555A	A	DATA	X'D555555A'	
5964	01 0170A	FFFFFFF6	A	DATA	-10	MW
5965	01 0170B	37C00460		MW,12	MEMBRY	
5966	01 0170C	073001BF		K	00,7,3,FXP8SW	
5967	01 0170D	6730016A		K	6,7,3,L8C+2	
5968	01 0170E	00000000	A	DATA	X'00000000'	
5969	01 0170F	00000000	A	DATA	X'00000000'	
5970	01 01710	FFFFFFF6	A	DATA	X'FFFFFFF6'	

SIGMA 7 CPU DIAGNOSTIC-AUTO 704044-51800			MARCH 10, 1969		177
5971	01 01711	FFFFFFFF A		DATA	X'FFFFFFFF'
5972	01 01712	80000000 A		DATA	X'80000000'
5973	01 01713	80000000 A		DATA	X'80000000'
5974				PAGE	
5975	01 01714	FFFFFFFF6 A	MW22	DATA	-10
5976	01 01715	37C00460		MW,12	MEMBRY
5977	01 01716	073001BF		K	00,7,3,FXP8SW
5978	01 01717	6730016A		K	6,7,3,L8C+2
5979	01 01718	00000000 A		DATA	X'00000000'
5980	01 01719	3FFFFFFFF A		DATA	X'3FFFFFFFF'
5981	01 0171A	7FFFFFFFF A		DATA	X'7FFFFFFFF'
5982	01 0171B	7FFFFFFFF A		DATA	X'7FFFFFFFF'
5983	01 0171C	7FFFFFFFF A		DATA	X'7FFFFFFFF'
5984	01 0171D	00000001 A		DATA	X'00000001'
5985	01 0171E	FFFFFFFF6 A	MW23	DATA	-10
5986	01 0171F	37C00460		MW,12	MEMBRY
5987	01 01720	073001BF		K	00,7,3,FXP8SW
5988	01 01721	6730016A		K	6,7,3,L8C+2
5989	01 01722	00000000 A		DATA	X'00000000'
5990	01 01723	40000000 A		DATA	X'40000000'
5991	01 01724	80000000 A		DATA	X'80000000'
5992	01 01725	80000000 A		DATA	X'80000000'
5993	01 01726	80000000 A		DATA	X'80000000'
5994	01 01727	00000000 A		DATA	X'00000000'
5995	01 01728	FFFFFFFF6 A	MW24	DATA	-10
5996	01 01729	37C00460		MW,12	MEMBRY
5997	01 0172A	073001BF		K	00,7,3,FXP8SW
5998	01 0172B	1730016A		K	1,7,3,L8C+2
5999	01 0172C	00000000 A		DATA	X'00000000'
6000	01 0172D	FFFFFFFF A		DATA	X'FFFFFFFF'
6001	01 0172E	00000001 A		DATA	X'00000001'
6002	01 0172F	00000001 A		DATA	X'00000001'
6003	01 01730	80000000 A		DATA	X'80000000'
6004	01 01731	80000000 A		DATA	X'80000000'
6005				PAGE	
6006	01 01732	FFFFFFFF6 A	MW25	DATA	-10
6007	01 01733	37C00460		MW,12	MEMBRY

SIGMA 7 CPU DIAGNOSTIC-AUTO 704044-51800			MARCH 10, 1969		178
6008	01 01734	073001BF		K	00,7,3,FXP8SW
6009	01 01735	1730016A		K	1,7,3,L8C+2
6010	01 01736	00000000 A		DATA	X'00000000'
6011	01 01737	FFFFFFFF A		DATA	X'FFFFFFFF'
6012	01 01738	80000000 A		DATA	X'80000000'
6013	01 01739	80000000 A		DATA	X'80000000'
6014	01 0173A	00000001 A		DATA	X'00000001'
6015	01 0173B	80000000 A		DATA	X'80000000'
6016	01 0173C	FFFFFFFF6 A	MW26	DATA	-10
6017	01 0173D	37C00460		MW,12	MEMBRY
6018	01 0173E	073001BF		K	00,7,3,FXP8SW
6019	01 0173F	2730016A		K	2,7,3,L8C+2
6020	01 01740	00000000 A		DATA	X'00000000'
6021	01 01741	00000000 A		DATA	X'00000000'
6022	01 01742	FFFFFFFF A		DATA	X'FFFFFFFF'
6023	01 01743	FFFFFFFF A		DATA	X'FFFFFFFF'
6024	01 01744	FFFFFFFF A		DATA	X'FFFFFFFF'
6025	01 01745	00000001 A		DATA	X'00000001'
6026	01 01746	FFFFFFFF6 A	MW27	DATA	-10
6027	01 01747	37C00460		MW,12	MEMBRY
6028	01 01748	073001BF		K	00,7,3,FXP8SW
6029	01 01749	0730016A		K	0,7,3,L8C+2
6030	01 0174A	7FFFFFFFF A		DATA	X'7FFFFFFFF'
6031	01 0174B	00000000 A		DATA	X'00000000'
6032	01 0174C	7FFFFFFFF A		DATA	X'7FFFFFFFF'
6033	01 0174D	7FFFFFFFF A		DATA	X'7FFFFFFFF'
6034	01 0174E	00000000 A		DATA	X'00000000'
6035	01 0174F	00000000 A		DATA	X'00000000'
6036				PAGE	
6037	01 01750	FFFFFFFF6 A	MW28	DATA	-10
6038	01 01751	37C00460		MW,12	MEMBRY
6039	01 01752	073001BF		K	00,7,3,FXP8SW
6040	01 01753	0730016A		K	0,7,3,L8C+2
6041	01 01754	00000000 A		DATA	X'00000000'
6042	01 01755	00000000 A		DATA	X'00000000'
6043	01 01756	00000000 A		DATA	X'00000000'
6044	01 01757	00000000 A		DATA	X'00000000'

SIGMA 7 CPU DIAGNOSTIC-AUTB 704044-51B00				MARCH 10, 1969		179
6045	01	01758	00000000 A	DATA	0	
6046	01	01759	00000000 A	DATA	X'00000000'	
6047	01	0175A	FFFFFFF6 A	MW29	DATA	-10
6048	01	01758	37C00460	MW,12	MEMBRY	
6049	01	0175C	073001BF	K	00,7,3,FXP8SW	
6050	01	0175D	6730016A	K	6,7,3,L8C+2	
6051	01	0175E	00000000 A	DATA	X'00000000'	
6052	01	0175E	17A36285 A	DATA	X'17A36285'	
6053	01	01760	79999999 A	DATA	X'79999999'	
6054	01	01761	79999999 A	DATA	X'79999999'	
6055	01	01762	31C3C1F0 A	DATA	X'31C3C1F0'	
6056	01	01763	15575870 A	DATA	X'15575870'	
6057	01	01764	FFFFFFF6 A	MW30	DATA	-10
6058	01	01765	37C00460	MW,12	MEMBRY	
6059	01	01766	073001BF	K	00,7,3,FXP8SW	
6060	01	01767	5730016A	K	5,7,3,L8C+2	
6061	01	01768	00000000 A	DATA	X'00000000'	
6062	01	01769	D3DC7674 A	DATA	X'D3DC7674'	
6063	01	0176A	59C61C18 A	DATA	X'59C61C18'	
6064	01	0176B	59C61C18 A	DATA	X'59C61C18'	
6065	01	0176C	82222222 A	DATA	X'82222222'	
6066	01	0176D	273AEB30 A	DATA	X'273AEB30'	
6067				PAGE		
6068	01	0176E	FFFFFFF6 A	MW31	DATA	-10
6069	01	0176E	37C00460	MW,12	MEMBRY	
6070	01	01770	073001BF	K	00,7,3,FXP8SW	
6071	01	01771	5730016A	K	5,7,3,L8C+2	
6072	01	01772	00000000 A	DATA	X'00000000'	
6073	01	01773	FF036C81 A	DATA	X'FF036C81'	
6074	01	01774	87777777 A	DATA	X'87777777'	
6075	01	01775	87777777 A	DATA	X'87777777'	
6076	01	01776	021871E7 A	DATA	X'021871E7'	
6077	01	01777	19805361 A	DATA	X'19805361'	
6078	01	01778	FFFFFFF6 A	MW32	DATA	-10
6079	01	01779	37C00460	MW,12	MEMBRY	
6080	01	0177A	073001BF	K	00,7,3,FXP8SW	
6081	01	0177B	6730016A	K	6,7,3,L8C+2	

SIGMA 7 CPU DIAGNOSTIC-AUTB 704044-51B00				MARCH 10, 1969		180
6082	01	0177C	00000000 A	DATA	X'00000000'	
6083	01	0177D	0128AF66 A	DATA	X'0128AF66'	
6084	01	0177E	FC7CF1CC A	DATA	X'FC7CF1CC'	
6085	01	0177F	FC7CF1CC A	DATA	X'FC7CF1CC'	
6086	01	01780	AAAAAAAA A	DATA	X'AAAAAAAA'	
6087	01	01781	AD020978 A	DATA	X'AD020978'	
6088	01	01782	FFFFFFF6 A	MW33	DATA	-10
6089	01	01783	37C00460	MW,12	MEMBRY	
6090	01	01784	073001BF	K	00,7,3,FXP8SW	
6091	01	01785	5730016A	K	5,7,3,L8C+2	
6092	01	01786	00000000 A	DATA	X'00000000'	
6093	01	01787	F8C79A5E A	DATA	X'F8C79A5E'	
6094	01	01788	15555555 A	DATA	X'15555555'	
6095	01	01789	15555555 A	DATA	X'15555555'	
6096	01	0178A	CD5B3C70 A	DATA	X'CD5B3C70'	
6097	01	01788	BB8C4130 A	DATA	X'BB8C4130'	
6098				PAGE		
6099	01	0178C	FFFFFFF6 A	MW34	DATA	-10
6100	01	0178D	37C00460	MW,12	MEMBRY	
6101	01	0178E	073001BF	K	00,7,3,FXP8SW	
6102	01	0178F	6730016A	K	6,7,3,L8C+2	
6103	01	01790	00000000 A	DATA	X'00000000'	
6104	01	01791	00345678 A	DATA	X'00345678'	
6105	01	01792	03111111 A	DATA	X'03111111'	
6106	01	01793	03111111 A	DATA	X'03111111'	
6107	01	01794	11111111 A	DATA	X'11111111'	
6108	01	01795	99654321 A	DATA	X'99654321'	
6109	01	01796	FFFFFFF6 A	MW35	DATA	-10
6110	01	01797	37C00460	MW,12	MEMBRY	
6111	01	01798	073001BF	K	00,7,3,FXP8SW	
6112	01	01799	5730016A	K	5,7,3,L8C+2	
6113	01	0179A	00000000 A	DATA	X'00000000'	
6114	01	0179B	D5D5D5D8 A	DATA	X'D5D5D5D8'	
6115	01	0179C	66666666 A	DATA	X'66666666'	
6116	01	0179D	66666666 A	DATA	X'66666666'	
6117	01	0179E	9696969D A	DATA	X'9696969D'	
6118	01	0179F	9090908E A	DATA	X'9090908E'	

SIGMA 7 CPU DIAGNOSTIC-AUTB 704044-51800 MARCH 10, 1969 181

6119	01	017A0	FFFFFFF6 A	MW36	DATA	-10	MW
6120	01	017A1	37C00460		MW,12	MEMBRY	
6121	01	017A2	073001BF		K	00,7,3,FXP8SW	
6122	01	017A3	5730016A		K	5,7,3,L8C+2	
6123	01	017A4	00000000 A		DATA	X'00000000'	
6124	01	017A5	E06D3A06 A		DATA	X'E06D3A06'	
6125	01	017A6	44444444 A		DATA	X'44444444'	
6126	01	017A7	44444444 A		DATA	X'44444444'	
6127	01	017A8	89999999 A		DATA	X'89999999'	
6128	01	017A9	CA3D70A4 A		DATA	X'CA3D70A4'	
6129					PAGE		
6130	01	017AA	FFFFFFF6 A	MW37	DATA	-10	MW
6131	01	017AB	37C00460		MW,12	MEMBRY	
6132	01	017AC	073001BF		K	00,7,3,FXP8SW	
6133	01	017AD	6730016A		K	6,7,3,L8C+2	
6134	01	017AE	00000000 A		DATA	X'00000000'	
6135	01	017AF	080FCAE0 A		DATA	X'080FCAE0'	
6136	01	017B0	E1C4C737 A		DATA	X'E1C4C737'	
6137	01	017B1	E1C4C737 A		DATA	X'E1C4C737'	
6138	01	017B2	88888888 A		DATA	X'88888888'	
6139	01	017B3	5A6FB22D A		DATA	X'5A6FB22D'	
6140	01	017B4	FFFFFFF6 A	MW38	DATA	-10	MW
6141	01	017B5	37C00460		MW,12	MEMBRY	
6142	01	017B6	073001BF		K	00,7,3,FXP8SW	
6143	01	017B7	6730016A		K	6,7,3,L8C+2	
6144	01	017B8	00000000 A		DATA	X'00000000'	
6145	01	017B9	00000000 A		DATA	X'00000000'	
6146	01	017BA	80000000 A		DATA	X'80000000'	
6147	01	017BB	80000000 A		DATA	X'80000000'	
6148	01	017BC	FFFFFFF6 A		DATA	X'FFFFFFF6'	
6149	01	017BD	80000000 A		DATA	X'80000000'	
6150	01	017BE	FFFFFFF6 A	MW39	DATA	-10	MW
6151	01	017BF	37C00460		MW,12	MEMBRY	
6152	01	017C0	073001BF		K	00,7,3,FXP8SW	
6153	01	017C1	6730016A		K	6,7,3,L8C+2	
6154	01	017C2	00000000 A		DATA	X'00000000'	
6155	01	017C3	004B6827 A		DATA	X'004B6827'	

SIGMA 7 CPU DIAGNOSTIC-AUTB 704044-51800 MARCH 10, 1969 182

6156	01	017C4	42468ACE A		DATA	X'42468ACE'	
6157	01	017C5	42468ACE A		DATA	X'42468ACE'	
6158	01	017C6	01234567 A		DATA	X'01234567'	
6159	01	017C7	75F55EE2 A		DATA	X'75F55EE2'	
6160					PAGE		
6161	01	017C8	FFFFFFF6 A	MW40	DATA	-10	MW
6162	01	017C9	37C00460		MW,12	MEMBRY	
6163	01	017CA	073001BF		K	00,7,3,FXP8SW	
6164	01	017CB	5730016A		K	5,7,3,L8C+2	
6165	01	017CC	00000000 A		DATA	X'00000000'	
6166	01	017CD	EEA535DC A		DATA	X'EEA535DC'	
6167	01	017CE	258BCDEF A		DATA	X'258BCDEF'	
6168	01	017CF	258BCDEF A		DATA	X'258BCDEF'	
6169	01	017D0	89A8CDEF A		DATA	X'89A8CDEF'	
6170	01	017D1	7712A521 A		DATA	X'7712A521'	
6171	01	017D2	FFFFFFF6 A	MW41	DATA	-10	MW
6172	01	017D3	37C00460		MW,12	MEMBRY	
6173	01	017D4	073001BF		K	00,7,3,FXP8SW	
6174	01	017D5	6730016A		K	6,7,3,L8C+2	
6175	01	017D6	00000000 A		DATA	X'00000000'	
6176	01	017D7	0CB68AEE A		DATA	X'0CB68AEE'	
6177	01	017D8	56AE37BF A		DATA	X'56AE37BF'	
6178	01	017D9	56AE37BF A		DATA	X'56AE37BF'	
6179	01	017DA	258BE147 A		DATA	X'258BE147'	
6180	01	017DB	090554F9 A		DATA	X'090554F9'	
6181	01	017DC	FFFFFFF6 A	MW42	DATA	-10	MW
6182	01	017DD	37C00460		MW,12	MEMBRY	
6183	01	017DE	073001BF		K	00,7,3,FXP8SW	
6184	01	017DF	6730016A		K	6,7,3,L8C+2	
6185	01	017E0	00000000 A		DATA	X'00000000'	
6186	01	017E1	0AAC4A2C A		DATA	X'0AAC4A2C'	
6187	01	017E2	DF1357BD A		DATA	X'DF1357BD'	
6188	01	017E3	DF1357BD A		DATA	X'DF1357BD'	
6189	01	017E4	AD0369CF A		DATA	X'AD0369CF'	
6190	01	017E5	0FD776D3 A		DATA	X'0FD776D3'	
6191					PAGE		
6192	01	017E6	FFFFFFF6 A	MW43	DATA	-10	MW

6193	01	017E7	37C00460		MW,12	MEMORY
6194	01	017E8	073001BF		K	00,7,3,FXP8SW
6195	01	017E9	6730016A		K	6,7,3,L8C+2
6196	01	017EA	00000000 A		DATA	X'00000000'
6197	01	017EB	00CAFFF1 A		DATA	X'00CAFFF1'
6198	01	017EC	F2468ACE A		DATA	X'F2468ACE'
6199	01	017ED	F2468ACE A		DATA	X'F2468ACE'
6200	01	017EE	F13579BD A		DATA	X'F13579BD'
6201	01	017EF	E055D816 A		DATA	X'E055D816'
6202	01	017F0	FFFFFFFF 6	MW44	DATA	-10
6203	01	017F1	37C00460		MW,12	MEMORY
6204	01	017F2	073001BF		K	00,7,3,FXP8SW
6205	01	017F3	6730016A		K	6,7,3,L8C+2
6206	01	017F4	00000000 A		DATA	X'00000000'
6207	01	017F5	01837451 A		DATA	X'01837451'
6208	01	017F6	F147AD03 A		DATA	X'F147AD03'
6209	01	017F7	F147AD03 A		DATA	X'F147AD03'
6210	01	017F8	E26AE38D A		DATA	X'E26AE38D'
6211	01	017F9	BC21F3A7 A		DATA	X'BC21F3A7'
6212	01	017FA	FFFFFFFF 6	MW45	DATA	-10
6213	01	017FB	37C00460		MW,12	MEMORY
6214	01	017FC	073001BF		K	00,7,3,FXP8SW
6215	01	017FD	6730016A		K	6,7,3,L8C+2
6216	01	017FE	00000000 A		DATA	X'00000000'
6217	01	017FF	0330D831 A		DATA	X'0330D831'
6218	01	01800	148BF37B A		DATA	X'148BF37B'
6219	01	01801	148BF37B A		DATA	X'148BF37B'
6220	01	01802	27C16B05 A		DATA	X'27C16B05'
6221	01	01803	323B2A67 A		DATA	X'323B2A67'
6222					PAGE	
6223	01	01804	FFFFFFFF 6	MW46	DATA	-10
6224	01	01805	37C00460		MW,12	MEMORY
6225	01	01806	073001BF		K	00,7,3,FXP8SW
6226	01	01807	6730016A		K	6,7,3,L8C+2
6227	01	01808	00000000 A		DATA	X'00000000'
6228	01	01809	01723EB3 A		DATA	X'01723EB3'
6229	01	0180A	F37BF49E A		DATA	X'F37BF49E'

6230	01	0180B	F37BF49E A		DATA	X'F37BF49E'
6231	01	0180C	E26AF49F A		DATA	X'E26AF49F'
6232	01	0180D	248F8622 A		DATA	X'248F8622'
6233	01	0180E	FFFFFFFF 6	MW47	DATA	-10
6234	01	0180F	37C00460		MW,12	MEMORY
6235	01	01810	073001BF		K	00,7,3,FXP8SW
6236	01	01811	6730016A		K	6,7,3,L8C+2
6237	01	01812	00000000 A		DATA	X'00000000'
6238	01	01813	FBB2877E A		DATA	X'FBB2877E'
6239	01	01814	457AE39F A		DATA	X'457AE39F'
6240	01	01815	457AE39F A		DATA	X'457AE39F'
6241	01	01816	F0259E49 A		DATA	X'F0259E49'
6242	01	01817	9E820A57 A		DATA	X'9E820A57'
6243	01	01818	FFFFFFFF 6	MW48	DATA	-10
6244	01	01819	37C00460		MW,12	MEMORY
6245	01	0181A	073001BF		K	00,7,3,FXP8SW
6246	01	0181B	6730016A		K	6,7,3,L8C+2
6247	01	0181C	00000000 A		DATA	X'00000000'
6248	01	0181D	DDF466A3 A		DATA	X'DDF466A3'
6249	01	0181E	679C05B2 A		DATA	X'679C05B2'
6250	01	0181F	679C05B2 A		DATA	X'679C05B2'
6251	01	01820	ABE159F0 A		DATA	X'ABE159F0'
6252	01	01821	47B238E0 A		DATA	X'47B238E0'
6253					PAGE	
6254	01	01822	FFFFFFFF 6	MW49	DATA	-10
6255	01	01823	37C00460		MW,12	MEMORY
6256	01	01824	073001BF		K	00,7,3,FXP8SW
6257	01	01825	6730016A		K	6,7,3,L8C+2
6258	01	01826	00000000 A		DATA	X'00000000'
6259	01	01827	0D5BB3FB A		DATA	X'0D5BB3FB'
6260	01	01828	59D73C28 A		DATA	X'59D73C28'
6261	01	01829	59D73C28 A		DATA	X'59D73C28'
6262	01	0182A	26106573 A		DATA	X'26106573'
6263	01	0182B	F8EBCDF8 A		DATA	X'F8EBCDF8'
6264	01	0182C	FFFFFFFF 6	MW50	DATA	-10
6265	01	0182D	37C00460		MW,12	MEMORY
6266	01	0182E	073001BF		K	00,7,3,FXP8SW

6267	01	0182F	6730016A		K	6,7,3,L8C+2	
6268	01	01830	00000000 A		DATA	X'00000000'	
6269	01	01831	02DA0095 A		DATA	X'02DA0095'	
6270	01	01832	CD2A3C71 A		DATA	X'CD2A3C71'	
6271	01	01833	CD2A3C71 A		DATA	X'CD2A3C71'	
6272	01	01834	F1A3C842 A		DATA	X'F1A3C842'	
6273	01	01835	C10EDD22 A		DATA	X'C10EDD22'	
6274	01	01836	FFFFFFF6 A	MW51	DATA	-10	MW
6275	01	01837	37C00460		MW,12	MEMORY	
6276	01	01838	073001BF		K	00,7,3,FXP8SW	
6277	01	01839	5730016A		K	5,7,3,L8C+2	
6278	01	0183A	00000000 A		DATA	X'00000000'	
6279	01	0183B	FF1737FC A		DATA	X'FF1737FC'	
6280	01	0183C	FC7CF1CC A		DATA	X'FC7CF1CC'	
6281	01	0183D	FC7CF1CC A		DATA	X'FC7CF1CC'	
6282	01	0183E	42486CEA A		DATA	X'42486CEA'	
6283	01	0183F	19971478 A		DATA	X'19971478'	
6284					PAGE		
6285	01	01840	FFFFFFF6 A	MW52	DATA	-10	MW
6286	01	01841	37C00460		MW,12	MEMORY	
6287	01	01842	073001BF		K	00,7,3,FXP8SW	
6288	01	01843	6730016A		K	6,7,3,L8C+2	
6289	01	01844	00000000 A		DATA	X'00000000'	
6290	01	01845	0C654900 A		DATA	X'0C654900'	
6291	01	01846	475E3AF9 A		DATA	X'475E3AF9'	
6292	01	01847	475E3AF9 A		DATA	X'475E3AF9'	
6293	01	01848	2C76B150 A		DATA	X'2C76B150'	
6294	01	01849	6EFE96D0 A		DATA	X'6EFE96D0'	
6295	01	0184A	FFFFFFF6 A	MW53	DATA	-10	MW
6296	01	0184E	37C00460		MW,12	MEMORY	
6297	01	0184C	073001BF		K	00,7,3,FXP8SW	
6298	01	0184D	5730016A		K	5,7,3,L8C+2	
6299	01	0184E	00000000 A		DATA	X'00000000'	
6300	01	0184F	F5C7652C A		DATA	X'F5C7652C'	
6301	01	01850	38D27C16 A		DATA	X'38D27C16'	
6302	01	01851	38D27C16 A		DATA	X'38D27C16'	
6303	01	01852	D1F3759B A		DATA	X'D1F3759B'	

6304	01	01853	8DA834D2 A		DATA	X'8DA834D2'	
6305	01	01854	FFFFFFF6 A	MW54	DATA	-10	MW
6306	01	01855	37C00460		MW,12	MEMORY	
6307	01	01856	073001BF		K	00,7,3,FXP8SW	
6308	01	01857	6730016A		K	6,7,3,L8C+2	
6309	01	01858	00000000 A		DATA	X'00000000'	
6310	01	01859	36F57A5C A		DATA	X'36F57A5C'	
6311	01	0185A	8067CB91 A		DATA	X'8067CB91'	
6312	01	0185B	8067CB91 A		DATA	X'8067CB91'	
6313	01	0185C	91BBA0E5 A		DATA	X'91BBA0E5'	
6314	01	0185D	8FFE88B5 A		DATA	X'8FFE88B5'	
6315					PAGE		
6316	01	0185E	FFFFFFF6 A	MW55	DATA	-10	MW
6317	01	0185F	37C00460		MW,12	MEMORY	
6318	01	01860	073001BF		K	00,7,3,FXP8SW	
6319	01	01861	6730016A		K	6,7,3,L8C+2	
6320	01	01862	00000000 A		DATA	X'00000000'	
6321	01	01863	1F5F1EB5 A		DATA	X'1F5F1EB5'	
6322	01	01864	66E91F2E A		DATA	X'66E91F2E'	
6323	01	01865	66E91F2E A		DATA	X'66E91F2E'	
6324	01	01866	4E0A2D09 A		DATA	X'4E0A2D09'	
6325	01	01867	04792E9E A		DATA	X'04792E9E'	
6326	01	01868	FFFFFFF6 A	MW56	DATA	-10	MW
6327	01	01869	37C00460		MW,12	MEMORY	
6328	01	0186A	073001BF		K	00,7,3,FXP8SW	
6329	01	0186B	6730016A		K	6,7,3,L8C+2	
6330	01	0186C	00000000 A		DATA	X'00000000'	
6331	01	0186D	2C6421FF A		DATA	X'2C6421FF'	
6332	01	0186E	9D289043 A		DATA	X'9D289043'	
6333	01	0186F	9D289043 A		DATA	X'9D289043'	
6334	01	01870	8D06D9F2 A		DATA	X'8D06D9F2'	
6335	01	01871	38332A56 A		DATA	X'38332A56'	
6336	01	01872	FFFFFFF6 A	MW57	DATA	-10	MW
6337	01	01873	37C00460		MW,12	MEMORY	
6338	01	01874	073001BF		K	00,7,3,FXP8SW	
6339	01	01875	6730016A		K	6,7,3,L8C+2	
6340	01	01876	00000000 A		DATA	X'00000000'	

6341	01 01877	1176E78B A		DATA	X'1176E78B'	
6342	01 01878	266C684E A		DATA	X'266C684E'	
6343	01 01879	266C684E A		DATA	X'266C684E'	
6344	01 0187A	745BD382 A		DATA	X'745BD382'	
6345	01 0187B	488F419C A		DATA	X'488F419C'	
6346				PAGE		
6347	01 0187C	FFFFFFF6 A	MW58	DATA	-10	MW
6348	01 0187D	37C00460		MW,12	MEMBRY	
6349	01 0187E	073001BF		K	00,7,3,FXP8SW	
6350	01 0187F	6730016A		K	6,7,3,L8C+2	
6351	01 01880	00000000 A		DATA	X'00000000'	
6352	01 01881	0F673E9E A		DATA	X'0F673E9E'	
6353	01 01882	CC1FC7CF A		DATA	X'CC1FC7CF'	
6354	01 01883	CC1FC7CF A		DATA	X'CC1FC7CF'	
6355	01 01884	B3FCA5A5 A		DATA	X'B3FCA5A5'	
6356	01 01885	7908336B A		DATA	X'7908336B'	
6357	01 01886	FFFFFFF6 A	MW59	DATA	-10	MW
6358	01 01887	37C00460		MW,12	MEMBRY	
6359	01 01888	073001BF		K	00,7,3,FXP8SW	
6360	01 01889	2730016A		K	2,7,3,L8C+2	
6361	01 0188A	00000000 A		DATA	X'00000000'	
6362	01 0188B	00000000 A		DATA	X'00000000'	
6363	01 0188C	00000001 A		DATA	X'00000001'	
6364	01 0188D	00000001 A		DATA	X'00000001'	
6365	01 0188E	7FFFFFFF A		DATA	X'7FFFFFFF'	
6366	01 0188F	7FFFFFFF A		DATA	X'7FFFFFFF'	
6367	01 01890	FFFFFFF6 A	MW60	DATA	-10	MW
6368	01 01891	37C00460		MW,12	MEMBRY	
6369	01 01892	073001BF		K	00,7,3,FXP8SW	
6370	01 01893	2730016A		K	2,7,3,L8C+2	
6371	01 01894	00000000 A		DATA	X'00000000'	
6372	01 01895	00000000 A		DATA	X'00000000'	
6373	01 01896	7FFFFFFF A		DATA	X'7FFFFFFF'	
6374	01 01897	7FFFFFFF A		DATA	X'7FFFFFFF'	
6375	01 01898	00000001 A		DATA	X'00000001'	
6376	01 01899	7FFFFFFF A		DATA	X'7FFFFFFF'	
6377				PAGE		

6378	01 0189A	FFFFFFF6 A	MW61	DATA	-10	MW
6379	01 0189B	37C00460		MW,12	MEMBRY	
6380	01 0189C	073001BF		K	00,7,3,FXP8SW	
6381	01 0189D	6730016A		K	6,7,3,L8C+2	
6382	01 0189E	00000000 A		DATA	X'00000000'	
6383	01 0189F	0ADA0050 A		DATA	X'0ADA0050'	
6384	01 018A0	B5631AF2 A		DATA	X'B5631AF2'	
6385	01 018A1	B5631AF2 A		DATA	X'B5631AF2'	
6386	01 018A2	DAC269A5 A		DATA	X'DAC269A5'	
6387	01 018A3	0E519FFA A		DATA	X'0E519FFA'	
6388	01 018A4	FFFFFFF6 A	MW62	DATA	-10	MW
6389	01 018A5	37C00460		MW,12	MEMBRY	
6390	01 018A6	073001BF		K	00,7,3,FXP8SW	
6391	01 018A7	5730016A		K	5,7,3,L8C+2	
6392	01 018A8	00000000 A		DATA	X'00000000'	
6393	01 018A9	E8549FA9 A		DATA	X'E8549FA9'	
6394	01 018AA	C7B51894 A		DATA	X'C7B51894'	
6395	01 018AB	C7B51894 A		DATA	X'C7B51894'	
6396	01 018AC	6BA40763 A		DATA	X'6BA40763'	
6397	01 018AD	C9848D3C A		DATA	X'C9848D3C'	
6398	01 018AE	FFFFFFF6 A	MW63	DATA	-10	MW
6399	01 018AF	37C00460		MW,12	MEMBRY	
6400	01 018B0	073001BF		K	00,7,3,FXP8SW	
6401	01 018B1	5730016A		K	5,7,3,L8C+2	
6402	01 018B2	00000000 A		DATA	0	
6403	01 018B3	FE179952 A		DATA	X'FE179952'	
6404	01 018B4	E9D73A96 A		DATA	X'E9D73A96'	
6405	01 018B5	E9D73A96 A		DATA	X'E9D73A96'	
6406	01 018B6	160A5DC9 A		DATA	X'160A5DC9'	
6407	01 018B7	F8217DC6 A		DATA	X'F8217DC6'	
6408				PAGE		
6409	01 018B8	FFFFFFF6 A	MW64	DATA	-10	MW
6410	01 018B9	37C00460		MW,12	MEMBRY	
6411	01 018BA	073001BF		K	00,7,3,FXP8SW	
6412	01 018BB	6730016A		K	6,7,3,L8C+2	
6413	01 018BC	00000000 A		DATA	X'00000000'	
6414	01 018BD	275BDC20 A		DATA	X'275BDC20'	

SIGMA 7 CPU DIAGNOSTIC-AUTB 704044-51B00 MARCH 10, 1969 189

6415	01	0188E	84F82DDE A	DATA	X'84F82DDE'
6416	01	0188F	84F82DDE A	DATA	X'84F82DDE'
6417	01	018C0	AE1A4FE0 A	DATA	X'AE1A4FE0'
6418	01	018C1	7BDBA440 A	DATA	X'7BDBA440'
6419	01	018C2	FFFFFFFF6 A	MW65	DATA -10 MW
6420	01	018C3	37C00460	MW,12	MEMBRY
6421	01	018C4	073001BF	K	00,7,3,FXP8SW
6422	01	018C5	6730016A	K	6,7,3,L8C+2
6423	01	018C6	00000000 A	DATA	X'00000000'
6424	01	018C7	02F12C68 A	DATA	X'02F12C68'
6425	01	018C8	136AF5B2 A	DATA	X'136AF5B2'
6426	01	018C9	136AF5B2 A	DATA	X'136AF5B2'
6427	01	018CA	26C9AAD5 A	DATA	X'26C9AAD5'
6428	01	018CB	83E8A11A A	DATA	X'83E8A11A'
6429	01	018CC	FFFFFFFF6 A	MW66	DATA -10 MW
6430	01	018CD	37C00460	MW,12	MEMBRY
6431	01	018CE	073001BF	K	00,7,3,FXP8SW
6432	01	018CF	6730016A	K	6,7,3,L8C+2
6433	01	018D0	00000000 A	DATA	X'00000000'
6434	01	018D1	00651680 A	DATA	X'00651680'
6435	01	018D2	15B897C4 A	DATA	X'15B897C4'
6436	01	018D3	15B897C4 A	DATA	X'15B897C4'
6437	01	018D4	04A766B3 A	DATA	X'04A766B3'
6438	01	018D5	CD66360C A	DATA	X'CD66360C'
6439				PAGE	
6440	01	018D6	FFFFFFFF6 A	MW67	DATA -10 MW
6441	01	018D7	37C00460	MW,12	MEMBRY
6442	01	018D8	073001BF	K	00,7,3,FXP8SW
6443	01	018D9	6730016A	K	6,7,3,L8C+2
6444	01	018DA	J0000000 A	DATA	X'00000000'
6445	01	018DB	13A5DB8D A	DATA	X'13A5DB8D'
6446	01	018DC	37DA99E6 A	DATA	X'37DA99E6'
6447	01	018DD	37DA99E6 A	DATA	X'37DA99E6'
6448	01	018DE	5A0DC619 A	DATA	X'5A0DC619'
6449	01	018DF	340EEB76 A	DATA	X'340EEB76'
6450	01	018E0	FFFFFFFF6 A	MW68	DATA -10 MW
6451	01	018E1	37C00460	MW,12	MEMBRY

SIGMA 7 CPU DIAGNOSTIC-AUTB 704044-51B00 MARCH 10, 1969 190

6452	01	018E2	073001BF	K	00,7,3,FXP8SW
6453	01	018E3	6730016A	K	6,7,3,L8C+2
6454	01	018E4	00000000 A	DATA	X'00000000'
6455	01	018E5	0BDE7CCB A	DATA	X'0BDE7CCB'
6456	01	018E6	28FDD84E A	DATA	X'28FDD84E'
6457	01	018E7	28FDD84E A	DATA	X'28FDD84E'
6458	01	018E8	4A1FEA60 A	DATA	X'4A1FEA60'
6459	01	018E9	245A6940 A	DATA	X'245A6940'
6460	01	018EA	FFFFFFFF6 A	MW69	DATA -10 MW
6461	01	018EB	37C00460	MW,12	MEMBRY
6462	01	018EC	073001BF	K	00,7,3,FXP8SW
6463	01	018ED	5730016A	K	5,7,3,L8C+2
6464	01	018EE	00000000 A	DATA	X'00000000'
6465	01	018EF	DFCF32C1 A	DATA	X'DFCF32C1'
6466	01	018F0	8508753F A	DATA	X'8508753F'
6467	01	018F1	8508753F A	DATA	X'8508753F'
6468	01	018F2	43043218 A	DATA	X'43043218'
6469	01	018F3	71AD4BE8 A	DATA	X'71AD4BE8'
6470				PAGE	
6471	01	018F4	FFFFFFFF6 A	MW70	DATA -10 MW
6472	01	018F5	37C00460	MW,12	MEMBRY
6473	01	018F6	073001BF	K	00,7,3,FXP8SW
6474	01	018F7	6730016A	K	6,7,3,L8C+2
6475	01	018F8	00000000 A	DATA	X'00000000'
6476	01	018F9	0FDED2C2 A	DATA	X'0FDED2C2'
6477	01	018FA	2B5FA631 A	DATA	X'2B5FA631'
6478	01	018FB	2B5FA631 A	DATA	X'2B5FA631'
6479	01	018FC	5DAB9C62 A	DATA	X'5DAB9C62'
6480	01	018FD	B39F7AC2 A	DATA	X'B39F7AC2'
6481	01	018FE	FFFFFFFF6 A	MW71	DATA -10 MW
6482	01	018FF	37C00460	MW,12	MEMBRY
6483	01	01900	073001BF	K	00,7,3,FXP8SW
6484	01	01901	6730016A	K	6,7,3,L8C+2
6485	01	01902	00000000 A	DATA	X'00000000'
6486	01	01903	11BEA00E A	DATA	X'11BEA00E'
6487	01	01904	4C798B51 A	DATA	X'4C798B51'
6488	01	01905	4C798B51 A	DATA	X'4C798B51'

SIGMA 7 CPU DIAGNOSTIC-AUTB 704044-51800				MARCH 10, 1969		191
6489	01	01906	3B667A40 A	DATA	X'3B667A40'	
6490	01	01907	380D6E40 A	DATA	X'380D6E40'	
6491	01	01908	FFFFFFF6 A	MW72	DATA	-10
6492	01	01909	37C00460	MW,12	MEMBRY	
6493	01	0190A	073001BF	K	00,7,3,FXP8SW	
6494	01	01908	5730016A	K	5,7,3,L8C+2	
6495	01	0190C	00000000 A	DATA	X'00000000'	
6496	01	0190D	D03A60C4 A	DATA	X'D03A60C4'	
6497	01	0190E	6E99AD73 A	DATA	X'6E99AD73'	
6498	01	0190F	6E99AD73 A	DATA	X'6E99AD73'	
6499	01	01910	916C00A5 A	DATA	X'916C00A5'	
6500	01	01911	757E3B1F A	DATA	X'757E3B1F'	
6501				PAGE		
6502	01	01912	FFFFFFF6 A	MW73	DATA	-10
6503	01	01913	37C00460	MW,12	MEMBRY	
6504	01	01914	073001BF	K	00,7,3,FXP8SW	
6505	01	01915	5730016A	K	5,7,3,L8C+2	
6506	01	01916	00000000 A	DATA	X'00000000'	
6507	01	01917	FF4891C2 A	DATA	X'FF4891C2'	
6508	01	01918	E48DDF82 A	DATA	X'E48DDF82'	
6509	01	01919	E48DDF82 A	DATA	X'E48DDF82'	
6510	01	0191A	06AEF1A4 A	DATA	X'06AEF1A4'	
6511	01	0191B	F0A89148 A	DATA	X'F0A89148'	
6512	01	0191C	FFFFFFF6 A	MW74	DATA	-10
6513	01	0191D	37C00460	MW,12	MEMBRY	
6514	01	0191E	073001BF	K	00,7,3,FXP8SW	
6515	01	0191F	6730016A	K	6,7,3,L8C+2	
6516	01	01920	00000000 A	DATA	X'00000000'	
6517	01	01921	0645D91E A	DATA	X'0645D91E'	
6518	01	01922	F3578058 A	DATA	X'F3578058'	
6519	01	01923	F3578058 A	DATA	X'F3578058'	
6520	01	01924	81234034 A	DATA	X'81234034'	
6521	01	01925	31E411E0 A	DATA	X'31E411E0'	
6522	01	01926	FFFFFFF6 A	MW75	DATA	-10
6523	01	01927	37C00460	MW,12	MEMBRY	
6524	01	01928	073001BF	K	00,7,3,FXP8SW	
6525	01	01929	6730016A	K	6,7,3,L8C+2	

SIGMA 7 CPU DIAGNOSTIC-AUTB 704044-51800				MARCH 10, 1969		192
6526	01	0192A	00000000 A	DATA	X'00000000'	
6527	01	0192B	0925E650 A	DATA	X'0925E650'	
6528	01	0192C	BF6125A3 A	DATA	X'BF6125A3'	
6529	01	0192D	BF6125A3 A	DATA	X'BF6125A3'	
6530	01	0192E	DBC25A96 A	DATA	X'DBC25A96'	
6531	01	0192F	40AD5B82 A	DATA	X'40AD5B82'	
6532				PAGE		
6533	01	01930	FFFFFFF6 A	MW76	DATA	-10
6534	01	01931	37C00460	MW,12	MEMBRY	
6535	01	01932	073001BF	K	00,7,3,FXP8SW	
6536	01	01933	6730016A	K	6,7,3,L8C+2	
6537	01	01934	00000000 A	DATA	X'00000000'	
6538	01	01935	0F90C493 A	DATA	X'0F90C493'	
6539	01	01936	C9B14785 A	DATA	X'C9B14785'	
6540	01	01937	C9B14785 A	DATA	X'C9B14785'	
6541	01	01938	B6A03674 A	DATA	X'B6A03674'	
6542	01	01939	0A8A7644 A	DATA	X'0A8A7644'	
6543	01	0193A	FFFFFFF6 A	MW77	DATA	-10
6544	01	0193B	37C00460	MW,12	MEMBRY	
6545	01	0193C	073001BF	K	00,7,3,FXP8SW	
6546	01	0193D	5730016A	K	5,7,3,L8C+2	
6547	01	0193E	00000000 A	DATA	X'00000000'	
6548	01	0193F	FD92A39E A	DATA	X'FD92A39E'	
6549	01	01940	E9D369A7 A	DATA	X'E9D369A7'	
6550	01	01941	E9D369A7 A	DATA	X'E9D369A7'	
6551	01	01942	1C0596DA A	DATA	X'1C0596DA'	
6552	01	01943	5232D236 A	DATA	X'5232D236'	
6553	01	01944	FFFFFFF6 A	MW78	DATA	-10
6554	01	01945	37C00460	MW,12	MEMBRY	
6555	01	01946	073001BF	K	00,7,3,FXP8SW	
6556	01	01947	6730016A	K	6,7,3,L8C+2	
6557	01	01948	00000000 A	DATA	X'00000000'	
6558	01	01949	21847A5E A	DATA	X'21847A5E'	
6559	01	0194A	4DF2E8D8 A	DATA	X'4DF2E8D8'	
6560	01	0194B	4DF2E8D8 A	DATA	X'4DF2E8D8'	
6561	01	0194C	6E140AFA A	DATA	X'6E140AFA'	
6562	01	0194D	9D2FD2F0 A	DATA	X'9D2FD2F0'	

6563					PAGE		
6564	01	0194E	FFFFFFFF6 A	MW79	DATA	-10	MW *
6565	01	0194F	B7C0045A		MW,12	*1A	
6566	01	01950	073001BF		K	00,7,3,FXP8SW	
6567	01	01951	6730016A		K	6,7,3,L8C+2	
6568	01	01952	00000000 A		DATA	X'00000000'	
6569	01	01953	0416A25D A		DATA	X'0416A25D'	
6570	01	01954	3708F585 A		DATA	X'3708F585'	
6571	01	01955	3708F585 A		DATA	X'3708F585'	
6572	01	01956	13048243 A		DATA	X'13048243'	
6573	01	01957	A919C8CF A		DATA	X'A919C8CF'	
6574	01	01958	FFFFFFFF6 A	MW80	DATA	-10	MW X
6575	01	01959	37C3E067		MW,12	MEMORY-X'23F9',1	
6576	01	0195A	073001BF		K	00,7,3,FXP8SW	
6577	01	0195B	6730016A		K	6,7,3,L8C+2	
6578	01	0195C	000023F9 A		DATA	X'23F9'	
6579	01	0195D	23C0B06A A		DATA	X'23C0B06A'	
6580	01	0195E	A56F321B A		DATA	X'A56F321B'	
6581	01	0195F	A56F321B A		DATA	X'A56F321B'	
6582	01	01960	9ACB652D A		DATA	X'9ACB652D'	
6583	01	01961	ECB975BF A		DATA	X'ECB975BF'	
6584	01	01962	FFFFFFFF6 A	MW81	DATA	-10	MW0
6585	01	01963	37D00460		MW,13	MEMORY	
6586	01	01964	073001BF		K	00,7,3,FXP8SW	
6587	01	01965	6730016A		K	6,7,3,L8C+2	
6588	01	01966	00000000 A		DATA	X'00000000'	
6589	01	01967	00000000 A		DATA	0	
6590	01	01968	DFA08A94 A		DATA	X'DFA08A94'	
6591	01	01969	DFA08A94 A		DATA	X'DFA08A94'	
6592	01	0196A	C1C7FCFC A		DATA	X'C1C7FCFC'	
6593	01	0196B	777E19B0 A		DATA	X'777E19B0'	
6594					PAGE		
6595	01	0196C	FFFFFFFF6 A	MW82	DATA	-10	MW
6596	01	0196D	37D00460		MW,13	MEMORY	
6597	01	0196E	073001BF		K	00,7,3,FXP8SW	
6598	01	0196F	5730016A		K	5,7,3,L8C+2	
6599	01	01970	00000000 A		DATA	X'00000000'	

6600	01	01971	00000000 A		DATA	X'00000000'	
6601	01	01972	8A5F7680 A		DATA	X'8A5F7680'	
6602	01	01973	8A5F7680 A		DATA	X'8A5F7680'	
6603	01	01974	1CC95618 A		DATA	X'1CC95618'	
6604	01	01975	7B024080 A		DATA	X'7B024080'	
6605	01	01976	FFFFFFFF6 A	MW83	DATA	-10	MW
6606	01	01977	37D00460		MW,13	MEMORY	
6607	01	01978	073001BF		K	00,7,3,FXP8SW	
6608	01	01979	5730016A		K	5,7,3,L8C+2	
6609	01	0197A	00000000 A		DATA	X'00000000'	
6610	01	0197B	00000000 A		DATA	X'00000000'	
6611	01	0197C	FCFD3918 A		DATA	X'FCFD3918'	
6612	01	0197D	FCFD3918 A		DATA	X'FCFD3918'	
6613	01	0197E	37C1F3C1 A		DATA	X'37C1F3C1'	
6614	01	0197F	4B31D318 A		DATA	X'4B31D318'	
6615	01	01980	FFFFFFFF6 A	MW84	DATA	-10	MW
6616	01	01981	37D00460		MW,13	MEMORY	
6617	01	01982	073001BF		K	00,7,3,FXP8SW	
6618	01	01983	6730016A		K	6,7,3,L8C+2	
6619	01	01984	00000000 A		DATA	X'00000000'	
6620	01	01985	00000000 A		DATA	X'00000000'	
6621	01	01986	1EDB580D A		DATA	X'1EDB580D'	
6622	01	01987	1EDB580D A		DATA	X'1EDB580D'	
6623	01	01988	0C1031F3 A		DATA	X'0C1031F3'	
6624	01	01989	62DF1157 A		DATA	X'62DF1157'	
6625					PAGE		
6626	01	0198A	FFFFFFFF6 A	MW85	DATA	-10	MW
6627	01	0198B	37D00460		MW,13	MEMORY	
6628	01	0198C	073001BF		K	00,7,3,FXP8SW	
6629	01	0198D	5730016A		K	5,7,3,L8C+2	
6630	01	0198E	00000000 A		DATA	X'00000000'	
6631	01	0198F	00000000 A		DATA	X'00000000'	
6632	01	01990	E8FC75C1 A		DATA	X'E8FC75C1'	
6633	01	01991	E8FC75C1 A		DATA	X'E8FC75C1'	
6634	01	01992	3F1C8782 A		DATA	X'3F1C8782'	
6635	01	01993	D2689302 A		DATA	X'D2689302'	
6636	01	01994	FFFFFFFF6 A	MW86	DATA	-10	MW

6637	01	01995	37D00460		MW,13	MEMBRY	
6638	01	01996	073001BF		K	00,7,3,FXP8SW	
6639	01	01997	6730016A		K	6,7,3,L8C+2	
6640	01	01998	00000000 A		DATA	X'00000000'	
6641	01	01999	00000000 A		DATA	X'00000000'	
6642	01	0199A	7CBDC530 A		DATA	X'7CBDC530'	
6643	01	0199B	7CBDC530 A		DATA	X'7CBDC530'	
6644	01	0199C	72436AC1 A		DATA	X'72436AC1'	
6645	01	0199D	9A478930 A		DATA	X'9A478930'	
6646	01	0199E	FFFFFFF6 A	MW87	DATA	-10	MW
6647	01	0199F	37D00460		MW,13	MEMBRY	
6648	01	019A0	073001BF		K	00,7,3,FXP8SW	
6649	01	019A1	5730016A		K	5,7,3,L8C+2	
6650	01	019A2	00000000 A		DATA	X'00000000'	
6651	01	019A3	00000000 A		DATA	X'00000000'	
6652	01	019A4	F1C133C0 A		DATA	X'F1C133C0'	
6653	01	019A5	F1C133C0 A		DATA	X'F1C133C0'	
6654	01	019A6	6684E6C2 A		DATA	X'6684E6C2'	
6655	01	019A7	F7E7B780 A		DATA	X'F7E7B780'	
6656					PAGE		
6657	01	019A8	FFFFFFF6 A	MW88	DATA	-10	MW
6658	01	019A9	37D00460		MW,13	MEMBRY	
6659	01	019AA	073001BF		K	00,7,3,FXP8SW	
6660	01	019AB	6730016A		K	6,7,3,L8C+2	
6661	01	019AC	00000000 A		DATA	X'00000000'	
6662	01	019AD	00000000 A		DATA	X'00000000'	
6663	01	019AE	7CF4DF30 A		DATA	X'7CF4DF30'	
6664	01	019AF	7CF4DF30 A		DATA	X'7CF4DF30'	
6665	01	019B0	3F5A5ACB A		DATA	X'3F5A5ACB'	
6666	01	019B1	7383DB10 A		DATA	X'7383DB10'	
6667	01	019B2	FFFFFFF6 A	MW89	DATA	-10	MW
6668	01	019B3	37D00460		MW,13	MEMBRY	
6669	01	019B4	073001BF		K	00,7,3,FXP8SW	
6670	01	019B5	6730016A		K	6,7,3,L8C+2	
6671	01	019B6	00000000 A		DATA	X'00000000'	
6672	01	019B7	00000000 A		DATA	X'00000000'	
6673	01	019B8	366B6D39 A		DATA	X'366B6D39'	

6674	01	019B9	366B6D39 A		DATA	X'366B6D39'	
6675	01	019BA	493A426C A		DATA	X'493A426C'	
6676	01	019BB	A764C60C A		DATA	X'A764C60C'	
6677	01	019BC	FFFFFFF6 A	MW90	DATA	-10	MW
6678	01	019BD	37D00460		MW,13	MEMBRY	
6679	01	019BE	073001BF		K	00,7,3,FXP8SW	
6680	01	019BF	5730016A		K	5,7,3,L8C+2	
6681	01	019C0	00000000 A		DATA	X'00000000'	
6682	01	019C1	00000000 A		DATA	0	
6683	01	019C2	F1C133C0 A		DATA	X'F1C133C0'	
6684	01	019C3	F1C133C0 A		DATA	X'F1C133C0'	
6685	01	019C4	1CC95618 A		DATA	X'1CC95618'	
6686	01	019C5	333F5A00 A		DATA	X'333F5A00'	
6687					PAGE		
6688	01	019C6	FFFFFFF6 A	MH01	DATA	-10	MH
6689	01	019C7	57C00460		MH,12	MEMBRY	
6690	01	019C8	073001BF		K	00,7,3,FXP8SW	
6691	01	019C9	1730016A		K	1,7,3,L8C+2	
6692	01	019CA	0000FC7C A		DATA	X'0000FC7C'	
6693	01	019CB	0000FC7C A		DATA	X'0000FC7C'	
6694	01	019CC	37BF0000 A		DATA	X'37BF0000'	
6695	01	019CD	37BF0000 A		DATA	X'37BF0000'	
6696	01	019CE	00000000 A		DATA	X'00000000'	
6697	01	019CF	FF3C0484 A		DATA	X'FF3C0484'	
6698	01	019D0	FFFFFFF6 A	MH02	DATA	-10	MH
6699	01	019D1	57C00460		MH,12	MEMBRY	
6700	01	019D2	073001BF		K	00,7,3,FXP8SW	
6701	01	019D3	1730016A		K	1,7,3,L8C+2	
6702	01	019D4	00000383 A		DATA	X'00000383'	
6703	01	019D5	00000383 A		DATA	X'00000383'	
6704	01	019D6	C8400000 A		DATA	X'C8400000'	
6705	01	019D7	C8400000 A		DATA	X'C8400000'	
6706	01	019D8	00000000 A		DATA	X'00000000'	
6707	01	019D9	FF3C38C0 A		DATA	X'FF3C38C0'	
6708	01	019DA	FFFFFFF6 A	MH03	DATA	-10	MH X
6709	01	019DB	57C00460		MH,12	MEMBRY,7	
6710	01	019DC	073001BF		K	00,7,3,FXP8SW	

6711	01	019DD	1730016A		K	1,7,3,L8C+2	
6712	01	019DE	0000E159	<i>Raw</i>	DATA	X'0000E159'	
6713	01	019DF	0000E159	<i>Rap</i>	DATA	X'0000E159'	
6714	01	019E0	000027C1	<i>Mem aw</i>	DATA	X'000027C1'	
6715	01	019E1	000027C1	<i>Mem</i>	DATA	X'000027C1'	
6716	01	019E2	00000000		DATA	X'00000000'	
6717	01	019E3	FB3D73A9	<i>R+L ap.</i>	DATA	X'FB3D73A9'	
6718					PAGE		
6719	01	019E4	FFFFFFF6	MH04	DATA	-10	MH X
6720	01	019E5	57CE046C		MH,12	MEMBRY,7	
6721	01	019E6	073001BF		K	00,7,3,FXP8SW	
6722	01	019E7	1730016A		K	1,7,3,L8C+2	
6723	01	019E8	00001EA6		DATA	X'00001EA6'	
6724	01	019E9	00001EA6		DATA	X'00001EA6'	
6725	01	019EA	0000D83E		DATA	X'0000D83E'	
6726	01	019EB	0000D83E		DATA	X'0000D83E'	
6727	01	019EC	00000000		DATA	X'00000000'	
6728	01	019ED	FB3D7C34		DATA	X'FB3D7C34'	
6729	01	019EE	FFFFFFF6	MH05	DATA	-10	MH0
6730	01	019EF	57D0046C		MH,13	MEMBRY	
6731	01	019F0	073001BF		K	00,7,3,FXP8SW	
6732	01	019F1	2730016A		K	2,7,3,L8C+2	
6733	01	019F2	00000000		DATA	X'00000000'	
6734	01	019F3	00000000		DATA	X'00000000'	
6735	01	019F4	30C90000		DATA	X'30C90000'	
6736	01	019F5	30C90000		DATA	X'30C90000'	
6737	01	019F6	000048C1		DATA	X'000048C1'	
6738	01	019F7	0DD04F89		DATA	X'0DD04F89'	
6739	01	019F8	FFFFFFF6	MH06	DATA	-10	MH
6740	01	019F9	57D0046C		MH,13	MEMBRY	
6741	01	019FA	073001BF		K	00,7,3,FXP8SW	
6742	01	019FB	2730016A		K	2,7,3,L8C+2	
6743	01	019FC	00000000		DATA	X'00000000'	
6744	01	019FD	00000000		DATA	X'00000000'	
6745	01	019FE	C7360000		DATA	X'C7360000'	
6746	01	019FF	C7360000		DATA	X'C7360000'	
6747	01	01A00	0000B73E		DATA	X'0000B73E'	

B.4 23.

6748	01	01A01	1023D914		DATA	X'1023D914'	
6749					PAGE		
6750	01	01A02	FFFFFFF6	MH07	DATA	-10	MH X
6751	01	01A03	57DE046C		MH,13	MEMBRY,7	
6752	01	01A04	073001BF		K	00,7,3,FXP8SW	
6753	01	01A05	2730016A		K	2,7,3,L8C+2	
6754	01	01A06	00000000		DATA	X'00000000'	
6755	01	01A07	00000000		DATA	X'00000000'	
6756	01	01A08	00005AF4		DATA	X'00005AF4'	
6757	01	01A09	00005AF4		DATA	X'00005AF4'	
6758	01	01A0A	FFFF62EA		DATA	X'FFFF62EA'	
6759	01	01A0B	23248B08		DATA	X'23248B08'	
6760	01	01A0C	FFFFFFF6	MH08	DATA	-10	MH *X
6761	01	01A0D	D7D2045A		MH,13	*1A,1	
6762	01	01A0E	073001BF		K	00,7,3,FXP8SW	
6763	01	01A0F	2730016A		K	2,7,3,L8C+2	
6764	01	01A10	00000001		DATA	1	
6765	01	01A11	00000001		DATA	1	
6766	01	01A12	0000A50B		DATA	X'0000A50B'	
6767	01	01A13	0000A50B		DATA	X'0000A50B'	
6768	01	01A14	00009D15		DATA	X'00009D15'	
6769	01	01A15	232548E7		DATA	X'232548E7'	
6770					PAGE		
6771	01	01A16	FFFFFFF6	MI01	DATA	-10	MI
6772	01	01A17	23C42EFD		MI,12	X'42EFD'	
6773	01	01A18	073001BF		K	00,7,3,FXP8SW	
6774	01	01A19	5730016A		K	5,7,3,L8C+2	
6775	01	01A1A	00000000		DATA	X'00000000'	
6776	01	01A1B	FFFFFFE994		DATA	X'FFFFFFE994'	
6777	01	01A1C	00000000		DATA	X'00000000'	
6778	01	01A1D	00000000		DATA	X'00000000'	
6779	01	01A1E	FAA401EB		DATA	X'FAA401EB'	
6780	01	01A1F	341A1F3F		DATA	X'341A1F3F'	
6781	01	01A20	FFFFFFF6	MI02	DATA	-10	MI
6782	01	01A21	23C6590D		MI,12	X'6590D'	
6783	01	01A22	073001BF		K	00,7,3,FXP8SW	
6784	01	01A23	6730016A		K	6,7,3,L8C+2	

6785	01	01A24	00000000	A	DATA	X'00000000'	
6786	01	01A25	00015C36	A	DATA	X'00015C36'	
6787	01	01A26	00000000	A	DATA	X'00000000'	
6788	01	01A27	00000000	A	DATA	X'00000000'	
6789	01	01A28	36DAE799	A	DATA	X'36DAE799'	
6790	01	01A29	5137F3C5	A	DATA	X'5137F3C5'	
6791	01	01A2A	FFFFFFFF	A	DATA	-10	MI
6792	01	01A2B	23DA7646	A	MI,13	X'1A7646'	
6793	01	01A2C	F73001BF	A	K	15,7,3,FXP8SW	
6794	01	01A2D	E730016A	A	K	14,7,3,L8C+2	
6795	01	01A2E	00000000	A	DATA	X'00000000'	
6796	01	01A2F	00000000	A	DATA	0	
6797	01	01A30	00000000	A	DATA	X'00000000'	
6798	01	01A31	00000000	A	DATA	X'00000000'	
6799	01	01A32	C5971488	A	DATA	X'C5971488'	
6800	01	01A33	2E8C7A50	A	DATA	X'2E8C7A50'	
6801					PAGE		
6802	01	01A34	FFFFFFFF	A	DATA	-10	MI
6803	01	01A35	23D5C9D2	A	MI,13	X'15C9D2'	
6804	01	01A36	F73001BF	A	K	15,7,3,FXP8SW	
6805	01	01A37	E730016A	A	K	14,7,3,L8C+2	
6806	01	01A38	00000000	A	DATA	X'00000000'	
6807	01	01A39	00000000	A	DATA	0	
6808	01	01A3A	00000000	A	DATA	X'00000000'	
6809	01	01A3B	00000000	A	DATA	X'00000000'	
6810	01	01A3C	26AB3F51	A	DATA	X'26AB3F51'	
6811	01	01A3D	69C58972	A	DATA	X'69C58972'	
6812	01	01A3E	FFFFFFFF	A	DATA	-10	MI6
6813	01	01A3F	23C44133	A	MI,12	X'144133'	
6814	01	01A40	F73001BF	A	K	15,7,3,FXP8SW	
6815	01	01A41	D730016A	A	K	13,7,3,L8C+2	
6816	01	01A42	00000000	A	DATA	X'00000000'	
6817	01	01A43	FFFE0253	A	DATA	X'FFFE0253'	
6818	01	01A44	00000000	A	DATA	X'00000000'	
6819	01	01A45	00000000	A	DATA	X'00000000'	
6820	01	01A46	88357F05	A	DATA	X'88357F05'	
6821	01	01A47	B3FC92FF	A	DATA	X'B3FC92FF'	

6822	01	01A48	FFFFFFFF	A	DATA	-10	MI
6823	01	01A49	23CAE01A	A	MI,12	X'1AE01A'	
6824	01	01A4A	F73001BF	A	K	15,7,3,FXP8SW	
6825	01	01A4B	E730016A	A	K	14,7,3,L8C+2	
6826	01	01A4C	00000000	A	DATA	X'00000000'	
6827	01	01A4D	00024888	A	DATA	X'00024888'	
6828	01	01A4E	00000000	A	DATA	X'00000000'	
6829	01	01A4F	00000000	A	DATA	X'00000000'	
6830	01	01A50	8DEF82D4	A	DATA	X'8DEF82D4'	
6831	01	01A51	EBD4C988	A	DATA	X'EBD4C988'	
6832					PAGE		
6833	01	01A52	FFFFFFFF	A	DATA	-10	MI
6834	01	01A53	23D065D1	A	MI,13	X'1065D1'	
6835	01	01A54	F73001BF	A	K	15,7,3,FXP8SW	
6836	01	01A55	D730016A	A	K	13,7,3,L8C+2	
6837	01	01A56	00000000	A	DATA	X'00000000'	
6838	01	01A57	00000000	A	DATA	0	
6839	01	01A58	00000000	A	DATA	X'00000000'	
6840	01	01A59	00000000	A	DATA	X'00000000'	
6841	01	01A5A	D93AE796	A	DATA	X'D93AE796'	
6842	01	01A5B	96753F76	A	DATA	X'96753F76'	
6843	01	01A5C	FFFFFFFF	A	DATA	-10	MI
6844	01	01A5D	23D7B463	A	MI,13	X'17B463'	
6845	01	01A5E	F73001BF	A	K	15,7,3,FXP8SW	
6846	01	01A5F	D730016A	A	K	13,7,3,L8C+2	
6847	01	01A60	00000000	A	DATA	X'00000000'	
6848	01	01A61	00000000	A	DATA	0	
6849	01	01A62	00000000	A	DATA	X'00000000'	
6850	01	01A63	00000000	A	DATA	X'00000000'	
6851	01	01A64	8C594871	A	DATA	X'8C594871'	
6852	01	01A65	1FAAA0B3	A	DATA	X'1FAAA0B3'	
6853	01	01A66	FFFFFFFF	A	DATA	-6	MI
6854	01	01A67	A3C0045A	A	MI,12	*IA	
6855	01	01A68	173001B3	A	K	1,7,3,S19NA8	
6856	01	01A69	9730008B	A	K	9,7,3,NEIRET+1	
6857	01	01A6A	12345678	A	DATA	X'12345678'	
6858	01	01A6B	12345678	A	DATA	X'12345678'	

6859				PAGE		
6860	01	01A6C	FFFFFFF6 A	DW01	DATA	-10
6861	01	01A6D	36C00460		DW,12	MEMORY
6862	01	01A6E	072001BF		K	0,7,2,FXP8SW
6863	01	01A6F	4720015A		K	4,7,2,L8C+2
6864	01	01A70	CF999999 A	<i>CAU</i>	DATA	X'CF999999'
6865	01	01A71	CF999999 A		DATA	X'CF999999'
6866	01	01A72	60000000 A	<i>Memory</i>	DATA	X'60000000'
6867	01	01A73	60000000 A		DATA	X'60000000'
6868	01	01A74	00000000 A	<i>DATA</i>	DATA	X'00000000'
6869	01	01A75	00000000 A		DATA	X'00000000'
6870	01	01A76	FFFFFFF6 A	DW02	DATA	-10
6871	01	01A77	36C00460		DW,12	MEMORY
6872	01	01A78	F73001BF		K	15,7,3,FXP8SW
6873	01	01A79	F7300084		K	15,7,3,FPBRET+1
6874	01	01A7A	60000000 A		DATA	X'60000000'
6875	01	01A7B	60000000 A		DATA	X'60000000'
6876	01	01A7C	8FFFFFFE A		DATA	X'8FFFFFFE'
6877	01	01A7D	8FFFFFFE A		DATA	X'8FFFFFFE'
6878	01	01A7E	80000000 A		DATA	X'80000000'
6879	01	01A7F	80000000 A		DATA	X'80000000'
6880	01	01A80	FFFFFFF6 A	DW03	DATA	-10
6881	01	01A81	36C00460		DW,12	MEMORY
6882	01	01A82	F73001BF		K	15,7,3,FXP8SW
6883	01	01A83	F7300084		K	15,7,3,FPBRET+1
6884	01	01A84	3FFFFFFF A		DATA	X'3FFFFFFF'
6885	01	01A85	3FFFFFFF A		DATA	X'3FFFFFFF'
6886	01	01A86	7FFFFFFD A		DATA	X'7FFFFFFD'
6887	01	01A87	7FFFFFFD A		DATA	X'7FFFFFFD'
6888	01	01A88	00000001 A		DATA	X'00000001'
6889	01	01A89	00000001 A		DATA	X'00000001'
6890				PAGE		
6891	01	01A8A	FFFFFFF6 A	DW04	DATA	-10
6892	01	01A8B	36C00460		DW,12	MEMORY
6893	01	01A8C	F73001BF		K	15,7,3,FXP8SW
6894	01	01A8D	F7300084		K	15,7,3,FPBRET+1
6895	01	01A8E	C0000000 A		DATA	X'C0000000'

NDO.RN = 0VERFLBW

DO.NRN.NAZ.BWZ = 0VERFLBW

DO.NRN.NAZ.NBWZ = 0VERFLBW

DO.AZ.BWZ.MWN.RN = 0VERFLBW

6896	01	01A8F	C0000000 A		DATA	X'C0000000'
6897	01	01A90	80000000 A		DATA	X'80000000'
6898	01	01A91	80000000 A		DATA	X'80000000'
6899	01	01A92	00000000 A		DATA	X'00000000'
6900	01	01A93	00000000 A		DATA	X'00000000'
6901	01	01A94	FFFFFFF6 A	DW05	DATA	-10
6902	01	01A95	36C00460		DW,12	MEMORY
6903	01	01A96	F73001BF		K	15,7,3,FXP8SW
6904	01	01A97	F7300084		K	15,7,3,FPBRET+1
6905	01	01A98	40000000 A		DATA	X'40000000'
6906	01	01A99	40000000 A		DATA	X'40000000'
6907	01	01A9A	7FFFFFFF A		DATA	X'7FFFFFFF'
6908	01	01A9B	7FFFFFFF A		DATA	X'7FFFFFFF'
6909	01	01A9C	80000000 A		DATA	X'80000000'
6910	01	01A9D	80000000 A		DATA	X'80000000'
6911	01	01A9E	FFFFFFF6 A	DW06	DATA	-10
6912	01	01A9F	36C00460		DW,12	MEMORY
6913	01	01AA0	F73001BF		K	15,7,3,FXP8SW
6914	01	01AA1	A730015A		K	10,7,3,L8C+2
6915	01	01AA2	3FFFFFFF A		DATA	X'3FFFFFFF'
6916	01	01AA3	00000000 A		DATA	X'00000000'
6917	01	01AA4	7FFFFFFF A		DATA	X'7FFFFFFF'
6918	01	01AA5	7FFFFFFF A		DATA	X'7FFFFFFF'
6919	01	01AA6	00000001 A		DATA	X'00000001'
6920	01	01AA7	7FFFFFFF A		DATA	X'7FFFFFFF'
6921				PAGE		
6922	01	01AA8	FFFFFFF6 A	DW07	DATA	-10
6923	01	01AA9	36C00460		DW,12	MEMORY
6924	01	01AAA	F73001BF		K	15,7,3,FXP8SW
6925	01	01AAB	9730015A		K	9,7,3,L8C+2
6926	01	01AAC	3FFFFFFF A		DATA	X'3FFFFFFF'
6927	01	01AAB	00000000 A		DATA	X'00000000'
6928	01	01AAE	80000001 A		DATA	X'80000001'
6929	01	01AAF	80000001 A		DATA	X'80000001'
6930	01	01AB0	00000001 A		DATA	X'00000001'
6931	01	01AB1	80000001 A		DATA	X'80000001'
6932	01	01AB2	FFFFFFF6 A	DW08	DATA	-10

DO.AZ.BWZ.NMWN.NRN = 0VERFLBW

DW

DW

DW

6933	01	01AB3	36C00460		DW,12	MEMBRY	
6934	01	01AB4	F73001BF		K	15,7,3,FXP8SW	
6935	01	01AB5	9730016A		K	9,7,3,L8C+2	
6936	01	01AB6	E0000000 A		DATA	X'E0000000'	
6937	01	01AB7	C0000001 A		DATA	X'C0000001'	
6938	01	01AB8	7FFFFFFF A		DATA	X'7FFFFFFF'	
6939	01	01AB9	7FFFFFFF A		DATA	X'7FFFFFFF'	
6940	01	01ABA	FFFFFFFF A		DATA	X'FFFFFFFF'	
6941	01	01AB8	C0000002 A		DATA	X'C0000002'	
6942	01	01ABC	FFFFFFFF A	DW09	DATA	-10	DW
6943	01	01ABD	36C00460		DW,12	MEMBRY	
6944	01	01ABE	F73001BF		K	15,7,3,FXP8SW	
6945	01	01ABF	A730016A		K	10,7,3,L8C+2	
6946	01	01AC0	C0000000 A		DATA	X'C0000000'	
6947	01	01AC1	00000000 A		DATA	X'00000000'	
6948	01	01AC2	80000001 A		DATA	X'80000001'	
6949	01	01AC3	80000001 A		DATA	X'80000001'	
6950	01	01AC4	FFFFFFFF A		DATA	X'FFFFFFFF'	
6951	01	01AC5	7FFFFFFF A		DATA	X'7FFFFFFF'	
6952					PAGE		
6953	01	01AC6	FFFFFFFF A	DW10	DATA	-10	DW
6954	01	01AC7	36C00460		DW,12	MEMBRY	
6955	01	01AC8	F73001BF		K	15,7,3,FXP8SW	
6956	01	01AC9	A730016A		K	10,7,3,L8C+2	
6957	01	01ACA	FFFFFFFF A		DATA	X'FFFFFFFF'	
6958	01	01ACB	FFFFFFFF A		DATA	X'FFFFFFFF'	
6959	01	01ACC	FFFFFFFF A		DATA	X'FFFFFFFF'	
6960	01	01ACD	FFFFFFFF A		DATA	X'FFFFFFFF'	
6961	01	01ACE	FFFFFFFF A		DATA	X'FFFFFFFF'	
6962	01	01ACE	00000007 A		DATA	X'00000007'	
6963	01	01AD0	FFFFFFFF A	DW11	DATA	-10	DW
6964	01	01AD1	36C00460		DW,12	MEMBRY	
6965	01	01AD2	F73001BF		K	15,7,3,FXP8SW	
6966	01	01AD3	A730016A		K	10,7,3,L8C+2	
6967	01	01AD4	00000000 A		DATA	X'00000000'	
6968	01	01AD5	00000000 A		DATA	X'00000000'	
6969	01	01AD6	00000004 A		DATA	X'00000004'	

6970	01	01AD7	00000004 A		DATA	X'00000004'	
6971	01	01AD8	00000020 A		DATA	X'00000020'	
6972	01	01AD9	00000008 A		DATA	X'00000008'	
6973	01	01ADA	FFFFFFFF A	DW12	DATA	-10	DW
6974	01	01ADB	36C00460		DW,12	MEMBRY	
6975	01	01ADC	F73001BF		K	15,7,3,FXP8SW	
6976	01	01ADD	9730016A		K	9,7,3,L8C+2	
6977	01	01ADE	FFFFFFFF A		DATA	X'FFFFFFFF'	
6978	01	01ADF	00000000 A		DATA	X'00000000'	
6979	01	01AE0	00000004 A		DATA	X'00000004'	
6980	01	01AE1	00000004 A		DATA	X'00000004'	
6981	01	01AE2	FFFFFFFF A		DATA	X'FFFFFFFF'	
6982	01	01AE3	FFFFFFFF A		DATA	X'FFFFFFFF'	
6983					PAGE		
6984	01	01AE4	FFFFFFFF A	DW13	DATA	-10	DW
6985	01	01AE5	36C00460		DW,12	MEMBRY	
6986	01	01AE6	F73001BF		K	15,7,3,FXP8SW	
6987	01	01AE7	A730016A		K	10,7,3,L8C+2	
6988	01	01AE8	FFFFFFFF A		DATA	X'FFFFFFFF'	
6989	01	01AE9	FFFFFFFF A		DATA	X'FFFFFFFF'	
6990	01	01AEA	FFFFFFFF A		DATA	X'FFFFFFFF'	
6991	01	01AEB	FFFFFFFF A		DATA	X'FFFFFFFF'	
6992	01	01AEC	FFFFFFFF A		DATA	X'FFFFFFFF'	
6993	01	01AED	00000006 A		DATA	X'00000006'	
6994	01	01AEE	FFFFFFFF A	DW14	DATA	-10	DW
6995	01	01AEF	36C00460		DW,12	MEMBRY	
6996	01	01AF0	F73001BF		K	15,7,3,FXP8SW	
6997	01	01AF1	9730016A		K	9,7,3,L8C+2	
6998	01	01AF2	00000000 A		DATA	X'00000000'	
6999	01	01AF3	00000000 A		DATA	X'00000000'	
7000	01	01AF4	FFFFFFFF A		DATA	X'FFFFFFFF'	
7001	01	01AF5	FFFFFFFF A		DATA	X'FFFFFFFF'	
7002	01	01AF6	00000020 A		DATA	X'00000020'	
7003	01	01AF7	FFFFFFFF A		DATA	X'FFFFFFFF'	
7004	01	01AF8	FFFFFFFF A	DW15	DATA	-10	DW
7005	01	01AF9	36C00460		DW,12	MEMBRY	
7006	01	01AFA	F73001BF		K	15,7,3,FXP8SW	

7007	01	01AFB	9730016A		K	9,7,3,L8C+2	
7008	01	01AFC	FFFFFFFF A		DATA	X'FFFFFFFF'	
7009	01	01AFD	FFFFFFFFD A		DATA	X'FFFFFFFFD'	
7010	01	01AFE	00000004 A		DATA	X'00000004'	
7011	01	01AFF	00000004 A		DATA	X'00000004'	
7012	01	01B00	FFFFFFE1 A		DATA	X'FFFFFFE1'	
7013	01	01B01	FFFFFFF9 A		DATA	X'FFFFFFF9'	
7014					PAGE		
7015	01	01B02	FFFFFFF6 A	DW16	DATA	-10	DW
7016	01	01B03	36C00460		DW,12	MEMBRY	
7017	01	01B04	F73001BF		K	15,7,3,FXP8SW	
7018	01	01B05	A730016A		K	10,7,3,L8C+2	
7019	01	01B06	FFFFFFFF A		DATA	X'FFFFFFFF'	
7020	01	01B07	00000000 A		DATA	X'00000000'	
7021	01	01B08	FFFFFFFC A		DATA	X'FFFFFFFC'	
7022	01	01B09	FFFFFFFC A		DATA	X'FFFFFFFC'	
7023	01	01B0A	FFFFFFE0 A		DATA	X'FFFFFFE0'	
7024	01	01B0B	00000008 A		DATA	X'00000008'	
7025	01	01B0C	FFFFFFF6 A	DW17	DATA	-10	DW
7026	01	01B0D	36C00460		DW,12	MEMBRY	
7027	01	01B0E	F73001BF		K	15,7,3,FXP8SW	
7028	01	01B0F	A730016A		K	10,7,3,L8C+2	
7029	01	01B10	00000000 A		DATA	X'00000000'	
7030	01	01B11	00000003 A		DATA	X'00000003'	
7031	01	01B12	00000004 A		DATA	X'00000004'	
7032	01	01B13	00000004 A		DATA	X'00000004'	
7033	01	01B14	0000001F A		DATA	X'0000001F'	
7034	01	01B15	00000007 A		DATA	X'00000007'	
7035	01	01B16	FFFFFFF6 A	DW18	DATA	-10	DW
7036	01	01B17	36C00460		DW,12	MEMBRY	
7037	01	01B18	F73001BF		K	15,7,3,FXP8SW	
7038	01	01B19	A730016A		K	10,7,3,L8C+2	
7039	01	01B1A	15555555 A		DATA	X'15555555'	
7040	01	01B1B	00000000 A		DATA	X'00000000'	
7041	01	01B1C	7FFFFFFF A		DATA	X'7FFFFFFF'	
7042	01	01B1D	7FFFFFFF A		DATA	X'7FFFFFFF'	
7043	01	01B1E	55555555 A		DATA	X'55555555'	

7044	01	01B1F	2AAAAAAB A		DATA	X'2AAAAAAB'	
7045					PAGE		
7046	01	01B20	FFFFFFF6 A	DW19	DATA	-10	DW
7047	01	01B21	36C00460		DW,12	MEMBRY	
7048	01	01B22	F73001BF		K	15,7,3,FXP8SW	
7049	01	01B23	A730016A		K	10,7,3,L8C+2	
7050	01	01B24	31C3C1F0 A		DATA	X'31C3C1F0'	
7051	01	01B25	3CBA3128 A		DATA	X'3CBA3128'	
7052	01	01B26	79999999 A		DATA	X'79999999'	
7053	01	01B27	79999999 A		DATA	X'79999999'	
7054	01	01B28	11111111 A		DATA	X'11111111'	
7055	01	01B29	68C48AD1 A		DATA	X'68C48AD1'	
7056	01	01B2A	FFFFFFF6 A	DW20	DATA	-10	DW
7057	01	01B2B	36C00460		DW,12	MEMBRY	
7058	01	01B2C	F73001BF		K	15,7,3,FXP8SW	
7059	01	01B2D	9730016A		K	9,7,3,L8C+2	
7060	01	01B2E	FC7CF1CC A		DATA	X'FC7CF1CC'	
7061	01	01B2F	FAAAAAAA A		DATA	X'FAAAAAAA'	
7062	01	01B30	70000000 A		DATA	X'70000000'	
7063	01	01B31	70000000 A		DATA	X'70000000'	
7064	01	01B32	AAAAAAA A		DATA	X'AAAAAAA'	
7065	01	01B33	F7F90410 A		DATA	X'F7F90410'	
7066	01	01B34	FFFFFFF6 A	DW21	DATA	-10	DW
7067	01	01B35	36C00460		DW,12	MEMBRY	
7068	01	01B36	F73001BF		K	15,7,3,FXP8SW	
7069	01	01B37	9730016A		K	9,7,3,L8C+2	
7070	01	01B38	31111111 A		DATA	X'31111111'	
7071	01	01B39	584D775C A		DATA	X'584D775C'	
7072	01	01B3A	84444444 A		DATA	X'84444444'	
7073	01	01B3B	84444444 A		DATA	X'84444444'	
7074	01	01B3C	59C61C18 A		DATA	X'59C61C18'	
7075	01	01B3D	9A7B9612 A		DATA	X'9A7B9612'	
7076					PAGE		
7077	01	01B3E	FFFFFFF6 A	DW22	DATA	-10	DW
7078	01	01B3F	36C00460		DW,12	MEMBRY	
7079	01	01B40	F73001BF		K	15,7,3,FXP8SW	
7080	01	01B41	9730016A		K	9,7,3,L8C+2	

7081	01	01842	D6666666 A		DATA	X1D6666666'
7082	01	01843	BE7E7E7E A		DATA	X1BE7E7E7E'
7083	01	01844	7EEEEEEE A		DATA	X17EEEEEEE'
7084	01	01845	7EEEEEEE A		DATA	X17EEEEEEE'
7085	01	01846	66666666 A		DATA	X166666666'
7086	01	01847	AC19DOAC A		DATA	X1AC19DOAC'
7087	01	01848	FFFFFFF6 A	DW23	DATA	-10
7088	01	01849	36C00460		DW,12	MEMBRY
7089	01	0184A	F73001BF		K	15,7,3,FXP8SW
7090	01	0184B	A730016A		K	10,7,3,L8C+2
7091	01	0184C	F1C3C731 A		DATA	X1F1C3C731'
7092	01	0184D	ED42FD57 A		DATA	X1ED42FD57'
7093	01	0184E	84444444 A		DATA	X184444444'
7094	01	0184F	84444444 A		DATA	X184444444'
7095	01	01850	3F01FC03 A		DATA	X13F01FC03'
7096	01	01851	1D73C4FB A		DATA	X1D73C4FB'
7097	01	01852	FFFFFFF6 A	DW24	DATA	-10
7098	01	01853	36C00460		DW,12	MEMBRY
7099	01	01854	F73001BF		K	15,7,3,FXP8SW
7100	01	01855	A730016A		K	10,7,3,L8C+2
7101	01	01856	36666666 A		DATA	X136666666'
7102	01	01857	75555555 A		DATA	X175555555'
7103	01	01858	7EEEEEEE A		DATA	X17EEEEEEE'
7104	01	01859	7EEEEEEE A		DATA	X17EEEEEEE'
7105	01	0185A	99999999 A		DATA	X199999999'
7106	01	0185B	6DB6DB6E A		DATA	X16DB6DB6E'
7107					PAGE	
7108	01	0185C	FFFFFFF6 A	DW25	DATA	-10
7109	01	0185D	36C00460		DW,12	MEMBRY
7110	01	0185E	F73001BF		K	15,7,3,FXP8SW
7111	01	0185F	A730016A		K	10,7,3,L8C+2
7112	01	01860	27777777 A		DATA	X127777777'
7113	01	01861	6DB53C70 A		DATA	X16DB53C70'
7114	01	01862	70000000 A		DATA	X170000000'
7115	01	01863	70000000 A		DATA	X170000000'
7116	01	01864	CDB53C70 A		DATA	X1CDB53C70'
7117	01	01865	5A35A35A A		DATA	X15A35A35A'

7118	01	01866	FFFFFFF6 A	DW26	DATA	-10
7119	01	01867	36C00460		DW,12	MEMBRY
7120	01	01868	F73001BF		K	15,7,3,FXP8SW
7121	01	01869	9730016A		K	9,7,3,L8C+2
7122	01	0186A	31C3C1F0 A		DATA	X131C3C1F0'
7123	01	0186B	44D90600 A		DATA	X144D90600'
7124	01	0186C	85555555 A		DATA	X185555555'
7125	01	0186D	85555555 A		DATA	X185555555'
7126	01	0186E	77777777 A		DATA	X177777777'
7127	01	0186F	9A24AE0B A		DATA	X19A24AE0B'
7128	01	01870	FFFFFFF6 A	DW27	DATA	-10
7129	01	01871	36C00460		DW,12	MEMBRY
7130	01	01872	F73001BF		K	15,7,3,FXP8SW
7131	01	01873	9730016A		K	9,7,3,L8C+2
7132	01	01874	D6666666 A		DATA	X1D6666666'
7133	01	01875	C45CB5B4 A		DATA	X1C45CB5B4'
7134	01	01876	79999999 A		DATA	X179999999'
7135	01	01877	79999999 A		DATA	X179999999'
7136	01	01878	DF4F3C70 A		DATA	X1DF4F3C70'
7137	01	01879	A86BCA1C A		DATA	X1A86BCA1C'
7138					PAGE	
7139	01	0187A	FFFFFFF6 A	DW28	DATA	-10
7140	01	0187B	36C00460		DW,12	MEMBRY
7141	01	0187C	F73001BF		K	15,7,3,FXP8SW
7142	01	0187D	9730016A		K	9,7,3,L8C+2
7143	01	0187E	15555555 A		DATA	X115555555'
7144	01	0187F	4FB8CDB4 A		DATA	X14FB8CDB4'
7145	01	01880	82222222 A		DATA	X182222222'
7146	01	01881	82222222 A		DATA	X182222222'
7147	01	01882	59C61C18 A		DATA	X159C61C18'
7148	01	01883	D49C3412 A		DATA	X1D49C3412'
7149	01	01884	FFFFFFF6 A	DW29	DATA	-10
7150	01	01885	36C00460		DW,12	MEMBRY
7151	01	01886	F73001BF		K	15,7,3,FXP8SW
7152	01	01887	9730016A		K	9,7,3,L8C+2
7153	01	01888	021871E7 A		DATA	X1021871E7'
7154	01	01889	09CE9631 A		DATA	X109CE9631'

SIGMA 7 CPU DIAGNOSTIC-AUTB 704044-51800 MARCH 10,1969 209

7155	01	0188A	83333333 A		DATA	X'83333333'	
7156	01	0188B	83333333 A		DATA	X'83333333'	
7157	01	0188C	77777777 A		DATA	X'77777777'	
7158	01	0188D	F8B399A2 A		DATA	X'F8B399A2'	
7159	01	0188E	FFFFFFF6 A	DW30	DATA	-10	DW
7160	01	0188E	36C00460		DW,12	MEMORY	
7161	01	01890	F730018F		K	15,7,3,FXP8SW	
7162	01	01891	A730016A		K	10,7,3,L8C+2	
7163	01	01892	E1111111 A		DATA	X'E1111111'	
7164	01	01893	BA64966C A		DATA	X'BA64966C'	
7165	01	01894	87777777 A		DATA	X'87777777'	
7166	01	01895	87777777 A		DATA	X'87777777'	
7167	01	01896	AAAAAAAA A		DATA	X'AAAAAAAA'	
7168	01	01897	41B2F932 A		DATA	X'41B2F932'	
7169					PAGE		
7170	01	01898	FFFFFFF6 A	DW31	DATA	-10	DW
7171	01	01899	36C00460		DW,12	MEMORY	
7172	01	0189A	F730018F		K	15,7,3,FXP8SW	
7173	01	0189B	9730016A		K	9,7,3,L8C+2	
7174	01	0189C	FC7CF1CC A		DATA	X'FC7CF1CC'	
7175	01	0189D	88E1079C A		DATA	X'88E1079C'	
7176	01	0189E	7EEEEEEE A		DATA	X'7EEEEEEE'	
7177	01	0189F	7EEEEEEE A		DATA	X'7EEEEEEE'	
7178	01	018A0	CDSB3C70 A		DATA	X'CDSB3C70'	
7179	01	018A1	F8EAC766 A		DATA	X'F8EAC766'	
7180	01	018A2	FFFFFFF6 A	DW32	DATA	-10	DW *
7181	01	018A3	B4C0045A		DW,12	*IA	
7182	01	018A4	F730018F		K	15,7,3,FXP8SW	
7183	01	018A5	A730016A		K	10,7,3,L8C+2	
7184	01	018A6	15555555 A		DATA	X'15555555'	
7185	01	018A7	11111111 A		DATA	X'11111111'	
7186	01	018A8	70000000 A		DATA	X'70000000'	
7187	01	018A9	70000000 A		DATA	X'70000000'	
7188	01	018AA	11111111 A		DATA	X'11111111'	
7189	01	018AB	30C30C30 A		DATA	X'30C30C30'	
7190	01	018AC	FFFFFFF6 A	DW33	DATA	-10	DW X
7191	01	018AD	36C2F34F		DW,12	MEMORY-X'111111',1	

SIGMA 7 CPU DIAGNOSTIC-AUTB 704044-51800 MARCH 10,1969 210

7192	01	018AE	F730018F		K	15,7,3,FXP8SW	
7193	01	018AF	9730016A		K	9,7,3,L8C+2	
7194	01	018B0	31111111 A		DATA	X'31111111'	
7195	01	018B1	1E4006CC A		DATA	X'1E4006CC'	
7196	01	018B2	87777777 A		DATA	X'87777777'	
7197	01	018B3	87777777 A		DATA	X'87777777'	
7198	01	018B4	22222222 A		DATA	X'22222222'	
7199	01	018B5	97C9A0DA A		DATA	X'97C9A0DA'	
7200					PAGE		
7201	01	018B6	FFFFFFF6 A	DW34	DATA	-10	DW
7202	01	018B7	36C00460		DW,12	MEMORY	
7203	01	018B8	F730018F		K	15,7,3,FXP8SW	
7204	01	018B9	9730016A		K	9,7,3,L8C+2	
7205	01	018BA	D6666666 A		DATA	X'D6666666'	
7206	01	018BB	93521CFB A		DATA	X'93521CFB'	
7207	01	018BC	71111111 A		DATA	X'71111111'	
7208	01	018BD	71111111 A		DATA	X'71111111'	
7209	01	018BE	33333333 A		DATA	X'33333333'	
7210	01	018BF	A1CFB2B8 A		DATA	X'A1CFB2B8'	
7211	01	018C0	FFFFFFF6 A	DW35	DATA	-10	DW
7212	01	018C1	36C00460		DW,12	MEMORY	
7213	01	018C2	F730018F		K	15,7,3,FXP8SW	
7214	01	018C3	9730016A		K	9,7,3,L8C+2	
7215	01	018C4	36666666 A		DATA	X'36666666'	
7216	01	018C5	27482F83 A		DATA	X'27482F83'	
7217	01	018C6	89999999 A		DATA	X'89999999'	
7218	01	018C7	89999999 A		DATA	X'89999999'	
7219	01	018C8	44444444 A		DATA	X'44444444'	
7220	01	018C9	8A60DD69 A		DATA	X'8A60DD69'	
7221	01	018CA	FFFFFFF6 A	DW36	DATA	-10	DW
7222	01	018CB	36C00460		DW,12	MEMORY	
7223	01	018CC	F730018F		K	15,7,3,FXP8SW	
7224	01	018CD	A730016A		K	10,7,3,L8C+2	
7225	01	018CE	021871E7 A		DATA	X'021871E7'	
7226	01	018CF	48888888 A		DATA	X'48888888'	
7227	01	018D0	70000000 A		DATA	X'70000000'	
7228	01	018D1	70000000 A		DATA	X'70000000'	

SIGMA 7 CPU DIAGNOSTIC-AUT8			704044-51800	MARCH 10, 1969	211
7229	01	01BD2	88888888 A	DATA	X'88888888'
7230	01	01BD3	04CA28EC A	DATA	X'04CA28EC'
7231				PAGE	
7232	01	01BD4	FFFFFFF6 A	DW37	DATA -10 DW
7233	01	01BD5	36C00460	DW,12	MEMBERY
7234	01	01BD6	F73001BF	K	15,7,3,FXP8SW
7235	01	01BD7	A730016A	K	10,7,3,L8C+2
7236	01	01BD8	E1111111 A	DATA	X'E1111111'
7237	01	01BD9	CB75A77D A	DATA	X'CB75A77D'
7238	01	01BDA	87777777 A	DATA	X'87777777'
7239	01	01BDB	87777777 A	DATA	X'87777777'
7240	01	01BDC	BBBBBBBB A	DATA	X'BBBBBBBB'
7241	01	01BDD	41B2F932 A	DATA	X'41B2F932'
7242	01	01BDE	FFFFFFF6 A	DW38	DATA -10 DW
7243	01	01BDF	36C00460	DW,12	MEMBERY
7244	01	01BE0	F73001BF	K	15,7,3,FXP8SW
7245	01	01BE1	9730016A	K	9,7,3,L8C+2
7246	01	01BE2	F1C3C731 A	DATA	X'F1C3C731'
7247	01	01BE3	E79E5F51 A	DATA	X'E79E5F51'
7248	01	01BE4	79999999 A	DATA	X'79999999'
7249	01	01BE5	79999999 A	DATA	X'79999999'
7250	01	01BE6	CCCCCCCC A	DATA	X'CCCCCCCC'
7251	01	01BE7	E207F433 A	DATA	X'E207F433'
7252	01	01BE8	FFFFFFF6 A	DW39	DATA -10 DW
7253	01	01BE9	36C00460	DW,12	MEMBERY
7254	01	01BEA	F73001BF	K	15,7,3,FXP8SW
7255	01	01BEB	A730016A	K	10,7,3,L8C+2
7256	01	01BEC	00000000 A	DATA	X'00000000'
7257	01	01BED	00000000 A	DATA	X'00000000'
7258	01	01BEE	00000001 A	DATA	X'00000001'
7259	01	01BEF	00000001 A	DATA	X'00000001'
7260	01	01BF0	00000002 A	DATA	X'00000002'
7261	01	01BF1	00000002 A	DATA	X'00000002'
7262				PAGE	
7263	01	01BF2	FFFFFFF6 A	DW40	DATA -10 DW
7264	01	01BF3	36C00460	DW,12	MEMBERY
7265	01	01BF4	F73001BF	K	15,7,3,FXP8SW

SIGMA 7 CPU DIAGNOSTIC-AUT8			704044-51800	MARCH 10, 1969	212
7266	01	01BF5	A730016A	K	10,7,3,L8C+2
7267	01	01BF6	00000000 A	DATA	X'00000000'
7268	01	01BF7	00000000 A	DATA	X'00000000'
7269	01	01BF8	7FFFFFFF A	DATA	X'7FFFFFFF'
7270	01	01BF9	7FFFFFFF A	DATA	X'7FFFFFFF'
7271	01	01BFA	7FFFFFFF A	DATA	X'7FFFFFFF'
7272	01	01BFB	00000001 A	DATA	X'00000001'
7273	01	01BFC	FFFFFFF6 A	DW41	DATA -10 DW
7274	01	01BFD	36C00460	DW,12	MEMBERY
7275	01	01BFE	F73001BF	K	15,7,3,FXP8SW
7276	01	01BF0	A730016A	K	10,7,3,L8C+2
7277	01	01C00	00000000 A	DATA	X'00000000'
7278	01	01C01	00000000 A	DATA	X'00000000'
7279	01	01C02	00000001 A	DATA	X'00000001'
7280	01	01C03	00000001 A	DATA	X'00000001'
7281	01	01C04	7FFFFFFF A	DATA	X'7FFFFFFF'
7282	01	01C05	7FFFFFFF A	DATA	X'7FFFFFFF'
7283	01	01C06	FFFFFFF6 A	DW42	DATA -10 DW
7284	01	01C07	36C00460	DW,12	MEMBERY
7285	01	01C08	F73001BF	K	15,7,3,FXP8SW
7286	01	01C09	A730016A	K	10,7,3,L8C+2
7287	01	01COA	FFFFFFF6 A	DATA	X'FFFFFFF6'
7288	01	01COB	00000000 A	DATA	X'00000000'
7289	01	01COC	FFFFFFF6 A	DATA	X'FFFFFFF6'
7290	01	01C0D	FFFFFFF6 A	DATA	X'FFFFFFF6'
7291	01	01COE	FFFFFFF6 A	DATA	X'FFFFFFF6'
7292	01	01COF	00000002 A	DATA	X'00000002'
7293				PAGE	
7294	01	01C10	FFFFFFF6 A	DW43	DATA -10 DW
7295	01	01C11	36C00460	DW,12	MEMBERY
7296	01	01C12	F73001BF	K	15,7,3,FXP8SW
7297	01	01C13	A730016A	K	10,7,3,L8C+2
7298	01	01C14	FFFFFFF6 A	DATA	X'FFFFFFF6'
7299	01	01C15	00000000 A	DATA	X'00000000'
7300	01	01C16	80000001 A	DATA	X'80000001'
7301	01	01C17	80000001 A	DATA	X'80000001'
7302	01	01C18	80000001 A	DATA	X'80000001'

7303	01	01C19	00000001 A		DATA	X'00000001'	
7304	01	01C1A	FFFFFFFF6 A	DW44	DATA	-10	DW
7305	01	01C1B	36C00460		DW,12	MEMORY	
7306	01	01C1C	F73001BF		K	15,7,3,FXP8SW	
7307	01	01C1D	A730016A		K	10,7,3,L8C+2	
7308	01	01C1E	FFFFFFFF A		DATA	X'FFFFFFFF'	
7309	01	01C1F	00000000 A		DATA	X'00000000'	
7310	01	01C20	FFFFFFFF A		DATA	X'FFFFFFFF'	
7311	01	01C21	FFFFFFFF A		DATA	X'FFFFFFFF'	
7312	01	01C22	80000001 A		DATA	X'80000001'	
7313	01	01C23	7FFFFFFFF A		DATA	X'7FFFFFFFF'	
7314	01	01C24	FFFFFFFF6 A	DW45	DATA	-10	DW
7315	01	01C25	36C00460		DW,12	MEMORY	
7316	01	01C26	F73001BF		K	15,7,3,FXP8SW	
7317	01	01C27	9730016A		K	9,7,3,L8C+2	
7318	01	01C28	00000000 A		DATA	X'00000000'	
7319	01	01C29	00000000 A		DATA	X'00000000'	
7320	01	01C2A	FFFFFFFF A		DATA	X'FFFFFFFF'	
7321	01	01C2B	FFFFFFFF A		DATA	X'FFFFFFFF'	
7322	01	01C2C	00000002 A		DATA	X'00000002'	
7323	01	01C2D	FFFFFFFFE A		DATA	X'FFFFFFFFE'	
7324					PAGE		
7325	01	01C2E	FFFFFFFF6 A	DW46	DATA	-10	DW
7326	01	01C2F	36C00460		DW,12	MEMORY	
7327	01	01C30	F73001BF		K	15,7,3,FXP8SW	
7328	01	01C31	9730016A		K	9,7,3,L8C+2	
7329	01	01C32	00000000 A		DATA	X'00000000'	
7330	01	01C33	00000000 A		DATA	X'00000000'	
7331	01	01C34	00000001 A		DATA	X'80000001'	
7332	01	01C35	80000001 A		DATA	X'80000001'	
7333	01	01C36	7FFFFFFFF A		DATA	X'7FFFFFFFF'	
7334	01	01C37	FFFFFFFF A		DATA	X'FFFFFFFF'	
7335	01	01C38	FFFFFFFF6 A	DW47	DATA	-10	DW
7336	01	01C39	36C00460		DW,12	MEMORY	
7337	01	01C3A	F73001BF		K	15,7,3,FXP8SW	
7338	01	01C3B	9730016A		K	9,7,3,L8C+2	
7339	01	01C3C	00000000 A		DATA	X'00000000'	

7340	01	01C3D	00000000 A		DATA	X'00000000'	
7341	01	01C3E	FFFFFFFF A		DATA	X'FFFFFFFF'	
7342	01	01C3F	FFFFFFFF A		DATA	X'FFFFFFFF'	
7343	01	01C40	7FFFFFFFF A		DATA	X'7FFFFFFFF'	
7344	01	01C41	80000001 A		DATA	X'80000001'	
7345	01	01C42	FFFFFFFF6 A	DW48	DATA	-10	DW
7346	01	01C43	36C00460		DW,12	MEMORY	
7347	01	01C44	F73001BF		K	15,7,3,FXP8SW	
7348	01	01C45	9730016A		K	9,7,3,L8C+2	
7349	01	01C46	FFFFFFFF A		DATA	X'FFFFFFFF'	
7350	01	01C47	00000000 A		DATA	X'00000000'	
7351	01	01C48	00000001 A		DATA	X'00000001'	
7352	01	01C49	00000001 A		DATA	X'00000001'	
7353	01	01C4A	FFFFFFFFE A		DATA	X'FFFFFFFFE'	
7354	01	01C4B	FFFFFFFFE A		DATA	X'FFFFFFFFE'	
7355					PAGE		
7356	01	01C4C	FFFFFFFF6 A	DW49	DATA	-10	DW
7357	01	01C4D	36C00460		DW,12	MEMORY	
7358	01	01C4E	F73001BF		K	15,7,3,FXP8SW	
7359	01	01C4F	9730016A		K	9,7,3,L8C+2	
7360	01	01C50	FFFFFFFF A		DATA	X'FFFFFFFF'	
7361	01	01C51	00000000 A		DATA	X'00000000'	
7362	01	01C52	7FFFFFFFF A		DATA	X'7FFFFFFFF'	
7363	01	01C53	7FFFFFFFF A		DATA	X'7FFFFFFFF'	
7364	01	01C54	80000001 A		DATA	X'80000001'	
7365	01	01C55	FFFFFFFF A		DATA	X'FFFFFFFF'	
7366	01	01C56	FFFFFFFF6 A	DW50	DATA	-10	DW
7367	01	01C57	36C00460		DW,12	MEMORY	
7368	01	01C58	F73001BF		K	15,7,3,FXP8SW	
7369	01	01C59	9730016A		K	9,7,3,L8C+2	
7370	01	01C5A	FFFFFFFF A		DATA	X'FFFFFFFF'	
7371	01	01C5B	00000000 A		DATA	X'00000000'	
7372	01	01C5C	00000001 A		DATA	X'00000001'	
7373	01	01C5D	00000001 A		DATA	X'00000001'	
7374	01	01C5E	80000001 A		DATA	X'80000001'	
7375	01	01C5F	80000001 A		DATA	X'80000001'	
7376	01	01C60	FFFFFFFF6 A	DW51	DATA	-10	DW

SIGMA 7 CPU DIAGNOSTIC-AUT0 704044-51800 MARCH 10, 1969 215

7377	01	01C61	36C00460		DW,12	MEMORY	
7378	01	01C62	F73001BF		K	15,7,3,FXP8SW	
7379	01	01C63	A730016A		K	10,7,3,L8C+2	
7380	01	01C64	01234567 A		DATA	X'01234567'	
7381	01	01C65	0DD441AF A		DATA	X'0DD441AF'	
7382	01	01C66	42468ACE A		DATA	X'42468ACE'	
7383	01	01C67	42468ACE A		DATA	X'42468ACE'	
7384	01	01C68	89ABCDEF A		DATA	X'89ABCDEF'	
7385	01	01C69	046514E0 A		DATA	X'046514E0'	
7386					PAGE		
7387	01	01C6A	FFFFFFFF6 A	DW52	DATA	-10	DW
7388	01	01C6B	36C00460		DW,12	MEMORY	
7389	01	01C6C	F73001BF		K	15,7,3,FXP8SW	
7390	01	01C6D	A730016A		K	10,7,3,L8C+2	
7391	01	01C6E	258BE147 A		DATA	X'258BE147'	
7392	01	01C6F	55A20A6F A		DATA	X'55A20A6F'	
7393	01	01C70	S6AE37BF A		DATA	X'56AE37BF'	
7394	01	01C71	S6AE37BF A		DATA	X'56AE37BF'	
7395	01	01C72	AD0369CF A		DATA	X'AD0369CF'	
7396	01	01C73	6EE378A0 A		DATA	X'6EE378A0'	
7397	01	01C74	FFFFFFFF6 A	DW53	DATA	-10	DW
7398	01	01C75	36C00460		DW,12	MEMORY	
7399	01	01C76	F73001BF		K	15,7,3,FXP8SW	
7400	01	01C77	F7300084		K	15,7,3,FP8RET+1	
7401	01	01C78	DF1357BD A		DATA	X'DF1357BD'	
7402	01	01C79	DF1357BD A		DATA	X'DF1357BD'	
7403	01	01C7A	E13579BD A		DATA	X'E13579BD'	
7404	01	01C7B	E13579BD A		DATA	X'E13579BD'	
7405	01	01C7C	F2468ACE A		DATA	X'F2468ACE'	
7406	01	01C7D	F2468ACE A		DATA	X'F2468ACE'	
7407	01	01C7E	FFFFFFFF6 A	DW54	DATA	-10	DW
7408	01	01C7F	36C00460		DW,12	MEMORY	
7409	01	01C80	F73001BF		K	15,7,3,FXP8SW	
7410	01	01C81	A730016A		K	10,7,3,L8C+2	
7411	01	01C82	E26AE38D A		DATA	X'E26AE38D'	
7412	01	01C83	92D13AE2 A		DATA	X'92D13AE2'	
7413	01	01C84	8147AD03 A		DATA	X'8147AD03'	

SIGMA 7 CPU DIAGNOSTIC-AUT0 704044-51800 MARCH 10, 1969 216

7414	01	01C85	8147AD03 A		DATA	X'8147AD03'	
7415	01	01C86	27C16805 A		DATA	X'27C16805'	
7416	01	01C87	3BC33661 A		DATA	X'3BC33661'	
7417					PAGE		
7418	01	01C88	FFFFFFFF6 A	DW55	DATA	-10	DW
7419	01	01C89	36C00460		DW,12	MEMORY	
7420	01	01C8A	F73001BF		K	15,7,3,FXP8SW	
7421	01	01C8B	F7300084		K	15,7,3,FP8RET+1	
7422	01	01C8C	148BF37B A		DATA	X'148BF37B'	
7423	01	01C8D	148BF37B A		DATA	X'148BF37B'	
7424	01	01C8E	E26AF49F A		DATA	X'E26AF49F'	
7425	01	01C8F	E26AF49F A		DATA	X'E26AF49F'	
7426	01	01C90	F37BF49E A		DATA	X'F37BF49E'	
7427	01	01C91	F37BF49E A		DATA	X'F37BF49E'	
7428	01	01C92	FFFFFFFF6 A	DW56	DATA	-10	DW
7429	01	01C93	36C00460		DW,12	MEMORY	
7430	01	01C94	F73001BF		K	15,7,3,FXP8SW	
7431	01	01C95	9730016A		K	9,7,3,L8C+2	
7432	01	01C96	F0259E49 A	<i>av</i>	DATA	X'F0259E49'	
7433	01	01C97	DBE59C60 A		DATA	X'DBE59C60'	
7434	01	01C98	457AE39F A		DATA	X'457AE39F'	
7435	01	01C99	457AE39F A		DATA	X'457AE39F'	
7436	01	01C9A	ABE159F0 A	<i>av</i>	DATA	X'ABE159F0'	
7437	01	01C9B	C596D870 A		DATA	X'C596D870'	
7438	01	01C9C	FFFFFFFF6 A	DW57	DATA	-10	DW
7439	01	01C9D	36C00460		DW,12	MEMORY	
7440	01	01C9E	F73001BF		K	15,7,3,FXP8SW	
7441	01	01C9F	9730016A		K	9,7,3,L8C+2	
7442	01	01CA0	00000000 A		DATA	X'00000000'	
7443	01	01CA1	7FFFFFFFFF A		DATA	X'7FFFFFFFFF'	
7444	01	01CA2	80000000 A		DATA	X'80000000'	
7445	01	01CA3	80000000 A		DATA	X'80000000'	
7446	01	01CA4	FFFFFFFFFF A		DATA	X'FFFFFFFFFF'	
7447	01	01CA5	FFFFFFFFFF A		DATA	X'FFFFFFFFFF'	
7448					PAGE		
7449	01	01CA6	FFFFFFFF6 A	DW58	DATA	-10	DW
7450	01	01CA7	36C00460		DW,12	MEMORY	

7451	01	01CA8	F73001BF		K	15,7,3,FXP8SW	
7452	01	01CA9	A730016A		K	10,7,3,L8C+2	
7453	01	01CAA	C0000000 A		DATA	X'C0000000'	
7454	01	01CAB	80000001 A		DATA	X'80000001'	
7455	01	01CAC	80000000 A		DATA	X'80000000'	
7456	01	01CAD	80000000 A		DATA	X'80000000'	
7457	01	01CAE	00000001 A		DATA	X'00000001'	
7458	01	01CAF	7FFFFFFF A		DATA	X'7FFFFFFF'	
7459	01	01CB0	FFFFFFF6 A	DW59	DATA	-10	DW
7460	01	01CB1	36C00460		DW,12	MEMORY	
7461	01	01CB2	F73001BF		K	15,7,3,FXP8SW	
7462	01	01CB3	A730016A		K	10,7,3,L8C+2	
7463	01	01CB4	F0000000 A		DATA	X'F0000000'	
7464	01	01CB5	00000000 A		DATA	X'00000000'	
7465	01	01CB6	80000000 A		DATA	X'80000000'	
7466	01	01CB7	80000000 A		DATA	X'80000000'	
7467	01	01CB8	00000000 A		DATA	X'00000000'	
7468	01	01CB9	20000000 A		DATA	X'20000000'	
7469	01	01CBA	FFFFFFF6 A	DW60	DATA	-10	DW
7470	01	01CBB	36C00460		DW,12	MEMORY	
7471	01	01CBC	B73001BF		K	11,7,3,FXP8SW	
7472	01	01CBD	F7300084		K	15,7,3,FPBRET+1	
7473	01	01CBE	30000000 A		DATA	X'30000000'	
7474	01	01CBF	30000000 A		DATA	X'30000000'	
7475	01	01CC0	A0000000 A		DATA	X'A0000000'	
7476	01	01CC1	A0000000 A		DATA	X'A0000000'	
7477	01	01CC2	00000001 A		DATA	X'00000001'	
7478	01	01CC3	00000001 A		DATA	X'00000001'	
7479					PAGE		
7480	01	01CC4	FFFFFFF6 A	DW61	DATA	-10	DW
7481	01	01CC5	36C00460		DW,12	MEMORY	
7482	01	01CC6	F73001BF		K	15,7,3,FXP8SW	
7483	01	01CC7	9730016A		K	9,7,3,L8C+2	
7484	01	01CC8	2ACE5BDF A		DATA	X'2ACE5BDF'	
7485	01	01CC9	006C9928 A		DATA	X'006C9928'	
7486	01	01CCA	8ACE9FBD A		DATA	X'8ACE9FBD'	
7487	01	01CCB	8ACE9FBD A		DATA	X'8ACE9FBD'	

7488	01	01CCD	5A3E6E7F A		DATA	X'5A3E6E7F'	
7489	01	01CCD	A6DCA0A3 A		DATA	X'A6DCA0A3'	
7490	01	01CCE	FFFFFFF6 A	DW62	DATA	-10	DW
7491	01	01CCF	36C00460		DW,12	MEMORY	
7492	01	01CD0	F73001BF		K	15,7,3,FXP8SW	
7493	01	01CD1	9730016A		K	9,7,3,L8C+2	
7494	01	01CD2	28E45B17 A		DATA	X'28E45B17'	
7495	01	01CD3	4F57573B A		DATA	X'4F57573B'	
7496	01	01CD4	A13BF37D A		DATA	X'A13BF37D'	
7497	01	01CD5	A13BF37D A		DATA	X'A13BF37D'	
7498	01	01CD6	A09CD39F A		DATA	X'A09CD39F'	
7499	01	01CD7	9188D334 A		DATA	X'9188D334'	
7500	01	01CD8	FFFFFFF6 A	DW63	DATA	-10	DW
7501	01	01CD9	36C00460		DW,12	MEMORY	
7502	01	01CDA	F73001BF		K	15,7,3,FXP8SW	
7503	01	01CDB	A730016A		K	10,7,3,L8C+2	
7504	01	01CDC	FE8C26AE A		DATA	X'FE8C26AE'	
7505	01	01CDD	F86A5FFC A		DATA	X'F86A5FFC'	
7506	01	01CDE	F67B159D A		DATA	X'F67B159D'	
7507	01	01CDF	F67B159D A		DATA	X'F67B159D'	
7508	01	01CE0	F4A017D3 A		DATA	X'F4A017D3'	
7509	01	01CE1	27102303 A		DATA	X'27102303'	
7510					PAGE		
7511	01	01CE2	FFFFFFF6 A	DW64	DATA	-10	DW
7512	01	01CE3	36C00460		DW,12	MEMORY	
7513	01	01CE4	F73001BF		K	15,7,3,FXP8SW	
7514	01	01CE5	9730016A		K	9,7,3,L8C+2	
7515	01	01CE6	E6E82A3D A		DATA	X'E6E82A3D'	
7516	01	01CE7	C0DD5EE4 A		DATA	X'C0DD5EE4'	
7517	01	01CE8	78F74B3B A		DATA	X'78F74B3B'	
7518	01	01CE9	78F74B3B A		DATA	X'78F74B3B'	
7519	01	01CEA	2C6071B5 A		DATA	X'2C6071B5'	
7520	01	01CEB	CAE54163 A		DATA	X'CAE54163'	
7521	01	01CEC	FFFFFFF6 A	DW65	DATA	-10	DW
7522	01	01CED	36C00460		DW,12	MEMORY	
7523	01	01CEE	F73001BF		K	15,7,3,FXP8SW	
7524	01	01CEF	A730016A		K	10,7,3,L8C+2	

7525	01	01CF0	F7F93B4E	A	DATA	X'F7F93B4E'	
7526	01	01CF1	F2D2B030	A	DATA	X'F2D2B030'	
7527	01	01CF2	E6F22A4F	A	DATA	X'E6F22A4F'	
7528	01	01CF3	E6F22A4F	A	DATA	X'E6F22A4F'	
7529	01	01CF4	47E95A3F	A	DATA	X'47E95A3F'	
7530	01	01CF5	52037141	A	DATA	X'52037141'	
7531	01	01CF6	FFFFFFF6	A	DATA	-10	DW
7532	01	01CF7	36C00460	A	DW,12	MEMORY	
7533	01	01CF8	F73001BF	A	K	15,7,3,FXP8SW	
7534	01	01CF9	9730016A	A	K	9,7,3,L8C+2	
7535	01	01CFA	F29405E9	A	DATA	X'F29405E9'	
7536	01	01CFB	EDA31894	A	DATA	X'EDA31894'	
7537	01	01CFC	690B7C52	A	DATA	X'690B7C52'	
7538	01	01CFD	690B7C52	A	DATA	X'690B7C52'	
7539	01	01CFE	AE58B190	A	DATA	X'AE58B190'	
7540	01	01CFE	DF4A56CE	A	DATA	X'DF4A56CE'	
7541					PAGE		
7542	01	01D00	FFFFFFF6	A	DATA	-10	DW
7543	01	01D01	36C00460	A	DW,12	MEMORY	
7544	01	01D02	F73001BF	A	K	15,7,3,FXP8SW	
7545	01	01D03	A730016A	A	K	10,7,3,L8C+2	
7546	01	01D04	2D3297C8	A	DATA	X'2D3297C8'	
7547	01	01D05	1F22516F	A	DATA	X'1F22516F'	
7548	01	01D06	77532167	A	DATA	X'77532167'	
7549	01	01D07	77532167	A	DATA	X'77532167'	
7550	01	01D08	C237DAC1	A	DATA	X'C237DAC1'	
7551	01	01D09	60F79EDE	A	DATA	X'60F79EDE'	
7552	01	01D0A	FFFFFFF6	A	DATA	-10	DW
7553	01	01D0B	36C00460	A	DW,12	MEMORY	
7554	01	01D0C	F73001BF	A	K	15,7,3,FXP8SW	
7555	01	01D0D	A730016A	A	K	10,7,3,L8C+2	
7556	01	01D0E	FAC41382	A	DATA	X'FAC41382'	
7557	01	01D0F	EAC346BA	A	DATA	X'EAC346BA'	
7558	01	01D10	E0FC7F1C	A	DATA	X'E0FC7F1C'	
7559	01	01D11	E0FC7F1C	A	DATA	X'E0FC7F1C'	
7560	01	01D12	446E28CA	A	DATA	X'446E28CA'	
7561	01	01D13	2B344B5C	A	DATA	X'2B344B5C'	

7562	01	01D14	FFFFFFF6	A	DATA	-10	DW
7563	01	01D15	36C00460	A	DW,12	MEMORY	
7564	01	01D16	F73001BF	A	K	15,7,3,FXP8SW	
7565	01	01D17	A730016A	A	K	10,7,3,L8C+2	
7566	01	01D18	253F7EA9	A	DATA	X'253F7EA9'	
7567	01	01D19	57824166	A	DATA	X'57824166'	
7568	01	01D1A	67B5C610	A	DATA	X'67B5C610'	
7569	01	01D1B	67B5C610	A	DATA	X'67B5C610'	
7570	01	01D1C	3D7182C6	A	DATA	X'3D7182C6'	
7571	01	01D1D	5BF198D6	A	DATA	X'5BF198D6'	
7572					PAGE		
7573	01	01D1E	FFFFFFF6	A	DATA	-10	DW
7574	01	01D1F	36C00460	A	DW,12	MEMORY	
7575	01	01D20	F73001BF	A	K	15,7,3,FXP8SW	
7576	01	01D21	A730016A	A	K	10,7,3,L8C+2	
7577	01	01D22	1358DF7D	A	DATA	X'1358DF7D'	
7578	01	01D23	19C47069	A	DATA	X'19C47069'	
7579	01	01D24	67B980C1	A	DATA	X'67B980C1'	
7580	01	01D25	67B980C1	A	DATA	X'67B980C1'	
7581	01	01D26	9BAE1B05	A	DATA	X'9BAE1B05'	
7582	01	01D27	2FC7759C	A	DATA	X'2FC7759C'	
7583	01	01D28	FFFFFFF6	A	DATA	-10	DW
7584	01	01D29	36D00460	A	DW,13	MEMORY	
7585	01	01D2A	F73001BF	A	K	15,7,3,FXP8SW	
7586	01	01D2B	A730016A	A	K	10,7,3,L8C+2	
7587	01	01D2C	FFFFFFF6	A	DATA	X'FFFFFFF6'	
7588	01	01D2D	FFFFFFF6	A	DATA	-1	
7589	01	01D2E	26106573	A	DATA	X'26106573'	
7590	01	01D2F	26106573	A	DATA	X'26106573'	
7591	01	01D30	59D73C28	A	DATA	X'59D73C28'	
7592	01	01D31	00000002	A	DATA	X'00000002'	
7593	01	01D32	FFFFFFF6	A	DATA	-10	DW
7594	01	01D33	36D00460	A	DW,13	MEMORY	
7595	01	01D34	F73001BF	A	K	15,7,3,FXP8SW	
7596	01	01D35	A730016A	A	K	10,7,3,L8C+2	
7597	01	01D36	00000000	A	DATA	X'00000000'	
7598	01	01D37	00000000	A	DATA	X'00000000'	

SIGMA 7 CPU DIAGNOSTIC-AUT0 704044-51800			MARCH 10, 1969		221
7599	01 01D38	F1A3C842 A	DATA	X'F1A3C842'	
7600	01 01D39	F1A3C842 A	DATA	X'F1A3C842'	
7601	01 01D3A	CD2A3C71 A	DATA	X'CD2A3C71'	
7602	01 01D3B	00000003 A	DATA	X'00000003'	
7603			PAGE		
7604	01 01D3C	FFFFFFFF6 A	DW73	DATA -10	DW
7605	01 01D3D	36D00460	DW,13	MEMORY	
7606	01 01D3E	F73001BF	K	15,7,3,FXP8SW	
7607	01 01D3F	A730016A	K	10,7,3,L8C+2	
7608	01 01D40	FFFFFFFF A	DATA	X'FFFFFFFF'	
7609	01 01D41	FFFFFFFF A	DATA	X'FFFFFFFF'	
7610	01 01D42	00000002 A	DATA	X'00000002'	
7611	01 01D43	00000002 A	DATA	X'00000002'	
7612	01 01D44	7FFFFFFFF A	DATA	X'7FFFFFFFF'	
7613	01 01D45	3FFFFFFFF A	DATA	X'3FFFFFFFF'	
7614	01 01D46	FFFFFFFF6 A	DW74	DATA -10	DW
7615	01 01D47	36D00460	DW,13	MEMORY	
7616	01 01D48	F73001BF	K	15,7,3,FXP8SW	
7617	01 01D49	8730016A	K	8,7,3,L8C+2	
7618	01 01D4A	00000000 A	DATA	X'00000000'	
7619	01 01D4B	00000000 A	DATA	X'00000000'	
7620	01 01D4C	42486CEA A	DATA	X'42486CEA'	
7621	01 01D4D	42486CEA A	DATA	X'42486CEA'	
7622	01 01D4E	FC7CF1CC A	DATA	X'FC7CF1CC'	
7623	01 01D4F	00000000 A	DATA	X'00000000'	
7624	01 01D50	7FFFFFFFF6 A	DW75	DATA -10	DW
7625	01 01D51	36D00460	DW,13	MEMORY	
7626	01 01D52	F73001BF	K	15,7,3,FXP8SW	
7627	01 01D53	A730016A	K	10,7,3,L8C+2	
7628	01 01D54	FFFFFFFF A	DATA	X'FFFFFFFF'	
7629	01 01D55	FFFFFFFF A	DATA	X'FFFFFFFF'	
7630	01 01D56	2C76B150 A	DATA	X'2C76B150'	
7631	01 01D57	2C76B150 A	DATA	X'2C76B150'	
7632	01 01D58	475E3AF9 A	DATA	X'475E3AF9'	
7633	01 01D59	00000001 A	DATA	X'00000001'	
7634			PAGE		
7635	01 01D5A	FFFFFFFF6 A	DW76	DATA -10	DW

SIGMA 7 CPU DIAGNOSTIC-AUT0 704044-51800			MARCH 10, 1969		222
7636	01 01D5B	36D00460	DW,13	MEMORY	
7637	01 01D5C	F73001BF	K	15,7,3,FXP8SW	
7638	01 01D5D	9730016A	K	9,7,3,L8C+2	
7639	01 01D5E	00000000 A	DATA	X'00000000'	
7640	01 01D5F	00000000 A	DATA	X'00000000'	
7641	01 01D60	00004444 A	DATA	X'00004444'	
7642	01 01D61	00004444 A	DATA	X'00004444'	
7643	01 01D62	D1F375DB A	DATA	X'D1F375DB'	
7644	01 01D63	FFFF5351 A	DATA	X'FFFF5351'	
7645	01 01D64	FFFFFFFF6 A	DW77	DATA -10	DW
7646	01 01D65	36D00460	DW,13	MEMORY	
7647	01 01D66	F73001BF	K	15,7,3,FXP8SW	
7648	01 01D67	A730016A	K	10,7,3,L8C+2	
7649	01 01D68	FFFFFFFF A	DATA	X'FFFFFFFF'	
7650	01 01D69	FFFFFFFF A	DATA	X'FFFFFFFF'	
7651	01 01D6A	7FFFFFFFF A	DATA	X'7FFFFFFFF'	
7652	01 01D6B	7FFFFFFFF A	DATA	X'7FFFFFFFF'	
7653	01 01D6C	7FFFFFFFF A	DATA	X'7FFFFFFFF'	
7654	01 01D6D	00000001 A	DATA	X'00000001'	
7655	01 01D6E	FFFFFFFF6 A	DW78	DATA -10	DW
7656	01 01D6F	36D00460	DW,13	MEMORY	
7657	01 01D70	F73001BF	K	15,7,3,FXP8SW	
7658	01 01D71	9730016A	K	9,7,3,L8C+2	
7659	01 01D72	00000000 A	DATA	X'00000000'	
7660	01 01D73	00000000 A	DATA	X'00000000'	
7661	01 01D74	00000004 A	DATA	X'00000004'	
7662	01 01D75	00000004 A	DATA	X'00000004'	
7663	01 01D76	FFFFFFFFE1 A	DATA	X'FFFFFFFFE1'	
7664	01 01D77	FFFFFFFF9 A	DATA	X'FFFFFFFF9'	
7665			PAGE		
7666	01 01D78	FFFFFFFF6 A	DW79	DATA -10	DW
7667	01 01D79	36D00460	DW,13	MEMORY	
7668	01 01D7A	F73001BF	K	15,7,3,FXP8SW	
7669	01 01D7B	8730016A	K	8,7,3,L8C+2	
7670	01 01D7C	FFFFFFFF A	DATA	X'FFFFFFFF'	
7671	01 01D7D	FFFFFFFF A	DATA	X'FFFFFFFF'	
7672	01 01D7E	55555555 A	DATA	X'55555555'	

SIGMA 7 CPU DIAGNOSTIC-AUT8 704044-51800 MARCH 10,1969 223

7673	01	01D7E	55555555 A		DATA	X'55555555'	
7674	01	01D80	000396FC A		DATA	X'000396FC'	
7675	01	01D81	00000000 A		DATA	X'00000000'	
7676	01	01D82	FFFFFFF6 A	DW80	DATA	-10	DW
7677	01	01D83	36D00460		DW,13	MEMORY	
7678	01	01D84	F73001BF		K	15,7,3,FXP8SW	
7679	01	01D85	A730016A		K	10,7,3,L8C+2	
7680	01	01D86	00000000 A		DATA	X'00000000'	
7681	01	01D87	00000000 A		DATA	X'00000000'	
7682	01	01D88	FFFFFFFA A		DATA	X'FFFFFFFA'	
7683	01	01D89	FFFFFFFA A		DATA	X'FFFFFFFA'	
7684	01	01D8A	80000001 A		DATA	X'80000001'	
7685	01	01D8B	15555555 A		DATA	X'15555555'	
7686					PAGE		
7687	01	01D8C	FFFFFFF6 A	DH01	DATA	-10	DH
7688	01	01D8D	56C00460		DH,12	MEMORY	
7689	01	01D8E	F73001BF		K	15,7,3,FXP8SW	
7690	01	01D8F	A730016A		K	10,7,3,L8C+2	
7691	01	01D90	3FFFFFFF A		DATA	X'3FFFFFFF'	
7692	01	01D91	3FFFFFFF A		DATA	X'3FFFFFFF'	
7693	01	01D92	00010000 A		DATA	X'00010000'	
7694	01	01D93	00010000 A		DATA	X'00010000'	
7695	01	01D94	00000000 A		DATA	X'00000000'	
7696	01	01D95	00000000 A		DATA	X'00000000'	
7697	01	01D96	FFFFFFF6 A	DH02	DATA	-10	DH
7698	01	01D97	56C00460		DH,12	MEMORY	
7699	01	01D98	F73001BF		K	15,7,3,FXP8SW	
7700	01	01D99	A730016A		K	10,7,3,L8C+2	
7701	01	01DA0	C0000000 A		DATA	X'C0000000'	
7702	01	01DA1	20000000 A		DATA	X'20000000'	
7703	01	01DA2	FFFE0000 A		DATA	X'FFFE0000'	
7704	01	01DA3	FFFE0000 A		DATA	X'FFFE0000'	
7705	01	01DA4	00000000 A		DATA	X'00000000'	
7706	01	01DA5	00000000 A		DATA	X'00000000'	
7707	01	01DA6	FFFFFFF6 A	DH03	DATA	-10	DH X
7708	01	01DA7	56C00460		DH,12	MEMORY,7	
7709	01	01DA8	F73001BF		K	15,7,3,FXP8SW	

SIGMA 7 CPU DIAGNOSTIC-AUT8 704044-51800 MARCH 10,1969 224

7710	01	01DA3	9730016A		K	9,7,3,L8C+2	
7711	01	01DA4	AAAAAAAA A		DATA	X'AAAAAAAA'	
7712	01	01DA5	AAAAAAAA A		DATA	X'AAAAAAAA'	
7713	01	01DA6	00000001 A		DATA	X'00000001'	
7714	01	01DA7	00000001 A		DATA	X'00000001'	
7715	01	01DA8	00000000 A		DATA	X'00000000'	
7716	01	01DA9	00000000 A		DATA	X'00000000'	
7717					PAGE		
7718	01	01DAA	FFFFFFF6 A	DH04	DATA	-10	DH X
7719	01	01DAB	56C00460		DH,12	MEMORY,7	
7720	01	01DAC	F73001BF		K	15,7,3,FXP8SW	
7721	01	01DAD	9730016A		K	9,7,3,L8C+2	
7722	01	01DAE	25555555 A		DATA	X'25555555'	
7723	01	01DAF	ED555556 A		DATA	X'ED555556'	
7724	01	01DB0	0000FFFE A		DATA	X'0000FFFE'	
7725	01	01DB1	0000FFFE A		DATA	X'0000FFFE'	
7726	01	01DB2	00000000 A		DATA	X'00000000'	
7727	01	01DB3	00000000 A		DATA	X'00000000'	
7728	01	01DB4	FFFFFFF6 A	DH05	DATA	-10	DH
7729	01	01DB5	56D00460		DH,13	MEMORY	
7730	01	01DB6	F73001BF		K	15,7,3,FXP8SW	
7731	01	01DB7	A730016A		K	10,7,3,L8C+2	
7732	01	01DB8	00000000 A		DATA	X'00000000'	
7733	01	01DB9	00000000 A		DATA	X'00000000'	
7734	01	01DBA	40000000 A		DATA	X'40000000'	
7735	01	01DBB	40000000 A		DATA	X'40000000'	
7736	01	01DBC	3FFFFFFF A		DATA	X'3FFFFFFF'	
7737	01	01DBD	0000FFFE A		DATA	X'0000FFFE'	
7738	01	01DBE	FFFFFFF6 A	DH06	DATA	-10	DH
7739	01	01DBF	56D00460		DH,13	MEMORY	
7740	01	01DC0	F73001BF		K	15,7,3,FXP8SW	
7741	01	01DC1	A730016A		K	10,7,3,L8C+2	
7742	01	01DC2	00000000 A		DATA	X'00000000'	
7743	01	01DC3	00000000 A		DATA	X'00000000'	
7744	01	01DC4	B7770000 A		DATA	X'B7770000'	
7745	01	01DC5	B7770000 A		DATA	X'B7770000'	
7746	01	01DC6	C0000000 A		DATA	X'C0000000'	

7747	01	01DC7	0000E1E0 A		DATA	X'0000E1E0'	
7748					PAGE		
7749	01	01DC8	FFFFFFF6 A	DH07	DATA	-10	DH X
7750	01	01DC9	56DE0460		DH,13	MEMORY,7	
7751	01	01DCA	F73001BF		K	15,7,3,FXPSW	
7752	01	01DCB	9730016A		K	9,7,3,L8C+2	
7753	01	01DCC	00000000 A		DATA	X'00000000'	
7754	01	01DCD	00000000 A		DATA	X'00000000'	
7755	01	01DCE	00004000 A		DATA	X'00004000'	
7756	01	01DCF	00004000 A		DATA	X'00004000'	
7757	01	01DD0	AAAAAAAA A		DATA	X'AAAAAAAA'	
7758	01	01DD1	FFFEAAAB A		DATA	X'FFFEAAAB'	
7759	01	01DD2	FFFFFFF6 A	DH08	DATA	-10	DH *X
7760	01	01DD3	D6D2045A		DH,13	+1A,1	
7761	01	01DD4	F73001BF		K	15,7,3,FXPSW	
7762	01	01DD5	9730016A		K	9,7,3,L8C+2	
7763	01	01DD6	00000001 A		DATA	1	
7764	01	01DD7	00000001 A		DATA	1	
7765	01	01DD8	0000B777 A		DATA	X'0000B777'	
7766	01	01DD9	0000B777 A		DATA	X'0000B777'	
7767	01	01DDA	25555555 A		DATA	X'25555555'	
7768	01	01DDB	FFFF7C3E A		DATA	X'FFFF7C3E'	
7769	01	01DDC	00000000 A		DATA	0	
7770		01 00294			END	SETRPLY	

SDS 900872

SECTION V
CONCORDANCE LISTING

ABSVAL	54/D8	54/D8	86/SET	86/SET	87/D8	87/D8	88/8RG
ADRFRM	268/AND	973-DATA					
AD01	4268-DATA						
AD02	4280-DATA						
AD03	4292-DATA						
AD04	4305-DATA						
AD05	4318-DATA						
AD06	4327-DATA						
AF	42/GEN 86/SET	48/GEN 86/SET	48/GEN 86/SET	54/D8 87/D8	68/GEN 87/D8	68/GEN 87/D8	77/GEN
AFA	68/GEN	77/GEN					
AH01	4220-DATA						
AH02	4228-DATA						
AH03	4236-DATA						
AH04	4244-DATA						
AI	61/OPEN						
AI	61/OPEN	71-CNAME					
AI8	920/EXU	921/EXU	922/EXU	925/DATA	926-AI8		
AI01	4251-DATA						

AI02	4257-DATA						
AI03	4263-DATA						
ANDF	727/STW	749-AND					
ANDM	729/STW	738-AND					
AND01	3505-DATA						
AND02	3513-DATA						
AND03	3521-DATA						
AND04	3529-DATA						
AND05	3538-DATA						
AND06	3546-DATA						
ANFR8	714/LW	972-AND					
ANFR2	720/LW	974-AND					
ANLZ01	3400-DATA						
ANLZ02	3412-DATA						
ANLZ03	3424-DATA						
ANLZ04	3436-DATA						
ANLZ05	3447-DATA						
ANLZ06	3459-DATA						
ANLZ07							

SIGMA 7 CPU DIAGNOSTIC-AUTB 704044-51B00 MARCH 10,1969

3

ANLZ08 3472-DATA
ANLZ09 3482-DATA
ANLZ09 3493-DATA
ANMK 721/LW 975-AND
AUTB 396-LW 843/BCR 848/B
AWM01 4336-DATA
AWM02 4344-DATA
AWM03 4353-DATA
AWM04 4362-DATA
AW01 1378-DATA
AW02 1382-DATA
AW03 1390-DATA
AW04 1401-DATA
AW05 1415-DATA
AW06 1434-DATA
AW07 1442-DATA
AW08 1451-DATA
AW09 1459-DATA
AW10 1467-DATA

SIGMA 7 CPU DIAGNOSTIC-AUTB 704044-51B00 MARCH 10,1969

4

AW11 1475-DATA
AW12 1484-DATA
AW13 1492-DATA
AW14 1500-DATA
AW15 1508-DATA
AW16 1517-DATA
AW17 1525-DATA
AW18 1533-DATA
AW19 1541-DATA
AW20 1550-DATA
AW21 1558-DATA
AW22 1566-DATA
AW23 1574-DATA
AW24 1583-DATA
AW25 1591-DATA
AW26 1604-DATA
AW27 1614-DATA
AW28 1622-DATA
AW29

1634-DATA
 AW30 1644-DATA
 AW31 1653-DATA
 AW32 1662-DATA
 AW33 1674-DATA
 AW34 1684-DATA
 AW35 1694-DATA
 AW36 1702-DATA
 AW37 1712-DATA
 AW38 1722-DATA
 AW39 1731-DATA
 AW40 1742-DATA
 AW41 1750-DATA
 AW42 1758-DATA
 AW43 1768-DATA
 AW44 1779-DATA
 AW45 1788-DATA
 AW46 1794-DATA
 AW47 1800-DATA

BA	48/GEN 2647/DATA	943/GEN 2648/DATA	953/GEN 3429/DATA	956/GEN	964/GEN	967/GEN	1155/GEN
BAL01	897/BR	2008-DATA					
BAL02	2014-DATA						
BAL03	2025-DATA						
BAL04	2033-DATA						
BAL05	407/STW	898/STW	2042-DATA				
BCR01	1851-DATA						
BCR02	1860-DATA						
BCR03	1867-DATA						
BCR04	1872-DATA						
BCR05	1877-DATA						
BCR06	1883-DATA						
BCS01	1891-DATA						
BCS02	1897-DATA						
BCS03	1902-DATA						
BDR01	1957-DATA						
BDR02	1963-DATA						
BDR03	1969-DATA						

BDR04	1975-DATA						
BDR05	1981-DATA						
BDR06	1990-DATA						
BDR07	1996-DATA						
BIND	84-CNAME						
BIR01	1911-DATA						
BIR02	1917-DATA						
BIR03	1923-DATA						
BIR04	1931-DATA						
BIR05	1940-DATA						
BIR06	1950-DATA						
BIT	736/LW	741/LW	1000/LW	1052-DATA			
BITS	734-STW	744-BIR					
BLANK	1199-DATA						
BRANCH	187-XPSD	1248/EQU	1292/EXU	1307/DATA	1308/DATA	1315/PZE	1316/PZE
	1868/BCR	1873/BCR	1878/BCR	1884/BCR	1892/BCS	1898/BCS	1912/BIR
	1918/BIR	1920/DATA	1951/BIR	1958/BDR	1960/K	1964/BDR	1970/BDR
	1972/K	1976/BDR	1978/K	1991/BDR	1999/K	2002/DATA	2003/DATA
	2009/BAL	2011/K	2036/K	2037/DATA	2154/LW	2157/PZE*	2332/LD
	2335/DATA	2348/DATA	2638/LCF	2647/DATA	2648/DATA	2649/DATA	2650/DATA
	2943/LCH	2946/DATA					
BREND							

BUMP	402/LW	974-B					
BUMPER	740/LPSD	1230-PZE					
BUSY	743-BIR	1230/PZE					
BYTE	822-SIO	824/BCR	829/BEZ				
BYTES	573/LW	748/LW	860/LW	861/FAS	1001/LW	1095-DATA	1245/EQU
	727-STW	753/BIR					
C	425/LW	435/LW	1249-EQU				
CAL01	5521-DATA						
CAL02	5525-DATA						
CAL03	5529-DATA						
CAL04	5533-DATA						
CAL05	5540-DATA						
CAL06	5548-DATA						
CAL07	5553-DATA						
CAL1	188-XPSD	275-PZE	626/STW	980/PZE	995/XPSD		
CAL1AD	625/EBR	980-PZE					
CAL1TR	188-XPSD	624/STW					
CAL1XD	623/EBR	995-XPSD					
CAL2	189/XPSD	298-PZE	633/STW	981/PZE	996/XPSD		

CAL2AD	632/EOR	981-PZE			
CAL2TR	189-XPSD	631/STW			
CAL2XD	630/EOR	996-XP6D			
CAL3	190/XPSD	321-PZE	640/STW	982/PZE	997/XPSD
CAL3AD	639/EOR	982-PZE			
CAL3TR	190-XPSD	638/STW			
CAL3XD	637/EOR	997-XP6D			
CAL4	191/XPSD	344-PZE	647/STW	983/PZE	998/XPSD
CAL4AD	646/EOR	983-PZE			
CAL4TR	191-XPSD	645/STW			
CAL4XD	644/EOR	998-XP6D			
CB01	3758-DATA				
CB02	3766-DATA				
CB03	3774-DATA				
CB04	3782-DATA				
CB05	3791-DATA				
CB06	3799-DATA				
CB07	3807-DATA				
CB08					

	3815-DATA		
CD01	3871-DATA		
CD02	3883-DATA		
CD03	3896-DATA		
CD04	3908-DATA		
CEE	552/EOR	1018-DATA	
CF	68/GEN	77/GEN	
CH01	3700-DATA		
CH02	3708-DATA		
CH03	3716-DATA		
CH04	3724-DATA		
CH05	3733-DATA		
CH06	3741-DATA		
CH07	3749-DATA		
CI	61/BPEN		
CI	61/BPEN	72-CNAME	
CI01	3824-DATA		
CI02	3830-DATA		
CI03	3836-DATA		

CI04	3842-DATA						
CI05	3848-DATA						
CI06	3854-DATA						
CI07	3861-DATA						
CI08	3865-DATA						
CLEAR	421-STW 2659/DATA	424/BIR 2660/DATA	2227/DATA	2228/DATA	2229/DATA	2230/DATA	2656/LCF
CLM01	4036-DATA						
CLM02	4049-DATA						
CLM03	4061-DATA						
CLM04	4065-DATA						
CLR01	3983-DATA						
CLR02	3993-DATA						
CLR03	4003-DATA						
CLR04	4014-DATA						
CLR05	4024-DATA						
CNT1CP	193/MTW	1236-PZE					
CNT2CP	194/MTW	1237-PZE					
CNT3CP	195/MTW	1238-PZE					

CNT3Z	1255-EQU						
CNT4CP	196/MTW	1239-PZE					
CNT4Z	1256-EQU						
COMP	943/GEN	944-TEXTC					
CBND	450/AND	455/AND	1013-DATA				
CBUNT	710/STW	762/LW	1240-PZE				
EPAN1	152/DATA	389-AND					
CPINT	372/LW 1266/LW	382/LW 1271/STW	390/STW	398/STW	481/LW	911/STW	1040-DATA
CPINTH	392/STW	847/STW	906/LW	1041-DATA	1280/STW		
CS01	3921-DATA						
CS02	3931-DATA						
CS03	3941-DATA						
CS04	3952-DATA						
CS05	3962-DATA						
CS06	3972-DATA						
CW01	3648-DATA						
CW02	3656-DATA						
CW04	3662-DATA						

CW05	3671-DATA					
CW06	3679-DATA					
CW07	3687-DATA					
CW08	3695-DATA					
CYCLE	413-LW 907/BEZ 2217/DATA	580/BCS 912/B 2218/DATA	659/BNE 923/B	664/B 925/DATA	892/BE 1232/PZE	903/BNE 2215/DATA 905/BNE 2216/DATA
C1RET	279-XPSD	1324/PZE	1325/PZE	5524/K		
C2RET	302-XPSD	5528/K				
C3RET	325-XPSD	5532/K				
C4RET	348-XPSD	5536/K	5543/K	5551/K	5556/K	
DA	42/GEN	990/PZE	3409/DATA	3444/DATA		
DECEDT	877/LW	985-EBB				
DECI	870-DL	873/LW				
DECIN	873-LW	960/DATA				
DECN	868/LW	960-DATA				
DECP	964/GEN	965-TEXTC				
DECPAK	875/LW	984-PACK				
DECPT	961/P	964-GEN				
DECWRD						

DF	870/DL	959-DATA			
DFAD	185/XPSD	253-PZE	257/LCF	614/STW	986/PZE
DFRET	613/EOR	986-PZE			
DFSW	258-XPSD				
DFTR	613-EOR				
DH01	185-XPSD				
DH02	7687-DATA				
DH03	7697-DATA				
DH04	7707-DATA				
DH05	7718-DATA				
DH06	7728-DATA				
DH07	7738-DATA				
DH08	7749-DATA				
DH09	7759-DATA				
DONE	429/B	853-CI			
DONEMSG	823/BCR	831-TIB	833/BCR	838/BEZ	
DW01	6860-DATA				
DW02	6870-DATA				
DW03	6880-DATA				

DW04 6891-DATA
DW05 6901-DATA
DW06 6911-DATA
DW07 6922-DATA
DW08 6932-DATA
DW09 6942-DATA
DW10 6953-DATA
DW11 6963-DATA
DW12 6973-DATA
DW13 6984-DATA
DW14 6994-DATA
DW15 7004-DATA
DW16 7015-DATA
DW17 7025-DATA
DW18 7035-DATA
DW19 7046-DATA
DW20 7056-DATA
DW21 7066-DATA
DW22

7077-DATA
DW23 7087-DATA
DW24 7097-DATA
DW25 7108-DATA
DW26 7118-DATA
DW27 7128-DATA
DW28 7139-DATA
DW29 7149-DATA
DW30 7159-DATA
DW31 7170-DATA
DW32 7180-DATA
DW33 7190-DATA
DW34 7201-DATA
DW35 7211-DATA
DW36 7221-DATA
DW37 7232-DATA
DW38 7242-DATA
DW39 7252-DATA
DW40 7263-DATA

DW41 7273-DATA
DW42 7283-DATA
DW43 7294-DATA
DW44 7304-DATA
DW45 7314-DATA
DW46 7325-DATA
DW47 7335-DATA
DW48 7345-DATA
DW49 7356-DATA
DW50 7366-DATA
DW51 7376-DATA
DW52 7387-DATA
DW53 7397-DATA
DW54 7407-DATA
DW55 7418-DATA
DW56 7428-DATA
DW57 7438-DATA
DW58 7449-DATA
DW59

7459-DATA
DW60 7469-DATA
DW61 7480-DATA
DW62 7490-DATA
DW63 7500-DATA
DW64 7511-DATA
DW65 7521-DATA
DW66 7531-DATA
DW67 7542-DATA
DW68 7552-DATA
DW69 7562-DATA
DW70 7573-DATA
DW71 7583-DATA
DW72 7593-DATA
DW73 7604-DATA
DW74 7614-DATA
DW75 7624-DATA
DW76 7635-DATA
DW77 7645-DATA

DW78	7655-DATA						
DW79	7666-DATA						
DW80	7676-DATA						
EDIT	686/BCR	701-LW					
END	575-WD 5732/B	976/B 5738/B	1009/PZE 5747/B	2043/B	3380/INT	3383/DATA	5726/B
EBR01	3553-DATA						
EBR02	3561-DATA						
EBR03	3569-DATA						
EBR04	3577-DATA						
EBR05	3586-DATA						
ERREXIT	495/BNE	500/B	508-LW				
ERRIND	569/LW	574/STW	583-DATA	682/STW			
ERRBR	524/XPSD 555/XPSD	528/XPSD 559/XPSD	533/XPSD 563/XPSD	537/XPSD 567/XPSD	541/XPSD 667-PZE	545/XPSD 674/LPSD	549/XPSD 698/LPSC
ERRBRS	385/LW	417/STW	512/LW	576/LW	676/STW	1241-PZE	1269/LW
EVEN	717-LW						
EXITI8	826/B	830/B	832/BCR	835/B	839-LPSD		
EXU01	1285-DATA						
EXU02							

EXU03	1291-DATA			
EXU04	1295-DATA			
EXU05	1303-DATA			
EXU06	1309-DATA			
EXU07	1318-DATA			
EXU08	1328-DATA			
EXU08	1336-DATA			
F	27-EQU	5549/CAL4	5554/CAL4	5603/K
FAPRIVO1	5600-DATA			
FAPRIVO4	5616-DATA			
FAPRIVO3	5610-DATA			
FAPRIVO2	5605-DATA			
FAPSD01	2050-DATA			
FAPSD02	2070-DATA			
FAPSD03	2085-DATA			
FARWD	652-RD	5568/DATA	5571/DATA	
FARWD01	5564-DATA			
FARWD02	5569-DATA			
FASTCHK	494-CD	506/BDR		

FILL							
52-CNAME							
FILTER	749/AND	972/AND	974/AND	1076-DATA			
FIRST	411/STW	769/LW	787/STW	1022-DATA			
FLM	953/GEN	954-TEXTC					
FLNI	858/LW	946-DATA					
FLNIN	852/DATA	864-LW	946/DATA				
FLBAT	861-FAS	864/LW					
FLBAP	949/P	953-GEN					
FLPF	184/XPSD	245-PZE	249/LCF	610/STW	987/PZE		
FLPFAD	609/EOR	987-PZE					
FLPFSW	609-EOR	5238/K	5250/K	5262/K	5275/K	5287/K	5299/K
	5312/K	5324/K	5336/K	5349/K	5361/K	5373/K	5386/K
	5398/K	5410/K	5423/K	5435/K	5447/K	5460/K	5472/K
	5484/K	5497/K	5509/K				
FLPFTR	184-XPSD						
FLPRINT	863/B	867-XP8D					
FPFRET	250-XPSD						
FP8RET	242-XPSD	1753/K	1761/K	1821/K	2729/K	2835/K	2895/K
	3012/K	4103/K	4148/K	4247/K	4280/K	4283/K	4339/K
	4379/K	4408/K	4433/K	6873/K	6893/K	6894/K	6904/K
	7400/K	7421/K	7472/K				
FRAME							

FR8M							
	726/LW	1006/LW	1007/LW	1063-DATA			
FXPA2	433/STW	435-LW	440/STW	581/LW			
FXP8	605/EOR	988-DATA					
FXP8AD	183/XPSD	237-PZE	241/LCF	267/LW	270/LCF	602/STW	606/STW
	989/PZE						
FXP8SW	601/EOR	989-PZE					
	601-EOR	1417/K	1436/K	1444/K	1453/K	1461/K	1469/K
	1477/K	1486/K	1494/K	1502/K	1510/K	1519/K	1527/K
	1535/K	1543/K	1552/K	1560/K	1568/K	1576/K	1585/K
	1593/K	1606/K	1616/K	1624/K	1636/K	1646/K	1655/K
	1664/K	1676/K	1686/K	1696/K	1704/K	1714/K	1724/K
	1733/K	1744/K	1752/K	1760/K	1816/K	1820/K	1828/K
	1843/R	2728/K	2834/K	2894/K	3011/K	4081/K	4102/K
	4137/K	4147/K	4222/K	4230/K	4238/K	4246/K	4253/K
	4259/K	4270/K	4282/K	4294/K	4307/K	4338/K	4346/K
	4355/K	4370/K	4378/K	4407/K	4419/K	4432/K	4559/K
	4565/K	4571/K	4577/K	4832/K	4863/K	4869/K	4882/K
	4902/R	4933/K	5760/K	5770/K	5780/K	5791/K	5801/K
	5811/K	5822/K	5832/K	5842/K	5853/K	5863/K	5873/K
	5884/K	5894/R	5904/K	5915/K	5925/K	5935/K	5946/K
	5956/K	5966/K	5977/K	5987/K	5997/K	6008/K	6018/K
	6028/K	6039/K	6049/K	6059/K	6070/K	6080/K	6090/K
	6101/K	6111/K	6121/K	6132/K	6142/K	6152/K	6163/K
	6173/R	6183/K	6194/K	6204/K	6214/K	6225/K	6235/K
	6245/R	6256/K	6266/K	6276/K	6287/K	6297/K	6307/K
	6318/R	6328/K	6338/K	6349/K	6359/K	6369/K	6380/K
	6390/K	6400/K	6411/K	6421/K	6431/K	6442/K	6452/K
	6462/K	6473/K	6483/K	6493/K	6504/K	6514/K	6524/K
	6535/K	6548/K	6555/K	6566/K	6576/K	6586/K	6597/K
	6607/K	6617/R	6628/K	6638/K	6648/K	6659/K	6669/K
	6679/K	6690/R	6700/K	6710/K	6721/K	6731/K	6741/K
	6752/K	6762/K	6773/K	6783/K	6793/K	6804/K	6814/K

SIGMA 7 CPU DIAGNOSTIC-AUT8 704044-51B00 MARCH 10,1969							23
6824/K	6839/K	6845/K	6862/K	6872/K	6882/K	6893/K	
6903/K	6913/K	6924/K	6934/K	6944/K	6955/K	6965/K	
6975/K	6986/K	6996/K	7006/K	7017/K	7027/K	7037/K	
7048/K	7058/K	7068/K	7079/K	7089/K	7099/K	7110/K	
7120/K	7130/K	7141/K	7151/K	7161/K	7172/K	7182/K	
7192/K	7203/K	7213/K	7223/K	7234/K	7244/K	7254/K	
7265/K	7275/K	7285/K	7296/K	7306/K	7316/K	7327/K	
7337/K	7347/K	7358/K	7368/K	7378/K	7389/K	7399/K	
7409/K	7420/K	7430/K	7440/K	7451/K	7461/K	7471/K	
7482/K	7492/K	7502/K	7513/K	7523/K	7533/K	7544/K	
7554/K	7564/K	7575/K	7585/K	7595/K	7606/K	7616/K	
7626/K	7637/K	7647/K	7657/K	7668/K	7678/K	7689/K	
7699/K	7709/K	7720/K	7730/K	7740/K	7751/K	7761/K	
FXP8TR	183-XPSD						
FXPSW2	267-LW	988/DATA					
FXPS2	605-EOR	2749/K					
FXPS22	271-XPSD	2750/K					
GETBUT	789/LPSD	792-PZE					
G8TOP	804/BIR	810-LW					
G1	66-EQU	68-GEN					
G2	75-EQU	77-GEN					
HA	2227/DATA	2228/DATA	2770/DATA	3464/DATA	3491/DATA		
H0G	1128/J	1152/J	1176-DATA				
HEAD	1115/P	1128-J					
HLTEST	689/B	693-RD	792/PZE				

SIGMA 7 CPU DIAGNOSTIC-AUT8 704044-51B00 MARCH 10,1969							24
I	32-F8RM	422/STW	436/STW	1250-EQU			
IA	465/STW	531/LW	1253-EQU	1360/LCF*	1383/AW*	1685/AW*	
	1932/BIR*	1982/BDR*	2026/BAL*	2146/LW*	2183/LH*	2261/LB*	
	2320/LD*	2345/LO*	2382/LD*	2513/LS*	2604/LS*	2719/LAW*	
	2821/LAD*	2902/LCW*	2935/LCH*	2985/LCD*	3049/STW*	3074/STH*	
	3172/STD*	3318/STCF*	3351/XW*	3390/INT*	3406/AD*	3407/AD*	
	3570/EOR*	3614/DR*	3663/CW*	3717/CH*	3792/CB*	3866/CI*	
	3942/CS*	4004/CLR*	4062/CLM*	4101/MTW*	4136/MTH*	4179/MTB*	
	4264/AI*	4293/AD*	4354/AWM*	4363/AWM*	4385/SH*	4406/SD*	
	6761/MH*	6854/PI*	7181/DW*	7760/DH*		6565/MW*	
IAID	530/LW	1032-I					
IMAGE	754/STW	1011/STW	1130/J	1132/J	1140/J	1144/J	
IMP	881/LW	947-XPSD				1197-DATA	
INDA	463/LW	532/LW	977-PZE				
INITIATE	656-CW	854/BNE					
INST	462/STW	504/EXU	1252-EQU	3041/STW	3044/DATA	3045/DATA	
INSTID	521/LW	1030-I				3047/DATA	
INT01	3369-DATA						
INT02	3379-DATA						
INT03	3389-DATA						
IO	783/BCS	785-XPSD	797/B	809/B			
IOCOMP	937/P	943-GEN					
IOINT							

1051-DATA
IBINTR 200/XPSD 925-DATA 935/LPSD
10M 678/LW 696/LW 918/STW 936-DATA
ITERATE 399/STW 478/LW 508/LW 663/STW 1033-DATA
IXID 534/LW 1034-I
IX01 5577-DATA 5578/EER 5580/DATA 5580/DATA 5580/DATA
IX02 5582-DATA
IX03 5588-DATA
I9 586/LW 622/LW 629/LW 636/LW 643/LW 1017-DATA
J 46-CNAME
K 34-FORM
LAD01 2783-DATA
LAD02 2795-DATA
LAD03 2807-DATA
LAD04 2820-DATA
LAD05 2832-DATA
LAD06 2844-DATA
LAD07 2857-DATA
LAH01 2758-DATA

LAH02 2766-DATA
LAH03 2774-DATA
LAW01 2702-DATA
LAW02 2710-DATA
LAW03 2718-DATA
LAW04 2726-DATA
LAW05 2739-DATA
LAW06 2747-DATA
LB01 2236-DATA
LB02 2244-DATA
LB03 2252-DATA
LB04 2260-DATA
LB05 2269-DATA
LB06 2277-DATA
LB07 2287-DATA
LB08 2293-DATA
LB09 2302-DATA
LCD01 2960-DATA
LCD02

LCD03 2972-DATA
LCD04 2984-DATA
LCD05 2997-DATA
LCD06 3009-DATA
LCD06 3021-DATA
LCF 61/BPEN
LCF 61/BPEN 64-CNAME
LCFI 61/BPEN
LCFI 61/BPEN 70-CNAME
LCFI01 2669-DATA
LCFI02 2673-DATA
LCFI03 2677-DATA
LCFI04 2681-DATA
LCFI05 2685-DATA
LCFI06 2693-DATA
LCFI07 2697-DATA
LCF01 1343-DATA
LCF02 1347-DATA
LCF03 1351-DATA

LCF04 1355-DATA
LCF05 1359-DATA
LCF06 2637-DATA
LCF07 2643-DATA
LCF08 2655-DATA
LCF09 2663-DATA
LCH01 2918-DATA
LCH02 2926-DATA
LCH03 2934-DATA
LCH04 2942-DATA
LCH05 2951-DATA
LCW01 2870-DATA
LCW02 2878-DATA
LCW03 2886-DATA
LCW04 2892-DATA
LCW05 2901-DATA
LCW06 2909-DATA
LDREG 707/STW 708-LW 763/LW 765/BIR
LD01

LD02 2319-DATA
 LD03 2331-DATA
 LD04 2344-DATA
 LD05 2356-DATA
 LD06 2368-DATA
 LD07 2381-DATA
 LD08 2393-DATA
 LD09 2405-DATA
 LD10 2418-DATA
 LD11 2430-DATA
 LD12 2442-DATA
 LD13 2455-DATA
 LF 47-GEN 48-GEN 68-GEN 77-GEN
 LH01 2166-DATA
 LH02 2174-DATA
 LH03 2182-DATA
 LH04 2190-DATA
 LH05 2196-DATA

LH06 2203-DATA
 LH07 2211-DATA
 LH08 2223-DATA
 LI 61/OPEN
 LI 61/OPEN 73-CNAME
 LINE 409/STW 768/LW 786/STW 1029-DATA
 LINKAD 447/AND 1012-DATA
 LINBUT 773/BIR 781-LW
 LIST 425/LW 435/LW 1008/LW 1284-RES
 LI01 2461-DATA
 LI02 2467-DATA
 LI03 2473-DATA
 LI04 2479-DATA
 LI05 2485-DATA
 LBAD 412/LW 1008-LW
 LBADR 706/LW 1002-LW
 LBC 444/STW 504-EXU 526/LW 978/PZE 979/PZE 1028/B 1031/I
 1228/PZE 1286/EXU 1288/K 1294/DATA 1298/K 1306/K 1312/K
 1321/K 1346/K 1350/K 1354/K 1358/K 1362/K 1381/K
 1385/K 1393/K 1404/K 1418/K 1437/K 1445/K 1454/K

SIGMA 7 CPU DIAGNOSTIC-AUTB 704044-51800 MARCH 10,1969

31

1482/R	1470/K	1478/K	1487/K	1495/K	1503/K	1511/K
1520/R	1528/R	1536/K	1544/K	1553/K	1561/K	1569/K
1577/K	1586/K	1594/K	1607/K	1617/K	1625/K	1637/K
1647/R	1656/R	1665/K	1677/K	1687/K	1697/K	1705/K
1715/R	1725/R	1734/K	1745/K	1771/K	1782/K	1791/K
1797/R	1803/K	1809/K	1817/K	1829/K	1835/K	1844/K
1870/K	1879/R	1880/K	1886/K	1894/K	1900/K	1914/DATA
1953/DATA	1966/R	1993/K	2013/DATA	2023/DATA	2030/DATA	2038/DATA
2047/DATA	2053/K	2066/K	2073/K	2076/K	2077/K	2088/K
2091/R	2092/K	2104/K	2119/K	2134/K	2140/K	2148/K
2156/R	2164/K	2169/K	2177/K	2185/K	2193/K	2199/K
2206/K	2214/K	2226/K	2239/K	2247/K	2255/K	2263/K
2272/R	2280/K	2290/K	2296/K	2305/K	2312/K	2322/K
2334/R	2347/R	2359/K	2371/K	2384/K	2396/K	2408/K
2421/R	2433/R	2445/K	2458/K	2464/K	2470/K	2476/K
2482/K	2495/R	2505/K	2515/K	2526/K	2538/K	2548/K
2559/R	2569/R	2579/K	2585/K	2596/K	2606/K	2616/K
2629/K	2640/K	2646/K	2666/K	2672/DATA	2676/K	2676/K
2680/K	2684/K	2688/K	2700/K	2705/K	2713/K	2721/K
2742/R	2756/DATA	2761/K	2769/K	2777/K	2786/K	2798/K
2810/K	2823/K	2847/K	2860/K	2873/K	2881/K	2889/K
2904/R	2912/K	2921/K	2929/K	2937/K	2945/K	2954/K
2963/R	2979/K	2987/K	3000/K	3024/K	3035/K	3043/K
3051/R	3060/K	3068/K	3076/K	3084/K	3093/K	3101/K
3110/K	3118/R	3126/K	3132/K	3141/K	3150/K	3162/K
3174/R	3187/R	3200/R	3210/K	3220/K	3231/K	3241/K
3251/K	3262/R	3272/K	3282/K	3293/K	3304/K	3312/K
3320/K	3328/R	3337/K	3345/K	3353/K	3361/K	3372/K
3382/R	3392/R	3403/K	3415/K	3427/K	3439/K	3450/K
3462/K	3475/K	3485/K	3496/K	3508/K	3516/K	3524/K
3532/K	3541/K	3549/K	3556/K	3564/K	3572/K	3580/K
3589/R	3597/R	3603/K	3607/K	3616/K	3624/K	3632/K
3651/R	3659/K	3665/K	3674/K	3682/K	3690/K	3698/K
3703/K	3711/K	3719/K	3727/K	3736/K	3744/K	3752/K
3761/R	3769/R	3777/K	3785/K	3794/K	3802/K	3810/K
3818/K	3827/K	3833/K	3839/K	3845/K	3851/K	3857/K
3864/K	3874/R	3886/K	3899/K	3911/K	3924/K	3934/K

SIGMA 7 CPU DIAGNOSTIC-AUTB 704044-51800 MARCH 10,1969

32

3944/K	3958/K	3965/K	3975/K	3986/K	3996/K	4006/K
4017/K	4027/K	4039/K	4052/K	4064/K	4068/K	4082/K
4088/K	4094/K	4112/K	4123/K	4129/K	4138/K	4156/K
4165/R	4173/R	4181/K	4189/K	4198/K	4204/K	4210/K
4216/K	4223/K	4231/K	4239/K	4254/K	4271/K	4295/K
4308/R	4321/K	4330/K	4347/K	4356/K	4365/K	4371/K
4387/R	4396/K	4420/K	4448/K	4454/K	4460/K	4467/K
4473/K	4479/R	4486/K	4493/K	4500/K	4506/K	4511/DATA
4517/DATA	4521/DATA	4526/DATA	4531/DATA	4535/DATA	4540/DATA	4546/DATA
4550/DATA	4559/DATA	4560/K	4566/K	4572/K	4578/K	4584/K
4590/K	4597/K	4605/K	4611/K	4617/K	4623/K	4630/K
4638/R	4644/K	4650/K	4656/K	4663/K	4669/K	4675/K
4681/K	4687/K	4693/K	4700/K	4706/K	4712/K	4718/K
4724/R	4730/R	4737/K	4743/K	4749/K	4755/K	4761/K
4772/R	4782/R	4792/K	4803/K	4813/K	4823/K	4833/K
4840/DATA	4846/DATA	4852/DATA	4858/DATA	4864/K	4870/K	4877/DATA
4883/K	4893/DATA	4903/K	4914/DATA	4924/DATA	4934/K	4946/K
4952/K	4958/K	4965/K	4971/K	4977/K	4984/K	4990/K
4996/K	5003/R	5009/K	5015/K	5022/K	5028/K	5034/K
5040/DATA	5045/R	5055/K	5061/K	5066/K	5073/K	5078/K
5083/K	5089/K	5094/K	5099/K	5105/K	5110/K	5115/K
5121/R	5126/R	5132/K	5137/K	5145/K	5150/K	5155/K
5161/R	5166/R	5171/K	5177/K	5182/K	5187/K	5193/K
5198/R	5203/K	5209/K	5214/K	5219/K	5225/K	5232/K
5239/K	5251/K	5263/K	5276/K	5288/K	5300/K	5313/K
5325/R	5337/R	5350/K	5362/K	5374/K	5387/K	5399/K
5411/K	5424/R	5436/K	5448/K	5461/K	5473/K	5485/K
5498/R	5510/K	5567/DATA	5572/DATA	5579/DATA	5585/K	5591/K
5608/K	5613/R	5761/K	5771/K	5781/K	5792/K	5802/K
5812/K	5823/R	5833/K	5843/K	5854/K	5864/K	5874/K
5885/K	5899/R	5905/K	5916/K	5926/K	5936/K	5947/K
5957/R	5967/R	5978/K	5988/K	5998/K	6009/K	6019/K
6029/K	6040/R	6050/K	6060/K	6071/K	6081/K	6091/K
6102/R	6112/K	6122/K	6133/K	6143/K	6153/K	6164/K
6174/R	6184/R	6195/K	6205/K	6215/K	6226/K	6236/K
6246/K	6257/R	6267/K	6277/K	6288/K	6298/K	6308/K
6319/R	6329/R	6339/K	6350/K	6360/K	6370/K	6381/K

6391/K	6401/K	6412/K	6422/K	6432/K	6443/K	6453/K
6463/R	6474/R	6484/K	6494/K	6505/K	6515/K	6525/K
6536/K	6546/K	6556/K	6567/K	6577/K	6587/K	6598/K
6608/K	6618/K	6629/K	6639/K	6649/K	6660/K	6670/K
6680/R	6691/R	6701/K	6711/K	6722/K	6732/K	6742/K
6753/K	6763/K	6774/K	6784/K	6794/K	6805/K	6815/K
6825/K	6836/K	6846/K	6863/K	6914/K	6925/K	6935/K
6945/R	6956/K	6966/K	6976/K	6987/K	6997/K	7007/K
7018/K	7028/K	7038/K	7049/K	7059/K	7069/K	7080/K
7090/K	7100/K	7111/K	7121/K	7131/K	7142/K	7152/K
7162/K	7173/K	7183/K	7193/K	7204/K	7214/K	7224/K
7235/K	7245/K	7255/K	7266/K	7276/K	7286/K	7297/K
7307/K	7317/K	7328/K	7338/K	7348/K	7359/K	7369/K
7379/K	7390/K	7410/K	7431/K	7441/K	7452/K	7462/K
7483/K	7493/K	7503/K	7514/K	7524/K	7534/K	7545/K
7555/K	7565/R	7576/K	7586/K	7596/K	7607/K	7617/K
7627/K	7638/R	7648/R	7658/K	7669/K	7679/K	7690/K
7700/K	7710/K	7721/K	7731/K	7741/K	7752/K	7762/K
L0CADD	456/E0R	979-PZE				
L0C2AD	491/LW	978-PZE				
L0NGL	1117/P	1132-J				
LPERR	805/LW	1120-P				
LPFORMAT	812/LW	1119-P				
LPG0T0P	810/LW	1118-P				
LPM5G	805-LW	814/B				
LPR	771/BLZ	794-IDV	800/BNEZ			
LPREP0RT	808/LW	1121-P				
LPT0P						

	803/BNEZ	812-LW
LRP01	2101-DATA	
LRP02	2116-DATA	
LS01	2492-DATA	
LS02	2502-DATA	
LS03	2512-DATA	
LS04	2523-DATA	
LS05	2535-DATA	
LS06	2545-DATA	
LS07	2556-DATA	
LS08	2566-DATA	
LS09	2576-DATA	
LS10	2582-DATA	
LS11	2593-DATA	
LS12	2603-DATA	
LS13	2613-DATA	
LS14	2626-DATA	
LWR	734/STW	736-LW
LWB1T	730/LW	1000-LW

LWBT	735/STW	739/BCE	741-LW				
LWBY	747/STW	748-LW					
LWBYTE	746/EOR	1001-LW					
LWFRM	713/LW	1006-LW					
LWFRM2	719/LW	1007-LW					
LWN	712/LW	1003-LW					
LWN2	718/LW	1004-LW					
LW01	2131-DATA						
LW02	2137-DATA						
LW03	2145-DATA						
LW04	2153-DATA						
LW05	2161-DATA						
MASK	389/AND	738/AND	745/AND	910/LW	975/AND	1068-DATA	1277/AND
MAXCNT	902/CW	1047-DATA					
MEMAD	990-PZE						
MEMID	560/LW	1037-I					
MEMBRY	487/STW	488/STW	497/CD	501/STD	561/LW	565/LW	977/PZE
	984/PACK	990/PZE	1037/I	1254-EQU	1296/EXU	1300/LW	1301/LW
	1302/LW	1304/EXU	1307/DATA	1308/DATA	1310/EXU*	1319/EXU*	1329/EXU
	1340/K	1341/K	1344/LCF	1348/LCF	1352/LCF	1356/LCF	1379/AW

1391/AW	1402/AW	1416/AW	1435/AW	1443/AW	1452/AW	1460/AW
1468/AW	1476/AW	1485/AW	1493/AW	1501/AW	1509/AW	1518/AW
1526/AW	1534/AW	1542/AW	1551/AW	1559/AW	1567/AW	1575/AW
1584/AW	1592/AW	1605/AW	1615/AW	1623/AW	1635/AW	1645/AW
1654/AW	1663/AW	1675/AW	1695/AW	1703/AW	1713/AW	1723/AW
1732/AW	1743/AW	1751/AW	1759/AW	1769/AW	1780/AW	1789/AW
1795/AW	1801/AW	1807/SW	1819/SW	1833/SW	1842/SW	1852/BCR
1854/K	1903/BCE	1905/K	1924/BIR	1926/DATA	1934/K	1941/BIR*
1943/DATA	1944/PZE*	1945/PZE*	1948/PZE*	1949/PZE*	1984/K	1997/HDR*
2015/BAL	2017/K	2028/DATA	2034/BAL*	2071/LPSD	2086/LPSD	2102/LRP
2132/LW	2138/CW	2154/LW	2162/LW	2167/LH	2175/LH	2204/LH
2212/LH*	2219/DATA	2216/DATA	2224/LH*	2229/DATA	2230/DATA	2237/LB
2245/LB	2253/LB	2281/DATA	2282/DATA	2294/LB	2303/LB*	2306/DATA
2306/DATA	2310/LD	2335/DATA	2348/DATA	2357/LD	2369/LD	2394/LD
2456/LD*	2459/DATA	2459/DATA	2459/DATA	2486/LI*	2493/LS	2503/LS
2524/LS*	2533/DATA	2534/DATA	2536/LS	2546/LS	2557/LS	2567/LS
2577/LS	2583/LS	2594/LS	2614/LS*	2623/DATA	2624/DATA	2627/LS
2644/LCF*	2649/DATA	2650/DATA	2659/DATA	2660/DATA	2664/LCF	2694/LCFI
2703/LAW	2711/LAW	2727/LAW*	2736/DATA	2737/DATA	2740/LAW	2748/LAW
2759/LAH	2767/LAH	2784/LAD	2796/LAD	2811/DATA	2833/LAD	2845/LAD
2858/LAD	2871/LCW	2879/LCW	2896/DATA	2910/LCW	2919/LCH	2930/DATA
2946/DATA	2955/DATA	2961/LCD	2976/DATA	2998/LCD	3010/LCD	3033/STW
3044/DATA	3045/DATA	3047/DATA	3058/STH	3066/STH	3082/STH	3091/STH
3099/STH	3108/STB	3116/STB	3130/STB	3148/STD	3160/STD	3185/STD
3198/STS	3208/STS	3218/STS	3229/STS	3239/STS	3249/STS	3260/STS
3270/STS	3280/STS	3302/STCF	3313/DATA	3314/DATA	3326/STCF	3335/XW
3346/DATA	3349/DATA	3370/INT	3383/DATA	3401/ANLZ	3409/DATA	3413/ANLZ
3417/DATA	3418/SW	3419/SW	3425/ANLZ	3429/DATA	3430/CB	3431/CB
3437/ANLZ	3444/DATA	3445/AD	3446/AD	3448/ANLZ	3460/ANLZ	3464/DATA
3465/MH	3466/MH	3473/ANLZ	3477/DATA	3478/DATA	3483/ANLZ	3488/DATA
3489/DATA	3491/DATA	3494/ANLZ	3498/DATA	3499/LRP	3500/LRP	3506/AND
3514/AND	3530/AND	3539/AND	3554/EOR	3562/EOR	3578/EOR	3601/BR
3605/BR	3622/BR	3630/BR	3649/CH	3672/CW	3680/CW	3688/CW
3696/CW	3701/CH	3709/CH	3725/CH	3734/CH	3742/CH	3750/CH
3759/CB	3767/CB	3775/CB	3783/CB	3800/CB	3808/CB	3816/CB
3872/CD	3884/CD	3909/CD	3922/CS	3932/CS	3953/CS	3963/CS
3973/CS	3984/CLR	3994/CLR	4025/CLR	4037/CLM	4050/CLM	4066/CLM

4092/MTW	4110/MTW	4127/MTH	4146/MTH	4154/MTH	4163/MTB	4171/MTB
4187/RTB	4221/AH	4229/AH	4269/AD	4281/AD	4306/AD	4319/AD
4328/AD	4337/AWM	4345/AWM	4366/DATA	4366/DATA	4369/SH	4377/SH
4394/SD	4418/SD	4431/SD	4545/S*	4595/S*	4628/S*	4780/S*
4891/S*	4922/S*	4932/S*	5053/SF*	5064/SF*	5230/SF*	5483/SF*
5508/SF*	5541/CAL4*	5546/DATA	5547/DATA	5578/EOR	5606/EOR	5611/AWM
5617/K	5622/K	5750/DATA	5751/DATA	5754/K	5755/K	5759/MW
5769/RW	5779/MW	5790/MW	5800/MW	5810/MW	5821/MW	5831/MW
5841/MW	5852/MW	5862/MW	5872/MW	5883/MW	5893/MW	5903/MW
5914/MW	5924/MW	5934/MW	5945/MW	5955/MW	5965/MW	5976/MW
5986/MW	5996/MW	6007/MW	6017/MW	6027/MW	6038/MW	6048/MW
6058/MW	6065/MW	6079/MW	6089/MW	6100/MW	6110/MW	6120/MW
6131/MW	6141/MW	6151/MW	6162/MW	6172/MW	6182/MW	6193/MW
6203/MW	6213/MW	6224/MW	6234/MW	6244/MW	6255/MW	6265/MW
6275/MW	6286/MW	6296/MW	6306/MW	6317/MW	6327/MW	6337/MW
6348/MW	6358/MW	6368/MW	6379/MW	6389/MW	6399/MW	6410/MW
6420/MW	6430/MW	6441/MW	6451/MW	6461/MW	6472/MW	6482/MW
6492/MW	6503/MW	6513/MW	6523/MW	6534/MW	6544/MW	6554/MW
6575/MW	6585/MW	6596/MW	6606/MW	6616/MW	6627/MW	6637/MW
6647/MW	6658/MW	6668/MW	6678/MW	6689/MH	6699/MH	6709/MH
6720/MH	6730/MH	6740/MH	6751/MH	6861/DW	6871/DW	6881/DW
6892/DW	6902/DW	6912/DW	6923/DW	6933/DW	6943/DW	6954/DW
6964/DW	6974/DW	6985/DW	6995/DW	7005/DW	7016/DW	7026/DW
7036/DW	7047/DW	7057/DW	7067/DW	7078/DW	7088/DW	7098/DW
7109/DW	7119/DW	7129/DW	7140/DW	7150/DW	7160/DW	7171/DW
7191/DW	7202/DW	7212/DW	7222/DW	7233/DW	7243/DW	7253/DW
7264/DW	7274/DW	7284/DW	7295/DW	7305/DW	7315/DW	7326/DW
7336/DW	7346/DW	7357/DW	7367/DW	7377/DW	7388/DW	7398/DW
7408/DW	7419/DW	7429/DW	7439/DW	7450/DW	7460/DW	7470/DW
7481/DW	7491/DW	7501/DW	7512/DW	7522/DW	7532/DW	7543/DW
7553/DW	7563/DW	7574/DW	7584/DW	7594/DW	7605/DW	7615/DW
7625/DW	7636/DW	7646/DW	7656/DW	7667/DW	7677/DW	7688/DH
7698/DH	7708/DH	7719/DH	7729/DH	7739/DH	7750/DH	

MEMBUT 468/STW 469/STW 496/LD 1087-DATA

MH01 6688-DATA

MH02 6698-DATA

MH03 6708-DATA

MH04 6719-DATA

MH05 6729-DATA

MH06 6739-DATA

MH07 6750-DATA

MH08 6760-DATA

MI 61/OPEN

MI 61/OPEN 74-CNAME

MI01 6771-DATA

MI02 6781-DATA

MI03 6791-DATA

MI04 6802-DATA

MI05 6812-DATA

MI06 6822-DATA

MI07 6833-DATA

MI08 6843-DATA

MI09 6853-DATA

MBOULE

582/LPSD 1257-EQU
MBTIBN 799/AND 1043-DATA
MOVE 433-STW 439/BIR
MPVRET 208-XPSD
MSG 1155/GEN 1156-TEXTC
MTB01 4162-DATA
MTB02 4170-DATA
MTB03 4178-DATA
MTB04 4186-DATA
MTB05 4195-DATA
MTB06 4201-DATA
MTB07 4207-DATA
MTB08 4213-DATA
MTH01 4120-DATA
MTH02 4126-DATA
MTH03 4135-DATA
MTH04 4145-DATA
MTH05 4153-DATA
MTW01 4079-DATA

MTW02 4085-DATA
MTW03 4091-DATA
MTW04 4100-DATA
MTW05 4109-DATA
MVRET 209-XPSD 1331/K 5603/K
MW01 5758-DATA
MW02 5768-DATA
MW03 5778-DATA
MW04 5789-DATA
MW05 5799-DATA
MW06 5809-DATA
MW07 5820-DATA
MW08 5830-DATA
MW09 5840-DATA
MW10 5851-DATA
MW11 5861-DATA
MW12 5871-DATA
MW13 5882-DATA
MW14

MW15 5892-DATA
MW16 5902-DATA
MW17 5913-DATA
MW18 5923-DATA
MW19 5933-DATA
MW20 5944-DATA
MW21 5954-DATA
MW22 5964-DATA
MW23 5975-DATA
MW24 5985-DATA
MW25 5995-DATA
MW26 6006-DATA
MW27 6016-DATA
MW28 6026-DATA
MW29 6037-DATA
MW30 6047-DATA
MW31 6057-DATA
MW32 6068-DATA
MW32 6078-DATA

MW33 6088-DATA
MW34 6099-DATA
MW35 6109-DATA
MW36 6119-DATA
MW37 6130-DATA
MW38 6140-DATA
MW39 6150-DATA
MW40 6161-DATA
MW41 6171-DATA
MW42 6181-DATA
MW43 6192-DATA
MW44 6202-DATA
MW45 6212-DATA
MW46 6223-DATA
MW47 6233-DATA
MW48 6243-DATA
MW49 6254-DATA
MW50 6264-DATA
MW51

SIGMA 7 CPU DIAGNOSTIC-AUTO 704044-51800 MARCH 10, 1969

43

MW52 6274-DATA
MW53 6285-DATA
MW54 6295-DATA
MW55 6305-DATA
MW56 6316-DATA
MW57 6326-DATA
MW58 6336-DATA
MW59 6347-DATA
MW60 6357-DATA
MW61 6367-DATA
MW62 6378-DATA
MW63 6388-DATA
MW64 6398-DATA
MW65 6409-DATA
MW66 6419-DATA
MW67 6429-DATA
MW68 6440-DATA
MW69 6450-DATA
6460-DATA

SIGMA 7 CPU DIAGNOSTIC-AUTO 704044-51800 MARCH 10, 1969

44

MW70 6471-DATA
MW71 6481-DATA
MW72 6491-DATA
MW73 6502-DATA
MW74 6512-DATA
MW75 6522-DATA
MW76 6533-DATA
MW77 6543-DATA
MW78 6553-DATA
MW79 6564-DATA
MW80 6574-DATA
MW81 6584-DATA
MW82 6595-DATA
MW83 6605-DATA
MW84 6615-DATA
MW85 6626-DATA
MW86 6636-DATA
MW87 6646-DATA
MW88

MW89	6657-DATA						
MW90	6667-DATA						
M1Q15	6677-DATA						
NAME	427/AND	1014-DATA					
NAB	68/GEN	77/GEN					
NABAD	180/XPSD	203-PZE	590/STW	991/PZE	999/XPSD		
NABRET	589/EOR	991-PZE					
NABTR	207-XPSD	4266/K	5624/K	5648/K	5668/K	5701/K	5717/K
NABXD	180-XPSD	445/STW	588/STW				
NDEC6PT	587/EOR	999-XPSD					
NDEC6P1	404/STW	874/STW	5731-DATA				
NDEC6P2	405/STW	876/STW	5735-DATA				
NDECP	406/STW	878/STW	5746-DATA				
NDECP1	967/GEN	968-TEXTC					
NDECP2	962/P	967-GEN					
NEARET	211-XPSD	2045/K					
NEG12	1025-DATA						
NEG2	410/LW	711/LW	1247-EQU				
NEG20	420/LW	1026-DATA					

NEG3	717/LW	1023-DATA					
NEG4	705/LW	731/LW	1246-EQU				
NEG51	408/LW	780/LW	1027-DATA				
NEG8	702/LW	1024-DATA					
NE1873	5653-DATA						
NEIRET	215-XPSD	1339/K	2488/K	2696/K	3310/STCF	3313/DATA	3314/DATA
	3868/K	5619/K	5632/K	5636/K	5640/K	5644/K	5652/K
	5656/K	5660/K	5664/K	5672/K	5676/K	5680/K	5684/K
	5688/K	5693/K	5697/K	5705/K	5709/K	5713/K	5721/K
	6856/K						
NE101	5621-DATA						
NE102	5629-DATA						
NE103	5633-DATA						
NE104	5637-DATA						
NE105	5641-DATA						
NE106	5645-DATA						
NE107	5649-DATA						
NE108	5657-DATA						
NE109	5661-DATA						
NE110	5665-DATA						
NE111							

NEI12	5669-DATA		
NEI13	5673-DATA		
NEI14	5677-DATA		
NEI15	5681-DATA		
NEI16	5685-DATA		
NEI17	5690-DATA		
NEI18	5694-DATA		
NEI19	5698-DATA		
NEI20	5702-DATA		
NEI21	5706-DATA		
NEI22	5710-DATA		
NEI23	5714-DATA		
NEWINST	5718-DATA		
NFAIMPO1	660/LW	1028-B	
NFLM	403/STW	865/STW	5725-DATA
NFLBTP	956/GEN	957-TEXTC	
NIMP	950/P	956-GEN	
NOHALT	856/LW	948-XPSD	
	131/DATA	694/BCS	696-LW

NPTECWD	426/BCS	431-LW				
NUMBER	879/LW	962-P				
ODD	725/LW	1003/LW	1004/LW	1058-DATA	1246/EQU	1247/EQU
ODDBALL	716/BCS	721-LW				
OLDINST	515/LW	1056-DATA				
ONE	400/LW	1020-LPSD				
OR01	464/LW	540/LW	715/AND	1021-DATA		
OR02	3594-DATA					
OR03	3600-DATA					
OR04	3604-DATA					
OR05	3613-DATA					
OR06	3621-DATA					
P	3629-DATA					
PAGE	40-CNAME					
PAGE	18/OPEN					
PAGE	18/OPEN	19-CNAME				
PARITY	197/XPSD	367-PZE				
PASS	1258-EQU	2278/LB	2281/DATA	2282/DATA		
PASSES						

	384/LW	418/STW	1242-PZE	1268/LW		
PCPINT	415/LW	1050-DATA				
PERR	1120/P	1138-J				
PFLBATP	862/LW	949-P				
PFBRMAT	1119/P	1146-J				
PG8	1048-DATA	1136/J				
PGOTOP	1118/P	1136-J				
PHEAD	778/LW	1115-P				
PIBCOMP	928/LW	937-P				
PLBNGL	781/LW	1117-P				
PNFLBATP	866/LW	950-P				
PRELBC	401/STW	493-LPBD	661/STW			
PREPRT	1121/P	1142-J				
PRINT	775/XPSD 839/LPSD	777/XPSD 867/XPSD	779/XPSD 880/XPSD	785/XPSD 909/XPSD	811/XPSD	813/XPSD 818-PZE
PRTCMSG	908/LW	1122-P				
PSDWID	542/LW	1035-I				
PSHRTL	784/LW	1116-P				
PSIXCR	774/LW	1113-P				
PSW1						

	448/STW	451/LPSD	457/STW	493/LPSD	503/LPSD	1020/LPSD	1234-PZE
PSW2	459/STW	1235-PZE					
PTDCWD	871/LW	961-P					
PTDEC	872/B	880-XPSD					
PTITLE	776/LW	1114-P					
REGID	551/LW	1036-I					
REPEAT	375/LPSD 2731/DATA 2927/LCH 3346/DATA	393/LPSD 2736/DATA 2930/DATA 3349/DATA	1232-PZE 2737/DATA 2952/LCH	1257/EQU 2767/LAH 2955/DATA	1258/EQU 2770/DATA 2973/LCD	1281/LPSD 2808/LAD 2976/DATA	2730/DATA 2811/DATA 3343/XW
REPLAY	840/LW	848-B					
REPRT	704/BCS	705-LW					
RESET	201/XPSD	378-PZE					
RETADDR	886/LI	895-LI					
RETEND	1009-PZE						
RETURN	187/XPSD 213/XPSD 220/XPSD 258/XPSD 283/XPSD 290/XPSD 304/XPSD 311/XPSD 325/XPSD 332/XPSD	207/XPSD 214/XPSD 221/XPSD 265/XPSD 284/XPSD 291/XPSD 305/XPSD 312/XPSD 326/XPSD 333/XPSD	208/XPSD 215/XPSD 222/XPSD 271/XPSD 285/XPSD 292/XPSD 306/XPSD 313/XPSD 327/XPSD 334/XPSD	209/XPSD 216/XPSD 228/XPSD 279/XPSD 286/XPSD 293/XPSD 307/XPSD 314/XPSD 328/XPSD 335/XPSD	210/XPSD 217/XPSD 234/XPSD 280/XPSD 287/XPSD 294/XPSD 308/XPSD 315/XPSD 329/XPSD 336/XPSD	211/XPSD 218/XPSD 242/XPSD 281/XPSD 288/XPSD 302/XPSD 309/XPSD 316/XPSD 330/XPSD 337/XPSD	212/XPSD 219/XPSD 250/XPSD 282/XPSD 289/XPSD 303/XPSD 310/XPSD 317/XPSD 331/XPSD 338/XPSD

TIME	A REGISTER	SIGMA LOGIC SIMULATION, B REGISTER BC31	MW , CASE 0051	D REGISTER	51 CS REGISTER
PPR	42486CEA	00000000	0	00000000	FFFFFFF
P01	00000000	42486CEA	0	00000000	00000000
P02	00000000	10521B9A	0	FC7CF1CC	00000000
P09	00000000	042486CE	0	F8F9E398	00000000
P10	FE3E78E6	01092183	0	F8F9E398	00000000
P10	81B1E6DF	8042486C	1	F8F9E398	7C1C3040
P10	81550041	EC10921B	0	03830E33	7C5CF16C
P10	FFA2BC87	B8042486	1	FC7CF1CC	00AA8680
P10	80DD32FE	DEC10921	1	03830E33	7E55A42
P10	FF42D9A3	C7804248	0	03830E33	016A8D39
P10	FF6AD6AA	51E01092	0	F8F9E398	01A14699
P10	81RC9CEA	D4780424	0	00000000	7CF4E34C
P10	FF5E1FE9	851E0109	0	F8F9E398	00424024
P10	81F96F15	71478042	0	00000000	7C2D21D4
P10	FF75138C	5C51E010	0	FC7CF1CC	0014908A
P10	80C75CB0	97147804	0	F8F9E398	7E3A48C4
P10	81813DF8	65C51E01	0	00000000	7C7DA44E
P10	FF7F266D	99714780	0	00000000	00009224
P10	FFDFED12	665C51E0	0	FC7CF1CC	00000112
P10	80E8C773	19971478	0	00000000	7E2E7089
P11	FF1737FC	19971478	0	00000000	00000001
P15	FF1737FD	19971478	0	00000000	00000001

TIME	A REGISTER	SIGMA LOGIC SIMULATION, B REGISTER BC31	MW , CASE 0052	D REGISTER	52 CS REGISTER
PPR	2C76B150	00000000	0	00000000	FFFFFFF
P01	00000000	2C76B150	0	00000000	00000000
P02	00000000	0B1DAC54	0	475E3AF9	00000000
P09	00000000	02C76B15	0	00000000	00000000
P10	00000000	00B1DAC5	0	00000000	00000000
P10	00000000	002C76B1	0	475E3AF9	00000000
P10	11D78E9E	400B1DAC	0	475E3AF9	00000000
P10	15A26D11	D002C76B	0	475E3AF9	00000000
P10	1495D4AD	3400B1DA	1	00000000	00A8055C
P10	05903080	60002C76	1	B8A1C506	02D516AC
P10	EF5EDFF4	1B400B1D	0	B8A1C506	004A8A56
P10	95EFD68C	56D002C7	0	B8A1C506	004C4003
P10	9E5B9C4E	65B40031	1	B8A1C506	54206283
P10	D6ADC2BF	E960002C	0	8EBC75F2	4A50E343
P10	8A481F46	3A5B400B	0	B8A1C506	477C7AA1
P10	0BEBA2F9	FE960002	1	8EBC75F2	6B56E153
P10	E7B1A614	3FA5B400	1	00000000	452F3AA9
P10	9FE11C91	AFE96000	0	B8A1C506	2C941154
P10	9DC6C6C7	78FA5B40	0	B8A1C506	5C58C28A
P10	E5BA379F	EEFE9600	0	475E3AF9	4C70E241
				00000000	26AB1160
P11	0C654900	6EFE9600	0	00000000	00000001
P15	0C654901	6EFE9600	0	00000000	00000001

SIGMA 7 CPU DIAGNOSTIC-AUTB 704044-51800 MARCH 10, 1969

53

3209/K	3219/K	3230/K	3240/K	3250/K	3261/K	3271/K
3281/K	3292/K	3303/K	3311/K	3319/K	3327/K	3336/K
3344/K	3352/K	3360/K	3371/K	3381/K	3391/K	3402/K
3414/K	3426/K	3438/K	3449/K	3461/K	3474/K	3484/K
3495/K	3507/K	3515/K	3523/K	3531/K	3540/K	3548/K
3555/K	3563/K	3571/K	3579/K	3588/K	3596/K	3602/K
3606/K	3615/K	3623/K	3631/K	3650/K	3658/K	3664/K
3673/K	3681/K	3689/K	3697/K	3702/K	3710/K	3718/K
3726/K	3735/K	3743/K	3751/K	3760/K	3768/K	3776/K
3784/K	3793/K	3801/K	3809/K	3817/K	3826/K	3832/K
3858/K	3844/K	3850/K	3856/K	3863/K	3873/K	3885/K
3898/K	3910/K	3923/K	3933/K	3943/K	3954/K	3964/K
3974/K	3985/K	3995/K	4005/K	4016/K	4026/K	4038/K
4051/K	4063/K	4067/K	4087/K	4093/K	4111/K	4122/K
4128/K	4155/K	4164/K	4172/K	4180/K	4188/K	4197/K
4203/K	4209/K	4215/K	4320/K	4329/K	4364/K	4386/K
4395/K	4447/K	4453/K	4459/K	4466/K	4472/K	4478/K
4485/K	4492/K	4499/K	4505/K	4511/DATA	4517/DATA	4521/DATA
4526/DATA	4531/DATA	4535/DATA	4540/DATA	4546/DATA	4550/DATA	4555/DATA
4583/K	4589/K	4596/K	4604/K	4610/K	4616/K	4622/K
4629/K	4637/K	4643/K	4649/K	4655/K	4662/K	4668/K
4674/K	4680/K	4686/K	4692/K	4699/K	4705/K	4711/K
4717/K	4723/K	4729/K	4736/K	4742/K	4748/K	4754/K
4760/K	4771/K	4781/K	4791/K	4802/K	4812/K	4822/K
4839/DATA	4845/DATA	4851/DATA	4857/DATA	4876/DATA	4892/DATA	4913/DATA
4923/DATA	4945/K	4951/K	4957/K	4964/K	4970/K	4976/K
4983/K	4989/K	4995/K	5002/K	5008/K	5014/K	5021/K
5027/K	5033/K	5040/DATA	5044/DATA	5054/DATA	5060/DATA	5065/DATA
5072/DATA	5077/DATA	5082/DATA	5088/DATA	5093/DATA	5098/DATA	5104/DATA
5109/DATA	5114/DATA	5120/DATA	5125/DATA	5131/DATA	5136/DATA	5144/DATA
5149/DATA	5154/DATA	5160/DATA	5165/DATA	5170/DATA	5176/DATA	5181/DATA
5186/DATA	5192/DATA	5197/DATA	5202/DATA	5208/DATA	5213/DATA	5218/DATA
5224/DATA	5231/K	5579/DATA	5584/DATA	5590/K	5607/K	5612/K

SETRPLY 840=LW 7770/END
SF 61/BPEN

SIGMA 7 CPU DIAGNOSTIC-AUTB 704044-51800 MARCH 10, 1969

54

SF 61/BPEN 62-CNAME

SF001	4943-DATA
SF002	4949-DATA
SF003	4955-DATA
SF004	4962-DATA
SF005	4968-DATA
SF006	4974-DATA
SF007	4981-DATA
SF008	4987-DATA
SF009	4993-DATA
SF01	5236-DATA
SF010	5000-DATA
SF011	5006-DATA
SF012	5012-DATA
SF013	5019-DATA
SF014	5025-DATA
SF015	5031-DATA
SF016	5038-DATA
SF017	

SF018 5042-DATA
SF019 5052-DATA
SF02 5058-DATA
SF020 5248-DATA
SF021 5063-DATA
SF022 5070-DATA
SF023 5075-DATA
SF024 5080-DATA
SF025 5086-DATA
SF026 5091-DATA
SF027 5096-DATA
SF028 5102-DATA
SF029 5107-DATA
SF03 5112-DATA
SF030 5260-DATA
SF031 5118-DATA
SF032 5123-DATA
SF033 5129-DATA
5134-DATA

SF034 5142-DATA
SF035 5147-DATA
SF036 5152-DATA
SF037 5158-DATA
SF038 5163-DATA
SF039 5168-DATA
SF04 5273-DATA
SF040 5174-DATA
SF041 5179-DATA
SF042 5184-DATA
SF043 5190-DATA
SF044 5195-DATA
SF045 5200-DATA
SF046 5206-DATA
SF047 5211-DATA
SF048 5216-DATA
SF049 5222-DATA
SF05 5285-DATA
SF050

5229-DATA
 SF06 5297-DATA
 SF07 5310-DATA
 SF08 5322-DATA
 SF09 5334-DATA
 SF10 5347-DATA
 SF11 5359-DATA
 SF12 5371-DATA
 SF13 5384-DATA
 SF14 5396-DATA
 SF15 5408-DATA
 SF16 5421-DATA
 SF17 5433-DATA
 SF18 5445-DATA
 SF19 5458-DATA
 SF20 5470-DATA
 SF21 5482-DATA
 SF22 5495-DATA
 SF23 5507-DATA

SHRRT 487-STW 510/BCS
 SHORTR 498/BE 501-STD
 SHRTL 1116/P 1130-J
 SH01 4368-DATA
 SH02 4376-DATA
 SH03 4384-DATA
 SIX 538/EOR 1019-DATA
 SIXCR 1113/P 1124-J
 SI9CL1 622-LW 5523/K
 SI9CL2 629-LW 5527/K
 SI9CL3 636-LW 5531/K
 SI9CL4 643-LW 5535/K 5542/K 5550/K
 SI9NAB 586-LW 1330/K 1338/K 2044/K 2487/K 2695/K 3867/K
 5602/K 5618/K 5631/K 5635/K 5639/K 5643/K 5651/K
 5655/K 5659/K 5663/K 5671/K 5675/K 5679/K 5683/K
 5687/K 5692/K 5696/K 5704/K 5708/K 5712/K 5720/K
 SKIP6 772/BIR 776-LW
 SL 182/XPSD 230-PZE 598/STW 992/PZE
 SLAD 597/EOR 992-PZE
 SLRET

234-XPSD
 SLSW 597-EOR
 SLTR 182-XPSD
 SPACE 1042-TEXT 1138/J 1142/J 1146/J 1150/J
 SPUR 1260/XPSD 1262-PZE
 SPURTRAP 895/LI 1056/DATA 1260-XPSD
 SPUR1 154/DATA 1277-AND
 STR01 3107-DATA
 STR02 3115-DATA
 STR03 3123-DATA
 STR04 3129-DATA
 STR05 3138-DATA
 STCF 61/BPEN
 STCF 61/BPEN 65-CNAME
 STCF01 3301-DATA
 STCF02 3309-DATA
 STCF03 3317-DATA
 STCF04 3325-DATA
 STD01 3147-DATA

STD02 3159-DATA
 STD03 3171-DATA
 STD04 3184-DATA
 STH01 3057-DATA
 STH02 3065-DATA
 STH03 3073-DATA
 STH04 3081-DATA
 STH05 3090-DATA
 STH06 3098-DATA
 STORE 419/LW 431/LW 1010-STW
 STRMG1 701/LW 1011-STW
 STRWD 724/STW 754-STW 757/LW
 STS01 3197-DATA
 STS02 3207-DATA
 STS03 3217-DATA
 STS04 3228-DATA
 STS05 3238-DATA
 STS06 3248-DATA
 STS07

STS08 3259-DATA
STS09 3269-DATA
STS10 3279-DATA
STW01 3290-DATA
STW02 3032-DATA
STW03 3040-DATA
SW01 3048-DATA
SW02 1806-DATA
SW03 1814-DATA
SW04 1818-DATA
SW05 1826-DATA
SW06 1832-DATA
S001 1841-DATA
S002 4445-DATA
S003 4451-DATA
S004 4457-DATA
S005 4464-DATA
S006 4470-DATA
4476-DATA

S007 4483-DATA
S008 4490-DATA
S009 4497-DATA
S01 4557-DATA
S010 4503-DATA
S011 4509-DATA
S012 4515-DATA
S013 4519-DATA
S014 4524-DATA
S015 4529-DATA
S016 4533-DATA
S017 4538-DATA
S018 4544-DATA
S019 4548-DATA
S02 4563-DATA
S020 4553-DATA
S03 4569-DATA
S04 4575-DATA
S05

S06 4581-DATA
S07 4587-DATA
S08 4594-DATA
S09 4602-DATA
S10 4608-DATA
S11 4614-DATA
S12 4620-DATA
S13 4627-DATA
S14 4635-DATA
S15 4641-DATA
S16 4647-DATA
S17 4653-DATA
S18 4660-DATA
S19 4666-DATA
S20 4672-DATA
S21 4678-DATA
S22 4684-DATA
S23 4690-DATA
4697-DATA

S24 4703-DATA
S25 4709-DATA
S26 4715-DATA
S27 4721-DATA
S28 4727-DATA
S29 4734-DATA
S30 4740-DATA
S31 4746-DATA
S32 4752-DATA
S33 4758-DATA
S34 4769-DATA
S35 4779-DATA
S36 4789-DATA
S37 4800-DATA
S38 4810-DATA
S39 4820-DATA
S40 4830-DATA
S41 4837-DATA
S42

S43	4843-DATA						
S44	4849-DATA						
S45	4855-DATA						
S46	4861-DATA						
S46	4867-DATA						
S47	4874-DATA						
S48	4880-DATA						
S49	4890-DATA						
S50	4900-DATA						
S51	4911-DATA						
S52	4921-DATA						
S53	4931-DATA						
TARLE	422/STW 466/LW 480/LW 554/LW 2051/XPSD	436/STW 467/LW 489/LW 558/LW	442/LW 470/LW 490/LW 562/LW	446/LW 471/LW 523/LW 566/LW	454/LW 474/LW 536/LW 653/STCF	458/LW 475/LW 544/LW 1010/STW	461/LW 479/LW 548/LW 1202-RES
TEMP	798/STW	801/LW	1044-DATA				
TENPAS	656/CW	1045-DATA					
TEST	514/STW 543/LW 1254/EQU	517/STW 547/LW	519/STW 553/LW	520/STW 557/LW	522/LW 1223-RES	535/LW 1252/EQU	539/LW 1253/EQU

TESTID	684-AIB	687/BCR	692/BEZ				
TITLE	1114/P	1126-J					
TB	434/STW	436-STW					
TBP	802/AND	1046-DATA					
TRAPRTN	852-DATA	859/STW	869/STW	948/XPSD			
ISTDVC	673/BCS	675-BIR					
TTL	1124/J	1126/J	1148/J	1160-DATA			
TYPE	387/LW 1049-DATA	391/STW 1271/LW	685/TI0* 1279/STW	770/LW	794/TDV*	822/SI0*	831/TI0*
UII	181/XPSD	224-PZE	594/STW	947/XPSD	993/PZE		
UIIAD	593/EOR	993-PZE					
UIIRET	228-XPSD	5728/K	5734/K	5738/K	5749/K		
UIISW	593-EOR	611/BCR	615/BCR	5727/K	5733/K	5737/K	5748/K
UIITR	181-XPSD	857/STW	882/STW				
WDTR	186-XPSD	261-PZE	618/STW	994/PZE			
WDTRAD	617/EOR	994-PZE					
WDTRET	265-XPSD						
WDTRSW	617-EOR						
WDTRTR	186-XPSD						

SIGMA 7 CPU DIAGNOSTIC-AUTO 704044-51B00 MARCH 10, 1969

67

WKB	728/STW	750/EOR	1243-PZE				
WBRD	709/STW	737/AND	1244-PZE				
WBRDS	722-STW	761/BIR					
XP	86-SET	88/BRG					
XPSD	443/LW	527/LW	1248-EQU				
XPSDID	525/LW	1031-I					
XRTC	912-B						
XW01	3334-DATA						
XW02	3342-DATA						
XW03	3350-DATA						
XW04	3358-DATA						
Y	1251-EQU						
ZER0	396/LW	397/LW	413/LW	449/LW	568/LW	732/LW	846/LW
	1245-EQU	1255/EQU	1256/EQU				
ZR	572/BCS	678-LW					
2Q3	1016-DATA						
603	681/LW	690/AND	691/EOR	827/AND	828/EOR	836/AND	837/EOR
	1015-GEN						
\$	54/D0	86/SET	86/SET	87/D0	87/D0	88/BRG	205/PZE
	226/PZE	232/PZE	239/PZE	247/PZE	255/PZE	263/PZE	277/PZE

SIGMA 7 CPU DIAGNOSTIC-AUTO 704044-51B00 MARCH 10, 1969

68

300/PZE	323/PZE	346/PZE	369/PZE	380/PZE	421/STW	423/BIR
437/BIR	438/BIR	546/BIR	556/BIR	564/BIR	570/BCS	578/BIR
669/PZE	675/BIR	688/BCR	743/BIR	751/BIR	752/BIR	758/BIR
759/BIR	760/BIR	764/BIR	795/BCR	796/BCR	807/BCS	820/PZE
825/BCR	834/BCR	893/B	1198/FILL	1224/FILL	1264/PZE	5522/CAL1
5526/CAL2	5530/CAL3	5534/CAL4	5549/CAL4	5554/CAL4	5630/K	5634/K
5638/K	5642/K	5646/K	5650/K	5654/K	5658/K	5662/K
5666/R	5670/K	5674/K	5678/K	5682/K	5686/K	5691/K
5695/K	5699/R	5703/K	5707/K	5711/K	5715/K	5719/K

DATA INFORMATION-IGNORED

APPENDIX A

This Appendix contains a detailed flowchart and listing of the dual-purpose loader.

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- * THIS FOUR CARD LOADER HAS A DUAL PURPOSE.
- * NORMALLY IT WILL LOAD A PROGRAM BY USING DATA CHAINING TO POSITION
- * THE DATA ON EACH CARD INTO THE PROPER MEMORY LOCATIONS. CARDS 2,3 AND
- * 4 OF THE LOADER ARE IGNORED.
- * IF THE FIRST CARD IS BYPASSED, THE FOLLOWING THREE LOADER CARDS WILL
- * READ EACH DATA CARD INTO A COMMON AREA, PERFORM A CHECKSUM AND THEN
- * RELOCATE THE DATA TO THE SPECIFIED MEMORY LOCATIONS.

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- * THE FOLLOWING DETAILS OPERATOR ACTION AND PROGRAM FLOW FOR EACH MODE.
- *
 - NORMAL LOAD:
 1. CPU RESET
 2. SET THE UNIT ADDRESS SWITCHES TO SELECT THE INPUT DEVICE ADDRESS.
 3. DEPRESS LOAD.
 4. PLACE THE COMPUTE SWITCH TO RUN.

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I
V

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|-----|
| THE FIRST CARD READS INTO LBCS |
| 2A THRU 3F |
|-----|
I
|<<<-----|
V
|-----|
| LOAD RD WITH THE CDA FOR DBLWR1 |
| BRANCH TO THE SIB IN LOC 27 |
|-----|
I
| CDA: COMMAND DOUBLEWORD ADDRESS |
| DBLWD1: DOUBLEWORD 1 |
I
V
|-----|
| READ THE FIRST THREE BYTES FROM |
| THE NEXT CARD INTO THE BYTE ADDR |
| POSITION OF DBLWD3 |
|-----|
I
V
|-----|
| DATA CHAIN TO READ THE NEXT |
| BYTE INTO THE BYTE COUNT AREA |
| OF DBLWD3 |
|-----|
I

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87

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I
V

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|-----|
| DATA CHAIN TO DBLWD3 WHICH WILL |
| READ ALL BUT 'C' BYTES |
|-----|
I
V
|-----|
| DATA CHAIN TO DBLWD4 WHICH WILL |
| IGNORE THE REMAINING 'C' BYTES |
| BY LOADING THEM INTO LBCS 0-2. |
| (THIS ACTION IS NECESSARY FOR |
| PROPER POSITIONING OF PAPER TAPE |
| LOADING) |
|-----|
I
V
AAAAAAAAAAAAAAAA
A DID THE CARD A (NO)
A MODIFY LBC 2A A
A
AAAAAAAAAAAAAAAA
I
I (YES)
I
V
|-----|
| THE BRANCH INSTRUCTION LOADED |
| INTO 2A TRANSFERS CONTROL TO |
| THE DIAGNOSTIC PROGRAM |
|-----|
I

```

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88
89 * PAGE
90 * CHECKSUM LOAD:
91 * 1. CPU RESET
92 * 2. SET UNIT ADDRESS SWITCHES
93 * 3. DEPRESS LOAD
94 * 4. SINGLE STEP THREE TIMES CAUSING THE FIRST CARD
95 * TO BE READ.
96 * 5. CPU RESET
97 * 6. COMPUTE SWITCH TO RUN.
98 *
99 *
100 * .....|
101 * | THE SECOND LOADER CARD WAS READ |
102 * | INTO LPCS 2A-3F, IT IN TURN |
103 * | LOADS THE THIRD AND FOURTH CARDS |
104 * | INTO THE LAST PART OF THE FIRST |
105 * | 8K OF MEMORY. |
106 * | USE THE COMMENTS ON THE LISTING |
107 * | FOR CARDS 3 AND 4 TO DETERMINE |
108 * | THE FLOW OF OPERATION. |
109 * | .....|

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108
109 * PAGE
110 * .....|
111 * | BRG X'12A' |
112 * | 01 0002A 3200002C BEGIN LW#0 ADDR |
113 * | 01 0002A 68000027 A B X'127' | BRANCH TO 518
114 * | 01 0002C 00000017 ADDR GEN#32 DA(DBLWD1) |
115 * | 01 0002D 00000000 A DATA 0 |
116 * | 01 0002E 02000003 DBLWD1 GEN#8,24 X'02',BA(DBLWD3)+1 COMMAND DOUBLEWORD
117 * | 01 0002F 88000003 A DATA X'88000003' DATA CHAIN
118 * | 01 00030 0200000CF DBLWD2 GEN#8,24 X'02',BA(DBLWD3)+7 COMMAND DOUBLEWORD
119 * | 01 00031 88000001 A DATA X'88000001' DATA CHAIN
120 * | 01 00032 02000000 A DBLWD3 DATA X'02000000' COMMAND DOUBLEWORD
121 * | 01 00033 88000000 A DATA X'88000000' DATA CHAIN
122 * | 01 00034 02000000 A DBLWD4 DATA X'02000000' COMMAND DOUBLEWORD
123 * | 01 00035 0800000C A DATA X'0800000C'

```


Line No.	Address	Hex Value	Label	Field 1	Field 2	Field 3	Description
174							
175							
176							
177	01 01FE2	80010068	A	DATA	X'80010068'		ALLOWS NORMAL LOADER TO BYPASS THIS CARD
178							
179	01 01FE3	3010003D	A	CARD3	AW,1	X'13D'	
180	01 01FE4	21101FC5	A		CI,1	X'1FC5'	
181	01 01FE5	68101FE5	A		BGE	\$	HANG UP IF LOADING OVER LOADER
182	01 01FE6	22300023	A		LI,3	X'123'	
183	01 01FE7	3030003D	A		AW,3	X'13D'	
184	01 01FE8	B2440003	A		LW,4	*3,2	RELLOCATE
185	01 01FE9	B5440001	A		STW,4	*1,2	DATA
186	01 01FEA	65201FE3	A		BIR,2	*-2	
187	01 01FEB	68001FC0	A		B	READ	
188	01 01FEC	31101FFD	A	ENDTEST	CW,1	CRDE2	TEST FOR END CARD CODE
189	01 01FED	69301FED	A		BNE	\$	HANG UP IF INVALID CODE
190	01 01FEE	32100022	A		LW,1	X'122'	
191	01 01FEF	30100023	A		AW,1	X'123'	
192	01 01FF0	30101FFA	A		AW,1	TOTALSUM	
193	01 01FF1	3110003F	A		CW,1	X'13F'	VERIFY CHECKSUM FOR ENTIRE DECK
194	01 01FF2	69301FF2	A		BNE	\$	HANG UP IF CHECKSUM ERROR
195	01 01FF3	68000023	A		B	X'123'	ENTER PROGRAM
196	01 01FF4	00000000	A		DATA	0,0,0,0,0,0	
	01 01FF5	00000000	A				
	01 01FF6	00000000	A				
	01 01FF7	00000000	A				
	01 01FF8	00000000	A				
	01 01FF9	00000000	A				
	01 01FFA	00000000	A	TOTALSUM	PZE		
197	01 01FFB	F0000000	A	COCT03	DATA	X'F0000000'	
198	01 01FFC	C0000000	A	CRDE1	DATA	X'C0000000'	
199	01 01FFD	40000000	A	CRDE2	DATA	X'40000000'	
200	01 01FFE	02000088	A	READBRD	DATA	X'02000088'	
201	01 01FFF	0C000078	A		DATA	X'0C000078'	
202							
203				END			

APPENDIX B

This Appendix contains the T-charts for the multiply instructions. T-charts, essentially, are snapshots of various registers at specific phase and clock time.

TIME	SIGMA LOGIC SIMULATION, MW, CASE 0001				CS REGISTER
	A REGISTER	B REGISTER BC31	D REGISTER	D REGISTER	
PPR	80AA9FD4	00000000	0	00000000	FFFFFFF
PO1	00000000	7F55602B	1	00000000	00000000
PO2	00000000	1FD5580A	1	55555555	FFFFFFF
PO9	00000000	07F55602	1	00000000	00000000
P10	00000000	01FD5580	1	55555555	00000000
P10	15555555	407F5560	0	55555555	00000000
P10	10000000	101FD558	0	AAAAAAAA	0AAAAAAAA
P10	ECC00000	2407F556	0	00000000	05555555
P10	FA555555	5901FD55	0	00000000	02000000
P10	FE155555	56407F55	0	55555555	01000000
P10	AA900000	15901FD5	0	AAAAAAAA	2AAAAAAAA
P10	8AAC0000	356407F5	0	AAAAAAAA	55455555
P10	9D50FFFF	DD5901FD	0	AAAAAAAA	45560000
P10	9CAB1555	4756407F	0	AAAAAAAA	46A95555
P10	9C2A3AAA	B1DB901F	1	AAAAAAAA	47558AAA
P10	9C7546AA	9C756407	1	55555555	47155555
P10	E3BD51AA	871D5901	1	00000000	2AAAAAAAA
P10	F249FECC	11C75640	0	00000000	11440055
P10	F8C37FAS	5471D590	0	55555555	0R200020
P10	A96D8AB4	151C7564	0	00000000	2C2CAA92
P11	D58E3546	D51C7564	0	00000000	00000001
P15	D58E3547	D51C7564	0	00000000	00000001

TIME	SIGMA LOGIC SIMULATION, MW, CASE 0002				CS REGISTER
	A REGISTER	B REGISTER BC31	D REGISTER	D REGISTER	
PPR	7F56BA80	00000000	0	00000000	FFFFFFF
PO1	00000000	7F56BA80	0	00000000	00000000
PO2	00000000	1FD5AEAD	0	FC7CF1CC	00000000
PO9	00000000	07F56BA8	0	00000000	00000000
P10	00000000	C1FD5AEA	0	00000000	00000000
P10	00000000	007F56BA	0	00000000	00000000
P10	00000000	001FD5AE	0	F8F9E398	00000000
P10	FE3E78E6	0007F56B	0	F8F9E398	00000000
P10	81B1E6DF	80C1FD5A	1	F8F9E398	7C1C3040
P10	81550041	E0007F56	1	03830E33	7C5CF16C
P10	FFA2BC87	B8001FD5	1	03830E33	00AA86B0
P10	FF22CD01	1E0007F5	0	03830E33	01D14759
P10	FF5C211A	C78001FD	0	F8F9E398	01C1A788
P10	81991942	B1E0007F	0	FC7CF1CC	7CECD1CC
P10	80424E50	BC78001F	1	FC7CF1CC	7E7E68E6
P10	8C9035DE	AF1E0007	1	03830E33	7E3F3462
P10	FF4BC3E3	EBC78001	1	00000000	01499A39
P10	FF80A676	8AF1E000	0	00000000	0CA48110
P10	FFC90909	92BC7800	0	F8F9E398	00404008
P10	81DC2A92	74AF1E00	0	00000000	7C64A0CC
P11	FE40CB5E	74AF1E00	0	00000000	00000001
P15	FE40CB5F	74AF1E00	0	00000000	00000001

TIME	SIGMA LOGIC SIMULATION, MW, CASE 0003				CS REGISTER
	A REGISTER	B REGISTER BC31	D REGISTER		
PPR	3DF91CF8	00000000 0	00000000	FFFFFFF	
P01	00000000	3DF91CF8 0	00000000	00000000	
P02	00000000	0F7E473E 0	59C61C18	00000000	
P09	00000000	03DF91CF 0	00000000	00000000	
P10	00000000	00F7E473 1	B38C3830	00000000	
P10	2CE30E0C	003DF91C 1	A639E3E7	00000000	
P10	E2B6BB7A	C00F7E47 0	00000000	12108102	
P10	FC298E9E	0003DF91 1	59C61C18	01084081	
P10	E939F481	D000F7E4 0	A639E3E7	2C84064C	
P10	98E1044A	94003DF9 0	B38C3830	561CF362	
P10	DF5C73C6	1000F7E 0	00000000	49461831	
P10	E5869AFD	D74003DF 0	59C61C18	24A20800	
P10	E638A3B9	75D000F7 1	B38C3830	32C30C0C	
P10	D9DDE5E1	5D74003D 1	A639E3E7	5944141C	
P10	89A80486	975D000F 0	00000000	6CAEF2F2	
P10	F941BD9D	15D74003 1	B38C3830	04540041	
P10	D3A6617B	1575D000 1	A639E3E7	58A21C08	
P10	8B4F67A5	255D7400 0	00000000	69513085	
P10	F88795C4	39575D00 0	59C61C18	04A09052	
P10	E9784663	AE55D740 0	00000000	2C434A28	
P11	15BB908B	AE55D740 0	00000000	00000001	
P15	15BB908B	AE55D740 0	00000000	00000001	

TIME	SIGMA LOGIC SIMULATION, MW, CASE 0004				CS REGISTER
	A REGISTER	B REGISTER BC31	D REGISTER		
PPR	5BD80E1D	00000000 0	00000000	FFFFFFF	
P01	00000000	5BD80E1D 0	00000000	00000000	
P02	00000000	16F60387 0	F1C3C731	00000000	
P09	00000000	05BD80E1 1	F1C3C731	00000000	
P10	FC70F1CC	416F6C38 0	0E3C38CE	00000000	
P10	FC933240	905BD80E 0	E3878E62	06181866	
P10	86432911	3416F603 0	00000000	73498D91	
P10	FD42A908	0D05BD80 1	E3878E62	01208488	
P10	87F968F8	A3416F60 0	0E3C38CE	70814604	
P10	FE51058C	A8D05BD8 0	F1C3C731	035CB466	
P10	83339DB6	FA3416F6 0	00000000	79A8C292	
P10	FEA6D7C9	3E8D058D 0	00000000	00904049	
P10	FF8DA5E0	0FA3416F 0	E3878E62	00402024	
P10	871282E9	A3E8D05B 1	F1C3C731	71C2D230	
P10	81C4E5FA	28FA3416 1	0E3C38CE	78E16118	
P10	FDC66F0B	2A3E8D05 1	00000000	047230ED	
P10	FE6D17F9	9A8FA341 0	0E3C38CE	02211004	
P10	FC9C0FCC	C6A3E8D0 0	E3878E62	07168866	
P10	86034272	11A8FA34 0	F1C3C731	73CB4733	
P10	8102FC9C	146A3E8D 0	00000000	79F1A399	
P11	FAE49435	946A3E8D 0	00000000	00000001	
P15	FAE49435	946A3E8D 0	00000000	00000001	

TIME	A REGISTER	SIGMA LOGIC SIMULATION, MW, CASE 0005		CS REGISTER	
		B REGISTER BC31	D REGISTER		
PPR	7CF5C8E1	00000000	0	00000000	FFFFFFF
P01	00000000	7CF5C8E1	0	00000000	00000000
P02	00000000	1F3D7238	0	3F01FC03	00000000
P09	00000000	07CF5C8E	0	3F01FC03	00000000
P10	0FC07F00	C1F3D723	0	C0000000	00000000
P10	03F01FC0	307CF5C8	1	7E03F806	00000000
P10	1F7CF9F1	8C1F3D72	0	C0FE03FC	01000000
P10	F7A0BD83	6307CF5C	0	3F01FC03	008E04F8
P10	F207D15E	28C1F307	0	7E03F806	1BD05E41
P10	E5F51DC6	6A307CF5	1	00000000	3D01EC23
P10	F63D3C79	5A8C1F3D	0	C0FE03FC	12808601
P10	8910EE61	16A307CF	0	7E03F806	695E033C
P10	E7934556	F5A8C1F3	1	3F01FC03	34897512
P10	F806F311	FD6A307C	1	C0FE03FC	1BC0BA89
P10	880E1299	3F5A8C1F	0	00000000	6DE359CC
P10	F97B52D5	7FD6A307	1	3F01FC03	04010844
P10	F09EE9A4	9FF5A8C1	1	C0FE03FC	1E80AC22
P10	88B8119E	87FD6A30	0	00000000	684F54D2
P10	F8FDD153	C1FF5A8C	0	7E03F806	04040849
P10	E0BE8847	107FD6A3	0	00000000	3E02EC21
P11	1EC17468	907FD6A3	0	00000000	00000001
P15	1EC17469	907FD6A3	0	00000000	00000001

TIME	A REGISTER	SIGMA LOGIC SIMULATION, MW, CASE 0006		CS REGISTER	
		B REGISTER BC31	D REGISTER		
PPR	8C178F32	00000000	0	00000000	FFFFFFF
P01	00000000	73E870CD	1	00000000	00000000
P02	00000000	1CFA1C33	0	70000000	FFFFFFF
P09	00000000	073E870C	1	1FFFFFFF	00000000
P10	C7FFFFFF	C1CFA1C3	0	70000000	00000000
P10	EDFFFFFF	C073E870	1	8FFFFFFF	20000000
P10	90800000	001CFA1C	0	70000000	56FFFFFF
P10	ED9FFFFFF	C0073E87	0	8FFFFFFF	28400000
P10	92880000	0001CFA1	1	00000000	56FFFFFF
P10	F119FFFF	C00073E8	0	70000000	09440000
P10	E2177FFF	C0001CFA	0	1FFFFFFF	38800000
P10	B15A2000	0000073E	0	00000000	1D4BFFFF
P10	E3C467FF	C00001CF	0	1FFFFFFF	08A51000
P10	BF17A200	00000073	1	1FFFFFFF	05D28BFF
P10	A94EB980	C000001C	1	70000000	0FEBDDFF
P10	F5A9591F	C0000007	0	00000000	14A54CC0
P10	F8430577	C0000001	1	8FFFFFFF	0A50A400
P10	9F7B17A2	00000000	0	70000000	4529D28B
P10	EA94B146	40000000	0	1FFFFFFF	2A948951
P10	B7FFF1FA	20000000	0	00000000	154A5CAB
P11	CD4A4EA5	E0000000	0	00000000	00000001
P15	CD4A4EA5	E0000000	0	00000000	00000001

TIME	A REGISTER	SIGMA LOGIC SIMULATION, MW, CASE 0007		D REGISTER	CS REGISTER
		B REGISTER BC31			
PPR	634AC271	00000000	0	00000000	FFFFFFF7
P01	00000000	634AC271	0	00000000	00000000
P02	00000000	18D2B09C	0	CDB53C70	00000000
P09	00000000	0634AC27	0	CDB53C70	00000000
P10	F36D4F1C	018D2B09	1	00000000	00000000
P10	FCDB53C7	00634AC2	0	324AC38F	00000000
P10	F3A46412	0018D2B0	0	9B6A78E0	182521C3
P10	9C3ACF4C	700634AC	0	9B6A78E0	4D923061
P10	9280A1F3	5C018D2B	0	00000000	4E9D3C30
P10	F70B6770	0700634A	1	00000000	01481018
P10	FD90DDDA	35C018D2	1	324AC38F	00840008
P10	F3D71797	4D700634	1	324AC38F	184060C5
P10	F6774937	635C018D	0	324AC38F	192161C3
P10	F7473ADE	C8D70063	0	CDB53C70	1931A0C3
P10	88F0E998	7235C018	1	CDB53C70	6E9A9C69
P10	8AF7D260	AC8D7006	0	324AC38F	66585E3C
P10	F7B953F4	CB235C01	0	CDB53C70	112D6916
P10	8AC841A4	92C8D700	0	9B6A78E0	6ADEBC8A
P10	9EDF217F	B4B235C0	0	CDB53C70	45653C50
P10	8583C857	ED2C8D70	0	00000000	66FA9E38
P11	EC7E668F	ED2C8D70	0	00000000	00000001
P15	EC7E668F	ED2C8D70	0	00000000	00000001

TIME	A REGISTER	SIGMA LOGIC SIMULATION, MW, CASE 0008		D REGISTER	CS REGISTER
		B REGISTER BC31			
PPR	E486C662	00000000	0	00000000	FFFFFFF8
P01	00000000	1879399D	1	00000000	00000000
P02	00000000	06DE4E67	0	31C3C1F0	FFFFFFF8
P09	00000000	01B79399	1	9C787C1F	00000000
P10	E71E1F07	C06DE4E6	0	31C3C1F0	00000000
P10	F5B777BD	C01B7939	0	9C787C1F	10810080
P10	9E5382C8	8006DE4E	0	9C787C1F	4A58BA4E
P10	921CD126	6001B793	0	CE3C3E0F	4F2C5D27
P10	84C32C83	B8006DE4	1	9C787C1F	671E2E93
P10	9FE95F83	DE001B79	0	31C3C1F0	422D1649
P10	F801E20E	B78006DE	0	CE3C3E0F	09FA48E0
P10	8F325DF8	5CE001B7	0	CE3C3E0F	659A55C7
P10	89250DBC	3778006D	1	9C787C1F	679D2E87
P10	9CB017C9	3DDE001B	0	31C3C1F0	469E964F
P10	FAFB501D	8F778006	1	9C787C1F	0A494BE4
P10	9B3299F9	8FDDE001	1	31C3C1F0	4D3CAC0E
P10	F9F37D01	E3F77800	0	31C3C1F0	0C9944FC
P10	F12A7E03	48FDDE00	0	9C787C1F	1CE9A2F8
P10	9C6EE839	223F7780	0	00000000	4E343F0D
P10	F496B5C0	388FDDE0	0	00000000	06121404
P11	FAA8C9D1	B88FDDE0	0	00000000	00000001
P15	FAA8C9D1	B88FDDE0	0	00000000	00000001

TIME	A REGISTER	SIGMA LOGIC SIMULATION, MW, CASE 0009		D REGISTER	CS REGISTER
		B REGISTER BC31			
PPR	5A5ACF3B	00000000	0	00000000	FFFFFFF
P01	00000000	5A5ACF3B	0	00000000	00000000
P02	00000000	1696B3CE	1	DF4F3C70	00000000
P09	00000000	05A5ACF3	1	20B0C38F	00000000
P10	082C30E3	C1696B3C	1	20B0C38F	00000000
P10	0A273CDB	005A5ACF	0	00000000	00100041
P10	028DCF26	801696B3	1	DF4F3C70	00000020
P10	F770BCDD	9005A5AC	1	20B0C38F	01068610
P10	F5B1BE50	B401696B	0	00000000	1098434E
P10	F94A7F47	90005A5A	1	DF4F3C70	08480120
P10	88935085	F74C1696	1	20B0C38F	6CA51EB0
P10	F1E1A36E	BDD005A5	1	20B0C38F	1458A942
P10	F1427268	DF740169	0	20B0C38F	187851A7
P10	F262B810	17DD005A	0	BE9E78E0	183829D7
P10	95313A49	C5F74016	0	DF4F3C70	5D1D1C68
P10	8508C694	417DD005	0	BE9E78E0	6E8E9E34
P10	95720810	205F7401	0	BE9E78E0	574F6F5A
P10	9F28C7EA	8817DD00	0	DF4F3C70	4BAF3428
P10	82F233EC	A205F740	0	DF4F3C70	6F979A34
P10	8C8AA56A	28817DD0	0	00000000	67EB9D3A
P11	F47642A4	28817DD0	0	00000000	00000001
P15	F47642A5	28817DD0	0	00000000	00000001

TIME	A REGISTER	SIGMA LOGIC SIMULATION, MW, CASE 0010		D REGISTER	CS REGISTER
		B REGISTER BC31			
PPR	55555551	00000000	0	00000000	FFFFFFF
P01	00000000	55555551	0	00000000	00000000
P02	00000000	15555554	0	FFFFFFF	00000000
P09	00000000	05555555	0	FFFFFFF	00000000
P10	FFFFFFF	C1555555	0	00000000	00000000
P10	FFFFFFF	F0555555	0	FFFFFFF	00000000
P10	80000000	3C155555	0	FFFFFFF	7FFFFFFF
P10	80000000	2F055555	0	FFFFFFF	7FFFFFFF
P10	80000000	2BC15555	0	FFFFFFF	7FFFFFFF
P10	80000000	2AF05555	0	FFFFFFF	7FFFFFFF
P10	80000000	2ABC1555	0	FFFFFFF	7FFFFFFF
P10	80000000	2AAF0555	0	FFFFFFF	7FFFFFFF
P10	80000000	2AABC155	0	FFFFFFF	7FFFFFFF
P10	80000000	2AAAF055	0	FFFFFFF	7FFFFFFF
P10	80000000	2AAAABC15	0	FFFFFFF	7FFFFFFF
P10	80000000	2AAAAF05	0	FFFFFFF	7FFFFFFF
P10	80000000	2AAAABC1	0	FFFFFFF	7FFFFFFF
P10	80000000	2AAAAAF0	0	FFFFFFF	7FFFFFFF
P10	80000000	2AAAAABC	0	FFFFFFF	7FFFFFFF
P10	80000000	2AAAAAAF	0	00000000	7FFFFFFF
P11	FFFFFFF	AAAAAAF	0	00000000	00000001
P15	FFFFFFF	AAAAAAF	0	00000000	00000001

TIME	A REGISTER	SIGMA LOGIC SIMULATION, MW , CASE 0013		13	
		B REGISTER BC31	D REGISTER	CS REGISTER	
PPR	B3333334	00000000	0	00000000	FFFFFFFF
P01	00000000	4CCCCCB	1	00000000	00000000
P02	00000000	13333332	1	00000000	FFFFFFFF
P09	00000000	04CCCCC	1	00000000	00000000
P10	00000000	01333333	0	00000000	00000000
P10	00000000	004CCCC	1	FFFFFFFF	00000000
P10	FFFFFFFF	CC133333	0	00000000	00000000
P10	FFFFFFFF	C0C4CCCC	1	FFFFFFFF	00000000
P10	80000000	00013333	0	00000000	7FFFFFFF
P10	FFFFFFFF	CC004CCC	1	FFFFFFFF	00000000
P10	80000000	00001333	0	00000000	7FFFFFFF
P10	FFFFFFFF	C00004CC	1	FFFFFFFF	00000000
P10	80000000	00000133	0	00000000	7FFFFFFF
P10	FFFFFFFF	C000004C	1	FFFFFFFF	00000000
P10	80000000	00000013	0	00000000	7FFFFFFF
P10	FFFFFFFF	C0000004	1	FFFFFFFF	00000000
P10	80000000	00000001	0	00000000	7FFFFFFF
P10	FFFFFFFF	C0000000	0	FFFFFFFF	00000000
P10	80000000	00000000	0	FFFFFFFF	7FFFFFFF
P10	80000000	00000000	0	00000000	7FFFFFFF
P11	00000000	00C00000	0	00000000	00000001
P15	00000000	00000000	0	00000000	00000001

TIME	A REGISTER	SIGMA LOGIC SIMULATION, MW , CASE 0014		14	
		B REGISTER BC31	D REGISTER	CS REGISTER	
PPR	B666666E	00000000	0	00000000	FFFFFFFF
P01	00000000	49999991	1	00000000	00000000
P02	00000000	12666664	0	CCCCCCCC	FFFFFFFF
P09	00000000	04999999	0	66666667	00000000
P10	19999999	C1266666	0	00000000	00000000
P10	06666666	40499999	0	33333333	00000000
P10	0D555555	60126666	0	66666667	01111111
P10	1A888888	E8049999	0	33333333	02AAAAAA
P10	0AC44444	6A012666	0	66666667	09555555
P10	197DDDDD	BA804999	0	33333333	05222222
P10	08DB3333	1EA01266	0	66666667	08999999
P10	19493333	47A80499	0	33333333	056D9999
P10	0BC5E666	51EAC126	0	66666667	08B49999
P10	1945C666	147A8049	0	33333333	05727333
P10	0BC12199	851EA012	0	66666667	08B9B999
P10	1947BF99	E147A804	0	33333333	057090CC
P10	0BC10719	B851EA01	0	66666667	08B9D9CC
P10	1947AE2C	AE147A80	0	00000000	057CA3A6
P10	070DC362	AB851EA0	0	33333333	00A05112
P10	0D27A850	FAE147A8	0	00000000	0190A999
P11	0EB851EA	3AE147A8	0	00000000	00000001
P15	0EB851EB	3AE147A8	0	00000000	00000001

TIME	A REGISTER	SIGMA LOGIC SIMULATION, MW, CASE 0015		D REGISTER	CS REGISTER
		B REGISTER BC31			
PPR	CBCBCBCB	00000000	0	00000000	FFFFFFF
P01	00000000	34343434	1	00000000	00000000
P02	00000000	00000000	0	33333333	FFFFFFF
P09	00000000	03434343	0	CCCCCCCC	00000000
P10	F3333333	00000000	1	CCCCCCCC	00000000
P10	8FFFFFFF	D0343434	0	33333333	60000000
P10	F7333333	04000000	0	CCCCCCCC	11999999
P10	8A999999	E1034343	0	00000000	6ACCCCCC
P10	F8155555	5C400000	1	CCCCCCCC	05444444
P10	8C677777	67103434	0	33333333	66222222
P10	F68D9999	A9C40000	0	CCCCCCCC	13119999
P10	8A603333	0A710343	0	00000000	6B2ECCCC
P10	F853BFFF	C29C4000	1	CCCCCCCC	05100000
P10	8C63DCCC	C0A71034	0	33333333	66284666
P10	F65E2A66	5029C400	0	CCCCCCCC	1311A833
P10	8A60D366	640A7103	0	00000000	6B2E5533
P10	F853A195	69029C40	1	CCCCCCCC	05102891
P10	8C63D172	1A40A710	0	33333333	6628544A
P10	F65E2D82	F69029C4	0	CCCCCCCC	1311A8B9
P10	8A60D27D	FDA40A71	0	00000000	6B2E5644
P11	F58F28C2	3DA40A71	0	00000000	00000001
P15	F58F28C3	3DA40A71	0	00000000	00000001

TIME	A REGISTER	SIGMA LOGIC SIMULATION, MW, CASE 0016		D REGISTER	CS REGISTER
		B REGISTER BC31			
PPR	7F7F7F7F	00000000	0	00000000	FFFFFFF
P01	00000000	7F7F7F7F	0	00000000	00000000
P02	00000000	1FDFDFDF	1	6DB6DB6D	00000000
P09	00000000	07F7F7F7	1	92492492	00000000
P10	E4924924	81FDFDFD	1	00000000	00000000
P10	F9249249	307F7F7F	0	00000000	00000000
P10	FE492492	4C1FDFDF	1	DB6DB6DA	00000000
P10	C9492492	1307F7F7	1	92492492	6D249249
P10	8D892492	44C1FDFD	1	00000000	64A49249
P10	FA486DB6	E1307F7F	0	00000000	02400000
P10	FE02DB6D	B84C1FDF	1	DB6DB6DA	01200000
P10	C913DB6D	EE1307F7	1	92492492	6D904924
P10	8DB2ADB6	FB84C1FD	1	00000000	6488A492
P10	FA4E8249	0EE1307F	0	00000000	02405249
P10	FE03B400	13B84C1F	1	DB6DB6DA	01200124
P10	C91380FF	AAEE1307	1	92492492	6D90DA00
P10	8DB29F9B	693B84C1	1	00000000	6488C049
P10	FA4E97F4	AA4EE130	0	00000000	02404004
P10	FE03B5FC	0A93B84C	0	DB6DB6DA	01200002
P10	C91380C9	12A4EE13	0	00000000	6D90DA6D
P11	36A45B36	12A4EE13	0	00000000	00000001
P15	36A45B37	12A4EE13	0	00000000	00000001

TIME	A REGISTER	SIGMA LOGIC SIMULATION, MW, CASE 0017		D REGISTER	17
		B REGISTER BC31			CS REGISTER
PPR	07870787	00000000	0	00000000	FFFFFFF
P01	00000000	07870787	0	00000000	00000000
P02	00000000	01F1C1E1	1	DDDDDDDD	00000000
P09	00000000	00787078	0	22222222	00000000
P10	08888888	801E1C1E	0	BBBBBBBA	00000000
P10	ECCCCCCC	80078707	0	00000000	04444444
P10	FA222222	2C01F1C1	1	BBBBBBBA	02222222
P10	90EEEEEE	88007870	0	22222222	5D111111
P10	F8F77777	62C01E1C	0	BBBBBBBA	08111111
P10	92177777	28E00787	0	00000000	5DD99999
P10	F3F3BBBB	AA2C01E1	1	00000000	08088888
P10	FEFECCCC	CA8B0078	0	22222222	00004444
P10	F7372AAA	82A2C01E	0	BBBBBBBA	11112222
P10	97676CCC	80A8B007	0	00000000	59999555
P10	F3BFBE66	702A2C01	1	BBBBBBBA	08F08222
P10	902121FF	9CCA8B00	0	22222222	5DDDD011
P10	FBF7B7B3	2702A2C0	0	BBBBBBBA	08109099
P10	92172724	39C0A8B0	0	00000000	5DD9D9DD
P10	F3F3BFBE	6E702A2C	0	00000000	08088082
P10	FEFECFCF	1B9C0A8B	0	00000000	00004041
P11	FEFF1010	1B9C0A8B	0	00000000	00000001
P15	FEFF1011	1B9C0A8B	0	00000000	00000001

TIME	A REGISTER	SIGMA LOGIC SIMULATION, MW, CASE 0018		D REGISTER	18
		B REGISTER BC31			CS REGISTER
PPR	6B6D36D9	00000000	0	00000000	FFFFFFF
P01	00000000	6B6D36D9	0	00000000	00000000
P02	00000000	1ADB4DB6	0	FFFFFFF	00000000
P09	00000000	06B6D36D	0	FFFFFFF	00000000
P10	FFFFFFF	C1ADB4DB	0	FFFFFFE	00000000
P10	80000000	706B6D36	1	FFFFFFF	7FFFFFFF
P10	80000000	1C1ADB4D	1	00000000	7FFFFFFF
P10	FFFFFFF	E706B6D3	0	00000000	00000000
P10	FFFFFFF	C9C1ADB4	1	FFFFFFE	00000000
P10	80000000	52706B6D	0	00000000	7FFFFFFF
P10	FFFFFFF	E49C1ADB	0	FFFFFFF	00000000
P10	80000000	092706B6	1	FFFFFFF	7FFFFFFF
P10	80000000	3249C1AD	1	00000000	7FFFFFFF
P10	FFFFFFF	EC927C6B	0	00000000	00000000
P10	FFFFFFF	C3249C1A	1	FFFFFFE	00000000
P10	80000000	52C92706	1	00000000	7FFFFFFF
P10	FFFFFFF	E4B249C1	1	00000000	00000000
P10	FFFFFFF	C92C9270	0	00000000	00000000
P10	FFFFFFF	D24B249C	0	FFFFFFE	00000000
P10	80000000	5492C927	0	00000000	7FFFFFFF
P11	FFFFFFF	9492C927	0	00000000	00000001
P15	FFFFFFF	9492C927	0	00000000	00000001

TIME	A REGISTER	SIGMA LBGIC SIMULATION, MW, CASE 0019		D REGISTER	CS REGISTER
		B REGISTER BC31			
PPR	4A32694C	00000000	0	00000000	FFFFFFF
P01	00000000	4A32694C	0	00000000	00000000
P02	00000000	128C9A53	0	EEEEEEEE	00000000
P09	00000000	04A32694	1	00000000	00000000
P10	00000000	0128C9A5	0	11111111	00000000
P10	04444444	404A3269	0	EEEEEEEE	00000000
P10	FAAAAAAA	A0128C9A	0	EEEEEEEE	02222222
P10	85999999	A804A326	0	EEEEEEEE	75555555
P10	87888888	AAC128C9	0	DDDDDDDC	72EEEEEE
P10	8A2EEEEEE	8A804A32	0	DDDDDDDC	68E66666
P10	8F055555	32A0128C	0	EEEEEEEE	65F77777
P10	81073333	0CA804A3	0	DDDDDDDC	77F38888
P10	8ACA5555	232A0128	1	00000000	6AFBDDDD
P10	F8086222	28CA804A	0	11111111	05652AAA
P10	FB1F1666	6A32A012	0	EEEEEEEE	08809111
P10	875C5A66	6A8CA804	0	DDDDDDDC	75474B33
P10	8BF18322	5AA32A01	0	DDDDDDDC	6AAEADBB
P10	8F20B0D1	56A8CA80	0	00000000	65FEDEDD
P10	FAB79B83	15AA32A0	0	EEEEEEEE	02904868
P10	85B24F41	656A8CA8	0	00000000	75586575
P11	FB0DB486	656A8CA8	0	00000000	00000001
P15	FB0DB487	656A8CA8	0	00000000	00000001

TIME	A REGISTER	SIGMA LOGIC SIMULATION, MW, CASE 0020		D REGISTER	CS REGISTER
		B REGISTER BC31			
PPR	2AAAAAA6	00000000	0	00000000	FFFFFFF
P01	00000000	2AAAAAA6	0	00000000	00000000
P02	00000000	0AAAAAA9	0	7FFFFFFF	00000000
P09	00000000	02AAAAAA	0	FFFFFFFE	00000000
P10	3FFFFFFF	80AAAAAA	0	7FFFFFFF	00000000
P10	10000000	202AAAAA	0	FFFFFFFE	1FFFFFFF
P10	3C000000	680AAAAA	0	FFFFFFFE	0FFFFFFF
P10	33000000	5A02AAAA	0	FFFFFFFE	1FFFFFFF
P10	34C00000	5680AAAA	0	FFFFFFFE	1FFFFFFF
P10	35300000	55A02AAA	0	FFFFFFFE	1FFFFFFF
P10	354C0000	55680AAA	0	FFFFFFFE	1FFFFFFF
P10	35530000	555A02AA	0	FFFFFFFE	1FFFFFFF
P10	3554C000	555680AA	0	FFFFFFFE	1FFFFFFF
P10	35553000	5555A02A	0	FFFFFFFE	1FFFFFFF
P10	35554C00	555680A0	0	FFFFFFFE	1FFFFFFF
P10	35555300	55555A02	0	FFFFFFFE	1FFFFFFF
P10	355554C0	55555680	0	FFFFFFFE	1FFFFFFF
P10	35555530	555555A0	0	FFFFFFFE	1FFFFFFF
P10	3555554C	55555568	0	00000000	1FFFFFFF
P10	0AAAAAAC	D555555A	0	00000000	0AAAAAA6
P11	15555552	D555555A	0	00000000	00000001
P15	15555553	D555555A	0	00000000	00000001

TIME	A REGISTER	SIGMA LOGIC SIMULATION, MW, CASE 0021		D REGISTER	CS REGISTER
		B REGISTER	BC31		
PPR	80000000	00000000	0	00000000	FFFFFFF
P01	00000000	7FFFFFFF	1	00000000	00000000
P02	00000000	1FFFFFFF	1	FFFFFFF	FFFFFFF
P09	00000000	07FFFFFF	1	00000000	00000000
P10	00000000	01FFFFFF	1	00000000	00000000
P10	00000000	007FFFFFF	1	00000000	00000000
P10	00000000	001FFFFFF	1	00000000	00000000
P10	00000000	0007FFFF	1	00000000	00000000
P10	00000000	0001FFFF	1	00000000	00000000
P10	00000000	00007FFF	1	00000000	00000000
P10	00000000	00001FFF	1	00000000	00000000
P10	00000000	000007FF	1	00000000	00000000
P10	00000000	000001FF	1	00000000	00000000
P10	00000000	0000007F	1	00000000	00000000
P10	00000000	0000001F	1	00000000	00000000
P10	00000000	00000007	1	00000000	00000000
P10	00000000	00000001	1	00000000	00000000
P10	00000000	00000000	0	00000000	00000000
P10	00000000	00000000	0	00000001	00000000
P10	00000000	40000000	0	00000000	00000000
P11	00000000	80000000	0	00000000	00000001
P15	00000001	80000000	0	00000000	00000001

TIME	A REGISTER	SIGMA LOGIC SIMULATION, MW, CASE 0022		D REGISTER	CS REGISTER
		B REGISTER	BC31		
PPR	7FFFFFFF	00000000	0	00000000	FFFFFFF
P01	00000000	7FFFFFFF	0	00000000	00000000
P02	00000000	1FFFFFFF	1	7FFFFFFF	00000000
P09	00000000	07FFFFFF	1	80000000	00000000
P10	E0000000	01FFFFFF	1	00000000	00000000
P10	F8000000	107FFFFFF	1	00000000	00000000
P10	FE000000	041FFFFFF	1	00000000	00000000
P10	FF800000	0107FFFF	1	00000000	00000000
P10	FFE00000	0041FFFF	1	00000000	00000000
P10	FFF80000	00107FFF	1	00000000	00000000
P10	FFFE0000	00041FFF	1	00000000	00000000
P10	FFFF8000	000107FF	1	00000000	00000000
P10	FFFFE000	000041FF	1	00000000	00000000
P10	FFFFF800	0000107F	1	00000000	00000000
P10	FFFFFE00	0000041F	1	00000000	00000000
P10	FFFFFF80	00000107	1	00000000	00000000
P10	FFFFFFE0	00000041	1	00000000	00000000
P10	FFFFFFF8	00000010	0	00000000	00000000
P10	FFFFFFFE	00000004	0	FFFFFFFE	00000000
P10	C0000000	00000001	0	00000000	7FFFFFFF
P11	3FFFFFFF	00000001	0	00000000	00000001
P15	3FFFFFFF	00000001	0	00000000	00000001

TIME	A REGISTER	SIGMA LOGIC SIMULATION, MW, CASE 0023		D REGISTER	CS REGISTER
		B REGISTER BC31			
PPR	80000000	00000000	0	00000000	FFFFFFF
P01	00000000	7FFFFFFF	1	00000000	00000000
P02	00000000	1FFFFFFF	1	80000000	FFFFFFF
P09	00000000	07FFFFFF	1	00000000	00000000
P10	00000000	01FFFFFF	1	00000000	00000000
P10	00000000	007FFFFFF	1	00000000	00000000
P10	00000000	001FFFFFF	1	00000000	00000000
P10	00000000	0007FFFF	1	00000000	00000000
P10	00000000	0001FFFF	1	00000000	00000000
P10	00000000	00007FFF	1	00000000	00000000
P10	00000000	00001FFF	1	00000000	00000000
P10	00000000	00007FF	1	00000000	00000000
P10	00000000	00001FF	1	00000000	00000000
P10	00000000	000007F	1	00000000	00000000
P10	00000000	000001F	1	00000000	00000000
P10	00000000	0000007	1	00000000	00000000
P10	00000000	0000001	1	00000000	00000000
P10	00000000	0000000	0	00000000	00000000
P10	00000000	0000000	0	FFFFFFF	00000000
P10	3FFFFFFF	00000000	0	00000000	00000000
P11	40000000	00000000	0	00000000	00000001
P15	40000000	00000000	0	00000000	00000001

TIME	A REGISTER	SIGMA LOGIC SIMULATION, MW, CASE 0024		D REGISTER	CS REGISTER
		B REGISTER BC31			
PPR	80000000	00000000	0	00000000	FFFFFFF
P01	00000000	7FFFFFFF	1	00000000	00000000
P02	00000000	1FFFFFFF	1	00000001	FFFFFFF
P09	00000000	07FFFFFF	1	00000000	00000000
P10	00000000	01FFFFFF	1	00000000	00000000
P10	00000000	007FFFFFF	1	00000000	00000000
P10	00000000	001FFFFFF	1	00000000	00000000
P10	00000000	0007FFFF	1	00000000	00000000
P10	00000000	0001FFFF	1	00000000	00000000
P10	00000000	00007FFF	1	00000000	00000000
P10	00000000	00001FFF	1	00000000	00000000
P10	00000000	00007F	1	00000000	00000000
P10	00000000	000001F	1	00000000	00000000
P10	00000000	0000007	1	00000000	00000000
P10	00000000	0000001	1	00000000	00000000
P10	00000000	0000000	0	00000000	00000000
P10	00000000	0000000	0	FFFFFFF	00000000
P10	FFFFFFF	40000000	0	00000000	00000000
P11	FFFFFFF	80000000	0	00000000	00000001
P15	FFFFFFF	80000000	0	00000000	00000001

TIME	A REGISTER	SIGMA LOGIC SIMULATION, MW, CASE 0029		D REGISTER	CS REGISTER
		B REGISTER	BC31		
PPR	31C3C1F0	00000000	0	00000000	FFFFFFF
P01	00000000	31C3C1F0	0	00000000	00000000
P02	00000000	0C70F07C	0	79999999	00000000
P09	00000000	031C3C1F	0	00000000	00000000
P10	00000000	00C70F07	1	00000000	00000000
P10	00000000	0031C3C1	1	86666666	00000000
P10	E1999999	80CC70F0	0	00000000	00000000
P10	F8666666	70031C3C	0	F3333332	00000000
P10	C2055555	1C00C70F	0	00000000	78111111
P10	EEB11111	07C031C3	1	00000000	20088888
P10	F3AE6666	61C00C70	1	86666666	10000000
P10	99720000	1870031C	0	00000000	49133333
P10	F4184CCC	061C00C7	0	79999999	04890000
P10	E2423555	75870031	1	00000000	3A4C8444
P10	F603AC44	5061C00C	0	86666666	11200222
P10	98517200	17587003	0	F3333332	4B111333
P10	C81CD480	55D61C00	1	00000000	6D889999
P10	E9651346	55758700	0	86666666	24044840
P10	92C1CF58	155D61C0	0	79999999	52322123
P10	EE5A9DF8	95575870	0	00000000	2948C48C
P11	17A36285	15575870	0	00000000	00000001
P15	17A36285	15575870	0	00000000	00000001

TIME	A REGISTER	SIGMA LOGIC SIMULATION, MW, CASE 0030		D REGISTER	CS REGISTER
		B REGISTER	BC31		
PPR	82222222	00000000	0	00000000	FFFFFFF
P01	00000000	7DDDDDDD	1	00000000	00000000
P02	00000000	1F777777	0	59C61C18	FFFFFFF
P09	00000000	07DDDDDD	1	4C73C7CF	00000000
P10	D31CF1F3	C1F77777	0	59C61C18	00000000
P10	E2B8B87A	C07DDDDD	1	4C73C7CF	28820808
P10	A191DD2F	401F7777	0	59C61C18	345945A5
P10	F303A124	B007DDDD	1	4C73C7CF	18E8AE96
P10	A9E6321F	4C01F777	0	59C61C18	2C3103C3
P10	F7047F71	33007DDD	1	4C73C7CF	14F309D0
P10	ABE12C6C	ECC01F77	0	59C61C18	2A39A7A6
P10	F607A5F4	AB3007DD	1	4C73C7CF	15F09616
P10	ABE13D0B	7ACCO1F7	0	59C61C18	2A39C3EB
P10	F607B8BE	2EB3007D	1	4C73C7CF	15F08E85
P10	ABE13C7D	2BACCO1F	0	59C61C18	2A39C747
P10	F607B9C8	BAEB3007	1	4C73C7CF	15F08E2E
P10	ABE13C0A	4EBACCO1	1	59C61C18	2A39C7E7
P10	F607B9FD	73AEB300	0	00000000	15F08E05
P10	F8FDCDFE	1CEBACCO	0	4C73C7CF	0A0C4402
P10	AFA3938C	E73AEB30	0	00000000	2438E2E7
P11	D3DC7674	273AEB30	0	00000000	00000001
P15	D3DC7675	273AEB30	0	00000000	00000001

TIME	A REGISTER	SIGMA LOGIC SIMULATION, MW, CASE 0031		CS REGISTER
		B REGISTER BC31	D REGISTER	
PPR	021871E7	00000000	0	00000000
P01	00000000	021871E7	0	00000000
P02	00000000	00861C79	1	87777777
P09	00000000	0021871E	0	78888888
P10	1E222222	000861C7	0	00000000
P10	C4333333	10C21871	1	07111111
P10	B3733333	0400861C	0	03199999
P10	F2388888	A1002187	0	198CCCCC
P10	B956AAAA	98400861	1	0D566666
P10	ED003333	36100218	0	04AB1111
P10	E448EAAA	8D840086	0	36440888
P10	B7388333	13610021	0	13267555
P10	E907BD99	94D84008	0	09900088
P10	BB9E54FF	C5361002	0	04C35644
P10	8E0A9D73	014D8400	0	43EBA898
P10	F3784D92	30536100	0	01054499
P10	BF24F9F9	6C14D840	0	01B6264D
P10	EFA4B7ED	13053610	0	00921024
P10	FBCDA9F2	66C14D84	0	00400812
P10	FEE36878	19B05361	0	00200409
P11	FF036C81	19B05361	0	00000001
P15	FF036C81	19B05361	0	00000001

TIME	A REGISTER	SIGMA LOGIC SIMULATION, MW, CASE 0032		CS REGISTER
		B REGISTER BC31	D REGISTER	
PPR	AAAAAAAA	00000000	0	00000000
P01	00000000	55555555	1	00000000
P02	00000000	15555555	0	FC7CF1CC
P09	00000000	05555555	0	07061C67
P10	01C18719	C1555555	0	03830E33
P10	0090A24A	80555555	0	03830E33
P10	00F4CBDC	60155555	0	03830E33
P10	00CDE13A	88055555	0	03830E33
P10	00CBB2A0	DEC15555	0	03830E33
P10	00CA0B83	97805555	0	03830E33
P10	00CA333A	25E01555	0	03830E33
P10	00CA2E20	09780555	0	03830E33
P10	00CA28E3	825E0155	0	03830E33
P10	00CA2872	20978055	0	03830E33
P10	00CA2856	0825E015	0	03830E33
P10	00CA285F	02097805	0	03830E33
P10	00CA2859	40825E01	0	03830E33
P10	00CA2859	D0209780	0	03830E33
P10	00CA2859	B40825E0	0	03830E33
P10	00CA2859	AD020978	0	00000000
P11	012BAF66	AD020978	0	00000000
P15	012BAF67	AD020978	0	00000000

TIME	A REGISTER	SIGMA LOGIC SIMULATION, MW , CASE 0033		33	
		B REGISTER BC31	D REGISTER	CS REGISTER	
PPR	CD5B3C70	00000000	0	00000000	FFFFFFF
P01	00000000	32A4C38F	1	00000000	00000000
P02	00000000	0CA930E3	1	15555555	FFFFFFF
P09	00000000	032A4C38	1	00000000	00000000
P10	00000000	00CA930E	0	00000000	00000000
P10	00000000	0032A4C3	0	EAAAAAAAA	00000000
P10	FAAAAAAA	800CA930	1	D5555555	00000000
P10	8BFFFFFF	F0032A4C	0	15555555	68000000
P10	FDAAAAAA	8C00CA93	0	EAAAAAAAA	04AAAAAA
P10	84EAAAAA	930032A4	1	00000000	76555555
P10	FCFFFFFF	C400CA9	0	15555555	02200000
P10	FAF6AAAA	8130032A	0	EAAAAAAAA	0A12AAAA
P10	8693AAAA	904C00CA	0	EAAAAAAAA	75595555
P10	86581555	44130032	0	D5555555	734DD555
P10	88102555	7104C00C	0	D5555555	6BAEAAAA
P10	8DBAF6AA	8C413003	0	D5555555	648A12AA
P10	8F196C55	63104C00	1	00000000	62CD2B55
P10	FB7511C0	38C41300	0	15555555	0104942A
P10	FBC9342F	EE3104C0	0	EAAAAAAAA	08AA8AA0
P10	86724509	7B8C4130	0	00000000	75555555
P11	FBC79A5E	B88C4130	0	00000000	00000001
P15	FBC79A5F	B88C4130	0	00000000	00000001

TIME	A REGISTER	SIGMA LOGIC SIMULATION, MW , CASE 0034		34	
		B REGISTER BC31	D REGISTER	CS REGISTER	
PPR	11111111	00000000	0	00000000	FFFFFFF
P01	00000000	11111111	0	00000000	00000000
P02	00000000	04444444	0	03111111	00000000
P09	00000000	01111111	0	03111111	00000000
P10	00C44444	40444444	0	00000000	00000000
P10	00311111	10111111	0	03111111	00000000
P10	00C80000	04044444	0	00000000	00088888
P10	00302222	21011111	0	03111111	00040000
P10	00C94CCC	C8404444	0	00000000	00080000
P10	00305333	321C1111	0	03111111	00040000
P10	00C95088	8C840444	0	00000000	00080888
P10	00305600	03210111	0	03111111	00040044
P10	00C951D5	50C84044	0	00000000	00080800
P10	00305675	54321011	0	03111111	00040000
P10	00C951D9	150C8404	0	00000000	00080808
P10	00305674	65432101	0	03111111	00040004
P10	00C951D8	5950C840	0	00000000	0008080A
P10	00305674	96543210	0	03111111	00040004
P10	00C951D8	65950C84	0	00000000	0008080A
P10	00305674	99654321	0	00000000	00040004
P11	00345678	99654321	0	00000000	00000001
P15	00345679	99654321	0	00000000	00000001

TIME	A REGISTER	SIGMA LOGIC SIMULATION, B REGISTER BC31	MW , CASE 0035	D REGISTER	CS REGISTER
PPR	9696969D	00000000	0	00000000	FFFFFFF
P01	00000000	69696962	1	00000000	00000000
P02	00000000	1A5A5A58	1	66666666	FFFFFFF
P09	00000000	06969696	0	66666666	00000000
P10	19999999	81A5A5A5	0	99999999	00000000
P10	E0000000	20696969	0	33333333	00000000
P10	B7FFFFFF	F81A5A5A	0	99999999	00000000
P10	8F999999	8E069696	0	99999999	48CCCCC
P10	97833333	2381A5A5	0	33333333	44CCCCC
P10	B8133333	08E06969	0	33333333	08D9999
P10	A03E6666	42381A5A	0	99999999	1D89999
P10	89089999	908E0696	0	99999999	4CCCCC
P10	97178333	242381A5	0	33333333	44C4CCCC
P10	B8381333	0908E069	0	33333333	088D999
P10	A0203E66	4242381A	0	99999999	1D9D8999
P10	89090899	90908E06	0	99999999	4CCCCC
P10	97171783	24242381	0	33333333	44C4C4CC
P10	B8383813	090908E0	0	33333333	08888D9
P10	A020203E	42424238	0	99999999	1D9D9D89
P10	89090908	9090908E	0	00000000	4CCCCC
P11	D5D5D5D8	9090908E	0	00000000	00000001
P15	D5D5D5D9	9090908E	0	00000000	00000001

TIME	A REGISTER	SIGMA LOGIC SIMULATION, B REGISTER BC31	MW , CASE 0036	D REGISTER	CS REGISTER
PPR	89999999	00000000	0	00000000	FFFFFFF
P01	00000000	76666666	1	00000000	00000000
P02	00000000	1D999999	1	44444444	FFFFFFF
P09	00000000	07666666	0	44444444	00000000
P10	11111111	01D99999	0	77777777	00000000
P10	D9999999	80766666	0	77777777	08888888
P10	A9999999	901D9999	0	88888888	2CCCCC
P10	8FB88888	A4076666	0	77777777	54CCCCC
P10	AB000000	2901D999	0	88888888	28FFFFFF
P10	8ED11111	0A407666	0	77777777	55DDDDDD
P10	AB1EEEE	C2901D99	0	88888888	28FAAAAA
P10	8ED3FFFF	F0A40766	0	77777777	55DD5555
P10	AB1E7777	5C2901D9	0	88888888	28E88888
P10	8ED39DDD	D70A4076	0	77777777	55DDDDDD
P10	AB1E4DDD	F5C2901D	0	88888888	28E8EEEE
P10	8ED38622	3D70A407	0	77777777	55DD77FF
P10	AB1E41AA	8F5C2901	1	88888888	28E8F888
P10	8ED3806A	A3D70A40	0	44444444	55DDFDD
P10	E7D28E7C	E8F5C290	0	77777777	226AE226
P10	ACB3C6CB	*A3D70A*	0	00000000	33897338
P11	E06D3A06	CA3D70A*	0	00000000	00000001
P15	E06D3A07	CA3D70A*	0	00000000	00000001

TIME	A REGISTER	SIGMA LOGIC SIMULATION, MW, CASE 0037		D REGISTER	CS REGISTER
		B REGISTER BC31			
PPR	BBBBBBBB	00000000	0	00000000	FFFFFFF
P01	00000000	44444444	1	00000000	00000000
P02	00000000	11111111	0	E1C4C737	FFFFFFF
P09	00000000	04444444	0	1E3B38C8	00000000
P10	078ECE32	01111111	0	1E3B38C8	00000000
P10	066D70BE	90444444	0	00000000	03050400
P10	015A1E6F	84111111	0	1E3B38C8	01028200
P10	0798E929	EDC44444	0	00000000	00800024
P10	01C57903	4B411111	0	1E3B38C8	00440490
P10	07EE9156	E2D04444	0	00000000	00229C40
P10	01F30345	88B41111	0	1E3B38C8	00114820
P10	07F65CEB	722D0444	0	00000000	00198420
P10	01F8F632	ECB41111	0	1E3B38C8	00080210
P10	07F2333A	B22D0444	0	00000000	00109908
P10	01FBEA8C	BEC8B411	0	1E3B38C8	00080884
P10	07F236B0	2FB2D044	0	00000000	00109446
P10	01FBE8BD	98FC8B41	0	1E3B38C8	00080A00
P10	07F2369D	66FB22D0	0	00000000	00109444
P10	01FBE8B6	69BEC8B4	0	1E3B38C8	00080A02
P10	07F2369F	1A6FB22D	0	00000000	00109441
P11	080FCAE0	5A6FB22D	0	00000000	00000001
P15	080FCAE1	5A6FB22D	0	00000000	00000001

TIME	A REGISTER	SIGMA LOGIC SIMULATION, MW, CASE 0038		D REGISTER	CS REGISTER
		B REGISTER BC31			
PPR	FFFFFFF	00000000	0	00000000	FFFFFFF
P01	00000000	00000000	1	00000000	00000000
P02	00000000	00000000	0	80000000	FFFFFFF
P09	00000000	00000000	0	7FFFFFFF	00000000
P10	1FFFFFFF	C0000000	0	00000000	00000000
P10	07FFFFFF	C0000000	0	00000000	00000000
P10	01FFFFFF	C0000000	0	00000000	00000000
P10	007FFFFFF	C0000000	0	00000000	00000000
P10	001FFFFFF	C0000000	0	00000000	00000000
P10	0007FFFF	C0000000	0	00000000	00000000
P10	0001FFFF	C0000000	0	00000000	00000000
P10	00007FFF	C0000000	0	00000000	00000000
P10	000001FF	C0000000	0	00000000	00000000
P10	0000007F	C0000000	0	00000000	00000000
P10	0000001F	C0000000	0	00000000	00000000
P10	00000007	C0000000	0	00000000	00000000
P10	00000001	C0000000	0	00000000	00000000
P10	00000000	40000000	0	00000000	00000000
P11	00000000	80000000	0	00000000	00000001
P15	00000001	80000000	0	00000000	00000001

TIME	A REGISTER	SIGMA LOGIC SIMULATION, MW, CASE 0039		39	
		B REGISTER BC31	D REGISTER	CS REGISTER	
PPR	01234567	00000000	0	00000000	FFFFFFF
P01	00000000	01234567	0	00000000	00000000
P02	00000000	0048D159	1	42468ACE	00000000
P09	00000000	00123456	0	8DB97531	00000000
P10	EF6E5D4C	40048D15	0	848D159C	00000000
P10	DAF8D234	20012345	0	848D159C	42060A86
P10	C71CF34B	880048D1	0	42468ACE	6146094A
P10	F9071C33	E2001234	0	42468ACE	21A345A5
P10	E688B4D6	3880048D	0	42468ACE	308386B3
P10	E51F6E12	EE200123	0	00000000	3141436B
P10	F5178B5E	78880048	1	42468ACE	1080A101
P10	E9F46824	5EE20012	0	8DB97531	280345A7
P10	9F13962C	97B88004	0	42468ACE	54D8B292
P10	E263689C	15EE2001	0	848D159C	2B294947
P10	D371CDD1	D57B8800	0	00000000	5114A4CE
P10	E0995A47	F55EE200	0	42468ACE	28884260
P10	E295E48A	7D57B880	0	00000000	30442523
P10	F4B47066	5F55EE20	0	00000000	10021211
P10	F92D989D	D7D57B88	0	00000000	08000800
P10	FC4B6427	75F55EE2	0	00000000	04000400
P11	004B6827	75F55EE2	0	00000000	00000001
P15	004B6827	75F55EE2	0	00000000	00000001

TIME	A REGISTER	SIGMA LOGIC SIMULATION, MW, CASE 0040		40	
		B REGISTER BC31	D REGISTER	CS REGISTER	
PPR	89ABCDEF	00000000	0	00000000	FFFFFFF
P01	00000000	76543210	1	00000000	00000000
P02	00000000	1D950C84	0	258BCDEF	FFFFFFF
P09	00000000	07654321	0	DA743210	00000000
P10	F69D0C84	01D950C8	0	00000000	00000000
P10	FDA74321	10765432	0	DA743210	00000000
P10	89F4DC4C	441D950C	0	00000000	6C120100
P10	F979B753	21076543	0	84E86421	04080000
P10	926674DC	8841D950	1	00000000	5A341200
P10	F21499B7	12107654	0	258BCDEF	09120800
P10	F7A35716	14841D95	0	DA743210	108944D3
P10	8F578875	65210765	0	00000000	6950AB09
P10	F981C8DF	294841D9	0	DA743210	04A84400
P10	89D76FB3	EA521076	0	DA743210	6C502008
P10	8FFCDF6A	CA94841D	0	DA743210	642A1108
P10	8C68BF1C	92A52107	0	84E86421	673E0984
P10	97EFB4AE	44A94841	1	DA743210	52341682
P10	87EBE40F	312A5210	0	258BCDEF	693A1B41
P10	F2D68CA8	5C4A9484	0	84E86421	12D5E6A7
P10	953AC38B	B712A521	0	00000000	596A7290
P11	EEA535DC	7712A521	0	00000000	00000001
P15	EEA535DD	7712A521	0	00000000	00000001

TIME	A REGISTER	SIGMA LOGIC SIMULATION, MW, CASE 0041		D REGISTER	CS REGISTER
		B REGISTER BC31			
PPR	258BE147	00000000	0	00000000	FFFFFFF
P01	00000000	258BE147	0	00000000	00000000
P02	00000000	0962F851	1	56AE37BF	00000000
P09	00000000	0258BE14	0	A951C840	00000000
P10	EA547210	00962F85	0	AD5C6F7E	00000000
P10	D1C2075B	90258BE1	0	00000000	542A3108
P10	E17A0D94	E40962F8	0	56AE37BF	28010084
P10	E7F54EAB	F90258BE	0	56AE37BF	301502CA
P10	E0539EF7	BE40962F	0	00000000	3B5A83B5
P10	F6C24768	8F90258B	1	AD5C6F7E	1029412A
P10	D2EDDA4F	13E40962	1	A951C840	5A2423B5
P10	88660C6E	94F90258	1	00000000	6D32E822
P10	F9553A53	153E4096	0	A951C840	04110211
P10	95057C00	954F9025	0	56AE37BF	54A88528
P10	E5C0F3A5	D553E409	0	AD5C6F7E	2A561A94
P10	D8B2A193	C554F902	0	56AE37BF	56AA30DA
P10	F62DAAF0	81553E40	0	56AE37BF	2B551ACD
P10	E2F5A1E3	D0554F90	0	AD5C6F7E	3B169D7E
P10	DD2FD4F8	E41553E4	0	00000000	55AA56BF
P10	E2216091	C90554F9	0	00000000	2A952A5C
P11	0CB68AEE	09C554F9	0	00000000	00000001
P15	0CB68AEF	09C554F9	0	00000000	00000001

TIME	A REGISTER	SIGMA LOGIC SIMULATION, MW, CASE 0042		D REGISTER	CS REGISTER
		B REGISTER BC31			
PPR	AD0369CF	00000000	0	00000000	FFFFFFF
P01	00000000	52FC9630	1	00000000	00000000
P02	00000000	14BF258C	0	DF1357BD	FFFFFFF
P09	00000000	052FC963	0	20ECA842	00000000
P10	083B2A10	814BF258	1	00000000	00000000
P10	020ECA84	3052FC96	0	DF1357BD	00000000
P10	F747674E	4C14BF25	0	20ECA842	01012142
P10	F5AAB893	93052FC9	0	41095085	10A290A1
P10	E9345EED	F4C14BF2	0	20ECA842	28D54840
P10	F8436FBB	ED3052FC	0	20ECA842	147A2420
P10	F33578F6	5B4C14BF	0	41095085	1A351611
P10	EAB64F98	B6D3052F	1	00000000	2F9A8A4A
P10	F08B39F4	9DB4C14B	1	DF1357BD	14490404
P10	8EF45A93	776D3052	1	00000000	6AC58ADA
P10	F93C7412	5DCB4C14	1	00000000	05020549
P10	FF0F9C56	D776D305	0	DF1357BD	00800200
P10	8827327A	F50DB4C1	0	20ECA842	6FF18B0A
P10	F102844C	BD776D30	0	20ECA842	1452D525
P10	F15B3E4A	FFEDDB4C	0	20ECA842	18694222
P10	F277B50A	8FD776D3	0	00000000	18349521
P11	0AAC4A2C	0FD776D3	0	00000000	00000001
P15	0AAC4A2D	0FD776D3	0	00000000	00000001

TIME	A REGISTER	SIGMA LOGIC SIMULATION, MW, CASE 0043		43	
		B REGISTER BC31	D REGISTER	CS REGISTER	
PPR	F2468ACE	00000000	0	00000000	FFFFFFFF
P01	00000000	0DB97531	1	00000000	00000000
P02	00000000	036E5D4C	0	F13579BD	FFFFFFFF
P09	00000000	00DB9753	0	1D950C85	00000000
P10	07654321	4036E5D4	1	00000000	00000000
P10	010950C8	600DB975	0	F13579BD	00000000
P10	FC3B0A5D	58036E5D	0	0ECA8642	0088A844
P10	FC9E4916	D600DB97	0	0ECA8642	06454522
P10	FD04629D	858036E5	1	0ECA8642	076722B1
P10	FD2A7197	81600DB9	0	F13579BD	07A31140
P10	82EFD65A	A058036E	0	1D950C85	7A91B8CA
P10	F97AEC85	581600DB	0	0ECA8642	0D4A8665
P10	FEBEBB28	B6058036	1	1D950C85	06A54322
P10	F963BD23	D081600D	1	F13579BD	0F5A8590
P10	81C31043	97605803	0	F13579BD	7CB9DED8
P10	8313EDC9	95D81600	1	1D950C85	78D8AC6C
P10	F9979348	15760580	0	F13579BD	0CC8D666
P10	811A8F24	C55D8160	0	0ECA8642	7CCA9866
P10	FCC6B834	01576058	0	00000000	06654793
P10	FEA8FFE9	E055D816	0	00000000	02220008
P11	00CAFFF1	E055D816	0	00000000	00000001
P15	00CAFFF1	E055D816	0	00000000	00000001

TIME	A REGISTER	SIGMA LOGIC SIMULATION, MW, CASE 0044		44	
		B REGISTER BC31	D REGISTER	CS REGISTER	
PPR	E26AE38D	00000000	0	00000000	FFFFFFFF
P01	00000000	1D951C72	1	00000000	00000000
P02	00000000	0765471C	1	F147AD03	FFFFFFFF
P09	00000000	01D951C7	0	F147AD03	00000000
P10	FC51EB40	C0765471	1	0EB852FC	00000000
P10	FCBA6E6F	301D951C	0	F147AD03	06082120
P10	82FD7893	1C076547	0	1D70A5F9	7AC51691
P10	F96232FE	E701D951	1	00000000	073A9A48
P10	FD162A2D	A9C07654	0	F147AD03	04910924
P10	82302382	BA701D95	0	1D70A5F9	7AB94922
P10	F972C48A	4E9C0765	0	00000000	0D1852C9
P10	FD1AA59C	F3A7C1D9	0	0EB852FC	04882044
P10	FDCAB5C9	3CE9C076	0	0EB852FC	064C106E
P10	FD4FBDD6	DF3A701D	0	0EB852FC	07640876
P10	FD24F9D7	07CE9C07	0	1D70A5F9	07B60C7B
P10	F9FB9415	61F3A701	1	0EB852FC	0E9A56FD
P10	FE76A405	087CE9C0	0	F147AD03	075C2B7E
P10	821B489E	021F3A70	0	1D70A5F9	7B8B5683
P10	F9302EF9	3087CE9C	0	00000000	0D9DA24D
P10	FD2B632D	3C21F3A7	0	00000000	04881124
P11	01B37451	BC21F3A7	0	00000000	00000001
P15	01B37451	BC21F3A7	0	00000000	00000001

TIME	A REGISTER	SIGMA LOGIC SIMULATION, MW, CASE 0045		45	
		B REGISTER BC31	D REGISTER	CS REGISTER	
PPR	27C16B05	00000000	0	00000000	FFFFFFFF
P01	00000000	27C16B05	0	00000000	00000000
P02	00000000	09F05AC1	0	148BF37B	00000000
P09	00000000	027C16B0	0	148BF37B	00000000
P10	0522FCDE	C09F05AC	0	148BF37B	00000000
P10	046A43E9	7027C16B	0	00000000	02017820
P10	019ACEF1	1C09F05A	1	00000000	00002014
P10	0066BBB9	67C27C16	1	EB740C84	00000008
P10	FAC4ADCD	59C09F05	1	EB740C84	00320444
P10	8460A943	667027C1	0	EB740C84	753A0662
P10	868BA8E9	699C09F0	0	2917E6F6	72B80621
P10	F749120F	AA67027C	0	148BF37B	1140D370
P10	FCA3CC81	0A99C09F	0	00000000	0AA4E98D
P10	FD81C94F	32A67027	1	00000000	04506440
P10	FE746B43	ECA99C09	1	EB740C84	02002020
P10	85C011F9	F32A6702	0	00000000	753A1400
P10	FC3E817E	4ECA99C0	0	2917E6F6	02A00800
P10	F5EA5BE2	23B2A670	0	2917E6F6	140B403B
P10	F23DBF4B	C8ECA99C	0	00000000	1A85A179
P10	FA2E078C	B23B2A67	0	00000000	0902D0A4
P11	0330D831	323B2A67	0	00000000	00000001
P15	0330D831	323B2A67	0	00000000	00000001

TIME	A REGISTER	SIGMA LOGIC SIMULATION, MW, CASE 0046		46	
		B REGISTER BC31	D REGISTER	CS REGISTER	
PPR	E26AF49F	00000000	0	00000000	FFFFFFFF
P01	00000000	1D950B60	1	00000000	00000000
P02	00000000	076542D8	0	F37BF49E	FFFFFFFF
P09	00000000	01C950B6	0	0C840B61	00000000
P10	032102D8	4076542D	0	00000000	00000000
P10	00C840B6	2C1D950B	0	190816C3	00000000
P10	0670159D	48C76542	1	0C840B61	00040041
P10	02BC07AF	62C1D950	1	F37BF49E	020200A0
P10	FCF17CE4	48807654	0	F37BF49E	011D0257
P10	83A5E28B	62201D95	0	0C840B61	78FCBA6B
P10	FDE754E0	58880765	0	00000000	04525535
P10	FE6D4075	462201D9	0	0C840B61	02212A10
P10	FC321841	21888076	0	0C840B61	07128538
P10	FDE92586	3862201D	0	0C840B61	060904B0
P10	FDD90A95	FE188807	0	190816C3	064482D0
P10	F8A567A1	8F8622C1	1	0C840B61	0EA40168
P10	FEA15B6A	23E18880	0	F37BF49E	06520180
P10	82E22B91	08F86220	0	190816C3	7B39A8DD
P10	F834E563	D23E1888	0	00000000	0D941568
P10	FD683C02	E48F8622	0	00000000	040A02B0
P11	01723EB3	248F8622	0	00000000	00000001
P15	01723EB3	248F8622	0	00000000	00000001

TIME	A REGISTER	SIGMA LOGIC SIMULATION, MW, CASE 0047		CS REGISTER	
		B REGISTER BC31	D REGISTER		
PPR	F0259E49	00000000	0	00000000	FFFFFFFF
P01	00000000	0FDA61B6	1	00000000	00000000
P02	00000000	03F6986D	1	457AE39F	FFFFFFFF
P09	00000000	00FDA61B	0	457AE39F	00000000
P10	115EB8E7	C03F6986	1	750A38C1	00000000
P10	D9152009	B00FDA61	1	457AE39F	08851C60
P10	E53AB7FD	9C03F698	0	457AE39F	248A9004
P10	E132B119	9700FDA6	0	750A38C1	329059CE
P10	A9A97405	95C03F69	0	00000000	388D1CE4
P10	E4491A38	65700FDA	0	750A38C1	14448A02
P10	A141EA3E	E95C03F6	0	BA851C60	3A240D00
P10	88783ED7	8A5700FD	0	750A38C1	5D028610
P10	AB1C2001	8295C03F	0	750A38C1	2E851F68
P10	BCE4C1EA	20A5700F	1	BA851C60	16061C20
P10	8419F06A	88295C03	1	457AE39F	5F420E30
P10	E7884771	420A5700	1	00000000	22AD711D
P10	F1494D9B	208295C0	0	00000000	11442088
P10	F8035B44	E820A570	0	BA851C60	08A00044
P10	928991D8	3A08295C	0	00000000	5C408C22
P10	F3B2477E	9E820A57	0	00000000	08004000
P11	FBB2877E	9E820A57	0	00000000	00000001
P15	FBB2877F	9E820A57	0	00000000	00000001

TIME	A REGISTER	SIGMA LOGIC SIMULATION, MW, CASE 0048		CS REGISTER	
		B REGISTER BC31	D REGISTER		
PPR	ABE159F0	00000000	0	00000000	FFFFFFFF
P01	00000000	541EA60F	1	00000000	00000000
P02	00000000	1507A983	1	679C05B2	FFFFFFFF
P09	00000000	0541EA60	1	00000000	00000000
P10	00000000	01507A98	0	00000000	00000000
P10	00000000	00541EA6	0	9863FA4D	00000000
P10	E618FE93	401507A9	0	00000000	00000000
P10	F9863FA4	E00541EA	0	30C7FA9B	00000000
P10	B25072CF	F8C1507A	0	9863FA4D	18431A40
P10	8C9C2480	8E00541E	0	30C7FA9B	4C21B026
P10	BC1E9B43	63801507	0	30C7FA9B	0642DA59
P10	A2A6ED60	78E00541	1	30C7FA9B	1A23602D
P10	A2109D35	8E380150	0	679C05B2	1953F694
P10	F737DB84	E38E0054	0	30C7FA9B	11884ADA
P10	B59E1971	48E38015	0	00000000	18C3ED4D
P10	EB577D0F	3238E005	0	00000000	084104A0
P10	F8C59E68	EC8E3801	0	9863FA4D	04208200
P10	9921B989	BB238E00	0	9863FA4D	4C30C024
P10	935CA388	1EC8E380	0	9863FA4D	4C10FC86
P10	91CBE95C	C7B238E0	0	00000000	4C287D46
P11	DDF466A3	47B238E0	0	00000000	00000001
P15	DDF466A3	47B238E0	0	00000000	00000001

TIME	A REGISTER	SIGMA LOGIC SIMULATION, MW, CASE 0049		CS REGISTER
		B REGISTER BC31	D REGISTER	
PPR	26106573	00000000	0	00000000
P01	00000000	26106573	0	00000000
P02	00000000	0984195C	1	59D73C28
P09	00000000	02610657	0	A628C3D7
P10	E98A30F5	C0984195	1	59D73C28
P10	EC174337	40261065	0	A628C3D7
P10	98BFA63C	20098419	0	B3AE7850
P10	DE845FF9	F8026106	0	59D73C28
P10	F3A10CF7	7EC09841	0	59D73C28
P10	E1A767B2	DF802610	0	B3AE7850
P10	DBBE227E	37E00984	0	59D73C28
P10	F6AEA957	CDFF80261	0	00000000
P10	F6914D10	F37E0098	0	00000000
P10	F9310266	BCDF8026	0	59D73C28
P10	E47BA713	AF37E009	0	00000000
P10	F18CC080	EBCDF802	0	B3AE7850
P10	D585BD56	3AF37E00	0	59D73C28
P10	F521294F	8EBCDF80	0	B3AE7850
P10	DA9933CF	E3AF37E0	0	00000000
P10	E0132BFB	F8EBCDF8	0	00000000
P11	0D5BB3FB	F8EBCDF8	0	00000000
P15	0D5BB3FB	F8EBCDF8	0	00000000

TIME	A REGISTER	SIGMA LOGIC SIMULATION, MW, CASE 0050		CS REGISTER
		B REGISTER BC31	D REGISTER	
PPR	F1A3C842	00000000	0	00000000
P01	00000000	0E5C37BD	1	00000000
P02	00000000	03970DEF	0	CD2A3C71
P09	00000000	00E5C37B	1	65AB871D
P10	196AE1C7	403970DE	1	CD2A3C71
P10	F510376D	A00E5C37	1	00000000
P10	FC6149D3	4803970D	1	CD2A3C71
P10	BCD0DF6C	A200E5C3	0	00000000
P10	FAB136D1	08803970	1	65AB871D
P10	E744ACF6	12200E5C	0	CD2A3C71
P10	86CE84E3	74880397	0	32D5C38E
P10	F1AE4455	102200E5	1	00000000
P10	FA3349C0	37488039	0	CD2A3C71
P10	8FE21566	EDD2200E	0	65AB871D
P10	E3940192	FB748803	0	32D5C38E
P10	F8E50221	8ECD2200	1	65AB871D
P10	E109193C	43B74880	0	CD2A3C71
P10	84358932	D0EDD220	0	32D5C38E
P10	F01D3D89	843B7488	0	00000000
P10	FAD5FE51	01CEDD22	0	00000000
P11	02DA0095	C1CEDD22	0	00000000
P15	02DA0095	C1CEDD22	0	00000000

TIME	A REGISTER	SIGMA LOGIC SIMULATION, MW, CASE 0051		51	
		B REGISTER BC31	D REGISTER	CS REGISTER	
PPR	42486CEA	00000000	0	00000000	FFFFFFF
P01	00000000	42486CEA	0	00000000	00000000
P02	00000000	10921B3A	0	FC7CF1CC	00000000
P09	00000000	042486CE	0	F8F9E398	00000000
P10	FE3E78E6	010921B3	0	F8F9E398	00000000
P10	81B1E6DF	8042486C	1	F8F9E398	7C1C3040
P10	81550D41	EC10921B	0	03830E33	7C5CF16C
P10	FFA2BC87	B8042486	1	FC7CF1CC	00AA8680
P10	80DD32FE	DEC10921	1	03830E33	7E555A42
P10	FF42D9A3	C7804248	0	03830E33	016A8D39
P10	FF6AD6AA	51E01092	0	F8F9E398	01A14699
P10	818C9CEA	D4780424	0	00000000	7CF4E34C
P10	FF5E1FE9	851E0109	0	F8F9E398	00424024
P10	81F96F15	71478042	0	00000000	7C2D21D4
P10	FF7513B0	5C51E010	0	FC7CF1CC	0014908A
P10	80C75C8D	97147804	0	F8F9E398	7E3A48CA
P10	818130F8	65C51E01	0	00000000	7C7DA44E
P10	FF7F266D	99714780	0	00000000	00009224
P10	FFDFED12	665C51E0	0	FC7CF1CC	00000112
P10	80E8C773	19971478	0	00000000	7E2E7089
P11	FF1737FC	19971478	0	00000000	00000001
P15	FF1737FD	19971478	0	00000000	00000001

TIME	A REGISTER	SIGMA LOGIC SIMULATION, MW, CASE 0052		52	
		B REGISTER BC31	D REGISTER	CS REGISTER	
PPR	2C76B150	00000000	0	00000000	FFFFFFF
P01	00000000	2C76B150	0	00000000	00000000
P02	00000000	0B1DAC54	0	475E3AF9	00000000
P09	00000000	02C76B15	0	00000000	00000000
P10	00000000	00B1DAC5	0	00000000	00000000
P10	00000000	002C76B1	0	475E3AF9	00000000
P10	11D78EBE	400B1DAC	0	475E3AF9	00000000
P10	15A26D11	D002C76B	0	475E3AF9	00A8055C
P10	1495D4AD	3400B1DA	1	00000000	02D516AC
P10	05903080	60C02C76	1	B8A1C506	004A8A56
P10	EF5EDFF4	1B400B1D	1	B8A1C506	00404003
P10	95EFD68C	56D002C7	0	B8A1C506	54206283
P10	9E5B9C4E	65B400B1	1	8EBC75F2	4A50E343
P10	D6ADC2BF	E96D002C	0	B8A1C506	472C7AA1
P10	8A481F46	3A5B400B	0	8EBC75F2	6B56E153
P10	DBE8A2F9	FE96D002	1	00000000	452E3AA9
P10	E7B1A614	3FA5B400	1	B8A1C506	20941154
P10	9FE11C91	AFE96D00	0	B8A1C506	5058C28A
P10	9DC606C7	7BF45B40	0	475E3AF9	4C70E241
P10	E5BA379F	EEFE96D0	0	00000000	26AB1160
P11	0C654900	6EFE96D0	0	00000000	00000001
P15	0C654901	6EFE96D0	0	00000000	00000001

53

TIME	A REGISTER	SIGMA LOGIC SIMULATION, MW, CASE 0053		D REGISTER	CS REGISTER
		B REGISTER BC31			
PPR	D1F375DB	00000000	0	00000000	FFFFFFF
P01	00000000	2ECC8A24	1	00000000	00000000
P02	00000000	0B832289	0	38D27C16	FFFFFFF
P09	00000000	02E0C8A2	0	C72D83E9	00000000
P10	F1CB60FA	40B83228	0	C72D83E9	00000000
P10	80B9B8C4	E02E0C8A	0	8E5B07D3	60848074
P10	98D98FD8	C8CB8322	0	00000000	464CC06A
P10	F7A5532C	92C2E0C8	0	8E5B07D3	0C244024
P10	9E768506	F480B832	0	8E5B07D3	4312A1F2
P10	94CF08C9	CD202E0C	0	00000000	472942E9
P10	F4F9A288	13480B83	0	8E5B07D3	0204A064
P10	9E29B14F	F4D202E0	1	00000000	432CD160
P10	F741540B	CD3480B8	0	38D27C16	011440A0
P10	F3A1DA2F	434D202E	0	C72D83E9	18A82A01
P10	8B091CF1	E0D3480B	0	00000000	69D4C514
P10	F8B77679	6834D202	1	8E5B07D3	04800208
P10	9C9B1CE8	AA0D3480	1	38D27C16	4649832C
P10	F88038F4	9A834D20	0	38D27C16	0E6D8E14
P10	F38FF2BD	36A0D348	0	C72D83E9	1C601E08
P10	8A3098D7	CD4834D2	0	00000000	6R96C954
P11	F5C7652C	8DA834D2	0	00000000	00000001
P15	F5C7652D	8DA834D2	0	00000000	0C000001

54

TIME	A REGISTER	SIGMA LOGIC SIMULATION, MW, CASE 0054		D REGISTER	CS REGISTER
		B REGISTER BC31			
PPR	91BBA0E5	00000000	0	00000000	FFFFFFF
P01	00000000	6E445F1A	1	00000000	0C000000
P02	00000000	1B9117C6	1	8067CB91	FFFFFFF
P09	00000000	06E445F1	1	8067CB91	00000000
P10	EC19F2E4	41B9117C	0	8067CB91	0C000000
P10	981F8E5D	506E445F	0	FF3068DD	4C00E140
P10	C9CBC1F0	141B9117	1	00000000	6C08742E
P10	E970ED77	B506E445	1	8067CB91	24042010
P10	9344C1B0	AD41B911	0	00000000	5C327488
P10	F0DDAD4D	4B506E44	0	FF3068DD	08002044
P10	C1FB7975	22D41B91	0	7F98346E	7C081426
P10	FC9AD64F	78B506E4	0	00000000	3ECC1A33
P10	F395B31F	2E2D41B9	0	7F98346E	18440901
P10	E512639C	2B88506E	0	00000000	3DCA1887
P10	F6361EC6	FAE2D41B	0	7F98346E	12A10042
P10	E6CBCABA	BEB88506	1	FF3068DD	3B480A23
P10	C8ACEA11	3FAE2D41	1	8067CB91	7FA4255D
P10	8DD8C137	7FEB8850	0	8067CB91	64527588
P10	9A7B9FCB	BFFAE2D4	0	FF3068DD	4229E0C8
P10	C9D885F7	8FFEB885	0	00000000	6D1CF464
P11	36F57A5C	8FFEB885	0	00000000	00000001
P15	36F57A5D	8FFEB885	0	00000000	00000001

TIME	A REGISTER	SIGMA LOGIC SIMULATION, B REGISTER BC31	MW , CASE 0055 D REGISTER	55 CS REGISTER
PPR	4E0A2D09	00000000 0	00000000	FFFFFFF
P01	00000000	4E0A2D09 0	00000000	00000000
P02	00000000	13828B42 0	66E91F2E	00000000
P09	00000000	04E0A2D0 0	66E91F2E	00000000
P10	19BA47CB	813828B4 0	CDD23E5C	00000000
P10	351A1E65	E04E0A2D 0	00000000	04C90324
P10	0C74C750	7813828B 0	00000000	02040112
P10	039C2190	9E04E0A2 1	66E91F2E	00020088
P10	195DC88D	A7813828 1	9916E0D1	014408C4
P10	E043C8E6	29E04E0A 0	9916E0D1	0CAA6462
P10	9D7FD315	7A781382 0	66E91F2E	44017071
P10	EFE5EF12	AE9E04E0 0	CDD23E5C	2234A99A
P10	C000DE35	08A78138 0	CDD23E5C	77FA578D
P10	DE8A2DF9	12E9E04E 0	00000000	62E92F0E
P10	EF18C0BD	E4BA7813 0	00000000	21441684
P10	F397358E	792E9E04 1	CDD23E5C	10800042
P10	C8B142E4	1E4BA781 0	9916E0D1	68C91A27
P10	8E9BAE04	8792E9EC 0	66E91F2E	64C8A172
P10	E32E8416	11E4BA78 0	66E91F2E	3364D793
P10	EDA8D32A	D4792E9E 0	00000000	31B6488B
P11	1F3F1EB5	D4792E9E 0	00000000	00000001
P15	1F5F1EB5	D4792E9E 0	00000000	00000001

TIME	A REGISTER	SIGMA LOGIC SIMULATION, B REGISTER BC31	MW , CASE 0056 D REGISTER	56 CS REGISTER
PPR	8D06D9F2	00000000 0	00000000	FFFFFFF
P01	00000000	72F9260D 1	00000000	00000000
P02	00000000	1CBE4983 0	9D289043	FFFFFFF
P09	00000000	072F9260 1	C5AEDF79	00000000
P10	3168B7DE	41CBE498 0	9D289043	00000000
P10	EB10C9E7	6072F926 0	62D76FBC	08944821
P10	E054FB9E	981CBE49 0	00000000	354A24D2
P10	F547B7D3	16072F92 0	C5AEDF79	10201049
P10	C8325E38	D581CBE4 0	62D76FBC	6A934BAC
P10	F01D9E8A	256072F9 0	C5AEDF79	3549A7DE
P10	C03EB98B	69581CBE 0	00000000	7A86CFED
P10	EAE1099	AA56072F 0	62D76FBC	200344C4
P10	EB1E8DB8	4A9581CB 1	C5AEDF79	3143A6CE
P10	C7FCFD03	F2A56072 1	9D289043	708747FC
P10	8A94CAAF	0CA9581C 1	00000000	6AD66AA1
P10	F810A803	B32A5607 0	9D289043	054A2550
P10	981C8744	0CC49581 1	62D76FBC	4E845021
P10	ED13EE36	7332A560 0	9D289043	254A2392
P10	955C5779	ECCA958 0	C5AEDF79	56855109
P10	C19DF642	7B332A56 0	00000000	6AC62B8C
P11	2C6421FF	3B332A56 0	00000000	00000001
P15	2C6421FF	3B332A56 0	00000000	00000001

TIME	A REGISTER	SIGMA LOGIC SIMULATION, MW, CASE 0057			CS REGISTER
		B REGISTER	BC31	D REGISTER	
PPR	745BD382	00000000	0	00000000	FFFFFFF
PO1	00000000	745BD382	0	00000000	00000000
PO2	00000000	1D16F4E0	0	266C684E	00000000
PO9	00000000	0745B038	0	4CD8D09C	00000000
P10	13363427	01D16F4E	0	00000000	00000000
P10	04CD8D09	C0745BD3	0	00000000	00000000
P10	01336342	701D16F4	1	4CD8D09C	00000000
P10	137AECF7	9C0745BD	0	D99397B1	00082000
P10	F2B856D1	A701D16F	0	266C684E	088D5258
P10	F7165B31	D9C0745B	1	266C684E	1156292C
P10	F00B0694	C6701D16	1	D99397B1	1B8B3496
P10	8C8CE96C	C19C0745	1	00000000	6CC58B4A
P10	F8125889	906701D1	0	D99397B1	064244A4
P10	89F0E2E7	3419C074	0	4CD8D09C	6C092A50
P10	EA48460A	FD06701D	0	266C684E	266C716A
P10	FA9217CB	BF419C07	0	00000000	13363025
P10	FA6909FB	AFD06701	1	266C684E	09090800
P10	FS431A6D	4BF419C0	0	D99397B1	15348425
P10	8E79027E	62FD0670	0	4CD8D09C	6A89C812
P10	EAD0A067C	08BF419C	0	00000000	276CE10F
P11	1176E78B	48BF419C	0	00000000	00000001
P15	1176E78B	48BF419C	0	00000000	00000001

TIME	A REGISTER	SIGMA LOGIC SIMULATION, MW, CASE 0058			CS REGISTER
		B REGISTER	BC31	D REGISTER	
PPR	B3FCA5A5	00000000	0	00000000	FFFFFFF
PO1	00000000	4C035A5A	1	00000000	00000000
PO2	00000000	1300D696	1	CC1FC7CF	FFFFFFF
PO9	00000000	04C035A5	1	CC1FC7CF	00000000
P10	F307F1F3	C1300D69	0	CC1FC7CF	00000000
P10	8FC60D8F	304C035A	0	67C07061	6003E0E1
P10	E2016743	EC1300D6	0	33E03830	33E13070
P10	F88018G0	EB04C035	0	67C07061	19F08338
P10	E1AC3CE6	5AC1300D	0	67C07061	3CF00C30
P10	EEA3102D	F6B04C03	0	33E03830	32FC1E30
P10	F8ECC08B	4DAC1300	1	33E03830	19700C18
P10	F45F3E68	F36B04C0	0	CC1FC7CF	10F00600
P10	896C3FEA	CCDAC130	0	33E03830	6E2F8326
P10	F528E13F	0336B04C	0	00000000	15861D91
P10	F827BF2B	A0CDAC13	0	00000000	0A900088
P10	FCADFEF8	C8336B04	1	00000000	04C00004
P10	FE2B78FB	020CDAC1	0	CC1FC7CF	02000000
P10	8C0D2F0D	108336B0	0	33E03830	6705A1E5
P10	F63A2DB6	242CCDAC	0	33E03830	13829492
P10	F5962045	3908336B	0	00000000	19D11E59
P11	0F673E9E	7908336B	0	00000000	00000001
P15	0F673E9F	7908336B	0	00000000	00000001

TIME	A REGISTER	SIGMA LOGIC SIMULATION, MW, CASE 0059		D REGISTER	CS REGISTER
		B REGISTER BC31			
PPR	7FFFFFFF	00000000	0	00000000	FFFFFFF
P01	00000000	7FFFFFFF	0	00000000	00000000
P02	00000000	1FFFFFFF	1	00000001	00000000
P09	00000000	07FFFFFF	1	FFFFFFFE	00000000
P10	FFFFFFF	81FFFFFF	1	00000000	00000000
P10	FFFFFFF	F07FFFFF	1	00000000	00000000
P10	FFFFFFF	FC1FFFFF	1	00000000	00000000
P10	FFFFFFF	FF07FFFF	1	00000000	00000000
P10	FFFFFFF	FFC1FFFF	1	00000000	00000000
P10	FFFFFFF	FFF07FFF	1	00000000	00000000
P10	FFFFFFF	FFFC1FFF	1	00000000	00000000
P10	FFFFFFF	FFFF07FF	1	00000000	00000000
P10	FFFFFFF	FFFFC1FF	1	00000000	00000000
P10	FFFFFFF	FFFFF07F	1	00000000	00000000
P10	FFFFFFF	FFFFFC1F	1	00000000	00000000
P10	FFFFFFF	FFFFF07	1	00000000	00000000
P10	FFFFFFF	FFFFFC1	1	00000000	00000000
P10	FFFFFFF	FFFFF0	0	00000000	00000000
P10	FFFFFFF	FFFFF0C	0	00000000	00000000
P10	FFFFFFF	7FFFFFFF	0	00000000	00000001
P11	00000000	7FFFFFFF	0	00000000	00000001
P15	00000001	7FFFFFFF	0	00000000	00000001

TIME	A REGISTER	SIGMA LOGIC SIMULATION, MW, CASE 0060		D REGISTER	CS REGISTER
		B REGISTER BC31			
PPR	00000001	00000000	0	00000000	FFFFFFF
P01	00000000	00000001	0	00000000	00000000
P02	00000000	00000000	0	7FFFFFFF	00000000
P09	00000000	00000000	0	7FFFFFFF	00000000
P10	1FFFFFFF	C0000000	0	00000000	00000000
P10	07FFFFFF	F0000000	0	00000000	00000000
P10	01FFFFFF	FC000000	0	00000000	00000000
P10	007FFFFFF	FF000000	0	00000000	00000000
P10	001FFFFFF	FFC00000	0	00000000	00000000
P10	0007FFFF	FFF00000	0	00000000	00000000
P10	0001FFFF	FFFC0000	0	00000000	00000000
P10	00007FFF	FFFF0000	0	00000000	00000000
P10	00001FFF	FFFFC000	0	00000000	00000000
P10	000007FF	FFFF0000	0	00000000	00000000
P10	000001FF	FFFFC000	0	00000000	00000000
P10	0000007F	FFFF0000	0	00000000	00000000
P10	0000001F	FFFFFC00	0	00000000	00000000
P10	00000007	FFFF0000	0	00000000	00000000
P10	00000001	FFFFFC00	0	00000000	00000000
P10	00000000	7FFFFFFF	0	00000000	00000000
P11	00000000	7FFFFFFF	0	00000000	00000001
P15	00000001	7FFFFFFF	0	00000000	00000001

TIME	A REGISTER	SIGMA LOGIC SIMULATION, MW, CASE 0061		61	
		B REGISTER BC31	D REGISTER	CS REGISTER	
PPR	DAC269A5	00000000	0	00000000	FFFFFFF
P01	00000000	253D965A	1	00000000	00000000
P02	00000000	094F6596	1	B5631AF2	FFFFFFF
P09	00000000	0253D965	1	B5631AF2	00000000
P10	ED58C6BC	8094F659	0	B5631AF2	00000000
P10	960EF713	A0253D96	0	9539CA1B	52A00158
P10	D465CF14	28094F65	0	4A9CE50D	4B14618D
P10	F57B52E5	3A0253D9	0	9539CA1B	250A7286
P10	D1523A9E	3E8094F6	0	4A9CE50D	5A9DA943
P10	F054DDB4	3FA0253D	0	4A9CE50D	2D4E5487
P10	E5E19B0F	BFE8094F	0	9539CA1B	342E6AC2
P10	D13D8EF5	9FFA0253	1	4A9CE50D	5A94E505
P10	F04D63BF	67FE8094	1	B5631AF2	2D4E7282
P10	9A1802F3	D9FFA025	0	00000000	5AA78959
P10	F02FEEDA	867FE809	0	4A9CE50D	0D000028
P10	EDECC2F3	D19FFA02	0	4A9CE50D	24067214
P10	E0DD957A	9467FE80	0	4A9CE50D	3646710A
P10	E701C05F	6519FFA0	0	9539CA1B	316E7A85
P10	D0D59C3C	79467FE8	0	00000000	5A94E50F
P10	E2905E4F	CE519FFA	0	00000000	284A4200
P11	0ADAA050	0E519FFA	0	00000000	00000001
P15	0ADAA051	0E519FFA	0	00000000	00000001

TIME	A REGISTER	SIGMA LOGIC SIMULATION, MW, CASE 0062		62	
		B REGISTER BC31	D REGISTER	CS REGISTER	
PPR	6BA40763	00000000	0	00000000	FFFFFFF
P01	00000000	6BA40763	0	00000000	00000000
P02	00000000	1AE901D8	1	C7B51894	00000000
P09	00000000	06BA4076	0	384AE76B	00000000
P10	0E12B9DA	C1AE901D	0	C7B51894	00000000
P10	F269E853	806BA407	0	8F6A3128	03080C48
P10	9F82F54C	F01AE901	1	C7B51894	41B41424
P10	8660FE7F	3C06BA40	0	384AE76B	63DA0A02
P10	F77C04C5	8F01AE90	0	8F6A3128	11257735
P10	9A4CD086	13C06BA4	0	00000000	48B61A92
P10	F47EB289	34F01AE9	0	00000000	05020849
P10	FC5F2E80	0D3C06BA	0	00000000	02010004
P10	FF978BAD	234F01AE	0	C7B51894	00008000
P10	8E0884CE	48D3C06B	0	8F6A3128	63CAC442
P10	98AA1C69	1234F01A	1	8F6A3128	47A54225
P10	94195BD9	048D3C06	1	384AE76B	47D50814
P10	FAE1AD29	A1234F01	1	384AE76B	0A2CA5AC
P10	F221F8FB	9848D3C0	0	384AE76B	1D345294
P10	F5D7D381	261234F0	0	8F6A3128	1C1079FD
P10	99AB66D5	09848D3C	0	00000000	4EA938D4
P11	E8549FA9	C9848D3C	0	00000000	00000001
P15	E8549FA9	C9848D3C	0	00000000	00000001

TIME	A REGISTER	SIGMA LOGIC SIMULATION, B REGISTER BC31	MW , CASE 0063	D REGISTER	CS REGISTER
PPR	160A5DC9	00000000	0	00000000	FFFFFFF
P01	00000000	160A5DC9	0	00000000	00000000
P02	00000000	05829772	0	E9D73A96	00000000
P09	00000000	0160A5DC	0	E9D73A96	00000000
P10	FA75CEA5	80582977	0	D3AE752C	00000000
P10	8A76EEE2	60160A5D	1	00000000	69122212
P10	F8D9333C	18058297	0	1628C569	04091101
P10	FABE39D5	060160A5	1	D3AE752C	0A048894
P10	88C53118	71805829	0	1628C569	6D571CCA
P10	FCEEBA2E	1C60160A	0	D3AE752C	06228AA5
P10	8A589169	F7180582	0	E9D73A96	68575D16
P10	82363DBA	7DC60160	0	D3AE752C	75AB8C8B
P10	890CF107	5F718058	0	D3AE752C	69D71ED5
P10	8CDD668F	97DC6016	0	00000000	64C73A82
P10	FA06970F	45F71805	0	00000000	02629141
P10	FE190193	A17DC601	0	D3AE752C	01014880
P10	8B2D8F0F	C85F7180	0	E9D73A96	6984A0C0
P10	82DF8556	4217DC60	0	E9D73A96	74C2D543
P10	87F29AA0	E085F718	0	00000000	706BCAAB
P10	FDE65402	F8217DC6	0	00000000	00314550
P11	FE179952	F8217DC6	0	00000000	00000001
P15	FE179953	F8217DC6	0	00000000	00000001

TIME	A REGISTER	SIGMA LOGIC SIMULATION, B REGISTER BC31	MW , CASE 0064	D REGISTER	CS REGISTER
PPR	AE1A4FE0	00000000	0	00000000	FFFFFFF
P01	00000000	51E5B01F	1	00000000	00000000
P02	00000000	14796C07	1	84F82DDE	FFFFFFF
P09	00000000	051E5B01	1	00000000	00000000
P10	00000000	014796C0	0	00000000	00000000
P10	00000000	0051E5B0	0	F60FA443	00000000
P10	3D83E910	CC14796C	0	00000000	00000000
P10	0F60FA44	00051E5B	0	00000000	00000000
P10	03D83E91	10014796	1	00000000	00000000
P10	00F60FA4	440051E5	1	84F82DDE	00000000
P10	E103889E	91001479	0	84F82DDE	007806C2
P10	9960E8E0	A440051E	0	F60FA443	403C066F
P10	CB04D2B3	29100147	0	7B07D221	68165231
P10	F63154A8	FA440051	1	F60FA443	358B6918
P10	CD6D667C	EE910014	0	84F82DDE	7B058204
P10	8CA43E69	9BA44005	0	F60FA443	66E6932E
P10	C7074241	36E91001	0	00000000	73535835
P10	ED15065D	3DBA4400	0	7B07D221	2181A100
P10	EDE4DD5F	2F6E9100	0	7B07D221	3482C100
P10	E898739F	BBDBA440	0	0C000000	3EC36880
P11	275BDC20	7BDBA440	0	00000000	00000001
P15	275BDC21	7BDBA440	0	00000000	00000001

TIME	A REGISTER	SIGMA LOGIC SIMULATION, MW, CASE 0065		CS REGISTER
		B REGISTER BC31	D REGISTER	
PPR	26C9AAD5	00000000	0	00000000
P01	00000000	26C9AAD5	0	00000000
P02	00000000	09B26AB5	0	136AF5B2
P09	00000000	026C9AAD	0	136AF5B2
P10	04DABD6C	809B26AB	0	136AF5B2
P10	05EC1237	AC26C9AA	1	136AF5B2
P10	05A8EF45	68C9B26A	1	EC950A4D
P10	FA62F314	5A026C9A	1	EC950A4D
P10	852B7B3F	C6809826	1	EC950A4D
P10	8725DE3C	11A026C9	1	EC950A4D
P10	8649147D	846809B2	0	EC950A4D
P10	8665B640	A11A026C	0	26D5EB64
P10	FAE53783	E846809B	0	26D5EB64
P10	FO408355	4A11A026	1	00000000
P10	FACE9EA1	22846809	1	EC950A4D
P10	879EF511	28A11A02	0	EC950A4D
P10	87D27E82	3A284680	0	26D5EB64
P10	F4D325D3	3E8A11A0	0	26D5EB64
P10	F05BDEF9	8FA28468	0	00000000
P10	FACCC314	43E8A11A	0	00000000
P11	02F12C68	83E8A11A	0	00000000
P15	02F12C69	83E8A11A	0	00000000

65

TIME	A REGISTER	SIGMA LOGIC SIMULATION, MW, CASE 0066		CS REGISTER
		B REGISTER BC31	D REGISTER	
PPR	04A766B3	00000000	0	00000000
P01	00000000	04A766B3	0	00000000
P02	00000000	0129D9AC	1	15B897C4
P09	00000000	004A766B	0	EA47683B
P10	FA91DA0E	C0129D9A	1	15B897C4
P10	FBCA5372	80C4A766	1	EA47683B
P10	86715C92	F00129D9	1	EA47683B
P10	8644C40C	0C004A76	0	EA47683B
P10	87CC469E	8300129D	0	2B712F88
P10	F76786C4	20C004A7	0	2B712F88
P10	F3698682	D8300129	1	15B897C4
P10	FFDA70A9	360C004A	0	EA47683B
P10	875054DC	C0830012	0	2B712F88
P10	F65393C0	2360C004	0	2B712F88
P10	F3A68989	98D83001	0	2B712F88
P10	F05BDAF9	66360C00	0	00000000
P10	FB60E70F	598D8300	0	15B897C4
P10	F9BD146A	D66360C0	0	00000000
P10	FD4A51F2	3598D830	0	00000000
P10	FE401678	CD66360C	0	00000000
P11	00651680	CD66360C	0	00000000
P15	00651681	CD66360C	0	00000000

66

TIME	A REGISTER	SIGMA LOGIC SIMULATION, B REGISTER BC31	MW , CASE 0067	D REGISTER	CS REGISTER
PPR	5A0DC619	00000000	0	00000000	FFFFFFF
P01	00000000	5A0DC619	0	00000000	00000000
P02	00000000	16837186	0	37DA99E6	00000000
P09	00000000	05A0DC61	0	37DA99E6	00000000
P10	0DF6A679	81683718	0	6FB533CC	00000000
P10	1890E86D	605A0DC6	0	37DA99E6	06D1124
P10	0A641B68	D8168371	0	00000000	0B6D48B2
P10	004234F6	7605A0DC	0	6FB533CC	05320411
P10	1AB158CA	DD816837	0	37DA99E6	02990A6A
P10	0BFCB2D1	B7605A0D	1	00000000	094C8C75
P10	00AC0FA9	2DD81683	0	C8256619	04A64028
P10	F30BCA66	2B7605A0	1	6FB533CC	0C522314
P10	E73836AF	BADD8168	0	C8256619	318991A2
P10	87A5F045	2EB7605A	0	37DA99E6	70949855
P10	F03AFCBD	BBADD816	0	00000000	18CA4CA2
P10	FAFC2CC7	CEEB7605	0	6FB533CC	08052650
P10	E7530E66	C3BADD81	0	6FB533CC	355A9322
P10	EF6F2BA2	00EEB760	0	37DA99E6	33A989B3
P10	FAC70EFD	D03BADD8	0	37DA99E6	1B5C4D1
P10	F5BA14F2	B40EEB76	0	00000000	1DEBC67A
P11	13A5DB6D	34CEEB76	0	00000000	00000001
P15	13A5DB6D	34CEEB76	0	00000000	00000001

TIME	A REGISTER	SIGMA LOGIC SIMULATION, B REGISTER BC31	MW , CASE 0068	D REGISTER	CS REGISTER
PPR	4A1FEA60	00000000	0	00000000	FFFFFFF
P01	00000000	4A1FEA60	0	00000000	00000000
P02	00000000	1287FA98	0	28FDD84E	00000000
P09	00000000	04A1FEA6	0	00000000	00000000
P10	00000000	01287FA9	0	00000000	00000000
P10	00000000	004A1FEA	0	51FBB09C	00000000
P10	147EEC27	001287FA	0	28FDD84E	00000000
P10	0F20CD1A	4004A1FE	0	51FBB09C	003E6403
P10	17B94661	50C1287F	0	51FBB09C	009D72D0
P10	11B7E13C	14C04A1F	1	51FBB09C	08DC8906
P10	12243A29	A5001287	1	D70227B1	08FFD88E
P10	F3767145	A94004A1	1	00000000	09131D54
P10	FE995B04	5A500128	0	00000000	008908A2
P10	FF8414E9	A694004A	0	51FBB09C	00448400
P10	EB8EC810	69A50012	0	00000000	28E24A44
P10	F0CB2096	5A694004	0	51FBB09C	14412402
P10	ED586D02	169A5001	0	51FBB09C	286D9048
P10	E5339375	45A69400	0	00000000	34BCD805
P10	F463D2DC	1169A500	0	28FDD84E	12184802
P10	F3A190A4	245A6940	0	00000000	183CEC27
P11	0BDE7CCB	245A6940	0	00000000	00000001
P15	0BDE7CCB	245A6940	0	00000000	00000001

TIME	A REGISTER	SIGMA LOGIC SIMULATION, MW , CASE 0069		69	
		B REGISTER BC31	D REGISTER	CS REGISTER	
PPR	43043218	00000000	0	00000000	FFFFFFFF
P01	00000000	43C43218	0	00000000	00000000
P02	00000000	10C10C86	0	8508753F	00000000
P09	00000000	04304321	0	00000000	00000000
P10	00000000	010C10C8	0	0A10EA7E	00000000
P10	C2843A9F	80430432	0	8508753F	00000000
P10	91E313E8	2010C10C	0	00000000	4000180F
P10	F478C2F9	E8043043	0	0A10EA7E	00000804
P10	BF9A0820	FAC10C10	1	00000000	0008653E
P10	EFE49847	BE804304	0	7AF78AC0	00040010
P10	E545C465	EFA01CC1	0	8508753F	35724820
P10	954FFD1E	8BE80430	0	00000000	52A02292
P10	F1FBF7E3	12FA010C	0	8508753F	08001009
P10	9F3CE485	54BE8043	0	00000000	40843A95
P10	F7EE3788	352FA010	1	00000000	0C02104A
P10	FDFB09F0	AD4BE804	0	7AF78AC0	00010804
P10	E1C362CD	2B52FA01	0	8508753F	3C798460
P10	962CA4E4	9AD4BE80	0	00000000	52A48236
P10	F1220554	86B52FA0	0	8508753F	09125012
P10	9F4E0826	71AD4BE8	0	00000000	40812A9B
P11	DFCF32C1	71AD4BE8	0	00000000	00000001
P15	DFCF32C1	71AD4BE8	0	00000000	00000001

TIME	A REGISTER	SIGMA LOGIC SIMULATION, MW , CASE 0070		70	
		B REGISTER BC31	D REGISTER	CS REGISTER	
PPR	5DAB9C62	00000000	0	00000000	FFFFFFFF
P01	00000000	5DAB9C62	0	00000000	00000000
P02	00000000	176AE718	0	2B5FA631	00000000
P09	00000000	05DAB9C6	0	56BF4C62	00000000
P10	15AFD318	8176AE71	0	00000000	00000000
P10	056BF4C6	205DAB9C	0	56BF4C62	00000000
P10	14F52E29	08176AE7	0	2B5FA631	0215A221
P10	0F6FCABE	42C5DAB9	1	00000000	012AD310
P10	03914667	808176AE	0	D4A059CE	00956100
P10	F5E91FAA	6C205DAB	0	56BF4C62	0048A0A3
P10	E8C7BCDA	E808176A	1	56BF4C62	2A7A8651
P10	E5031DBA	7AC205DA	1	D4A059CE	357BC629
P10	81362097	5EB08176	1	D4A059CE	7A91AED5
P10	8BC1F5E3	27AC205D	1	D4A059CE	6858146B
P10	8DCE6E11	B9EB0817	0	D4A059CE	64602AFB
P10	8F43874A	9E7AC205	1	56BF4C62	6270356A
P10	EEE33F90	A79EB081	0	D4A059CE	233982B5
P10	865EB93A	F9E7AC20	0	56BF4C62	73508DCA
P10	E8EC5E24	8E79EB08	0	2B5FA631	2B2F46B5
P10	FA272FA8	339E7AC2	0	00000000	15B7A31A
P11	0FDED2C2	B39E7AC2	0	00000000	00000001
P15	0FDED2C3	B39E7AC2	0	00000000	00000001

TIME	A REGISTER	SIGMA LOGIC SIMULATION, MW , CASE 0071			71 CS REGISTER
		B REGISTER BC31		D REGISTER	
PPR	3B667A40	00000000	0	00000000	FFFFFFF
P01	00000000	3B667A40	0	00000000	00000000
P02	00000000	0ED99E90	0	4C798B51	00000000
P09	00000000	03B667A4	0	00000000	00000000
P10	00000000	00ED99E9	0	00000000	00000000
P10	00000000	003B667A	0	00000000	00000000
P10	00000000	000ED99E	0	4C798B51	00000000
P10	131E62D4	4003B667	0	98F316A2	00000000
P10	22FB5D1D	90C0ED99	1	98F316A2	08090140
P10	2C80528F	E4003B66	0	B38674AE	047D8A80
P10	E6DEEB24	79C00ED9	0	98F316A2	124229B7
P10	DB1BF534	6E4003B6	0	98F316A2	49691593
P10	C2A07D81	589C00ED	0	4C798B51	6C8D8AD9
P10	F8991F02	56E4003B	0	98F316A2	265CC5E8
P10	D18DB312	35F9000E	1	4C798B51	5C6C8BD1
P10	F0662CE4	8D6E4003	1	B38674AE	2E36C5A8
P10	9B75A778	835B9000	1	B38674AE	59133256
P10	9C783860	0D6E4000	0	00000000	4D8B9B3F
P10	F47CE8D7	E035B900	0	4C798B51	06040C10
P10	EF805BE5	B80D6E40	0	00000000	223E4428
P11	11BEA00E	380D6E40	0	00000000	00000001
P15	11BEA00F	380D6E40	0	00000000	00000001

TIME	A REGISTER	SIGMA LOGIC SIMULATION, MW , CASE 0072			72 CS REGISTER
		B REGISTER BC31		D REGISTER	
PPR	916CDOA5	00000000	0	00000000	FFFFFFF
P01	00000000	6E932F5A	1	00000000	00000000
P02	00000000	1BA4CBD6	1	6E99AD73	FFFFFFF
P09	00000000	06E932F5	1	6E99AD73	00000000
P10	1BA66B5C	C1BA4CBD	0	6E99AD73	00000000
P10	1D4FF18B	F06E932F	0	22CCA519	054014A8
P10	CEB0D00E	8C1BA4CB	1	9166528C	02A65AC4
P10	975C3611	9FC6E932	1	6E99AD73	41532946
P10	EE25AC89	07C1BA4C	1	00000000	23AC96A9
P10	F3624E88	31F06E93	0	6E99AD73	11124244
P10	E33A686F	EC7C1BA4	1	9166528C	39A92720
P10	92F54770	FB1F06E9	0	6E99AD73	58953116
P10	E93E76C5	4EC7C1BA	0	9166528C	2D4A9289
P10	9544AD8C	23B1F06E	0	9166528C	54B72946
P10	9425759D	88EC7C1B	0	22CCA519	4AB314C6
P10	BF16B110	BE3B1F06	1	22CCA519	01529ACE
P10	A7222381	DF8EC7C1	1	6E99AD73	11AB588C
P10	F6043593	97F3B1F0	0	6E99AD73	13D594D8
P10	E2D2030E	15F8EC7C	0	22CCA519	3B4ADAE9
P10	BED51F3F	B57E3B1F	0	00000000	11654184
P11	D03A60C4	757E3B1F	0	00000000	00000001
P15	D03A60C5	757E3B1F	0	00000000	00000001

TIME	A REGISTER	SIGMA LOGIC SIMULATION, MW, CASE 0073		D REGISTER	CS REGISTER
		B REGISTER BC31			
PPR	06AEF1A4	00000000	0	00000000	FFFFFFF
P01	00000000	06AEF1A4	0	00000000	00000000
P02	00000000	01ABBC69	0	E48DDF82	00000000
P09	00000000	006AEF1A	0	00000000	00000000
P10	00000000	001ABBC6	0	E48DDF82	00000000
P10	F92377E0	8006AEF1	0	C91BBF04	00000000
P10	8C0E3239	2001ABBC	0	C91BBF04	64819B80
P10	886505AF	48006AEF	0	E48DDF82	6605DD80
P10	82BB41EB	52001ABB	1	00000000	7202EEC1
P10	FC2E68CA	948006AE	1	1B72207D	01012060
P10	F9975AF5	C52001AB	1	00000000	0C911094
P10	FD4192B0	5148006A	1	1B72207D	0448881A
P10	F89ECEB5	E452001A	1	00000000	0EA0401C
P10	FD8FA3AA	49148006	1	1B72207D	0440200A
P10	F8AF68F7	62452001	1	1B72207D	0EA11015
P10	F85F1627	E8914800	0	1B72207D	0D51909A
P10	F85F2998	2A245200	0	C91BBF04	0DA9881F
P10	8FFB47A0	CA891480	0	00000000	648DD48E
P10	FADDA4CB	82A24520	0	00000000	0244A240
P10	FE2641A2	FOA89148	0	00000000	01225020
P11	FF4891C2	FOA89148	0	00000000	00000001
P15	FF4891C3	FOA89148	0	00000000	00000001

73

TIME	A REGISTER	SIGMA LOGIC SIMULATION, MW, CASE 0074		D REGISTER	CS REGISTER
		B REGISTER BC31			
PPR	81234034	00000000	0	00000000	FFFFFFF
P01	00000000	7EDCBFCB	1	00000000	00000000
P02	00000000	1FB72FF2	1	F3578058	FFFFFFF
P09	00000000	C7EDCBFC	1	00000000	00000000
P10	00000000	01FB72FF	0	F3578058	00000000
P10	FC05EC16	007EDCBF	1	0CA87FA7	00000000
P10	FC1F47EC	401FB72F	1	F3578058	06403003
P10	824235ED	E0C7EDCB	1	00000000	7B2B9024
P10	FE5A6972	7801FB72	1	00000000	01010812
P10	FFD60858	1E007EDC	1	00000000	00000409
P10	FFF5B714	47801FB7	0	F3578058	00000004
P10	832B8DD2	11E007ED	1	0CA87FA7	79AAC00A
P10	FD8A8C9F	C47801FB	0	F3578058	04D466C1
P10	82825A81	811E007E	1	1950FF4F	7AEB426C
P10	F84E79E8	9047801F	1	F3578058	0F612D26
P10	819E3525	A411E007	1	F3578058	7CA394B4
P10	839A8872	79047801	1	00000000	7RCBCA1A
P10	FED4509A	1E411E00	0	00000000	00454409
P10	FFA44524	C7904780	0	1950FF4F	00222004
P10	F985A69B	F1E411E0	0	00000000	0C903282
P11	0645D91E	31E411E0	0	00000000	00000001
P15	0645D91F	31E411E0	0	00000000	00000001

74

TIME	A REGISTER	SIGMA LOGIC SIMULATION, MW, CASE 0075		75	
		B REGISTER BC31	D REGISTER	CS REGISTER	
PPR	DBC25A96	00000000	0	00000000	FFFFFFF
P01	00000000	243DA569	1	00000000	00000000
P02	00000000	090F695A	0	BF6125A3	FFFFFFF
P09	00000000	0243DA56	0	813DB4B9	00000000
P10	204F6D2E	4090F695	0	813DB4B9	00000000
P10	285CB665	E0243DA5	0	813DB4B9	00069214
P10	2A59E432	08090F69	0	409EDA5C	000E581A
P10	1AB2595D	02C243DA	0	409EDA5C	000F6D0D
P10	1688FB83	208090F6	0	409EDA5C	004F2CAE
P10	1596435C	7820243D	0	813DB4B9	00477D47
P10	253B22A8	AEC8090F	0	813DB4B9	0088BAAE
P10	29234B2F	DB820243	1	409EDA5C	009DD954
P10	1A481209	D6E08090	1	BF6125A3	004FEDA E
P10	E959B681	15882024	0	00000000	0D2492D5
P10	F91F4915	356E0809	0	409EDA5C	04804940
P10	EF407682	605B8202	0	00000000	204F24AA
P10	F3C3D48A	2B56E080	0	409EDA5C	10201241
P10	E8DF4725	CAD5B820	0	813DB4B9	28416924
P10	D068E6AE	02B56E08	0	00000000	542EB292
P10	E111950F	00AD5B82	0	00000000	28145141
P11	0925E650	40AD5B82	0	00000000	00000001
P15	0925E651	40AD5B82	0	00000000	00000001

TIME	A REGISTER	SIGMA LOGIC SIMULATION, MW, CASE 0076		76	
		B REGISTER BC31	D REGISTER	CS REGISTER	
PPR	B6A03674	00000000	0	00000000	FFFFFFF
P01	00000000	495FC98B	1	00000000	00000000
P02	00000000	1257F262	1	C9B14785	FFFFFFF
P09	00000000	0495FC98	1	00000000	00000000
P10	00000000	01257F26	0	C9B14785	00000000
P10	F26C51E1	40495FC9	0	364EB87A	00000000
P10	F10BBA66	D01257F2	0	6C9D70F5	19260830
P10	E12CF0A8	C40495FC	0	364EB87A	3C861C3A
P10	FAF9153A	1101257F	0	6C9D70F5	1A075C1D
P10	E318CE74	A440495F	1	00000000	3D4EAA1E
P10	F795991A	991C1257	1	C9B14785	1084450A
P10	8BA826E5	76440495	1	00000000	68CAA285
P10	F8DBA118	1D910125	0	00000000	04441142
P10	FF272C16	A7644049	0	6C9D70F5	00200080
P10	E4E69718	E9D91012	0	364EB87A	3612904A
P10	F92EAFCA	0A764404	0	364EB87A	1B23482D
P10	F510D7E7	629D9101	0	6C9D70F5	1D975435
P10	E106BCC9	E8A76440	0	00000000	3ECAA7A
P10	F7F305AC	EA29D910	0	364EB87A	10015424
P10	F46F3A7C	8AA76444	0	00000000	1B218A16
P11	0F90C493	0A8A7644	0	00000000	00000001
P15	0F90C493	0A8A7644	0	00000000	00000001

TIME	SIGMA LOGIC SIMULATION, MW, CASE 0077				77
	A REGISTER	B REGISTER BC31	D REGISTER	CS REGISTER	
PPR	1C0596DA	00000000 0	00000000	FFFFFFF	
P01	00000000	1C0596DA 0	00000000	00000000	
P02	00000000	070165B6 0	E9D369A7	00000000	
P09	00000000	01C0596D 0	D3A6D34E	00000000	
P10	F4E9B4D3	8070165B 0	D3A6D34E	00000000	
P10	89D3D9E7	601C0596 1	E9D369A7	68504821	
P10	82143E18	58070165 1	162C9658	74E9A4D3	
P10	F8344324	F601C059 0	162C9658	0B165B2C	
P10	F943A394	0D807016 0	D3A6D34E	0D1A2996	
P10	89FFD653	23601C05 0	E9D369A7	6C8151CB	
P10	832B7B8F	C8D80701 0	D3A6D34E	74E9A8E1	
P10	89190008	123601C0 0	E9D369A7	69D5FDE7	
P10	8247E512	348D8070 0	E9D369A7	74E8B4D3	
P10	87DF0E19	AD23601C 0	0C000000	7061F2C9	
P10	FDEFBF34	0B48D807 0	00000000	00208104	
P10	FF73CF8C	32D23601 1	00000000	00104082	
P10	FFD8E3C3	8CB48D80 0	162C9658	00082040	
P10	FA7F1576	E32D2360 0	D3A6D34E	0B045120	
P10	88B765C6	08CB48D8 C	00000000	6D9328B3	
P10	F949135D	5232D236 0	00000000	04499041	
P11	FD92A39E	5232D236 0	00000000	00000001	
P15	FD92A39F	5232D236 0	00000000	00000001	

TIME	SIGMA LOGIC SIMULATION, MW, CASE 0078				78
	A REGISTER	B REGISTER BC31	D REGISTER	CS REGISTER	
PPR	6E140AFA	00000000 0	00000000	FFFFFFF	
P01	00000000	6E140AFA 0	00000000	00000000	
P02	00000000	188502BE 0	4DF2E8D8	00000000	
P09	00000000	06E140AF 0	9BE5D180	00000000	
P10	26F9746C	01B8502B 1	9BE5D180	00000000	
P10	2F472977	006E140A 1	B20D1727	0170A810	
P10	E70EA590	001B8502 1	00000000	11A2949B	
P10	FDAB0C42	F006E140 1	B20D1727	00814248	
P10	93C9D64B	7CC1B850 0	B20D1727	58448321	
P10	9E601093	6F006E14 0	4DF2E8D8	4926CB91	
P10	E6AD0CF6	8BC01B85 0	00000000	26816448	
P10	F0071A2F	92F006E1 0	00000000	13508220	
P10	F8D5E603	F4BC01B8 0	4DF2E8D8	08000110	
P10	EF49C3F2	FD2F006E 0	4DF2E8D8	24687008	
P10	E1B4D6C8	BF4BC01B 0	00000000	36B4706C	
P10	F5C029A9	2FD2F006 1	9BE5D180	105A2824	
P10	DF9FF40F	4BF4BC01 1	B20D1727	48E014D0	
P10	895CB0FE	12FD2F00 0	B20D1727	6D468A03	
P10	9585C836	84BF4BC0 0	9BE5D180	54A64F93	
P10	D6819585	5D2FD2F0 0	00000000	4AD2E4D9	
P11	21847A5E	9D2FD2F0 0	00000000	00000001	
P15	21847A5F	9D2FD2F0 0	00000000	00000001	

TIME	A REGISTER	SIGMA LOGIC SIMULATION, MW , CASE 0079		79 D REGISTER	CS REGISTER
		B REGISTER BC31			
PPR	13048243	00000000	0	00000000	FFFFFFF
P01	00000000	13048243	0	00000000	00000000
P02	00000000	04C12090	1	3708F585	00000000
P09	00000000	01304824	0	C8F70A7A	00000000
P10	F23DC29E	804C1209	0	3708F585	00000000
P10	F14D4DC6	F0130482	0	00000000	19C46042
P10	FA124861	3C04C120	0	3708F585	08822021
P10	F1662781	4F013048	0	6E11EB0A	1D013090
P10	E09DBF0A	F3C04C12	0	00000000	3E8091C8
P10	F78748B0	BCFC1304	0	00000000	10404884
P10	F9F1C0CD	2F3C04C1	0	6E11EB0A	08002440
P10	E7F803E1	CBCF0130	0	00000000	3408F084
P10	F4FC3CF1	72F3C04C	0	3708F585	12040010
P10	F47C3259	1CBFC013	0	00000000	1B061A48
P10	FBDE8A04	672F3C04	1	00000000	08020924
P10	FCF720C8	19CBCF01	0	C8F70A7A	04010402
P10	8C0048AC	0672F3C0	0	3708F585	667B8025
P10	F75CCF83	119CBCF0	0	3708F585	130460D2
P10	F4D41685	24672F3C	0	00000000	188672C1
P10	F8D4991D	2919CBCF	0	00000000	08420940
P11	0416A25D	A919CBCF	0	00000000	00000001
P15	0416A25D	A919CBCF	0	00000000	00000001

TIME	A REGISTER	SIGMA LOGIC SIMULATION, MW , CASE 0080		80 D REGISTER	CS REGISTER
		B REGISTER BC31			
PPR	9ACB652D	00000000	0	00000000	FFFFFFF
P01	00000000	65349AD2	1	00000000	00000000
P02	00000000	194D2684	1	A56F321B	FFFFFFF
P09	00000000	065349AD	0	A56F321B	00000000
P10	E95BCC86	C194D268	0	5A90CDE4	00000000
P10	ECF2C058	B065349A	1	5A90CDE4	24086642
P10	E49A9AFF	BC194D26	1	A56F321B	36486220
P10	9DEF72B1	3F065349	1	A56F321B	5225191D
P10	9AA9566D	EFC194D2	0	A56F321B	4AB7990C
P10	9D5C7F5E	9BF06534	0	B52198C9	45578906
P10	DB4A9B64	56FC194D	0	B52198C9	4AAACDA7
P10	C9307342	B5BF0653	0	00000000	6D954DF2
P10	E9294FAC	1D6FC194	1	5A90CDE4	248820A1
P10	E5CC68BA	575BF065	0	A56F321B	344426D2
P10	9D39DF1C	E5D6FC19	0	5A90CDE4	52A61140
P10	E543C0ED	7975BF06	0	5A90CDE4	2D586EA6
P10	E4A2D8EB	EE5D6FC1	0	5A90CDE4	36A86672
P10	E2269CDF	4B975BF0	0	B52198C9	3B506671
P10	DB15D859	F2E5D6FC	0	5A90CDE4	59904F6C
P10	F60556B4	6CB975BF	0	00000000	2DC866B6
P11	23CDBD6A	ECB975BF	0	00000000	00000001
P15	23CDBD6B	ECB975BF	0	00000000	00000001

TIME	A REGISTER	SIGMA LOGIC SIMULATION, B REGISTER BC31	MW , CASE 0081 D REGISTER	81 CS REGISTER
PPR	C1C7FCFC	00000000 0	00000000	FFFFFFFF
P01	00000000	3E380303 1	00000000	00000000
P02	00000000	0F8E00C0 1	DFA08A94	FFFFFFFF
P09	00000000	03E38030 0	00000000	00000000
P10	00000000	00F8E00C 0	205F756B	00000000
P10	0817DD5A	C03E3803 0	00000000	00000000
P10	0205F756	800F8E00 1	00000000	00000000
P10	00817DD5	800F8E00 0	DFA08A94	00000000
P10	F7C87D00	6C00F8E0 0	205F756B	0040044A
P10	F5F5C33C	5B003E38 0	00000000	10243AAS
P10	F9747E66	66C00F8E 0	00000000	08120112
P10	FC599FDD	19B003E3 0	00000000	04080001
P10	FE1467F7	066C00F8 1	40BEEAD7	02040000
P10	EF2BA348	219B003E 0	DFA08A94	210A316B
P10	8460462D	F866C00F 0	205F756B	779551A4
P10	F4EA98B8	BE19B003 1	40BEEAD7	122AAA96
P10	E95FB63E	5F866C00 1	DFA08A94	2855554B
P10	875A9A78	77E19B00 0	00000000	74CAC80F
P10	FCD4145D	DDF866C0 0	205F756B	02454504
P10	F7B3890C	B77E19B0 0	00000000	102AAA46
P11	07DE33B3	777E19B0 0	00000000	00000001
P15	07DE33B3	777E19B0 0	00000000	00000001

TIME	A REGISTER	SIGMA LOGIC SIMULATION, B REGISTER BC31	MW , CASE 0082 D REGISTER	82 CS REGISTER
PPR	1CC95618	00000000 0	00000000	FFFFFFFF
P01	00000000	1CC95618 0	00000000	00000000
P02	00000000	07325586 0	8A5F76B0	00000000
P09	00000000	01CC9561 0	00000000	00000000
P10	00000000	00732558 0	14BEED60	00000000
P10	C52F8B58	001CC956 0	8A5F76B0	00000000
P10	93DC337A	00073255 0	00000000	40079908
P10	F4F6EA9C	8001CC95 0	14BEED60	00020884
P10	B81283DE	20007325 0	8A5F76B0	0A5B7442
P10	8E05A04B	08001CC9 0	8A5F76B0	452DBB69
P10	905DD864	82000732 0	8A5F76B0	47C6D934
P10	97411038	008001CC 0	8A5F76B0	412FED9A
P10	970C6184	90200073 0	14BEED60	41A7BEDC
P10	B0854C8E	2408001C 1	00000000	0AD776E2
P10	EE948E98	09020007 0	75A0894F	0042A241
P10	E6DDA965	42408001 1	8A5F76B0	32404325
P10	97B0A6BC	00902000 0	75A0894F	512EB292
P10	ECCFA758	70240800 0	14BEED60	2ADC514F
P10	B4A846DD	EC090200 0	00000000	166F72A4
P10	E8B1CD1E	75024080 0	00000000	0A142142
P11	F2C5EE60	7B024080 0	00000000	00000001
P15	F2C5EE61	7B024080 0	00000000	00000001

TIME	A REGISTER	SIGMA LOGIC SIMULATION, B REGISTER BC31	MW , CASE 0083	D REGISTER	CS REGISTER
PPR	37C1F3C1	00000000	0	00000000	FFFFFFF
P01	00000000	37C1F3C1	0	00000000	00000000
P02	00000000	0DF07CF0	0	FCFD3918	00000000
P09	00000000	037C1F3C	0	FCFD3918	00000000
P10	FF3F4E46	00DF07CF	0	00000000	00000000
P10	FFCFD391	8037C1F3	1	00000000	00000000
P10	FFF3F4E4	600DF07C	1	0302C6E7	00000000
P10	FF3C4C80	08037C1F	0	00000000	01816272
P10	FFAF48BC	86C0DF07	1	FCFD3918	00802000
P10	80F494A9	318037C1	1	0302C6E7	7E56948C
P10	FF683180	8C600DF0	0	00000000	012B4A56
P10	FF90DEF9	9318037C	0	F9FA7230	00940008
P10	81BFAB30	74C600DF	0	00000000	7CC8291C
P10	FF5DEC08B	10318037	1	00000000	00441488
P10	FFC67D00	C74C600D	1	0302C6E7	00220044
P10	FF39AEE8	F1D31803	0	00000000	01812222
P10	FFAE2332	8C74C600	1	F9FA7230	00809110
P10	81B53004	B31D3180	0	0302C6E7	7C051998
P10	FF98BBDE	ECC74C60	0	FCFD3918	00CA8842
P10	80EBC2A1	0831D318	0	00000000	7E6C5CAD
P11	FF581F4E	4B31D318	0	00000000	00000001
P15	FF581F4F	4B31D318	0	00000000	00000001

TIME	A REGISTER	SIGMA LOGIC SIMULATION, B REGISTER BC31	MW , CASE 0084	D REGISTER	CS REGISTER
PPR	0C1031F3	00000000	0	00000000	FFFFFFF
P01	00000000	0C1031F3	0	00000000	00000000
P02	00000000	03040C7C	1	1EDB580D	00000000
P09	00000000	00C1031F	0	E124A7F2	00000000
P10	F84929FC	80304CC7	1	1EDB580D	00000000
P10	F9A49C7C	700C1031	1	E124A7F2	0C248406
P10	85292FE2	1C03040C	0	00000000	74924238
P10	FC6EDB76	5700C103	0	3DB6B01A	02000111
P10	F0F61A9F	55C03040	1	00000000	1E134889
P10	FBB95485	95700C10	0	E124A7F2	08090444
P10	84A530CC	C55C0304	0	1EDB580D	74948262
P10	FBBAB9E8	D15700C1	0	00000000	0A4A8C26
P10	FC7C0D73	8455C030	0	00000000	05054410
P10	FE5E5258	F115700C	0	1EDB580D	02020208
P10	F8A1C217	7C455C03	0	00000000	0F2D2904
P10	FDE33AC4	DF115700	1	00000000	04108002
P10	FE7CEE81	B7C455C0	0	E124A7F2	02000000
P10	87561250	EDF11570	0	1EDB580D	71125358
P10	FA27C641	4B7C455C	0	00000000	0BA9292C
P10	FC6388DB	62DF1157	0	00000000	05108000
P11	017438DB	62DF1157	0	00000000	00000001
P15	017438DB	62DF1157	0	00000000	00000001

TIME	A REGISTER	SIGMA LOGIC SIMULATION, MW, CASE 0085		85	
		B REGISTER BC31	D REGISTER	CS REGISTER	
PPR	3F1C8782	00000000	0	00000000	FFFFFFF
P01	00000000	3F1C8782	0	00000000	00000000
P02	00000000	0FC721E0	0	E8FC75C1	00000000
P09	00000000	03F1C878	0	D1F8E882	00000000
P10	F47E9AE0	80FC721E	0	00000000	00000000
P10	FD1F8E88	203F1C87	0	00000000	00000000
P10	FF47E3AE	080FC721	1	D1F8E882	00000000
P10	8BAFC20B	0203F1C8	0	17038A3E	68A071C1
P10	FD030E7D	0080FC72	0	D1F8E882	05D1E103
P10	8A4A813E	B0203F1C	0	00000000	6AE8F582
P10	F8289D2F	0C080FC7	0	D1F8E882	05244081
P10	8B3D0D8B	130203F1	1	00000000	689464C1
P10	F8EAB5A2	A4C080FC	0	17038A3E	040A0240
P10	FAP8F48B	0930203F	0	D1F8E882	0A050529
P10	88414688	224C080F	1	00000000	6D7C72C5
P10	F94F4D13	68930203	1	17038A3E	04202140
P10	FA9B399B	5A24C080	1	00000000	0A818489
P10	FC06AF44	A6893020	0	00000000	05408044
P10	FEB18BC0	09A24C08	0	E8FC75C1	02004022
P10	852B6F88	D2689302	0	00000000	752820E0
P11	FA539068	D2689302	0	00000000	00000001
P15	FA539069	D2689302	0	00000000	00000001

TIME	A REGISTER	SIGMA LOGIC SIMULATION, MW, CASE 0086		86	
		B REGISTER BC31	D REGISTER	CS REGISTER	
PPR	72436AC1	00000000	0	00000000	FFFFFFF
P01	00000000	72436AC1	0	00000000	00000000
P02	00000000	1C90DAB0	0	7CBDC530	00000000
P09	00000000	072436AC	0	7CBDC530	00000000
P10	1F2F714C	01C90DAB	0	00000000	00000000
P10	07CBDC53	0072436A	1	00000000	00000000
P10	01F2F714	C01C90DA	1	83423ACF	00000000
P10	EOAC3376	F0072436	1	83423ACF	00A11902
P10	98D3C42E	CC01C90D	1	83423ACF	40501DA3
P10	96F078D0	93007243	0	83423ACF	40290E57
P10	9566D312	24C01C90	1	F97B8A60	41301D6B
P10	CB4B5106	49300724	0	83423ACF	68894081
P10	882C099E	224C01C9	0	7CBDC530	65A5ACC3
P10	E44D181B	78930072	0	00000000	3656C6C9
P10	F486F784	9E24C01C	0	7CBDC530	12220004
P10	E6864CA0	07893007	0	F97B8A60	3A53629A
P10	C96BA916	91E24C01	1	00000000	7D29A550
P10	ED108311	A4789300	0	83423ACF	2494D088
P10	92B19A55	A91E24C0	0	F97B8A60	52884944
P10	CE50965C	5A478930	0	00000000	695CC522
P11	37AD587E	9A478930	0	00000000	00000001
P15	37AD587F	9A478930	0	00000000	00000001

TIME	A REGISTER	SIGMA LOGIC SIMULATION, MW , CASE 0087		CS REGISTER	
		B REGISTER BC31	D REGISTER		
PPR	6684E6C2	00000000	0	00000000	FFFFFFFF
P01	00000000	6684E6C2	0	00000000	00000000
P02	00000000	19A139B0	0	F1C133C0	00000000
P09	00000000	06684E6C	0	E3826780	00000000
P10	F8E099E0	019A139B	0	00000000	00000000
P10	FE382678	006684E6	1	00000000	00000000
P10	FF8E099E	0019A139	1	0E3ECC3F	00000000
P10	FC6C3168	4006684E	0	0E3ECC3F	0707040F
P10	FD557E56	20019A13	0	E3826780	07170217
P10	867006F0	78006684	1	E3826780	738BB308
P10	859E749E	DE0019A1	0	0E3ECC3F	71C113C0
P10	FE986AD8	77800668	0	F1C133C0	02CF2A4F
P10	83659CD5	EDE0019A	0	F1C133C0	79649564
P10	82F00E9C	78780066	0	00000000	78B2CAE2
P10	FE90B11F	9EDE0019	0	E3826780	00580540
P10	8752B4F7	E7B78006	0	E3826780	71481280
P10	8566307D	F9EDE001	0	F1C133C0	71A11B40
P10	8141863F	7E7B7800	0	E3826780	78F099A0
P10	868CDE07	DF9EDE00	0	F1C133C0	7CE043D0
P10	81EB6B85	F7E7B780	0	00000000	786029E0
P11	FA4B9565	F7E7B780	0	00000000	00000001
P15	FA4B9565	F7E7B780	0	00000000	00000001

TIME	A REGISTER	SIGMA LOGIC SIMULATION, MW , CASE 0088		CS REGISTER	
		B REGISTER BC31	D REGISTER		
PPR	3F5A5ACB	00000000	0	00000000	FFFFFFFF
P01	00000000	3F5A5ACB	0	00000000	00000000
P02	00000000	0FD696B2	1	7CF4DF30	00000000
P09	00000000	03F5A5AC	1	830B20CF	00000000
P10	E0C2C833	C0FD696B	0	830B20CF	00000000
P10	98F27A3F	003F5A5A	1	7CF4DF30	40010001
P10	E901E943	800FD696	1	830B20CF	2C782D18
P10	919CB925	1003F5A5	1	830B20CF	548494A5
P10	9184C353	C400FD69	0	830B20CF	48C65852
P10	96926EF3	81003F5A	0	F9E9BE60	40C32029
P10	CBEE3C2E	AC400FD6	0	7CF4DF30	68619730
P10	F7DEDD0B	981003F5	0	F9E9BE60	34724F98
P10	CE91483C	F6C400FD	0	F9E9BE60	7AFD6F54
P10	D3616686	3DB1003F	0	7CF4DF30	7D7CB792
P10	F4BA4385	0F6C400F	1	7CF4DF30	3EBA7BD9
P10	EDBD39DB	03DB1003	1	830B20CF	3E5D20C8
P10	943ACD37	20F6C400	1	00000000	578E94E5
P10	F0ED1674	B83DB100	0	00000000	0A054212
P10	FEBA1519	8E0F6C40	0	7CF4DF30	00028108
P10	E09312C8	7383DB10	0	00000000	3E594A8C
P11	1EEC5D54	7383DB10	0	00000000	00000001
P15	1EEC5D55	7383DB10	0	00000000	00000001

TIME	A REGISTER	SIGMA LOGIC SIMULATION, MW, CASE 0089		89 CS REGISTER
		B REGISTER BC31	D REGISTER	
PPR	493A486C	00000000	0	00000000
PO1	00000000	493A426C	0	00000000
PO2	00000000	124E9098	0	00000000
PO9	00000000	0493A426	1	00000000
P10	00000000	0124E909	1	00000000
P10	F26E24B1	80493A42	0	00000000
P10	8EFC6D9D	F0124E90	0	60020040
P10	E08A2DEB	CC0493A4	0	366B2428
P10	EE8DF4EC	430124E9	0	32651685
P10	F73A9856	60C0493A	0	11028A12
P10	F98E2CA9	1830124E	0	08810409
P10	F1D91166	46C0493	0	1C459614
P10	E08E740	31830124	1	3E6AC98B
P10	EC8BA102	4C60C049	0	362960B9
P10	84C1979F	53183012	0	765C00C1
P10	F13D6A99	E4C60C04	0	1B24EACC
P10	F71C8358	19318301	0	1996F54C
P10	E0978819	764C60C0	0	3ECB69AD
P10	F79710AD	1D931830	0	10419484
P10	F46F7A44	2764C60C	0	1B218A56
P11	0F91049A	A764C60C	0	00000001
P15	0F91049B	A764C60C	0	00000001

TIME	A REGISTER	SIGMA LOGIC SIMULATION, MW, CASE 0090		90 CS REGISTER
		B REGISTER BC31	D REGISTER	
PPR	1CC95618	00000000	0	00000000
PO1	00000000	1CC95618	0	00000000
PO2	00000000	07325586	0	F1C133C0
PO9	00000000	01CC9561	0	00000000
P10	00000000	00732558	0	E3826780
P10	F8E099E0	001CC956	0	F1C133C0
P10	82486A88	00073255	0	00000000
P10	FE8A189A	0001CC95	0	E3826780
P10	874A1ED6	80007325	0	F1C133C0
P10	81F288D5	A0001CC9	0	F1C133C0
P10	8224CC8D	68000732	0	F1C133C0
P10	82C56E9F	5A0001CC	0	F1C133C0
P10	82DD1FEF	D6800073	0	E3826780
P10	864FFA43	F5A0001C	1	00000000
P10	FDCBFC6C	FD680007	0	0E3ECC3F
P10	FCF54D8C	FF5A0001	1	F1C133C0
P10	82C84622	8FD68000	0	0E3ECC3F
P10	FDA70E6D	F3F5A000	0	E3826780
P10	86C402BE	0CFD6800	0	00000000
P10	FDO8ECAF	333F5A00	0	00000000
P11	FE65ED90	333F5A00	0	00000000
P15	FE65ED91	333F5A00	0	00000001

91

TIME	A REGISTER	SIGMA LOGIC SIMULATION, MH, CASE 0001		D REGISTER	CS REGISTER
		B REGISTER BC31			
PPR	0000FC7C	00000000	0	00000000	FFFFFFF
P01	00000000	FFFF0383	1	000037BF	FFFFFFF
P02	00000000	3FFFC0E0	1	37BF0000	FFFFFFF
P09	00000000	0FFFF038	0	00000000	00000000
P10	00000000	03FFFC0E	0	C840FFFF	00000000
P10	F210SFFF	C0FFFF03	0	00000000	00000000
P10	FC840FFF	C03FFFC0	1	9081FFFF	00000000
P10	98017C00	000FFFF0	0	37BF0000	484007FF
P10	F93F9EFF	C003FFFC	0	C840FFFF	0D805200
P10	8F3FF8C0	0000FFFF	0	00000000	64804FFF
P10	FAEFEDEF	C0003FFF	0	00000000	02002420
P10	FE3BF273	C0000FFF	0	00000000	01001210
P11	FF3C0484	00000FFF	0	00000000	00000001
P15	FF3C0484	00000FFF	0	00000000	00000001

92

TIME	A REGISTER	SIGMA LOGIC SIMULATION, MH, CASE 0002		D REGISTER	CS REGISTER
		B REGISTER BC31			
PPR	00000383	00000000	0	00000000	FFFFFFF
P01	00000000	00000383	0	FFFFC840	FFFFFFF
P02	00000000	000000E0	1	C8400000	FFFFFFF
P09	00000000	00000038	0	37BFFFFFF	00000000
P10	0DEFFFFFF	C000000E	0	C8400000	00000000
P10	F16BFFFF	C0000003	0	00000000	04200000
P10	F052FFFF	C0000000	1	90800000	00100000
P10	9B70BFFF	C0000000	0	37BFFFFFF	48080000
P10	F9310000	00000000	0	C8400000	0D9C5FFF
P10	8F3863FF	C0000000	0	00000000	64882800
P10	FAECD2FF	C0000000	0	00000000	02041000
P10	FE3A30BF	C0000000	0	00000000	01020800
P11	FF3C38C0	00000000	0	00000000	00000001
P15	FF3C38C0	00000000	0	00000000	00000001

TIME	A REGISTER	SIGMA LOGIC SIMULATION, MH, CASE 0003		93	
		B REGISTER BC31	D REGISTER	CS REGISTER	
PPR	→ 0000E159	00000000	0	00000000	FFFFFFFF
P01	→ 00000000	FFFF1EA6	1	000027C1	FFFFFFFF
P02	00000000	3FFFC7A9	1	27C10000	FFFFFFFF
P09	00000000	0FFFF1EA	0	27C10000	00000000
P10	→ 09F04000	03FFFC7A	0	807DFFFF	00000000
P10	EE636FFF	C0FFFF1E	0	807DFFFF	0038E000
P10	9789AC00	003FFFC7	0	807DFFFF	803CB7FF
P10	9DF23900	000FFFF1	1	807DFFFF	481EDFFF
P10	99444440	0003FFFC	0	27C10000	4C9F7FFF
P10	FC46E66F	C000FFFF	0	807DFFFF	0682A320
P10	989A74AC	00003FFF	0	00000000	5A5B3787
P10	→ F23048C6	C0000FFF	0	00000000	090D2A82
P11	× FB3D7319	FB3D.7319	0	00000000	00000001
P15	FB3D7319	00000FFF	0	00000000	00000001

TIME	A REGISTER	SIGMA LOGIC SIMULATION, MH, CASE 0004		94	
		B REGISTER BC31	D REGISTER	CS REGISTER	
PPR	00001EA6	00000000	0	00000000	FFFFFFFF
P01	00000000	00001EA6	0	FFFFD83E	FFFFFFFF
P02	00000000	000007A9	0	D83E0000	FFFFFFFF
P09	00000000	000001EA	0	807C0000	00000000
P10	EC1F0000	0000007A	0	D83E0000	00000000
P10	8D084000	0000001E	0	807C0000	640F0000
P10	965ED000	00000007	0	807C0000	52060000
P10	9D093400	00000001	1	807C0000	492F0000
P10	99168000	00000000	0	27C1FFFF	4C968000
P10	FC907CBF	C0000000	0	807C0000	06CB4680
P10	9289CE8F	C0000000	0	00000000	5A6C2240
P10	F2397B33	C0000000	0	00000000	09040100
P11	FB3D7C34	00000000	0	00000000	00000001
P15	FB3D7C34	00000000	0	00000000	00000001

95

TIME	A REGISTER	SIGMA LOGIC SIMULATION, MM , CASE 0005		D REGISTER	CS REGISTER
		B REGISTER BC31			
PPR	000048C1	00000000	0	00000000	FFFFFFFF
PO1	00000000	000048C1	0	000030C9	FFFFFFFF
PO2	00000000	00001230	0	30C90000	FFFFFFFF
PO9	00000000	0000048C	0	30C90000	00000000
P10	0C324000	00000123	0	00000000	00000000
P10	030C9000	00000048	1	00000000	00000000
P10	00C32400	00000012	0	CF36FFFF	00000000
P10	F3FD76FF	C0000004	0	30C90000	00011200
P10	F0CD593F	C0000001	0	61920000	18648900
P10	E24EF40F	C0000000	0	00000000	38620480
P10	F6853C23	C0000000	0	30C90000	10210200
P10	F598CF88	C0000000	0	00000000	18448000
P11	0DD04F89	00000000	0	00000000	00000001
P15	0DD04F89	00000000	0	00000000	00000001

96

TIME	A REGISTER	SIGMA LOGIC SIMULATION, MM , CASE 0006		D REGISTER	CS REGISTER
		B REGISTER BC31			
PPR	0000B73E	00000000	0	00000000	FFFFFFFF
PO1	00000000	FFFF48C1	1	FFFFC736	FFFFFFFF
PO2	00000000	3FFFD230	0	C7360000	FFFFFFFF
PO9	00000000	0FFFF48C	0	7193FFFF	00000000
P10	1C64FFFF	C3FFFD23	0	00000000	00000000
P10	07193FFF	C0FFFF48	1	00000000	00000000
P10	01C64FFF	C03FFFD2	0	C7360000	00000000
P10	F18C13FF	C00FFFF4	0	38C9FFFF	00830000
P10	F27DBB00	0003FFFD	0	7193FFFF	184489FF
P10	E6EAB340	0000FFFF	0	00000000	382AD0FF
P10	F7801BAF	C0003FFF	0	38C9FFFF	101548A0
P10	F7DB2B3C	00000FFF	0	00000000	1848ADD7
P11	1023D914	00000FFF	0	00000000	00000001
P15	1023D914	00000FFF	0	00000000	00000001

TIME	A REGISTER	SIGMA LOGIC SIMULATION, MH, CASE 0007		D REGISTER	CS REGISTER
		B REGISTER BC31			
PPR	FFFF62EA	00000000	0	00000000	FFFFFFF7
P01	00000000	FFFF62EA	0	00005AF6	FFFFFFF7
P02	00000000	3FFFD8BA	0	5AF60000	FFFFFFF7
P09	00000000	OFFF62E	0	B5E80000	00000000
P10	2D7A0000	03FFFD8B	0	B5E80000	00000000
P10	28248000	00FFFF62	1	B5E80000	12B40000
P10	208E2000	003FFFD8	1	A50BFFFF	1B520000
P10	E781F7FF	C00FFFF6	0	A50BFFFF	10AD1000
P10	9489C600	0003FFFD	0	5AF60000	52C4F5FF
P10	E78EAF7F	C000FFFF	0	B5E80000	29626100
P10	DEE9CB9F	C0003FFF	0	5AF60000	52B52080
P10	F5AA0AC7	C0000FFF	0	00000000	2D7A8040
P11	23248B08	00000FFF	0	00000000	00000001
P15	23248B08	00000FFF	0	00000000	00000001

TIME	A REGISTER	SIGMA LOGIC SIMULATION, MH, CASE 0008		D REGISTER	CS REGISTER
		B REGISTER BC31			
PPR	00009D15	00000000	0	00000000	FFFFFFF7
P01	00000000	FFFF62EA	1	FFFFA50B	FFFFFFF7
P02	00000000	3FFFD8BA	1	A50B0000	FFFFFFF7
P09	00000000	OFFF62E	1	A50B0000	00000000
P10	E942C000	03FFFD8B	1	A50B0000	00000000
P10	93127000	00FFFF62	1	A50B0000	50810000
P10	99A61C00	003FFFD8	1	00000000	48818000
P10	F449E700	000FFFF6	0	A50B0000	04400000
P10	9540B9C0	0003FFFD	0	5AF6FFFF	52248000
P10	E764318F	C000FFFF	0	B5E9FFFF	29325CE0
P10	DEEFE444	00003FFF	0	5AF6FFFF	52B03EF7
P10	F5AAC968	00000FFF	0	00000000	2D7A7F7B
P11	232548E7	00000FFF	0	00000000	00000001
P15	232548E7	00000FFF	0	00000000	00000001

TIME	A REGISTER	SIGMA LOGIC SIMULATION, DM , CASE 0008			CS REGISTER
		B REGISTER BC31	D REGISTER		
P11	00004283	7FFFBE1E	0	FFFFB777	00000000
P11	FFFFF9FA	FFFF7C3D	0	00004888	00000001
P13	00004283	FFFF7C3D	0	00004888	00000000
P14	FFFF7C3D	FFFF7C3D	0	00000000	00000001
P15	FFFF7C3E	FFFF7C3D	0	00000000	00000000

TIME	A REGISTER	SIGMA LOGIC SIMULATION, MI , CASE 0001			CS REGISTER
		B REGISTER BC31	D REGISTER		
PPR	FAA401EB	00000000	0*	00000000	FFFFFFFF
P01	00000000	055BFE14	1	00042EFD	00000000
P02	00000000	0156FF85	0	00042EFD	FFFFFFFF
P09	00000000	0055BFE1	0	FFFBD102	00000000
P10	FFFEF440	80156FF8	0	FFFBD102	00000000
P10	80014950	B0055BFE	0	FFFBD102	7FFD6800
P10	8001FC14	8C0156FF	0	00000000	7FFCA480
P10	FFFF5625	3F0055BF	1	FFF7A205	00005200
P10	80022988	0FC0156F	1	00042EFD	7FFBA902
P10	FFFF6B90	F3F0055B	1	00000000	000114C4
P10	FFFF9FD6	7CF0156F	1	00000000	00008042
P10	FFFFC7E5	1F3F0055	1	00000000	00004021
P10	FFFFE1F1	07CF0015	0	00042EFD	00002010
P10	FFFEFBC7	21F3F005	0	FFF7A205	00021078
P10	8002D26E	A87CF001	0	FFFBD102	7FFB5922
P10	80009693	9A1F3F00	0	FFFBD102	7FFDE891
P10	8001ABC0	0687CF00	0	FFFBD102	7FFCE849
P10	8001A4A2	C1A1F3F0	0	00000000	7FFCF4A0
P10	FFFF5400	90687CF0	0	00000000	00005250
P10	FFFFC194	341A1F3F	0	00000000	00002800
P11	FFFFE994	341A1F3F	0	00000000	00000001
P15	FFFFE99E	341A1F3F	0	00000000	00000001

TIME	A REGISTER	SIGMA LOGIC SIMULATION, MI , CASE 0002		101	
		B REGISTER BC31	D REGISTER	CS REGISTER	
PPR	36DAE799	00000000	0	00000000	FFFFFFF
P01	00000000	36DAE799	0	0006590D	00000000
P02	00000000	0DB689E6	0	0006590D	00000000
P09	00000000	036DAE79	0	0006590D	00000000
P10	00019643	40DB689E	0	000C821A	00000000
P10	00034916	5036DAE7	0	0006590D	00004901
P10	00015646	940DB689	1	000C821A	00012482
P10	00033037	85036DAE	0	FFF9A6F2	00009801
P10	FFFE8971	3140DB68	0	000C821A	0000D919
P10	FFFCBA1C	8C5036DA	1	000C821A	0006458C
P10	FFFD9062	8F140DB6	1	FFF9A6F2	00065D0E
P10	80009AE7	B3C5036D	1	FFF9A6F2	7FFECA31
P10	8001FD89	3CF140DB	0	FFF9A6F2	7FFC4579
P10	80010780	BF3C5036	1	000C821A	7FFCF2FC
P10	FFFC51D9	9FCF140D	1	FFF9A6F2	0006594C
P10	8000E899	F7F3C503	0	FFF9A6F2	7FFE28EC
P10	8001D961	CDFCF140	1	000C821A	7FFC557C
P10	FFFC4F81	D37F3C50	0	FFF9A6F2	000668BC
P10	8000E073	C4DFCF14	0	0006590D	7FFC3798
P10	FFFE2389	9137F3C5	0	00000000	000338AC
P11	00015C36	5137F3C5	0	00000000	00000001
P15	00015C37	5137F3C5	0	00000000	00000001

TIME	A REGISTER	SIGMA LOGIC SIMULATION, MI , CASE 0003		102	
		B REGISTER BC31	D REGISTER	CS REGISTER	
PPR	C5971488	00000000	0	00000000	FFFFFFF
P01	00000000	3A68EB47	1	FFFA7646	00000000
P02	00000000	0E9A3AD1	1	FFFA7646	FFFFFFF
P09	00000000	03A68EB4	0	00000000	00000000
P10	00000000	00E9A3AD	0	000B1373	00000000
P10	0002C40C	C03A68EB	0	00000000	00000000
P10	0000B137	000E9A3A	1	000589B9	00000000
P10	00014E23	9003A68E	1	FFFA7646	00004098
P10	FFFEDE3F	5400E9A3	1	FFFA7646	00002301
P10	800122DE	25003A68	1	FFFA7646	7FFD3B03
P10	800198E6	E9400E9A	0	00000000	7FFC9923
P10	FFFF40B1	7A5003A6	0	000589B9	00004C91
P10	FFFEA166	5E9400E9	0	000B1373	0002A4B8
P10	FFFDCE93	47A5003A	0	000B1373	000550B9
P10	FFFCCE196	71E9400E	0	000589B9	0006A8D9
P10	FFFFF03D	8C7A5003	0	000B1373	000254CC
P10	FFFDAD00	A31E9400	1	000B1373	0005A83E
P10	FFFCCE5AB	68C7A500	0	FFFA7646	000604B9
P10	800019D5	3A31E940	0	000589B9	7FFF6A55
P10	FFFE8E8E	6E8C7A50	0	00000000	000284EA
P11	00014379	2E8C7A50	0	00000000	00000001
P15	00014379	2E8C7A50	0	00000000	00000001

TIME	A REGISTER	SIGMA LOGIC SIMULATION, MI, CASE 0004		103	
		B REGISTER BC31	D REGISTER	CS REGISTER	
PPR	26AB3F51	00000000	0	00000000	FFFFFFF
P01	00000000	26AB3F51	0	0005C9D2	00000000
P02	00000000	09AACFD4	0	0005C9D2	00000000
P09	00000000	026AB3F5	0	0005C9D2	00000000
P10	00017274	809AACFD	0	00000000	00000000
P10	00008C9D	2026AB3F	0	0005C9D2	00000000
P10	00046553	C809ACF	1	0005C9D2	00002448
P10	00012232	72026AB3	1	FFFA362D	000082A9
P10	FFFE9AD	9C809AAC	1	00000000	00001914
P10	FFFBC2E	572026AB	0	00000000	00000482
P10	FFFEE2B	25C809AA	1	0005C9D2	00000201
P10	FFFE897E	0972026A	1	FFFA362D	0002E501
P10	80019694	A25C809A	1	FFFA362D	7FFD3294
P10	8001BC8B	D8972026	1	FFFA362D	7FFC884A
P10	8001C07B	1625C809	1	FFFA362D	7FFC5F05
P10	8001EAB4	C5897202	0	FFFA362D	7FFC2B16
P10	8001FDD8	F1625C80	0	000B93A4	7FFC150A
P10	FFFD9EDD	5C589720	0	000B93A4	0004CAC5
P10	FFFCB1EF	271625C8	0	00000000	0006CD62
P10	FFFE9F23	69C58972	0	00000000	000240B1
P11	0000DFD4	69C58972	0	00000000	00000001
P15	0000DFD5	69C58972	0	00000000	00000001

TIME	A REGISTER	SIGMA LOGIC SIMULATION, MI, CASE 0005		104	
		B REGISTER BC31	D REGISTER	CS REGISTER	
PPR	88357F05	00000000	0	00000000	FFFFFFF
P01	00000000	77CA80FA	1	00044133	00000000
P02	00000000	1DF2A03E	1	00044133	FFFFFFF
P09	00000000	077CA80F	1	00044133	00000000
P10	0001104C	C1DF2A03	1	00044133	00000000
P10	0001545F	F077CA80	1	00000000	00000000
P10	00005517	FC1DF2A0	0	00000000	00000000
P10	00001545	FF077CA8	0	FFFBBECC	00000000
P10	FFFEAE2	7FC1DF2A	0	00000000	00000A22
P10	FFF8830	2FF077CA	0	00000000	00000511
P10	FFFFEF48	4BFC1DF2	0	FFF77D99	00000008
P10	80022486	52FF077C	0	FFF77D99	7FFB6684
P10	800388EA	E4BFC1DF	0	FFF77D99	7FF9A44A
P10	8003570E	492FF077	1	00000000	7FF9D0E5
P10	FFFEA28A	F24BFC1D	1	00044133	0000AA82
P10	FFFE9242	FC92FF07	0	00000000	00025159
P10	FFFF30C6	FF24BFC1	1	FFF77D99	00010820
P10	8002515F	FFC92FF0	0	00044133	7FFB9C40
P10	FFFF6308	0FF24BFC	0	FFF77D99	000128A9
P10	80024D8E	F3FC92FF	0	00000000	7FFB4C44
P11	FFFE0253	B3FC92FF	0	00000000	00000001
P15	FFFE0253	B3FC92FF	0	00000000	00000001

TIME	A REGISTER	SIGMA LOGIC SIMULATION, MI , CASE 0006			105
		B REGISTER BC31	D REGISTER	CS REGISTER	
PPR	8DEF82D4	00000000	0	00000000	FFFFFFF
P01	00000000	72107D2B	1	FFFAE01A	00000000
P02	00000000	1C841F4A	1	FFFAE01A	FFFFFFF
P09	00000000	072107D2	1	00000000	00000000
P10	00000000	01C841F4	1	FFFAE01A	00000000
P10	FFFE8806	8072107D	0	FFFAE01A	00000000
P10	80011607	201C841F	0	00051FE5	7FFD8001
P10	FFFE8478	C8072107	1	00051FE5	00028B02
P10	FFFE70A7	E2D1C841	1	FFFAE01A	00030FB0
P10	8001E7C3	58807210	0	00000000	7FFD3059
P10	FFFF38E6	A6201C84	0	000A3FCB	00009020
P10	FFFD6683	49880721	0	00000000	00051AF1
P10	FFFF1F1C	B28201C8	0	00000000	00028140
P10	FFFF2797	0C988072	0	00051FE5	00010080
P10	FFFECE3C	9328201C	0	00000000	000283E2
P10	FFFF137F	94C98807	0	000A3FCB	00014100
P10	FFFD188D	35326201	1	00000000	000589A5
P10	FFFE24B2	3D4C9880	0	FFFAE01A	00028492
P10	8001900E	AFB32620	0	000A3FCB	7FFD5249
P10	FFFD8FA3	2BD4C988	0	00000000	00048325
P11	00024888	EBD4C988	0	00000000	00000001
P15	00024889	EBD4C988	0	00000000	00000001

TIME	A REGISTER	SIGMA LOGIC SIMULATION, MI , CASE 0007			106
		B REGISTER BC31	D REGISTER	CS REGISTER	
PPR	D93AE796	00000000	0	00000000	FFFFFFF
P01	00000000	26C51869	1	000065D1	00000000
P02	00000000	09B1461A	0	000065D1	FFFFFFF
P09	00000000	026C5186	0	FFFF345D	00000000
P10	FFFFCD17	409B1461	0	FFFF345D	00000000
P10	80003E92	A026C518	0	FFFF345D	7FFF820A
P10	80002201	5809B146	0	FFFF9A2E	7FFF9B8D
P10	800008C0	B6026C51	0	00000000	7FFFC016
P10	FFFFF175	9D809B14	0	FFFF345D	00000400
P10	8000304A	376026C5	0	FFFF9A2E	7FFF9A2A
P10	80000C13	BDD809B1	0	00000000	7FFFC015
P10	FFFFF041	BF76026C	0	FFFF9A2E	00000608
P10	80001B19	CFDD809B	0	FFFF9A2E	7FFFC904
P10	8000120C	D3F76026	1	00000000	7FFFC084
P10	FFFFF7E2	94FDD809	1	000065D1	00000002
P10	FFFE48C	753F7602	0	000065D1	000032E1
P10	FFFECEF	104FDD80	0	FFFF345D	00003260
P10	80003A84	A753F760	0	FFFF345D	7FFF9A36
P10	80002537	D9D4FDD8	0	00000000	7FFF9D1A
P10	FFFE08	56753F76	0	00000000	0000289
P11	FFFFF094	96753F76	0	00000000	00000001
P15	FFFFF095	96753F76	0	00000000	00000001

107

TIME	A REGISTER	SIGMA LOGIC SIMULATION, MI, CASE 0008		D REGISTER	CS REGISTER
		B REGISTER BC31			
PPR	8C594B71	00000000	0	00000000	FFFFFFF
P01	00000000	73A6B48E	1	0007B463	00000000
P02	00000000	1CE9AD23	1	0007B463	FFFFFFF
P09	00000000	073A6B48	1	0007B463	00000000
P10	0001ED18	C1CE9AD2	0	00000000	00000000
P10	00007B46	3073A6B4	0	FFF84B9C	00000000
P10	FFFE0C36	8C1CE9AD	0	FFF09739	00002382
P10	8003AFA3	73073A68	0	00000000	7FF80299
P10	FFFEEB4E	ACC1CE9A	1	FFF84B9C	00000140
P10	8001A864	8B3073A6	1	0007B463	7FFC25A6
P10	FFFE8E68	42CC1CE9	1	0007B463	0002D233
P10	FFFEFA0E	20B3073A	0	0007B463	00034B31
P10	FFFE8157	282CC1CE	0	FFF09739	0003FD11
P10	80037ADF	EA0B3073	0	FFF09739	7FF94A88
P10	8002A9DB	AA82CC1C	1	FFF09739	7FF8AD4C
P10	8002A4EB	AAA0B307	0	0007B463	7FF856AC
P10	FFFF5189	2AA82CC1	1	FFF84B9C	00015A95
P10	80019018	3AAA0B30	0	0007B463	7FFCADCE
P10	FFFEA26D	7EAA82CC	0	FFF09739	0002DAR5
P10	80033BDC	5FAAA0B3	0	00000000	7FF94916
P11	FFFC84F3	1FAAA0B3	0	00000000	00000001
P15	FFFC84F3	1FAAA0B3	0	00000000	00000001

108

TIME	A REGISTER	SIGMA LOGIC SIMULATION, DW, CASE 0001		D REGISTER	CS REGISTER
		B REGISTER BC31			
PPR	00000000	00000000	0	00000000	00000000
P01	CF999999	00000000	0	00000000	00000000
P02	9F333332	00000000	0	60000000	00000000
P11	FE666664	00000000	0	60000000	00000000
P12	FE666664	00000000	0	60000000	00000000

TIME	A REGISTER	SIGMA LOGIC SIMULATION, DW , CASE 0002		109
		B REGISTER BC31	D REGISTER	CS REGISTER
PPR	80000000	00000000	0	00000000
P01	60000000	80000000	0	00000000
P02	C0000001	00000000	0	00000000
P11	FFFFFFFFE	00000000	0	00000000
P12	FFFFFFFFE	00000000	0	00000000

TIME	A REGISTER	SIGMA LOGIC SIMULATION, DW , CASE 0003		110
		B REGISTER BC31	D REGISTER	CS REGISTER
PPR	00000001	00000000	0	00000000
P01	3FFFFFFF	00000001	0	00000000
P02	7FFFFFFE	00000002	0	00000001
P11	00000002	00000005	0	00000001
P12	00000002	00000005	0	00000001

TIME	A REGISTER	SIGMA LOGIC SIMULATION, DW , CASE 0004		111
		B REGISTER BC31	D REGISTER	CS REGISTER
PPR	00000000	00000000 0	00000000	00000000
P01	C0000000	00000000 0	00000000	00000000
P02	80000000	00000000 0	7FFFFFFF	00000001
P11	00000000	00000000 0	80000000	00000000
P12	00000000	00000000 0	80000000	00000000

TIME	A REGISTER	SIGMA LOGIC SIMULATION, DW , CASE 0005		112
		B REGISTER BC31	D REGISTER	CS REGISTER
PPR	80000000	00000000 0	00000000	00000000
PC1	40000000	80000000 0	00000000	00000000
P02	80000001	00000000 0	80000000	00000001
P11	00000004	00000001 0	80000000	00000001
P12	00000004	00000001 0	80000000	00000001

TIME	A REGISTER	SIGMA LOGIC SIMULATION, DW, CASE 0006		113
		B REGISTER BC31	D REGISTER	CS REGISTER
PPR	00000001	00000000	0	00000000
PO1	3FFFFFFF	00000001	0	00000000
PO2	7FFFFFFE	00000002	0	00000001
P11	FFFFFFFE	00000004	0	00000000
P11	FFFFFFFA	00000009	0	00000001
P11	FFFFFFF6	00000013	0	00000001
P11	FFFFFFEE	00000027	0	00000001
P11	FFFFFFDE	0000004F	0	00000001
P11	FFFFFFBE	0000009F	0	00000001
P11	FFFFFF7E	0000013F	0	00000001
P11	FFFFFFFE	0000027F	0	00000001
P11	FFFFFFDE	000004FF	0	00000001
P11	FFFFFFBE	000009FF	0	00000001
P11	FFFFFF7E	000013FF	0	00000001
P11	FFFFFFFE	000027FF	0	00000001
P11	FFFFFFDE	00004FFF	0	00000001
P11	FFFFFFBE	00009FFF	0	00000001
P11	FFFFFF7E	000013FF	0	00000001
P11	FFFFFFFE	000027FF	0	00000001
P11	FFFFFFDE	00004FFF	0	00000001
P11	FFFFFFBE	00009FFF	0	00000001
P11	FFFFFF7E	0013FFFF	0	00000001
P11	FFFFFFFE	0027FFFF	0	00000001
P11	FFFFFFDE	004FFFFF	0	00000001
P11	FFFFFFBE	009FFFFF	0	00000001
P11	FFFFFF7E	013FFFFF	0	00000001
P11	FFFFFFFE	027FFFFF	0	00000001
P11	FFFFFFDE	04FFFFF	0	00000001
P11	FFFFFFBE	09FFFFF	0	00000001
P11	FFFFFF7E	13FFFFF	0	00000001
P11	FFFFFFFE	27FFFFF	0	00000001
P11	FFFFFFDE	4FFFFF	0	00000001
P11	FFFFFFBE	9FFFFF	0	00000001

TIME	A REGISTER	SIGMA LOGIC SIMULATION, DW, CASE 0006		114
		B REGISTER BC31	D REGISTER	CS REGISTER
P11	7FFFFFFF	3FFFFFFF	0	00000001
P11	00000000	7FFFFFFF	0	00000001
P13	00000000	7FFFFFFF	0	00000000
P14	7FFFFFFF	7FFFFFFF	0	00000000
P15	7FFFFFFF	7FFFFFFF	0	00000000

TIME	A REGISTER	SIGMA LOGIC SIMULATION, DW, CASE 0007			115
		B REGISTER BC31	D REGISTER	CS REGISTER	
PPR	00000001	00000000	0	00000000	00000000
PO1	3FFFFFFF	00000001	0	00000000	00000000
PO2	7FFFFFFE	00000002	0	80000001	00000000
P11	FFFFFFFE	00000003	0	7FFFFFFE	00000001
P11	FFFFFFFA	00000004	0	80000001	00000000
P11	FFFFFFF6	00000014	0	80000001	00000000
P11	FFFFFFEE	00000028	0	80000001	00000000
P11	FFFFFFDE	00000050	0	80000001	00000000
P11	FFFFFFBE	000000A0	0	80000001	00000000
P11	FFFFFF7E	00000140	0	80000001	00000000
P11	FFFFFFFE	00000280	0	80000001	00000000
P11	FFFFFFDE	00000500	0	80000001	00000000
P11	FFFFFFBE	00000A00	0	80000001	00000000
P11	FFFFFF7E	00001400	0	80000001	00000000
P11	FFFFFFFE	00002800	0	80000001	00000000
P11	FFFFFFDE	00005000	0	80000001	00000000
P11	FFFFFFBE	0000A000	0	80000001	00000000
P11	FFFFFF7E	00014000	0	80000001	00000000
P11	FFFFFFFE	00028000	0	80000001	00000000
P11	FFFFFFDE	00050000	0	80000001	00000000
P11	FFFFFFBE	000A0000	0	80000001	00000000
P11	FFFFFF7E	00140000	0	80000001	00000000
P11	FFFFFFFE	00280000	0	80000001	00000000
P11	FFFFFFDE	00500000	0	80000001	00000000
P11	FFFFFFBE	00A00000	0	80000001	00000000
P11	FFFFFF7E	01400000	0	80000001	00000000
P11	FFFFFFFE	02800000	0	80000001	00000000
P11	FFFFFFDE	05000000	0	80000001	00000000
P11	FFFFFFBE	0A000000	0	80000001	00000000
P11	FFFFFF7E	14000000	0	80000001	00000000
P11	FFFFFFFE	28000000	0	80000001	00000000
P11	FFFFFFDE	50000000	0	80000001	00000000
P11	FFFFFFBE	A0000000	0	80000001	00000000

TIME	A REGISTER	SIGMA LOGIC SIMULATION, DW, CASE 0007			116
		B REGISTER BC31	D REGISTER	CS REGISTER	
P11	7FFFFFFF	40000000	0	80000001	00000000
P11	00000000	80000000	0	80000001	00000000
P13	00000000	80000000	0	80000001	00000000
P14	80000000	80000000	0	00000000	00000001
P15	80000001	80000000	0	00000000	00000000

TIME	A REGISTER	SIGMA LOGIC SIMULATION, DW , CASE 0008		117
		B REGISTER BC31	D REGISTER	CS REGISTER
PPR	FFFFFFFF	00000000	0	00000000
P01	E0000000	FFFFFFFF	0	00000000
P02	C0000001	FFFFFFFE	0	00000000
P11	80000001	FFFFFFFD	0	00000001
P11	00000005	FFFFFFFB	0	00000001
P11	00000000	FFFFFFF6	0	00000000
P11	00000019	FFFFFFEC	0	00000000
P11	00000031	FFFFFFD8	0	00000000
P11	00000041	FFFFFFE0	0	00000000
P11	000000C1	FFFFFFF0	0	00000000
P11	00000181	FFFFFFE0	0	00000000
P11	00000301	FFFFFFD8	0	00000000
P11	00000401	FFFFFF80	0	00000000
P11	00000C01	FFFFFF60	0	00000000
P11	00001801	FFFFFFC0	0	00000000
P11	00003001	FFFFFF80	0	00000000
P11	00004001	FFFFFF80	0	00000000
P11	00008001	FFFFFF80	0	00000000
P11	0000C001	FFFFFF60	0	00000000
P11	00018001	FFFE0000	0	00000000
P11	00030001	FFFD8000	0	00000000
P11	00040001	FFFB0000	0	00000000
P11	000C0001	FFF60000	0	00000000
P11	00180001	FFEC0000	0	00000000
P11	00300001	FFD80000	0	00000000
P11	00400001	FFB00000	0	00000000
P11	00C00001	FF600000	0	00000000
P11	01800001	FE000000	0	00000000
P11	03000001	FD800000	0	00000000
P11	04000001	FB000000	0	00000000
P11	0C000001	F6000000	0	00000000
P11	18000001	EC000000	0	00000000
P11	30000001	D8000000	0	00000000
P11	40000001	B0000000	0	00000000

TIME	A REGISTER	SIGMA LOGIC SIMULATION, DW , CASE 0008		118
		B REGISTER BC31	D REGISTER	CS REGISTER
P11	C0000001	60000000	0	00000000
P11	40000000	C0000001	0	00000001
P13	C0000001	C0000001	0	00000000
P14	C0000001	C0000001	0	00000001
P15	C0000002	C0000001	0	00000000

TIME	A REGISTER	SIGMA LOGIC SIMULATION, DW, CASE 0009		119
		B REGISTER BC31	D REGISTER	CS REGISTER
PPR	FFFFFFFF	00000000	0	00000000
P01	C0000000	FFFFFFFF	0	00000000
P02	80000001	FFFFFFFE	0	00000001
P11	00000001	FFFFFFFC	0	00000000
P11	00000003	FFFFFFF9	0	00000001
P11	00000009	FFFFFFF3	0	00000001
P11	00000011	FFFFFFE7	0	00000001
P11	00000021	FFFFFFCF	0	00000001
P11	00000041	FFFFFF9F	0	00000001
P11	00000081	FFFFFF3F	0	00000001
P11	00000101	FFFFFF7F	0	00000001
P11	00000201	FFFFFFCF	0	00000001
P11	00000401	FFFFFF9F	0	00000001
P11	00000801	FFFFFF3F	0	00000001
P11	00001001	FFFFFF7F	0	00000001
P11	00002001	FFFFFFCF	0	00000001
P11	00004001	FFFFFF9F	0	00000001
P11	00008001	FFFFFF3F	0	00000001
P11	00010001	FFFFFF7F	0	00000001
P11	00020001	FFFFFFCF	0	00000001
P11	00040001	FFFFFF9F	0	00000001
P11	00080001	FFFFFF3F	0	00000001
P11	00100001	FFFFFF7F	0	00000001
P11	00200001	FFFFFFCF	0	00000001
P11	00400001	FFFFFF9F	0	00000001
P11	00800001	FFFFFF3F	0	00000001
P11	01000001	FFFFFF7F	0	00000001
P11	02000001	FFFFFFCF	0	00000001
P11	04000001	FFFFFF9F	0	00000001
P11	08000001	FFFFFF3F	0	00000001
P11	10000001	FFFFFF7F	0	00000001
P11	20000001	FFFFFFCF	0	00000001
P11	40000001	FFFFFF9F	0	00000001

TIME	A REGISTER	SIGMA LOGIC SIMULATION, DW, CASE 0009		120
		B REGISTER BC31	D REGISTER	CS REGISTER
P11	80000001	3FFFFFFF	0	00000001
P11	00000000	7FFFFFFE	0	00000000
P13	00000000	7FFFFFFE	0	00000000
P14	7FFFFFFE	7FFFFFFE	0	00000000
P15	7FFFFFFF	7FFFFFFE	0	00000000

TIME	A REGISTER	SIGMA LOGIC SIMULATION, DW , CASE 0011		123
		B REGISTER BC31	D REGISTER	CS REGISTER
PPR	00000020	00000000	0	00000000
P01	00000000	00000020	0	00000000
P02	00000000	00000040	0	00000001
P11	FFFFFFFF8	00000080	0	00000000
P11	FFFFFFFF8	00000100	0	00000000
P11	FFFFFFFF8	00000200	0	00000000
P11	FFFFFFFF8	00000400	0	00000000
P11	FFFFFFFF8	00000800	0	00000000
P11	FFFFFFFF8	00001000	0	00000000
P11	FFFFFFFF8	00002000	0	00000000
P11	FFFFFFFF8	00004000	0	00000000
P11	FFFFFFFF8	00008000	0	00000000
P11	FFFFFFFF8	00010000	0	00000000
P11	FFFFFFFF8	00020000	0	00000000
P11	FFFFFFFF8	00040000	0	00000000
P11	FFFFFFFF8	00080000	0	00000000
P11	FFFFFFFF8	00100000	0	00000000
P11	FFFFFFFF8	00200000	0	00000000
P11	FFFFFFFF8	00400000	0	00000000
P11	FFFFFFFF8	00800000	0	00000000
P11	FFFFFFFF8	01000000	0	00000000
P11	FFFFFFFF8	02000000	0	00000000
P11	FFFFFFFF8	04000000	0	00000000
P11	FFFFFFFF8	08000000	0	00000000
P11	FFFFFFFF8	10000000	0	00000000
P11	FFFFFFFF8	20000000	0	00000000
P11	FFFFFFFF8	40000000	0	00000000
P11	FFFFFFFF8	80000000	0	00000000
P11	FFFFFFFF9	00000000	0	00000000
P11	FFFFFFFFA	00000000	0	00000000
P11	FFFFFFFFC	00000000	0	00000000
P11	00000000	00000001	0	00000001
P11	FFFFFFFF8	00000002	0	00000000

TIME	A REGISTER	SIGMA LOGIC SIMULATION, DW , CASE 0011		124
		B REGISTER BC31	D REGISTER	CS REGISTER
P11	FFFFFFFF8	00000004	0	00000000
P11	FFFFFFFFC	00000008	0	00000000
P13	00000000	00000008	0	00000000
P14	00000008	00000008	0	00000000
P15	00000008	00000008	0	00000000

TIME	A REGISTER	SIGMA LOGIC SIMULATION, DW , CASE 0012		125	
		B REGISTER BC31	D REGISTER	CS REGISTER	
PPR	FFFFFFE0	00000000	0	00000000	00000000
POI	FFFFFFF7	FFFFFFE0	0	00000000	00000000
POB	FFFFFFF7	FFFFFFC0	0	00000004	00000000
P11	00000007	FFFFFFF8	0	FFFFFFF8	00000001
P11	00000007	FFFFFFF3	0	FFFFFFF8	00000001
P11	00000007	FFFFFFE0	0	FFFFFFF8	00000001
P11	00000007	FFFFFFC0	0	FFFFFFF8	00000001
P11	00000007	FFFFFF81	0	FFFFFFF8	00000001
P11	00000007	FFFFFF03	0	FFFFFFF8	00000001
P11	00000007	FFFFFF07	0	FFFFFFF8	00000001
P11	00000007	FFFFFFC0	0	FFFFFFF8	00000001
P11	00000007	FFFF81FF	0	FFFFFFF8	00000001
P11	00000007	FFFF03FF	0	FFFFFFF8	00000001
P11	00000007	FFFF07FF	0	FFFFFFF8	00000001
P11	00000007	FFFFC0FF	0	FFFFFFF8	00000001
P11	00000007	FFFF81FF	0	FFFFFFF8	00000001
P11	00000007	FFFF03FF	0	FFFFFFF8	00000001
P11	00000007	FFFF07FF	0	FFFFFFF8	00000001
P11	00000007	FFFFC0FF	0	FFFFFFF8	00000001
P11	00000007	FFF81FFF	0	FFFFFFF8	00000001
P11	00000007	FFF03FFF	0	FFFFFFF8	00000001
P11	00000007	FFF07FFF	0	FFFFFFF8	00000001
P11	00000007	FFC0FFF	0	FFFFFFF8	00000001
P11	00000007	FF81FFF	0	FFFFFFF8	00000001
P11	00000007	FF03FFF	0	FFFFFFF8	00000001
P11	00000007	FE07FFF	0	FFFFFFF8	00000001
P11	00000007	FC0FFF	0	FFFFFFF8	00000001
P11	00000007	F81FFFF	0	FFFFFFF8	00000001
P11	00000007	F03FFF	0	FFFFFFF8	00000001
P11	00000007	E07FFF	0	FFFFFFF8	00000001
P11	00000007	C0FFF	0	FFFFFFF8	00000001
P11	00000007	81FFF	0	FFFFFFF8	00000001
P11	00000007	03FFF	0	FFFFFFF8	00000001
P11	00000006	07FFF	0	FFFFFFF8	00000001
P11	00000004	0FFFF	0	FFFFFFF8	00000001
P11	00000000	1FFFF	0	FFFFFFF8	00000001
P11	FFFFFFF8	3FFFF	0	00000004	00000000

TIME	A REGISTER	SIGMA LOGIC SIMULATION, DW , CASE 0012		126	
		B REGISTER BC31	D REGISTER	CS REGISTER	
P11	FFFFFFF8	7FFFFFFC	0	00000004	00000000
P11	FFFFFFF8	FFFFFFF8	0	00000004	00000000
P13	00000000	FFFFFFF8	0	00000004	00000000
P14	FFFFFFF8	FFFFFFF8	0	00000000	00000000
P15	FFFFFFF8	FFFFFFF8	0	00000000	00000000

TIME	A REGISTER	SIGMA LOGIC SIMULATION, DW , CASE 0013		D REGISTER	127
		B REGISTER BC31			CS REGISTER
PPR	FFFFFFE1	00000000	0	00000000	00000000
PO1	FFFFFFF7	FFFFFFE1	0	00000000	00000000
PO2	FFFFFFF7	FFFFFFC2	0	00000004	00000001
P11	00000009	FFFFFF84	0	FFFFFFFB	00000000
P11	00000009	FFFFFFF0	0	FFFFFFFB	00000000
P11	00000009	FFFFFFE1	0	FFFFFFFB	00000000
P11	00000009	FFFFFFC2	0	FFFFFFFB	00000000
P11	00000009	FFFFFF84	0	FFFFFFFB	00000000
P11	00000009	FFFFFF08	0	FFFFFFFB	00000000
P11	00000009	FFFFE100	0	FFFFFFFB	00000000
P11	00000009	FFFFC200	0	FFFFFFFB	00000000
P11	00000009	FFFF8400	0	FFFFFFFB	00000000
P11	00000009	FFFF0800	0	FFFFFFFB	00000000
P11	00000009	FFFE1000	0	FFFFFFFB	00000000
P11	00000009	FFFC2000	0	FFFFFFFB	00000000
P11	00000009	FF840000	0	FFFFFFFB	00000000
P11	00000009	FF080000	0	FFFFFFFB	00000000
P11	00000009	FE100000	0	FFFFFFFB	00000000
P11	00000009	FC200000	0	FFFFFFFB	00000000
P11	00000009	F8400000	0	FFFFFFFB	00000000
P11	00000009	F0800000	0	FFFFFFFB	00000000
P11	00000009	E1000000	0	FFFFFFFB	00000000
P11	00000009	C2000000	0	FFFFFFFB	00000000
P11	00000009	84000000	0	FFFFFFFB	00000000
P11	00000009	08000000	0	FFFFFFFB	00000000
P11	00000008	10000000	0	FFFFFFFB	00000000
P11	00000006	20000000	0	FFFFFFFB	00000000
P11	00000002	40000000	0	FFFFFFFB	00000000
P11	FFFFFFFA	80000001	0	00000004	00000001

TIME	A REGISTER	SIGMA LOGIC SIMULATION, DW , CASE 0013		D REGISTER	128
		B REGISTER BC31			CS REGISTER
P11	FFFFFFF7	00000003	0	00000004	00000001
P11	00000004	00000006	0	FFFFFFFB	00000000
P13	FFFFFFF7	00000006	0	FFFFFFFB	00000000
P14	00000006	00000006	0	00000000	00000000
P15	00000006	00000006	0	00000000	00000000

TIME	A REGISTER	SIGMA LOGIC SIMULATION, DW, CASE 0014		129
		B REGISTER BC31	D REGISTER	CS REGISTER
PPR	00000020	00000000	0	00000000
P01	00000000	00000020	0	00000000
P02	00000000	00000040	0	00000000
P11	FFFFFFF8	00000081	0	00000001
P11	FFFFFFF8	00000103	0	00000001
P11	FFFFFFF8	00000207	0	00000001
P11	FFFFFFF8	0000040F	0	00000001
P11	FFFFFFF8	0000081F	0	00000001
P11	FFFFFFF8	0000103F	0	00000001
P11	FFFFFFF8	0000207F	0	00000001
P11	FFFFFFF8	000040FF	0	00000001
P11	FFFFFFF8	000081FF	0	00000001
P11	FFFFFFF8	000103FF	0	00000001
P11	FFFFFFF8	000207FF	0	00000001
P11	FFFFFFF8	00040FFF	0	00000001
P11	FFFFFFF8	00081FFF	0	00000001
P11	FFFFFFF8	00103FFF	0	00000001
P11	FFFFFFF8	00207FFF	0	00000001
P11	FFFFFFF8	0040FFFF	0	00000001
P11	FFFFFFF8	0081FFFF	0	00000001
P11	FFFFFFF8	0103FFFF	0	00000001
P11	FFFFFFF8	0207FFFF	0	00000001
P11	FFFFFFF8	040FFFFF	0	00000001
P11	FFFFFFF8	081FFFFF	0	00000001
P11	FFFFFFF8	103FFFFF	0	00000001
P11	FFFFFFF8	207FFFFF	0	00000001
P11	FFFFFFF8	40FFFFF	0	00000001
P11	FFFFFFF8	81FFFFF	0	00000001
P11	FFFFFFF9	03FFFFF	0	00000001
P11	FFFFFFFA	07FFFFF	0	00000001
P11	FFFFFFFC	0FFFFFFF	0	00000001
P11	00000000	1FFFFFFE	0	00000000
P11	FFFFFFF8	3FFFFFFD	0	00000001

TIME	A REGISTER	SIGMA LOGIC SIMULATION, DW, CASE 0014		130
		B REGISTER BC31	D REGISTER	CS REGISTER
P11	FFFFFFF8	7FFFFFFB	0	00000001
P11	FFFFFFFC	FFFFFFF7	0	00000001
P13	00000000	FFFFFFF7	0	00000000
P14	FFFFFFF7	FFFFFFF7	0	00000001
P15	FFFFFFF8	FFFFFFF7	0	00000000

TIME	A REGISTER	SIGMA LOGIC SIMULATION, DW , CASE 0015		131
		B REGISTER BC31	D REGISTER	CS REGISTER
PPR	FFFFFFE1	00000000	0	00000000
P01	FFFFFFF7	FFFFFFE1	0	00000000
P02	FFFFFFF7	FFFFFFC2	0	00000004
P11	00000007	FFFFFF85	0	FFFFFFFB
P11	00000007	FFFFFF0B	0	FFFFFFFB
P11	00000007	FFFFFFE17	0	FFFFFFFB
P11	00000007	FFFFFFC2F	0	FFFFFFFB
P11	00000007	FFFFFF85F	0	FFFFFFFB
P11	00000007	FFFFFF0BF	0	FFFFFFFB
P11	00000007	FFFE17F	0	FFFFFFFB
P11	00000007	FFFC2FF	0	FFFFFFFB
P11	00000007	FFFF85FF	0	FFFFFFFB
P11	00000007	FFFF0BFF	0	FFFFFFFB
P11	00000007	FFFE17FF	0	FFFFFFFB
P11	00000007	FFFC2FFF	0	FFFFFFFB
P11	00000007	FFF85FFF	0	FFFFFFFB
P11	00000007	FFF0BFFF	0	FFFFFFFB
P11	00000007	FFE17FFF	0	FFFFFFFB
P11	00000007	FFC2FFFF	0	FFFFFFFB
P11	00000007	FF85FFFF	0	FFFFFFFB
P11	00000007	FF0BFFFF	0	FFFFFFFB
P11	00000007	FE17FFFF	0	FFFFFFFB
P11	00000007	FC2FFFFF	0	FFFFFFFB
P11	00000007	F85FFFFF	0	FFFFFFFB
P11	00000007	F0BFFFFF	0	FFFFFFFB
P11	00000007	E17FFFFF	0	FFFFFFFB
P11	00000007	C2FFFFF	0	FFFFFFFB
P11	00000007	85FFFFF	0	FFFFFFFB
P11	00000007	0BFFFFF	0	FFFFFFFB
P11	00000006	17FFFFF	0	FFFFFFFB
P11	00000004	2FFFFF	0	FFFFFFFB
P11	00000000	5FFFFF	0	FFFFFFFB
P11	FFFFFFF8	BFFFFFE	0	00000004

TIME	A REGISTER	SIGMA LOGIC SIMULATION, DW , CASE 0015		132
		B REGISTER BC31	D REGISTER	CS REGISTER
P11	FFFFFFF9	7FFFFFFC	0	00000004
P11	FFFFFFFD	FFFFFFF8	0	00000004
P13	FFFFFFFD	FFFFFFF8	0	00000004
P14	FFFFFFF8	FFFFFFF8	0	00000000
P15	FFFFFFF9	FFFFFFF8	0	00000000

TIME	A REGISTER	SIGMA LOGIC SIMULATION, DW , CASE 0016		133
		B REGISTER BC31	D REGISTER	CS REGISTER
PPR	FFFFFFE0	00000000	0	00000000
PO1	FFFFFFF7	FFFFFFE0	0	00000000
PO2	FFFFFFF7	FFFFFFC0	0	00000001
P11	00000007	FFFFFF80	0	00000000
P11	00000007	FFFFFF00	0	00000000
P11	00000007	FFFFFFE0	0	00000000
P11	00000007	FFFFFFC0	0	00000000
P11	00000007	FFFFF800	0	00000000
P11	00000007	FFFFF000	0	00000000
P11	00000007	FFFFE000	0	00000000
P11	00000007	FFFFC000	0	00000000
P11	00000007	FFFF8000	0	00000000
P11	00000007	FFFF0000	0	00000000
P11	00000007	FFFF0000	0	00000000
P11	00000007	FFFC0000	0	00000000
P11	00000007	FFF80000	0	00000000
P11	00000007	FFF00000	0	00000000
P11	00000007	FFE00000	0	00000000
P11	00000007	FFC00000	0	00000000
P11	00000007	FF800000	0	00000000
P11	00000007	FF000000	0	00000000
P11	00000007	FE000000	0	00000000
P11	00000007	FC000000	0	00000000
P11	00000007	F8000000	0	00000000
P11	00000007	F0000000	0	00000000
P11	00000007	E0000000	0	00000000
P11	00000007	C0000000	0	00000000
P11	00000007	80000000	0	00000000
P11	00000007	00000000	0	00000000
P11	00000006	00000000	0	00000000
P11	00000004	00000000	0	00000000
P11	00000000	00000000	0	00000000
P11	FFFFFFF8	00000001	0	00000001

TIME	A REGISTER	SIGMA LOGIC SIMULATION, DW , CASE 0016		134
		B REGISTER BC31	D REGISTER	CS REGISTER
P11	FFFFFFF8	00000003	0	00000001
P11	FFFFFFFC	00000007	0	00000001
P13	00000000	00000007	0	00000000
P14	00000007	00000007	0	00000000
P15	00000008	00000007	0	00000000

TIME	A REGISTER	SIGMA LOGIC SIMULATION, DW, CASE 0017		CS REGISTER
		B REGISTER BC31	D REGISTER	
PPR	0000001F	00000000	0	00000000
P01	00000000	0000001F	0	00000000
P02	00000000	0000003E	0	00000001
P11	FFFFFFF8	0000007C	0	00000000
P11	FFFFFFF8	000000F8	0	00000000
P11	FFFFFFF8	000001F0	0	00000000
P11	FFFFFFF8	000003E0	0	00000000
P11	FFFFFFF8	000007C0	0	00000000
P11	FFFFFFF8	00000F80	0	00000000
P11	FFFFFFF8	00001F00	0	00000000
P11	FFFFFFF8	00003E00	0	00000000
P11	FFFFFFF8	00007C00	0	00000000
P11	FFFFFFF8	0000F800	0	00000000
P11	FFFFFFF8	0001F000	0	00000000
P11	FFFFFFF8	0003E000	0	00000000
P11	FFFFFFF8	0007C000	0	00000000
P11	FFFFFFF8	000F8000	0	00000000
P11	FFFFFFF8	001F0000	0	00000000
P11	FFFFFFF8	003E0000	0	00000000
P11	FFFFFFF8	007C0000	0	00000000
P11	FFFFFFF8	00F80000	0	00000000
P11	FFFFFFF8	01F00000	0	00000000
P11	FFFFFFF8	03E00000	0	00000000
P11	FFFFFFF8	07C00000	0	00000000
P11	FFFFFFF8	0F800000	0	00000000
P11	FFFFFFF8	1F000000	0	00000000
P11	FFFFFFF8	3E000000	0	00000000
P11	FFFFFFF8	7C000000	0	00000000
P11	FFFFFFF8	F8000000	0	00000000
P11	FFFFFFF9	F0000000	0	00000000
P11	FFFFFFF8	E0000000	0	00000000
P11	FFFFFFF8	C0000000	0	00000000
P11	00000007	80000001	0	00000001

TIME	A REGISTER	SIGMA LOGIC SIMULATION, DW, CASE 0017		CS REGISTER
		B REGISTER BC31	D REGISTER	
P11	00000007	00000003	0	00000001
P11	00000003	00000007	0	00000001
P13	00000003	00000007	0	00000000
P14	00000007	00000007	0	00000000
P15	00000007	00000007	0	00000000

TIME	A REGISTER	SIGMA LOGIC SIMULATION, DW , CASE 0018		D REGISTER	137
		B REGISTER BC31			CS REGISTER
PPR	55555555	00000000	0	00000000	00000000
PO1	15555555	55555555	0	00000000	00000000
PO2	2AAAAAAA	AAAAAAA	0	80000000	00000001
P11	55555557	55555554	0	7FFFFFFF	00000000
P11	AAAAAAC	AAAAAAB	0	7FFFFFFF	00000000
P11	55555557	55555551	0	80000000	00000001
P11	AAAAAAB0	AAAAAAA2	0	7FFFFFFF	00000000
P11	5555555F	55555545	0	80000000	00000001
P11	AAAAAAC0	AAAAAAB	0	7FFFFFFF	00000000
P11	5555557F	55555515	0	80000000	00000001
P11	AAAAAAB00	AAAAAAB2A	0	7FFFFFFF	00000000
P11	5555555FF	555555455	0	80000000	00000001
P11	AAAAAC00	AAAAAAB	0	7FFFFFFF	00000000
P11	555557FF	55555155	0	80000000	00000001
P11	AAAAA000	AAAAA2AA	0	7FFFFFFF	00000000
P11	55555FFF	55554555	0	80000000	00000001
P11	AAAAC000	AAAAAAB	0	7FFFFFFF	00000000
P11	55557FFF	55551555	0	80000000	00000001
P11	AAAB0000	AAAA2AAA	0	7FFFFFFF	00000000
P11	5555FFFF	55545555	0	80000000	00000001
P11	AAAC0000	AAAAAAB	0	7FFFFFFF	00000000
P11	5557FFF	55515555	0	80000000	00000001
P11	AAB00000	AAA2AAA	0	7FFFFFFF	00000000
P11	555FFFF	55455555	0	80000000	00000001
P11	AAC00000	AAAAAAB	0	7FFFFFFF	00000000
P11	557FFFF	55155555	0	80000000	00000001
P11	AB000000	AA2AAAA	0	7FFFFFFF	00000000
P11	55FFFF	54555555	0	80000000	00000001
P11	AC000000	AAAAAAB	0	7FFFFFFF	00000000
P11	57FFFF	51555555	0	80000000	00000001
P11	B0000000	A2AAAA	0	7FFFFFFF	00000000
P11	5FFFF	45555555	0	80000000	00000001
P11	C0000000	8AAAAAA	0	7FFFFFFF	00000000

TIME	A REGISTER	SIGMA LOGIC SIMULATION, DW , CASE 0018		D REGISTER	138
		B REGISTER BC31			CS REGISTER
P11	7FFFFFFF	15555555	0	80000000	00000001
P11	00000000	2AAAAAAB	0	80000000	00000001
P13	00000000	2AAAAAAB	0	80000000	00000000
P14	2AAAAAAB	2AAAAAAB	0	00000000	00000000
P15	2AAAAAAB	2AAAAAAB	0	00000000	00000000

TIME	A REGISTER	SIGMA LOGIC SIMULATION, DW , CASE 0019			139
		B REGISTER BC31	C	D REGISTER	CS REGISTER
PPR	11111111	00000000	0	00000000	00000000
P01	31C3C1F0	11111111	0	00000000	00000000
P02	638783E0	22222222	0	86666666	00000001
P11	03D8D48E	44444444	0	79999999	00000000
P11	9AEADC4E	88888889	0	86666666	00000001
P11	42A2856B	11111113	0	86666666	00000001
P11	921107A4	22222226	0	79999999	00000000
P11	1756E27A	4444444D	0	86666666	00000001
P11	3B7A91C2	8888889A	0	79999999	00000000
P11	6A2856B7	11111134	0	79999999	00000000
P11	C783E0A0	22222268	0	79999999	00000000
P11	823AF472	444444D1	0	86666666	00000001
P11	1142B5B2	888889A3	0	86666666	00000001
P11	2F523833	11111346	0	79999999	00000000
P11	51D7A398	2222268C	0	79999999	00000000
P11	96E27A62	44444D18	0	79999999	00000000
P11	20F827F6	88889A31	0	86666666	00000001
P11	4EBD1CBB	11113462	0	79999999	00000000
P11	90AD6CA8	222268C4	0	79999999	00000000
P11	148E0C82	4444D189	0	86666666	00000001
P11	35E8E5D2	8889A312	0	79999999	00000000
P11	5F04FED7	11134624	0	79999999	00000000
P11	813D30E0	22268C48	0	79999999	00000000
P11	55AD94F2	444D1891	0	86666666	00000001
P11	8827F6B2	889A3122	0	79999999	00000000
P11	63832097	11346245	0	86666666	00000001
P11	D3D30DFC	2268C48A	0	79999999	00000000
P11	9AD94F2A	44D18915	0	86666666	00000001
P11	427F6B22	89A3122B	0	86666666	00000001
P11	91CBA313	13462456	0	79999999	00000000
P11	16CA7958	268C48AD	0	86666666	00000001
P11	3A618F7E	4D18915A	0	79999999	00000000
P11	67F6B22E	9A3122B4	0	79999999	00000000

TIME	A REGISTER	SIGMA LOGIC SIMULATION, DW , CASE 0019			140
		B REGISTER BC31	C	D REGISTER	CS REGISTER
P11	C320978F	34624568	0	79999999	00000000
P11	3CBA3128	68C48AD1	0	86666666	00000001
P13	3CBA3128	68C48AD1	0	86666666	00000000
P14	68C48AD1	68C48AD1	0	00000000	00000000
P15	68C48AD1	68C48AD1	0	00000000	00000000

TIME	A REGISTER	SIGMA LOGIC SIMULATION, DW , CASE 0020		141
		B REGISTER BC31	D REGISTER	CS REGISTER
PPR	AAAAAAAA	00000000	0	00000000
P01	FC7CF1CC	AAAAAAAA	0	00000000
P02	F8F9E399	55555554	0	00000000
P11	D1F3C732	AAAAAAAA9	0	00000001
P11	C3E78E65	55555553	0	00000001
P11	A7CF1CCA	AAAAAAAA7	0	00000001
P11	6F9E3995	5555554F	0	00000001
P11	FF3C732A	AAAAAAAA9E	0	00000000
P11	DE78E655	5555553D	0	00000001
P11	DCF3CCAA	AAAAAAAA7B	0	00000001
P11	D9E39955	555554F7	0	00000001
P11	D3C732AA	AAAAA9EF	0	00000001
P11	C78E6555	55553DF	0	00000001
P11	AF1CCAAA	AAAAA7BF	0	00000001
P11	7E399555	5554F7F	0	00000001
P11	1C732AAA	AAAA9EFF	0	00000001
P11	58E65555	55553DFE	0	00000000
P11	91CCAAAA	AAAA7BFC	0	00000000
P11	03995555	5554F7F9	0	00000001
P11	2732AAAA	AAA9EFF2	0	00000000
P11	2E655555	5553DFE4	0	00000000
P11	3CCAAAAA	AA7BFC8	0	00000000
P11	59955555	554F7F90	0	00000000
P11	932AAAAA	AA9EFF20	0	00000000
P11	06555555	553DFE41	0	00000001
P11	2CAAAAAA	AA7BFC82	0	00000000
P11	39555555	54F7F904	0	00000000
P11	52AAAAAA	A9EFF208	0	00000000
P11	85555555	53DFE410	0	00000000
P11	EAAAAAAA	A7BFC820	0	00000000
P11	B5555555	4F7F9041	0	00000001
P11	8AAAAAAA	9EFF2083	0	00000001
P11	35555555	3DFE4107	0	00000001

TIME	A REGISTER	SIGMA LOGIC SIMULATION, DW , CASE 0020		142
		B REGISTER BC31	D REGISTER	CS REGISTER
P11	8AAAAAAA	7BFC820E	0	00000000
P11	FAAAAAAA	F7F9041C	0	00000000
P13	FAAAAAAA	F7F9041C	0	00000000
P14	F7F9041C	F7F9041C	0	00000001
P15	F7F9041D	F7F9041C	0	00000000

TIME	A REGISTER	SIGMA LOGIC SIMULATION, DW, CASE 0021		143
		B REGISTER BC31	D REGISTER	CS REGISTER
PPR	59C61C18	00000000	0	00000000
PO1	31111111	59C61C18	0	00000000
PO2	62222222	B38C3830	0	00000000
P11	CCCCCCCD	67187061	0	00000001
P11	91111112	CE30E0C2	0	00000000
P11	2AAAAAAD	9C61C184	0	00000000
P11	5DDDDDE3	38C38309	0	00000001
P11	B333333E	71870613	0	00000001
P11	5DDDDDF4	E30E0C26	0	00000000
P11	C4444471	C61C184D	0	00000001
P11	8000005B	8C38309A	0	00000000
P11	0888893F	18706134	0	00000000
P11	19999B06	30E0C269	0	00000001
P11	2AAAA084	61C184D3	0	00000001
P11	4CCCD280	C38309A7	0	00000001
P11	91111C79	8706134F	0	00000001
P11	1999B068	0E0C269E	0	00000000
P11	3BBBE95E	1C184D3D	0	00000001
P11	6EEF4A34	38309A7B	0	00000001
P11	D5560BE0	706134F7	0	00000001
P11	A2238F38	E0C269EE	0	00000000
P11	4CCFA6F9	C184D3DC	0	00000000
P11	A227067B	83C9A789	0	00000001
P11	3BC7246F	06134F72	0	00000000
P11	8016D166	0C269EE5	0	00000001
P11	F7A51A44	184D3DCB	0	00000001
P11	E6C1AC00	309A7B96	0	00000000
P11	D60BE088	6134F72C	0	00000000
P11	B4404998	C269EE58	0	00000000
P11	71C918B9	84D3DCB0	0	00000000
P11	EC1ABFFB	09A7B961	0	00000001
P11	CFACF76E	134F72C2	0	00000000
P11	A7E27764	269EE584	0	00000000

TIME	A REGISTER	SIGMA LOGIC SIMULATION, DW, CASE 0021		144
		B REGISTER BC31	D REGISTER	CS REGISTER
P11	584D7750	4D3DCB08	0	00000000
P11	DC918B94	9A7B9611	0	00000001
P13	584D7750	9A7B9611	0	00000000
P14	9A7B9611	9A7B9611	0	00000000
P15	9A7B9612	9A7B9611	0	00000000

TIME	A REGISTER	SIGMA LOGIC SIMULATION, DW , CASE 0022		145
		B REGISTER BC31	D REGISTER	CS REGISTER
PPR	66666666	00000000	0	00000000
PO1	D6666666	66666666	0	00000000
PO2	ACCCCCC	CCCCCCC	0	7EEEEEE
P11	87777775	99999999	0	81111111
P11	B111110F	3333332	0	7EEEEEE
P11	5FFFFFFA	66666665	0	81111111
P11	C2222218	CCCCCCA	0	7EEEEEE
P11	8222220D	99999995	0	81111111
P11	0666663F	3333332B	0	81111111
P11	0EEEEEA2	66666656	0	7EEEEEE
P11	1BBBBB20	CCCCCAC	0	7EEEEEE
P11	3555541D	99999958	0	7EEEEEE
P11	68888617	333332B0	0	7EEEEEE
P11	CEEEEA0A	66666560	0	7EEEEEE
P11	9BBBB1F0	CCCCCAC1	0	81111111
P11	39998605	99999563	0	81111111
P11	75552E2F	33332B06	0	7EEEEEE
P11	E8883A3A	6666560C	0	7EEEEEE
P11	CEEE5250	CCCCAC19	0	81111111
P11	9FFEC6C5	99995833	0	81111111
P11	421FAF8F	3332B067	0	81111111
P11	86618182	666560CE	0	7EEEEEE
P11	0AA0E0E0	CCCAC19D	0	81111111
P11	1763E3E5	9995833A	0	7EEEEEE
P11	2CA5A5A7	332B0674	0	7EEEEEE
P11	5729292A	66560CE8	0	7EEEEEE
P11	AC303030	CCAC19D0	0	7EEEEEE
P11	863E3E3D	995833A1	0	81111111
P11	AE9E9E9F	32B06742	0	7EEEEEE
P11	5B1B1B1A	6560CE85	0	81111111
P11	88585858	CAC19D0A	0	7EEEEEE
P11	6E8E8E8D	95833A15	0	81111111
P11	DF3F3F3F	2B06742A	0	7EEEEEE

TIME	A REGISTER	SIGMA LOGIC SIMULATION, DW , CASE 0022		146
		B REGISTER BC31	D REGISTER	CS REGISTER
P11	BC5C5C5A	56CCE855	0	81111111
P11	3D6D6D6C	AC19D0AB	0	81111111
P13	BE7E7E7E	AC19D0AB	0	81111111
P14	4C19D0AB	AC19D0AB	0	00000000
P15	AC19D0AC	AC19D0AB	0	00000000

TIME	A REGISTER	SIGMA LOGIC SIMULATION, DW , CASE 0023		147
		B REGISTER BC31	D REGISTER	CS REGISTER
PPR	3F01FC03	00000000	0	00000000
PO1	F1C3C731	3F01FC03	0	00000000
PO2	E3878E62	7E03F806	0	78888888
P11	8E86943C	FC07F00C	0	84444444
P11	8595B101	F80FE018	0	84444444
P11	13B3EA8B	FO1FC030	0	84444444
P11	2FF05D9F	EO3F8061	0	78888888
P11	575832B7	CO7F00C3	0	78888888
P11	A627DCE7	80FE0187	0	78888888
P11	43C73147	01FC030E	0	84444444
P11	9016EB16	03F8061D	0	78888888
P11	17A54DA4	07F00C3A	0	84444444
P11	37D323D0	0FE01875	0	78888888
P11	6710BF18	1FC030EB	0	78888888
P11	C5B2F5A8	3F8061D7	0	78888888
P11	82DD62C8	7F00C3AE	0	84444444
P11	0E434E18	FE01875C	0	84444444
P11	250F24B9	FC030EB9	0	78888888
P11	4195C0EB	F8061D73	0	78888888
P11	7AA2F94F	FO0C3AE7	0	78888888
P11	ECBD6A17	EO1875CF	0	78888888
P11	D0F24BA7	CO30EB9E	0	84444444
P11	AA6D1FD7	8061D73C	0	84444444
P11	5D62C837	00C3AE78	0	84444444
P11	C34E18F6	01875CF1	0	7E118888
P11	7E13A964	03CEB9E2	0	84444444
P11	04AFDB50	061D73C4	0	84444444
P11	11E83F28	0C3AE789	0	78888888
P11	1B47F5C8	1875CF13	0	78888888
P11	2E076308	30EB9E27	0	78888888
P11	53863D88	61D73C4F	0	78888888
P11	9EB3F258	C3AE789F	0	78888888
P11	347F5C89	875CF13E	0	84444444

TIME	A REGISTER	SIGMA LOGIC SIMULATION, DW , CASE 0023		148
		B REGISTER BC31	D REGISTER	CS REGISTER
P11	7187419B	0EB9E27D	0	78888888
P11	ED42FD57	1D73C4FB	0	78888888
P13	ED42FD57	1D73C4FB	0	78888888
P14	1D73C4FB	1D73C4FB	0	00000000
P15	1D73C4FB	1D73C4FB	0	00000000

TIME	A REGISTER	SIGMA LOGIC SIMULATION, DW , CASE 0024		149
		B REGISTER BC31	D REGISTER	CS REGISTER
PPR	99999999	00000000	0	00000000
PO1	36666666	99999999	0	00000000
PO2	6CCCCC0D	33333332	0	00000001
P11	D555555E	66666664	0	00000000
P11	B5555558	CCCCCCC9	0	00000001
P11	6CCCCC05	99999993	0	00000001
P11	D555555C	33333326	0	00000000
P11	B5555557A	6666664D	0	00000001
P11	6CCCC018	CCCCCCC9B	0	00000001
P11	D555555C55	99999936	0	00000000
P11	B555555687	3333326D	0	00000001
P11	6CCCCF32	666664DB	0	00000001
P11	D555555C88	CCCCC9B6	0	00000000
P11	B555555EED	9999936D	0	00000001
P11	6CCCCFFF	333326DB	0	00000001
P11	D5555222	66664DB6	0	00000000
P11	B5555A220	CCCC9B6D	0	00000001
P11	6CCD6665	999936DB	0	00000001
P11	D555555E6F	33326DB6	0	00000000
P11	B5557888A	6664DB6D	0	00000001
P11	6CD19998	CCC9B6DB	0	00000001
P11	D55555555	99936DB6	0	00000000
P11	B5688887	3326DB6D	0	00000001
P11	6CF33332	664DB6DB	0	00000001
P11	DC088888	CC9B6DB6	0	00000000
P11	B5EEEEED	9936DB6D	0	00000001
P11	6DFFFFFF	326DB6DB	0	00000001
P11	DE222222	64DB6DB6	0	00000000
P11	BA222220	C9B6DB6D	0	00000001
P11	76666665	936DB6DB	0	00000001
P11	EEEEEEEF	26DB6DB6	0	00000000
P11	D5555558A	4DB6DB6D	0	00000001
P11	B9999998	9B6DB6DB	0	00000001

TIME	A REGISTER	SIGMA LOGIC SIMULATION, DW , CASE 0024		150
		B REGISTER BC31	D REGISTER	CS REGISTER
P11	75555555	36DB6DB7	0	00000001
P11	F6666667	6DB6DB6E	0	00000000
P13	75555555	6DB6DB6E	0	00000000
P14	6DB6DB6E	6DB6DB6E	0	00000000
P15	6DB6DB6E	6DB6DB6E	0	00000000

TIME	A REGISTER	SIGMA LOGIC SIMULATION, DW , CASE 0025			CS REGISTER
		B REGISTER BC31	D REGISTER		
PPR	CDB53C70	00000000	0	00000000	00000000
P01	27777777	CDB53C70	0	00000000	00000000
P02	4EEEEEEF	9B6A78E0	0	8FFFFFFF	00000001
P11	BDDDDDDF	36D4F1C0	0	70000000	00000000
P11	5BBBBBBE	6DA9E381	0	8FFFFFFF	00000001
P11	0777777C	DB53C702	0	70000000	00000000
P11	8EEEEEF9	B6A78E05	0	8FFFFFFF	00000001
P11	3DDDDDF3	6D4F1C0B	0	8FFFFFFF	00000001
P11	9BBBBBE6	DA9E3816	0	70000000	00000000
P11	177777CD	B53C702D	0	8FFFFFFF	00000001
P11	4EEEEF9B	6A78E05A	0	70000000	00000000
P11	7DDDDF36	D4F1C0B4	0	70000000	00000000
P11	DBBBBE6D	A9E38168	0	70000000	00000000
P11	97777CDB	53C702D1	0	8FFFFFFF	00000001
P11	4EEEF9B6	A78E05A3	0	8FFFFFFF	00000001
P11	BDDDF36D	4F1C0B46	0	70000000	00000000
P11	5BBBE6DA	9E38168D	0	8FFFFFFF	00000001
P11	D777CDB5	3C702D1A	0	70000000	00000000
P11	8EEF9B6A	78E05A35	0	8FFFFFFF	00000001
P11	3DDF36D4	F1C0B46B	0	8FFFFFFF	00000001
P11	9BBE6DA9	E38168D6	0	70000000	00000000
P11	177CDB53	C702D1AD	0	8FFFFFFF	00000001
P11	4EF9B6A7	8E05A35A	0	70000000	00000000
P11	7DF36D4F	1C0B46B4	0	70000000	00000000
P11	DBE6DA9E	38168D68	0	70000000	00000000
P11	97CDB53C	702D1AD1	0	8FFFFFFF	00000001
P11	4F9B6A78	E05A35A3	0	8FFFFFFF	00000001
P11	BF36D4F1	C0B46B46	0	70000000	00000000
P11	5E6DA9E3	8168D68D	0	8FFFFFFF	00000001
P11	DCDB53C7	02D1AD1A	0	70000000	00000000
P11	9986A78E	05A35A35	0	8FFFFFFF	00000001
P11	536D4F1C	0B46B46B	0	8FFFFFFF	00000001
P11	C6DA9E38	168D68D6	0	70000000	00000000

TIME	A REGISTER	SIGMA LOGIC SIMULATION, DW , CASE 0025			CS REGISTER
		B REGISTER BC31	D REGISTER		
P11	6DB53C70	2D1AD1AD	0	8FFFFFFF	00000001
P11	FDB53C70	5A35A35A	0	70000000	00000000
P13	6DB53C70	5A35A35A	0	70000000	00000000
P14	5A35A35A	5A35A35A	0	00000000	00000000
P15	5A35A35A	5A35A35A	0	00000000	00000000

TIME	A REGISTER	SIGMA LOGIC SIMULATION, DW , CASE 0026			CS REGISTER
		B REGISTER BC31	D REGISTER	153	
PPR	77777777	00000000	0	00000000	00000000
POI	31C3C1F0	77777777	0	00000000	00000000
P02	638783E0	EEEEEEEE	0	85555555	00000000
P11	D1B9B285	DDDDDDDD	0	7AAAAAAA	00000001
P11	98C8BA2D	BBBBB3BA	0	85555555	00000000
P11	3C3C1F05	77777774	0	85555555	00000000
P11	B922E8B4	EEEEEEEE9	0	7AAAAAAA	00000001
P11	F89B26BF	DDDDDDDD3	0	7AAAAAAA	00000001
P11	EC6BA2D5	BBBBBBA6	0	85555555	00000000
P11	E3C1F055	7777774C	0	85555555	00000000
P11	D22E8B54	EEEEEE98	0	85555555	00000000
P11	AF07C153	DDDDDD30	0	85555555	00000000
P11	68BA2D51	BBBBBA60	0	85555555	00000000
P11	DC1F054D	777774C1	0	7AAAAAAA	00000001
P11	AD935FF0	EEEE982	0	85555555	00000000
P11	65D16A8B	DDDD304	0	85555555	00000000
P11	D64D7FC1	BBBBA609	0	7AAAAAAA	00000001
P11	A1F054D9	77774C12	0	85555555	00000000
P11	4E8B545C	EEEE9824	0	85555555	00000000
P11	A7C15363	DDDD3049	0	7AAAAAAA	00000001
P11	44D7FC1D	BBBA6092	0	85555555	00000000
P11	948AA2E5	7774C125	0	7AAAAAAA	00000001
P11	1E0A9B20	EE9824A	0	85555555	00000000
P11	46BF0CEB	DD30495	0	7AAAAAAA	00000001
P11	82D5172D	BBA6092B	0	7AAAAAAA	00000001
P11	FAFF83B1	774C1257	0	7AAAAAAA	00000001
P11	EB545CB8	EE9824AE	0	85555555	00000000
P11	E153641B	DD30495C	0	85555555	00000000
P11	CD5172E1	BA609288	0	85555555	00000000
P11	A54D906D	74C12570	0	85555555	00000000
P11	5545CB84	E9824AE0	0	85555555	00000000
P11	B53641B3	D30495C1	0	7AAAAAAA	00000001
P11	5FC1D8BD	A6092882	0	85555555	00000000

TIME	A REGISTER	SIGMA LOGIC SIMULATION, DW , CASE 0026			CS REGISTER
		B REGISTER BC31	D REGISTER	154	
P11	CA2E5C25	4C1257C5	0	7AAAAAAA	00000001
P11	44D906DD	9824AE0A	0	85555555	00000000
P13	44D906DD	9824AE0A	0	85555555	00000000
P14	9824AE0A	9824AE0A	0	00000000	00000001
P15	9824AE0B	9824AE0A	0	00000000	00000000

TIME	A REGISTER	SIGMA LOGIC SIMULATION, DW , CASE 0027			155
		B REGISTER BC31	D REGISTER	CS REGISTER	
PPR	DF4F3C70	00000000	0	00000000	00000000
PO1	D6666666	DF4F3C70	0	00000000	00000000
PO2	ACCCCCCD	BE9E78E0	0	79999999	00000000
P11	4CCCCCDD	7D3CF1C1	0	86666666	00000001
P11	A6666668	FA79E382	0	79999999	00000000
P11	40000003	F4F3C705	0	86666666	00000001
P11	8CCCCCDD	E9E78E0A	0	79999999	00000000
P11	0CCCCCDD	D3CF1C15	0	86666666	00000001
P11	26666689	A79E382A	0	79999999	00000000
P11	40000045	4F3C7054	0	79999999	00000000
P11	733333BC	9E78E0A8	0	79999999	00000000
P11	D9999AAB	3CF1C150	0	79999999	00000000
P11	A6666888	79E382A1	0	86666666	00000001
P11	99999DDE	F3C70543	0	86666666	00000001
P11	C0000888	E78E0A86	0	79999999	00000000
P11	73334449	CF1C150D	0	86666666	00000001
P11	F3335561	9E382A1A	0	79999999	00000000
P11	D999DDF5	3C705435	0	86666666	00000001
P11	C0008888	78E0A86B	0	86666666	00000001
P11	8CCDDE3E	F1C150D7	0	86666666	00000001
P11	2668894B	E382A1AF	0	86666666	00000001
P11	599DDF65	C705435E	0	79999999	00000000
P11	A66EF1FD	8E0A86BC	0	79999999	00000000
P11	4011172D	1C150D79	0	86666666	00000001
P11	8CEEFB28	382A1AF2	0	79999999	00000000
P11	0D112982	705435E5	0	86666666	00000001
P11	26EF1FD2	E0A86BCA	0	79999999	00000000
P11	411172D7	C150D794	0	79999999	00000000
P11	755618E1	82A1AF28	0	79999999	00000000
P11	DDDF64F5	05435E50	0	79999999	00000000
P11	AEP1FD1C	0A86BCA1	0	86666666	00000001
P11	6AB0C706	15CD7943	0	86666666	00000001
P11	E22E5ADA	2A1AF286	0	79999999	00000000

TIME	A REGISTER	SIGMA LOGIC SIMULATION, DW , CASE 0027			156
		B REGISTER BC31	D REGISTER	CS REGISTER	
P11	B78FE8E6	5435E50D	0	86666666	00000001
P11	3DF64F4D	A86BCA1B	0	86666666	00000001
P13	C45CB5B4	A86BCA1B	0	86666666	00000000
P14	A86BCA1B	A86BCA1B	0	00000000	00000001
P15	A86BCA1C	A86BCA1B	0	00000000	00000000

TIME	A REGISTER	SIGMA LOGIC SIMULATION, DW , CASE 0028		157
		B REGISTER BC31	D REGISTER	CS REGISTER
PPR	89C61C18	00000000	0	00000000
P01	15555555	59C61C18	0	00000000
P02	2AAAAAAA	B38C3830	0	82222222
P11	59999999	67187061	0	7DDDDDDD
P11	AEAEAEAE	CE30E0C3	0	00000001
P11	59999999	9C61C186	0	7DDDDDDD
P11	B7777777	38C3830D	0	82222222
P11	6AAAAAAA	7187061A	0	00000000
P11	D9999999	E30E0C35	0	7DDDDDDD
P11	AEAEAEAE	C61C186A	0	00000001
P11	6222221F	8C3830D4	0	82222222
P11	C8888888	187061A9	0	00000000
P11	6CCCCC2C	30E0C352	0	7DDDDDDD
P11	1DDDDDC8	61C186A4	0	82222222
P11	3FFFFFD4	C3830D49	0	00000001
P11	7BBB6B65	87061A93	0	7DDDDDDD
P11	F3333287	0E0C3527	0	00000001
P11	E22220CA	1C186A4E	0	7DDDDDDD
P11	C88885D8	3830D49C	0	82222222
P11	95554FF4	7061A938	0	00000000
P11	2EEEE42C	E0C35270	0	82222222
P11	62220C9D	C186A4E1	0	00000001
P11	BFFFD4F7	830D49C3	0	7DDDDDDD
P11	7BBB65AB	061A9386	0	00000001
P11	FBBB0F9A	0C35270D	0	82222222
P11	F331DAF0	186A4E1A	0	00000000
P11	EAA7FA24	30D49C34	0	82222222
P11	D994388C	61A93868	0	00000001
P11	B76CB53C	C35270D0	0	82222222
P11	731DAEFD	86A4E1A0	0	00000000
P11	EA7FA23F	0D49C341	0	7DDDDDDD
P11	DOBB003A	1A938682	0	00000001
P11	A5BA44B8	35270D04	0	82222222
				00000000

TIME	A REGISTER	SIGMA LOGIC SIMULATION, DW , CASE 0028		158
		B REGISTER BC31	D REGISTER	CS REGISTER
P11	4FB8CDB4	6A4E1A08	0	82222222
P11	D1DAEFD6	D49C3411	0	7DDDDDDD
P13	4FB8CDB4	D49C3411	0	00000000
P14	D49C3411	D49C3411	0	7DDDDDDD
				00000001
P15	D49C3412	D49C3411	0	00000000

TIME	A REGISTER	SIGMA LOGIC SIMULATION, DW , CASE 0029		159
		B REGISTER BC31	D REGISTER	CS REGISTER
PPR	77777777	00000000	0	00000000
P01	021871E7	77777777	0	00000000
P02	0430E3CE	EEEEEEEE	0	83333333
P11	0EC82E03	DDDDDDDD	0	7CCCCCCC
P11	1729F3A1	BBBBBBBB	0	7CCCCCCC
P11	27E084DD	77777777	0	7CCCCCCC
P11	4974A354	EEEEEEEF	0	7CCCCCCC
P11	8C82E043	DDDDDDDF	0	7CCCCCCC
P11	129F5A21	BBBBBBBE	0	83333333
P11	2BA51AA9	7777777D	0	7CCCCCCC
P11	50E3CEEC	EEEEEEFB	0	7CCCCCCC
P11	9B613773	DDDDDDF7	0	7CCCCCCC
P11	305C0881	BBBBBBEE	0	83333333
P11	671E7769	777777DD	0	7CCCCCCC
P11	C7D6886C	EEEEEFBB	0	7CCCCCCC
P11	8946AA73	DDDDDF76	0	83333333
P11	18F3BB4D	BBBBBBEE	0	83333333
P11	384DD0D1	77777DD9	0	7CCCCCCC
P11	6A35539C	EEEEFB83	0	7CCCCCCC
P11	CE0440D3	DDDDF767	0	7CCCCCCC
P11	95A21B41	BBBBBECE	0	83333333
P11	31AA9CE9	7777DD9C	0	83333333
P11	69BBA038	EEEFBB39	0	7CCCCCCC
P11	CD10DA0B	DDDF7673	0	7CCCCCCC
P11	93BB4D81	BBBECE66	0	83333333
P11	2DD001C9	777DD9CC	0	33333333
P11	622069F8	EEFB8399	0	7CCCCCCC
P11	BDDA6D8B	DDF76733	0	7CCCCCCC
P11	754E74B1	BBECE666	0	83333333
P11	F1034FC9	77DD9CCD	0	7CCCCCCC
P11	DBA0392C	EFB8399A	0	83333333
P11	BDA6D8BF	DF767334	0	83333333
P11	81B417E5	BEECE668	0	83333333

TIME	A REGISTER	SIGMA LOGIC SIMULATION, DW , CASE 0029		160
		B REGISTER BC31	D REGISTER	CS REGISTER
P11	09CE9631	7DD9CCDD	0	83333333
P11	8DD1C964	FBB399A1	0	7CCCCCCC
P13	09CE9631	FBB399A1	0	7CCCCCCC
P14	FBB399A1	FBB399A1	0	00000000
P15	FBB399A2	FBB399A1	0	00000000

TIME	A REGISTER	SIGMA LOGIC SIMULATION, DW , CASE 0030		161
		B REGISTER BC31	D REGISTER	CS REGISTER
PPR	AAAAAAAA	00000000	0	00000000
PO1	E1111111	AAAAAAAA	0	00000000
PO2	C2222223	55555554	0	00000001
P11	75355555	AAAAAAAA8	0	00000000
P11	F999999F	55555551	0	00000001
P11	E444445D	AAAAAAAA2	0	00000000
P11	D777778F	55555544	0	00000000
P11	8000000C	AAAAAAAA88	0	00000000
P11	8AAAAB07	55555510	0	00000000
P11	244444FC	AAAAAAAA20	0	00000000
P11	57777827	55555441	0	00000001
P11	A00002E0	AAAAA883	0	00000001
P11	311116D3	55555106	0	00000000
P11	71111C94	AAAAA20D	0	00000001
P11	D3334A3B	5555441B	0	00000001
P11	9777A588	AAAA8836	0	00000000
P11	3DDE39FF	5555106C	0	00000000
P11	8AAB62EC	AAAA20D9	0	00000001
P11	0667D6EB	555441B2	0	00000000
P11	18BE9CC4	AA88365	0	00000001
P11	288E4A9B	555106CB	0	00000001
P11	422DA648	AAA20D97	0	00000001
P11	756C5DA3	55441B2F	0	00000001
P11	DBE9CC58	AA88365F	0	00000001
P11	ABE4A9C3	55106CBE	0	00000000
P11	60884274	AA20D97C	0	00000000
P11	005F73D7	5441B2F9	0	00000001
P11	91CFF8C0	A88365F2	0	00000000
P11	328EE06F	5106CBE4	0	00000000
P11	740CAFCC	A2CD97C9	0	00000001
P11	D92A7CAB	441B2F93	0	00000001
P11	A365F268	88365F26	0	00000000
P11	55BAD3BF	106CBE4C	0	00000000

TIME	A REGISTER	SIGMA LOGIC SIMULATION, DW , CASE 0030		162
		B REGISTER BC31	D REGISTER	CS REGISTER
P11	BA64966C	20D97C99	0	00000001
P11	32ED1EF5	41B2F932	0	00000000
P13	BA64966C	41B2F932	0	00000000
P14	41B2F932	41B2F932	0	00000000
P15	41B2F932	41B2F932	0	00000000

TIME	A REGISTER	SIGMA LOGIC SIMULATION, DW , CASE 0031			CS REGISTER
		B REGISTER BC31	D REGISTER	163	
PPR	CD5B3C70	00000000	0	00000000	00000000
P01	FC7CF1CC	CD5B3C70	0	00000000	00000000
P02	F8F9E399	9AB678E0	0	7EEEEEEE	00000000
P11	EFD1A50F	356CF1C1	0	81111111	00000001
P11	E1C56C42	6AD9E383	0	81111111	00000001
P11	C5ACFAA8	D5B3C707	0	81111111	00000001
P11	8D7C1775	AB678E0F	0	81111111	00000001
P11	1D1A510F	56CF1C1F	0	81111111	00000001
P11	3C56C442	AD9E383E	0	7EEEEEEE	00000000
P11	768B6661	5B3C707C	0	7EEEEEEE	00000000
P11	EAF4AA9E	B678E0F8	0	7EEEEEEE	00000000
P11	D3C73319	6CF1C1F1	0	81111111	00000001
P11	A9B08856	D9E383E3	0	81111111	00000001
P11	558332D1	B3C707C7	0	81111111	00000001
P11	AD2887C7	678E0F8E	0	7EEEEEEE	00000000
P11	582EED6A	CF1C1F1D	0	81111111	00000001
P11	827FFCF9	9E383E3A	0	7EEEEEEE	00000000
P11	62DD07CF	3C707C75	0	81111111	00000001
P11	C70DD1C2	78E0F8EA	0	7EEEEEEE	00000000
P11	8D998160	F1C1F1D5	0	81111111	00000001
P11	1D5524F5	E383E3AB	0	81111111	00000001
P11	3CCC63EF	C707C756	0	7EEEEEEE	00000000
P11	7776B58B	8E0F8EAC	0	7EEEEEEE	00000000
P11	ECCB4953	1C1F1D58	0	7EEEEEEE	00000000
P11	D7747082	383E3AB1	0	81111111	00000001
P11	B10B0328	707C7563	0	81111111	00000001
P11	64382874	E0F8EAC7	0	81111111	00000001
P11	CA92730D	C1F1D58E	0	7EEEEEEE	00000000
P11	9302C3F7	83E3AB1D	0	81111111	00000001
P11	2827AA13	07C7563B	0	81111111	00000001
P11	5271764A	0F8EAC76	0	7EEEEEEE	00000000
P11	A2C0CA70	1F1D58EC	0	7EEEEEEE	00000000
P11	435F72BC	3E3AB1D9	0	81111111	00000001

TIME	A REGISTER	SIGMA LOGIC SIMULATION, DW , CASE 0031			CS REGISTER
		B REGISTER BC31	D REGISTER	164	
P11	88E1079C	7C7563B2	0	7EEEEEEE	00000000
P11	07CFF68A	F8EAC765	0	81111111	00000001
P13	88E1079C	F8EAC765	0	81111111	00000000
P14	F8EAC765	F8EAC765	0	00000000	00000001
P15	F8EAC766	F8EAC765	0	00000000	00000000

TIME	A REGISTER	SIGMA LOGIC SIMULATION, DW , CASE 0032		D REGISTER	CS REGISTER
		B REGISTER BC31			
P00	11111111	00000000	0	00000000	00000000
P01	15555555	11111111	0	00000000	00000000
P02	2AAAAAAA	22222222	0	8FFFFFFF	00000001
P11	75555554	44444444	0	70000000	00000000
P11	CAAAAAA8	88888888	0	70000000	00000000
P11	75555551	11111111	0	8FFFFFFF	00000001
P11	0AAAAAA2	22222223	0	8FFFFFFF	00000001
P11	35555544	44444446	0	70000000	00000000
P11	4AAAAA88	8888888C	0	70000000	00000000
P11	75555511	11111118	0	70000000	00000000
P11	CAAAAA22	22222230	0	70000000	00000000
P11	75555444	44444461	0	8FFFFFFF	00000001
P11	0AAAA888	888888C3	0	8FFFFFFF	00000001
P11	35555111	11111186	0	70000000	00000000
P11	4AAAA222	2222230C	0	70000000	00000000
P11	75554444	44444618	0	70000000	00000000
P11	CAAA8888	88888C30	0	70000000	00000000
P11	75551111	11111861	0	8FFFFFFF	00000001
P11	0AAA2222	222230C3	0	8FFFFFFF	00000001
P11	35544444	44446186	0	70000000	00000000
P11	4AA88888	8888C30C	0	70000000	00000000
P11	75511111	11118618	0	70000000	00000000
P11	CAA22222	22230C30	0	70000000	00000000
P11	75444444	44461861	0	8FFFFFFF	00000001
P11	0A888888	888C30C3	0	8FFFFFFF	00000001
P11	35111111	11186186	0	70000000	00000000
P11	4A222222	2230C30C	0	70000000	00000000
P11	74444444	44618618	0	70000000	00000000
P11	C8888888	88C30C30	0	70000000	00000000
P11	71111111	11861861	0	8FFFFFFF	00000001
P11	02222222	230C30C3	0	8FFFFFFF	00000001
P11	24444444	46186186	0	70000000	00000000
P11	28888888	8C30C30C	0	70000000	00000000

TIME	A REGISTER	SIGMA LOGIC SIMULATION, DW , CASE 0032		D REGISTER	CS REGISTER
		B REGISTER BC31			
P11	31111111	18618618	0	70000000	00000000
P11	A1111111	30C30C30	0	70000000	00000000
P13	11111111	30C30C30	0	70000000	00000000
P14	30C30C30	30C30C30	0	00000000	00000000
P15	30C30C30	30C30C30	0	00000000	00000000

TIME	A REGISTER	SIGMA LOGIC SIMULATION, DW , CASE 0033			167
		B REGISTER BC31	D REGISTER	CS REGISTER	
PPR	22222222	00000000	0	00000000	00000000
PO1	31111111	22222222	0	00000000	00000000
PO2	62222222	44444444	0	87777777	00000000
P11	D3333332	88888889	0	78888888	00000001
P11	97777777	11111112	0	87777777	00000000
P11	3DDDDDDC	22222224	0	87777777	00000000
P11	8AAAAAA6	44444449	0	78888888	00000001
P11	0666666E	88888892	0	87777777	00000000
P11	1BBBBBAB	11111125	0	78888888	00000001
P11	28888868	2222224B	0	78888888	00000001
P11	422221E2	44444497	0	78888888	00000001
P11	755554D6	8888892F	0	78888888	00000001
P11	DBBBBBBF	1111125F	0	78888888	00000001
P11	A8888690	222224BE	0	87777777	00000000
P11	5FFFFC0E	4444497C	0	87777777	00000000
P11	CEEEED70A	888892F9	0	78888888	00000001
P11	8EEEDF27	111125F2	0	87777777	00000000
P11	2CCCAD3C	22224BE4	0	87777777	00000000
P11	68886966	444497C9	0	78888888	00000001
P11	C221A3DE	88892F93	0	78888888	00000001
P11	755458CF	11125F26	0	87777777	00000000
P11	F997A08C	2224BE4D	0	78888888	00000001
P11	E440522A	44497C9A	0	87777777	00000000
P11	D76F9342	8892F934	0	87777777	00000000
P11	BDCE1573	1125F268	0	87777777	00000000
P11	8A8B19D4	224BE4D0	0	87777777	00000000
P11	24052296	4497C9A0	0	87777777	00000000
P11	56F9341A	892F9341	0	78888888	00000001
P11	9F037947	125F2683	0	78888888	00000001
P11	2F1803A0	24BE4D06	0	87777777	00000000
P11	6D1EF62E	497C9A0D	0	78888888	00000001
P11	CB4EFD6E	92F9341B	0	78888888	00000001
P11	87AF0BEF	25F26836	0	87777777	00000000

TIME	A REGISTER	SIGMA LOGIC SIMULATION, DW , CASE 0033			168
		B REGISTER BC31	D REGISTER	CS REGISTER	
P11	1E4D06CC	4BE4D06C	0	87777777	00000000
P11	A5C47E43	97C9A0D9	0	78888888	00000001
P13	1E4D06CC	97C9A0D9	0	78888888	00000000
P14	97C9A0D9	97C9A0D9	0	00000000	00000001
P15	97C9A0DA	97C9A0D9	0	00000000	00000000

TIME	A REGISTER	SIGMA LOGIC SIMULATION, DW , CASE 0034		169
		B REGISTER BC31	D REGISTER	CS REGISTER
PPR	33333333	00000000	0	00000000
PO1	D6666666	33333333	0	00000000
PO2	ACCCCCC	66666666	0	00000000
P11	3BBBBBBA	CCCCCCCD	0	00000001
P11	95555553	9999999A	0	00000000
P11	0CCCCC9	33333335	0	00000001
P11	37777770	6666666A	0	00000000
P11	51111102	CCCCCCD4	0	00000000
P11	84444427	999999A8	0	00000000
P11	EAAAAA71	33333350	0	00000000
P11	B7777704	666666A1	0	00000001
P11	8CCCCBE6	CCCCC043	0	00000001
P11	377775AB	99999A87	0	00000001
P11	8CCCC935	3333350E	0	00000000
P11	F888B48C	66666A1C	0	00000000
P11	D999BB3A	CCCCD439	0	00000001
P11	D110F453	9999A873	0	00000001
P11	BFFFC685	333350E7	0	00000001
P11	9DDD6AE8	6666A1CF	0	00000001
P11	5998B3AE	CCCD439F	0	00000001
P11	D10F453B	999A873E	0	00000000
P11	8440AC99	33350E7D	0	00000001
P11	265F3710	666A1CFB	0	00000001
P11	6A9C4BFE	CCD439F6	0	00000000
P11	B75ABA1F	99A873EC	0	00000000
P11	50D79661	3350E7D9	0	00000001
P11	BF8D0AA0	66A1CFB2	0	00000000
P11	613C3762	CD439F65	0	00000001
P11	E0564CA3	9A873ECA	0	00000000
P11	A2CEBB69	350E7D95	0	00000001
P11	637B5480	6A1CFB2B	0	00000001
P11	E4D4873E	D439F656	0	00000000
P11	ABC8309F	A873ECAD	0	00000001

TIME	A REGISTER	SIGMA LOGIC SIMULATION, DW , CASE 0034		170
		B REGISTER BC31	D REGISTER	CS REGISTER
P11	75743F1D	50E7D95B	0	00000001
P11	04632E0C	A1CFB2B7	0	00000001
P13	93521CFB	A1CFB2B7	0	00000000
P14	A1CFB2B7	A1CFB2B7	0	00000000
P15	A1CFB2B8	A1CFB2B7	0	00000000

TIME	A REGISTER	SIGMA LOGIC SIMULATION, DW , CASE 0038		171
		B REGISTER BC31	D REGISTER	CS REGISTER
PPR	44444444	00000000	0	00000000
P01	36666666	44444444	0	00000000
P02	6CCCCCCC	88888888	0	00000000
P11	ECCCCCBB	11111111	0	00000001
P11	C6666664	22222222	0	00000000
P11	9FFFFFFA	44444444	0	00000000
P11	53333326	88888888	0	00000000
P11	B999997F	11111111	0	00000001
P11	5FFFFFFC	22222222	0	00000000
P11	D33332CA	44444445	0	00000001
P11	93333262	8888888A	0	00000000
P11	399997F7	11111114	0	00000000
P11	86666320	22222229	0	00000001
P11	F999930E	44444453	0	00000001
P11	DFFFF2EA	888888A6	0	00000000
P11	D3331907	1111114C	0	00000000
P11	B9996540	22222298	0	00000000
P11	8665FDB2	44444530	0	00000000
P11	1FFF2E96	88888A60	0	00000000
P11	5331905F	111114C1	0	00000001
P11	932FED8C	22222983	0	00000001
P11	132CA7E6	44445306	0	00000000
P11	398C82FE	8888A60D	0	00000001
P11	5FE5D2CB	11114C1B	0	00000001
P11	AC987264	22229837	0	00000001
P11	45FDB196	4445306E	0	00000000
P11	9F2E965E	888A60DD	0	00000001
P11	2B29F98B	1114C1BA	0	00000000
P11	69872648	22298375	0	00000001
P11	BFDB195E	445306EB	0	00000001
P11	6C82FF8A	88A60DD6	0	00000000
P11	EC393247	114C1BAD	0	00000001
P11	C53F315C	2298375A	0	00000000

TIME	A REGISTER	SIGMA LOGIC SIMULATION, DW , CASE 0038		172
		B REGISTER BC31	D REGISTER	CS REGISTER
P11	9DB195EA	45306EB4	0	00000000
P11	274B2F83	8A60DD68	0	00000000
P13	274B2F83	8A60DD68	0	00000000
P14	8A60DD68	8A60DD68	0	00000001
P15	8A60DD69	8A60DD68	0	00000000

TIME	A REGISTER	SIGMA LOGIC SIMULATION, DW, CASE 0036		173
		B REGISTER BC31	D REGISTER	CS REGISTER
PPR	88888888	00000000	0	00000000
PO1	021871E7	88888888	0	00000000
PO2	0430E3CF	11111110	0	8FFFFFFF
P11	8861C79E	22222220	0	70000000
P11	30C3BF9C	44444440	0	70000000
P11	41871E78	88888880	0	70000000
P11	630E3CF1	11111100	0	70000000
P11	A61C79E2	22222200	0	70000000
P11	2C36F3E4	44444401	0	8FFFFFFF
P11	7871E788	88888802	0	70000000
P11	D0E3CF11	11111004	0	70000000
P11	61C79E22	22222009	0	8FFFFFFF
P11	238F3C44	44444013	0	8FFFFFFF
P11	671E7888	88888026	0	70000000
P11	AE3CF111	1111004C	0	70000000
P11	3C79E222	22220099	0	8FFFFFFF
P11	98F3C444	44440132	0	70000000
P11	11E78888	88880265	0	8FFFFFFF
P11	43CF1111	111004CA	0	70000000
P11	679E2222	22200994	0	70000000
P11	AF3C4444	44401328	0	70000000
P11	3E788888	88802651	0	8FFFFFFF
P11	9CF11111	11004CA2	0	70000000
P11	19E22222	22009945	0	8FFFFFFF
P11	53C44444	4401328A	0	70000000
P11	67888888	88026514	0	70000000
P11	EF111111	1004CA28	0	70000000
P11	BE222222	20099451	0	8FFFFFFF
P11	9C444444	401328A3	0	8FFFFFFF
P11	58888888	80265147	0	8FFFFFFF
P11	D1111111	004CA28E	0	70000000
P11	82222222	0099451D	0	8FFFFFFF
P11	24444444	01328A3B	0	8FFFFFFF

TIME	A REGISTER	SIGMA LOGIC SIMULATION, DW, CASE 0036		174
		B REGISTER BC31	D REGISTER	CS REGISTER
P11	68888888	02651476	0	70000000
P11	D8888888	04CA28EC	0	70000000
P13	48888888	04CA28EC	0	70000000
P14	04CA28EC	04CA28EC	0	00000000
P15	04CA28EC	04CA28EC	0	00000000

TIME	A REGISTER	SIGMA LOGIC SIMULATION, DW , CASE 0037			175
		B REGISTER BC31	D REGISTER	CS REGISTER	
PPR	BBBBBBBB	00000000	0	00000000	00000000
PO1	E1111111	BBBBBBBB	0	00000000	00000000
PO2	C2222223	77777776	0	78888888	00000001
P11	75555558	EEEEEEEC	0	87777777	00000000
P11	F999999F	DDDDDD09	0	78888888	00000001
P11	E4444451	BBBBBBB2	0	87777777	00000000
P11	D7777791	77777764	0	87777777	00000000
P11	BDD0DE10	EEEEEEEC	0	87777777	00000000
P11	8AAAABCF	DDDDDD90	0	87777777	00000000
P11	2444450D	BBBBBB20	0	87777777	00000000
P11	57777909	77777641	0	78888888	00000001
P11	A0000324	EEEEEC83	0	78888888	00000001
P11	3111175B	DDDD906	0	87777777	00000000
P11	71111DA5	BBBBB20D	0	78888888	00000001
P11	D3334C5D	7777641B	0	78888888	00000001
P11	9777A9CC	EEEEEC836	0	87777777	00000000
P11	3DDE4287	DDDD906C	0	87777777	00000000
P11	8AAB73FD	BBBB20D9	0	78888888	00000001
P11	0667F90D	777641B2	0	87777777	00000000
P11	1BBEE108	EEEC8365	0	78888888	00000001
P11	288ED323	DD906CB	0	78888888	00000001
P11	422EB759	BBB20D97	0	78888888	00000001
P11	756E7FC5	77641B2F	0	78888888	00000001
P11	DBEE109C	EEC8365F	0	78888888	00000001
P11	A8ED324B	DD906CBE	0	87777777	00000000
P11	60C95385	BB20D97C	0	87777777	00000000
P11	008195F9	7641B2F9	0	78888888	00000001
P11	92143D04	EC8365F2	0	87777777	00000000
P11	331768F7	D906CBE4	0	87777777	00000000
P11	751DC0DD	B20D97C9	0	78888888	00000001
P11	DB4C92CD	641B2F93	0	78888888	00000001
P11	A7AA36AC	C8365F26	0	87777777	00000000
P11	5E435C47	906CBE4C	0	87777777	00000000

TIME	A REGISTER	SIGMA LOGIC SIMULATION, DW , CASE 0037			176
		B REGISTER BC31	D REGISTER	CS REGISTER	
P11	CB75A77D	20D97C99	0	78888888	00000001
P11	43FE3006	41B2F932	0	87777777	00000000
P13	CB75A77D	41B2F932	0	87777777	00000000
P14	41B2F932	41B2F932	0	00000000	00000000
P15	41B2F932	41B2F932	0	00000000	00000000

TIME	A REGISTER	SIGMA LOGIC SIMULATION, DW , CASE 0038		D REGISTER	177
		B REGISTER BC31	0		CS REGISTER
PPR	CCCCCCCC	00000000	0	00000000	00000000
PO1	F1C3C731	CCCCCCCC	0	00000000	00000000
PO2	E387E63	99999998	0	79999999	00000000
P11	BA424FF9	33333331	0	86666666	00000001
P11	B1B16CC0	66666663	0	86666666	00000001
P11	0F6FA64E	CCCCCCC7	0	86666666	00000001
P11	EBAC1968	9999999E	0	79999999	00000000
P11	4A586609	3333331C	0	79999999	00000000
P11	8849FF44	66666638	0	79999999	00000000
P11	03C7318A	CCCCC71	0	86666666	00000001
P11	188B3043	9999998E	0	79999999	00000000
P11	1B2933B9	333331C4	0	79999999	00000000
P11	2B065AA4	66666388	0	79999999	00000000
P11	493FE87A	CCCC710	0	79999999	00000000
P11	85B30427	99998E20	0	79999999	00000000
P11	FE993B81	33331C40	0	79999999	00000000
P11	F065AA34	66663881	0	86666666	00000001
P11	ED982136	CCCC7103	0	86666666	00000001
P11	E7F0DF3B	9998E207	0	86666666	00000001
P11	DCC6EB45	3331C40F	0	86666666	00000001
P11	C65AA358	6663881F	0	86666666	00000001
P11	9982137E	CCC7103F	0	86666666	00000001
P11	3FD0F3CB	998E207F	0	86666666	00000001
P11	8C6EB465	331C40FE	0	79999999	00000000
P11	0C10987C	663881FD	0	86666666	00000001
P11	24EE04C6	CC7103FA	0	79999999	00000000
P11	3D0F3CBF	98E207F4	0	79999999	00000000
P11	6D51AC81	31C40FE8	0	79999999	00000000
P11	CDD68C94	63881FD0	0	79999999	00000000
P11	8EE04C9A	C7103FA1	0	86666666	00000001
P11	2A8D6583	8E207F43	0	86666666	00000001
P11	61E797D5	1C40FE86	0	79999999	00000000
P11	B70262DC	3881FD0C	0	79999999	00000000

TIME	A REGISTER	SIGMA LOGIC SIMULATION, DW , CASE 0038		D REGISTER	178
		B REGISTER BC31	0		CS REGISTER
P11	6137F8EA	7103FA19	0	86666666	00000001
P11	E79E5F51	E207F432	0	79999999	00000000
P13	E79E5F51	E207F432	0	79999999	00000000
P14	E207F432	E207F432	0	00000000	00000001
P15	E207F433	E207F432	0	00000000	00000000

TIME	A REGISTER	SIGMA LOGIC SIMULATION, DW , CASE 0039		D REGISTER	179
		B REGISTER BC31			CS REGISTER
PPR	00000002	00000000	0	00000000	00000000
PO1	00000000	00000002	0	00000000	00000000
PO2	00000000	00000004	0	FFFFFFFE	00000001
P11	FFFFFFFE	00000008	0	00000001	00000000
P11	FFFFFFFE	00000010	0	00000001	00000000
P11	FFFFFFFE	00000020	0	00000001	00000000
P11	FFFFFFFE	00000040	0	00000001	00000000
P11	FFFFFFFE	00000080	0	00000001	00000000
P11	FFFFFFFE	00000100	0	00000001	00000000
P11	FFFFFFFE	00000200	0	00000001	00000000
P11	FFFFFFFE	00000400	0	00000001	00000000
P11	FFFFFFFE	00000800	0	00000001	00000000
P11	FFFFFFFE	00001000	0	00000001	00000000
P11	FFFFFFFE	00002000	0	00000001	00000000
P11	FFFFFFFE	00004000	0	00000001	00000000
P11	FFFFFFFE	00008000	0	00000001	00000000
P11	FFFFFFFE	00010000	0	00000001	00000000
P11	FFFFFFFE	00020000	0	00000001	00000000
P11	FFFFFFFE	00040000	0	00000001	00000000
P11	FFFFFFFE	00080000	0	00000001	00000000
P11	FFFFFFFE	00100000	0	00000001	00000000
P11	FFFFFFFE	00200000	0	00000001	00000000
P11	FFFFFFFE	00400000	0	00000001	00000000
P11	FFFFFFFE	00800000	0	00000001	00000000
P11	FFFFFFFE	01000000	0	00000001	00000000
P11	FFFFFFFE	02000000	0	00000001	00000000
P11	FFFFFFFE	04000000	0	00000001	00000000
P11	FFFFFFFE	08000000	0	00000001	00000000
P11	FFFFFFFE	10000000	0	00000001	00000000
P11	FFFFFFFE	20000000	0	00000001	00000000
P11	FFFFFFFE	40000000	0	00000001	00000000
P11	FFFFFFFE	80000000	0	00000001	00000000
P11	FFFFFFFE	00000000	0	00000001	00000000

TIME	A REGISTER	SIGMA LOGIC SIMULATION, DW , CASE 0039		D REGISTER	180
		B REGISTER BC31			CS REGISTER
P11	00000000	00000001	0	FFFFFFFE	00000001
P11	FFFFFFFE	00000002	0	00000001	00000000
P13	00000000	00000002	0	00000001	00000000
P14	00000002	00000002	0	00000000	00000000
P15	00000002	00000002	0	00000000	00000000

TIME	A REGISTER	SIGMA LOGIC SIMULATION, DW , CASE 00*0		181
		B REGISTER BC31	D REGISTER	CS REGISTER
PPR	7FFFFFFF	00000000	0	00000000
P01	00000000	7FFFFFFF	0	00000000
P02	00000000	FFFFFFFE	0	80000000
P11	00000003	FFFFFFFC	0	00000000
P11	00000005	FFFFFFF8	0	00000000
P11	00000009	FFFFFFF0	0	00000000
P11	00000011	FFFFFFE0	0	00000000
P11	00000021	FFFFFFC0	0	00000000
P11	00000041	FFFFFF80	0	00000000
P11	00000081	FFFFFF00	0	00000000
P11	00000101	FFFFFF00	0	00000000
P11	00000201	FFFFFFC0	0	00000000
P11	00000401	FFFFFF80	0	00000000
P11	00000801	FFFFFF00	0	00000000
P11	00001001	FFFFFF00	0	00000000
P11	00002001	FFFFFFC0	0	00000000
P11	00004001	FFFFFF80	0	00000000
P11	00008001	FFFFFF00	0	00000000
P11	00010001	FFFFFF00	0	00000000
P11	00020001	FFFFFFC0	0	00000000
P11	00040001	FFFFFF80	0	00000000
P11	00080001	FFFFFF00	0	00000000
P11	00100001	FFFFFF00	0	00000000
P11	00200001	FFFFFFC0	0	00000000
P11	00400001	FFFFFF80	0	00000000
P11	00800001	FFFFFF00	0	00000000
P11	01000001	FFFFFF00	0	00000000
P11	02000001	FFFFFFC0	0	00000000
P11	04000001	FFFFFF80	0	00000000
P11	08000001	FFFFFF00	0	00000000
P11	10000001	FFFFFF00	0	00000000
P11	20000001	C0000000	0	00000000
P11	*0000001	80000000	0	00000000

TIME	A REGISTER	SIGMA LOGIC SIMULATION, DW , CASE 00*0		182
		B REGISTER BC31	D REGISTER	CS REGISTER
P11	80000001	00000000	0	7FFFFFFF
P11	00000000	00000001	0	80000000
P13	00000000	00000001	0	80000000
P14	00000001	00000001	0	00000000
P15	00000001	00000001	0	00000000

TIME	A REGISTER	SIGMA LOGIC SIMULATION, DW , CASE 0042		185
		B REGISTER BC31	D REGISTER	CS REGISTER
PPR	FFFFFFFE	00000000	0	00000000
PO1	FFFFFFFE	FFFFFFFE	0	00000000
PO2	FFFFFFFE	FFFFFFFC	0	00000001
P11	00000001	FFFFFFFB	0	00000000
P11	00000001	FFFFFFF0	0	00000000
P11	00000001	FFFFFFE0	0	00000000
P11	00000001	FFFFFFC0	0	00000000
P11	00000001	FFFFFF80	0	00000000
P11	00000001	FFFFFF00	0	00000000
P11	00000001	FFFFFEC0	0	00000000
P11	00000001	FFFFFC00	0	00000000
P11	00000001	FFFFF800	0	00000000
P11	00000001	FFFFF000	0	00000000
P11	00000001	FFFFE000	0	00000000
P11	00000001	FFFFC000	0	00000000
P11	00000001	FFFF8000	0	00000000
P11	00000001	FFFF0000	0	00000000
P11	00000001	FFFE0000	0	00000000
P11	00000001	FFFC0000	0	00000000
P11	00000001	FFF80000	0	00000000
P11	00000001	FFF00000	0	00000000
P11	00000001	FFE00000	0	00000000
P11	00000001	FFC00000	0	00000000
P11	00000001	FF800000	0	00000000
P11	00000001	FF000000	0	00000000
P11	00000001	FE000000	0	00000000
P11	00000001	F8000000	0	00000000
P11	00000001	F0000000	0	00000000
P11	00000001	E0000000	0	00000000
P11	00000001	C0000000	0	00000000
P11	00000001	80000000	0	00000000
P11	00000001	00000000	0	00000000

TIME	A REGISTER	SIGMA LOGIC SIMULATION, DW , CASE 0042		186
		B REGISTER BC31	D REGISTER	CS REGISTER
P11	00000000	00000000	0	00000000
P11	FFFFFFFE	00000001	0	00000001
P13	00000000	00000001	0	00000000
P14	00000001	00000001	0	00000001
P15	00000002	00000001	0	00000000

SIGMA LOGIC SIMULATION, DW , CASE 0043				187
TIME	A REGISTER	B REGISTER BC31	D REGISTER	CS REGISTER
PPR	80000001	00000000 0	00000000	00000000
PC1	FFFFFFF	80000001 0	00000000	00000000
P02	FFFFFFF	00000002 0	7FFFFFFE	00000001
P11	FFFFFFFC	00000004 0	80000001	00000000
P11	FFFFFFFA	00000008 0	80000001	00000000
P11	FFFFFFF6	00000010 0	80000001	00000000
P11	FFFFFFFE	00000020 0	80000001	00000000
P11	FFFFFFDE	00000040 0	80000001	00000000
P11	FFFFFFBE	00000080 0	80000001	00000000
P11	FFFFFF7E	00000100 0	80000001	00000000
P11	FFFFFFFE	00000200 0	80000001	00000000
P11	FFFFFFDFE	00000400 0	80000001	00000000
P11	FFFFFFBFE	00000800 0	80000001	00000000
P11	FFFFFF7FE	00001000 0	80000001	00000000
P11	FFFFFFFE	00002000 0	80000001	00000000
P11	FFFFFFDFE	00004000 0	80000001	00000000
P11	FFFFFFBFE	00008000 0	80000001	00000000
P11	FFFFFF7FE	00010000 0	80000001	00000000
P11	FFFFFFFE	00020000 0	80000001	00000000
P11	FFFFFFDFE	00040000 0	80000001	00000000
P11	FFFFFFBFE	00080000 0	80000001	00000000
P11	FFFFFF7FE	00100000 0	80000001	00000000
P11	FFFFFFFE	00200000 0	80000001	00000000
P11	FFFFFFDFE	00400000 0	80000001	00000000
P11	FFFFFFBFE	00800000 0	80000001	00000000
P11	FFFFFF7FE	01000000 0	80000001	00000000
P11	FFFFFFFE	02000000 0	80000001	00000000
P11	FFFFFFDFE	04000000 0	80000001	00000000
P11	FFFFFFBFE	08000000 0	80000001	00000000
P11	FFFFFF7FE	10000000 0	80000001	00000000
P11	FFFFFFFE	20000000 0	80000001	00000000
P11	FFFFFFDFE	40000000 0	80000001	00000000
P11	FFFFFFBFE	80000000 0	80000001	00000000

SIGMA LOGIC SIMULATION, DW , CASE 0043				188
TIME	A REGISTER	B REGISTER BC31	D REGISTER	CS REGISTER
P11	7FFFFFFF	00000000 0	80000001	00000000
P11	00000000	00000000 0	80000001	00000000
P13	00000000	00000000 0	80000001	00000000
P14	00000000	00000000 0	00000000	00000001
P15	00000001	00000000 0	00000000	00000000

TIME	A REGISTER	SIGMA LOGIC SIMULATION, DW , CASE 0046		189
		B REGISTER BC31	D REGISTER	CS REGISTER
PPR	80000001	00000000	0	00000000
P01	FFFFFFFF	80000001	0	00000000
P02	FFFFFFFF	00000002	0	00000001
P11	00000000	00000004	0	00000000
P11	FFFFFFFF	00000009	0	00000001
P11	FFFFFFFF	00000013	0	00000001
P11	FFFFFFFF	00000027	0	00000001
P11	FFFFFFFF	0000004F	0	00000001
P11	FFFFFFFF	0000009F	0	00000001
P11	FFFFFFFF	0000013F	0	00000001
P11	FFFFFFFF	0000027F	0	00000001
P11	FFFFFFFF	000004FF	0	00000001
P11	FFFFFFFF	000009FF	0	00000001
P11	FFFFFFFF	000013FF	0	00000001
P11	FFFFFFFF	000027FF	0	00000001
P11	FFFFFFFF	00004FFF	0	00000001
P11	FFFFFFFF	00009FFF	0	00000001
P11	FFFFFFFF	00013FFF	0	00000001
P11	FFFFFFFF	00027FFF	0	00000001
P11	FFFFFFFF	0004FFFF	0	00000001
P11	FFFFFFFF	0009FFFF	0	00000001
P11	FFFFFFFF	0013FFFF	0	00000001
P11	FFFFFFFF	0027FFFF	0	00000001
P11	FFFFFFFF	004FFFFF	0	00000001
P11	FFFFFFFF	009FFFFF	0	00000001
P11	FFFFFFFF	013FFFFF	0	00000001
P11	FFFFFFFF	027FFFFF	0	00000001
P11	FFFFFFFF	04FFFFF	0	00000001
P11	FFFFFFFF	09FFFFF	0	00000001
P11	FFFFFFFF	13FFFFF	0	00000001
P11	FFFFFFFF	27FFFFF	0	00000001
P11	FFFFFFFF	4FFFFF	0	00000001
P11	FFFFFFFF	9FFFFF	0	00000001

TIME	A REGISTER	SIGMA LOGIC SIMULATION, DW , CASE 0046		190
		B REGISTER BC31	D REGISTER	CS REGISTER
P11	FFFFFFFF	3FFFFFF	0	00000000
P11	00000000	7FFFFFF	0	00000000
P13	00000000	7FFFFFF	0	00000000
P14	7FFFFFF	7FFFFFF	0	00000001
P15	7FFFFFF	7FFFFFF	0	00000000

TIME	A REGISTER	SIGMA LOGIC SIMULATION, DW , CASE 0045		191
		B REGISTER BC31	D REGISTER	CS REGISTER
PPR	00000002	00000000	0	00000000
PO1	00000000	00000002	0	00000000
P02	00000000	00000004	0	FFFFFFF
P11	FFFFFFFE	00000009	0	00000000
P11	FFFFFFFE	00000013	0	00000000
P11	FFFFFFFE	00000027	0	00000000
P11	FFFFFFFE	0000004F	0	00000000
P11	FFFFFFFE	0000009F	0	00000000
P11	FFFFFFFE	0000013F	0	00000000
P11	FFFFFFFE	0000027F	0	00000000
P11	FFFFFFFE	000004FF	0	00000000
P11	FFFFFFFE	000009FF	0	00000000
P11	FFFFFFFE	000013FF	0	00000000
P11	FFFFFFFE	000027FF	0	00000000
P11	FFFFFFFE	00004FFF	0	00000000
P11	FFFFFFFE	00009FFF	0	00000000
P11	FFFFFFFE	000027FF	0	00000000
P11	FFFFFFFE	00004FFF	0	00000000
P11	FFFFFFFE	00009FFF	0	00000000
P11	FFFFFFFE	00013FFF	0	00000000
P11	FFFFFFFE	00027FFF	0	00000000
P11	FFFFFFFE	0004FFFF	0	00000000
P11	FFFFFFFE	0009FFFF	0	00000000
P11	FFFFFFFE	0013FFF	0	00000000
P11	FFFFFFFE	0027FFF	0	00000000
P11	FFFFFFFE	004FFFF	0	00000000
P11	FFFFFFFE	009FFFF	0	00000000
P11	FFFFFFFE	013FFF	0	00000000
P11	FFFFFFFE	027FFF	0	00000000
P11	FFFFFFFE	04FFFF	0	00000000
P11	FFFFFFFE	09FFFF	0	00000000
P11	FFFFFFFE	13FFF	0	00000000
P11	FFFFFFFE	27FFF	0	00000000
P11	FFFFFFFE	4FFFF	0	00000000
P11	FFFFFFFE	9FFFF	0	00000000
P11	FFFFFFFE	3FFFF	0	00000000

TIME	A REGISTER	SIGMA LOGIC SIMULATION, DW , CASE 0045		192
		B REGISTER BC31	D REGISTER	CS REGISTER
P11	00000000	7FFFFFFE	0	FFFFFFF
P11	FFFFFFFE	FFFFFFFD	0	00000000
P13	00000000	FFFFFFFD	0	00000000
P14	FFFFFFFD	FFFFFFFD	0	00000000
P15	FFFFFFFE	FFFFFFFD	0	00000000

TIME	A REGISTER	SIGMA LOGIC SIMULATION, DW , CASE 0046		193
		B REGISTER BC31	D REGISTER	CS REGISTER
PPR	7FFFFFFF	00000000 0	00000000	00000000
P01	00000000	7FFFFFFF 0	00000000	00000000
P02	00000000	FFFFFFFE 0	80000001	00000000
P11	00000003	FFFFFFFD 0	7FFFFFFE	00000001
P11	00000005	FFFFFFFB 0	7FFFFFFE	00000001
P11	00000009	FFFFFFF7 0	7FFFFFFE	00000001
P11	00000011	FFFFFFEF 0	7FFFFFFE	00000001
P11	00000021	FFFFFFDF 0	7FFFFFFE	00000001
P11	00000041	FFFFFFBF 0	7FFFFFFE	00000001
P11	00000081	FFFFFF7F 0	7FFFFFFE	00000001
P11	00000101	FFFFFFFF 0	7FFFFFFE	00000001
P11	00000201	FFFFFFDF 0	7FFFFFFE	00000001
P11	00000401	FFFFFFBF 0	7FFFFFFE	00000001
P11	00000801	FFFFFF7F 0	7FFFFFFE	00000001
P11	00001001	FFFFFFFF 0	7FFFFFFE	00000001
P11	00002001	FFFFFFDF 0	7FFFFFFE	00000001
P11	00004001	FFFFFFBF 0	7FFFFFFE	00000001
P11	00008001	FFFFFF7F 0	7FFFFFFE	00000001
P11	00010001	FFFFFFFF 0	7FFFFFFE	00000001
P11	00020001	FFFFFFDF 0	7FFFFFFE	00000001
P11	00040001	FFFFFFBF 0	7FFFFFFE	00000001
P11	00080001	FFFFFF7F 0	7FFFFFFE	00000001
P11	00100001	FFFFFFFF 0	7FFFFFFE	00000001
P11	00200001	FFFFFFDF 0	7FFFFFFE	00000001
P11	00400001	FFFFFFBF 0	7FFFFFFE	00000001
P11	00800001	FFFFFF7F 0	7FFFFFFE	00000001
P11	01000001	FFFFFFFF 0	7FFFFFFE	00000001
P11	02000001	FFFFFFDF 0	7FFFFFFE	00000001
P11	04000001	FFFFFFBF 0	7FFFFFFE	00000001
P11	08000001	FFFFFF7F 0	7FFFFFFE	00000001
P11	10000001	FFFFFFFF 0	7FFFFFFE	00000001
P11	20000001	FFFFFFDF 0	7FFFFFFE	00000001
P11	40000001	FFFFFFBF 0	7FFFFFFE	00000001

TIME	A REGISTER	SIGMA LOGIC SIMULATION, DW , CASE 0046		194
		B REGISTER BC31	D REGISTER	CS REGISTER
P11	80000001	7FFFFFFF 0	7FFFFFFE	00000001
P11	00000000	FFFFFFFE 0	80000001	00000000
P13	00000000	FFFFFFFE 0	80000001	00000000
P14	FFFFFFFE	FFFFFFFE 0	00000000	00000001
P15	FFFFFFF7	FFFFFFFE 0	00000000	00000000

TIME	A REGISTER	SIGMA LOGIC SIMULATION, DW , CASE 0049		D REGISTER	CS REGISTER
		B REGISTER BC31			
PPR	80000001	00000000	0	00000000	00000000
PO1	FFFFFFF	80000001	0	00000000	00000000
PO2	FFFFFFF	00000002	0	7FFFFFFF	00000000
P11	FFFFFFFC	00000005	0	80000000	00000001
P11	FFFFFFFA	0000000B	0	80000000	00000001
P11	FFFFFFF6	00000017	0	80000000	00000001
P11	FFFFFFEE	0000002F	0	80000000	00000001
P11	FFFFFFDE	0000005F	0	80000000	00000001
P11	FFFFFFBE	000000BF	0	80000000	00000001
P11	FFFFFF7E	0000017F	0	80000000	00000001
P11	FFFFFFFE	000002FF	0	80000000	00000001
P11	FFFFFFDE	000005FF	0	80000000	00000001
P11	FFFFFFBE	00000BFF	0	80000000	00000001
P11	FFFFFF7E	000017FF	0	80000000	00000001
P11	FFFFFFFE	00002FFF	0	80000000	00000001
P11	FFFFFFDFFE	00005FFF	0	80000000	00000001
P11	FFFFFFBFFE	0000BFFF	0	80000000	00000001
P11	FFFFFF7FFE	00017FFF	0	80000000	00000001
P11	FFFFFFDFFE	0002FFFF	0	80000000	00000001
P11	FFFFFFBFFE	0005FFFF	0	80000000	00000001
P11	FFFFFF7FFE	000BFFFF	0	80000000	00000001
P11	FFFFFFDFFE	0017FFFF	0	80000000	00000001
P11	FFFFFFBFFE	002FFFFF	0	80000000	00000001
P11	FFFFFF7FFE	005FFFFF	0	80000000	00000001
P11	FFFFFFDFFE	00BFFFFF	0	80000000	00000001
P11	FFFFFF7FFE	017FFFFF	0	80000000	00000001
P11	FFFFFFDFFE	02FFFFF	0	80000000	00000001
P11	FFFFFFBFFE	05FFFFF	0	80000000	00000001
P11	FFFFFF7FFE	0BFFFFF	0	80000000	00000001
P11	FFFFFFDFFE	17FFFFF	0	80000000	00000001
P11	FFFFFFBFFE	2FFFFF	0	80000000	00000001
P11	FFFFFF7FFE	5FFFFF	0	80000000	00000001
P11	FFFFFFDFFE	BFFFFF	0	80000000	00000001

TIME	A REGISTER	SIGMA LOGIC SIMULATION, DW , CASE 0049		D REGISTER	CS REGISTER
		B REGISTER BC31			
P11	7FFFFFFF	7FFFFFFF	0	80000000	00000001
P11	00000000	FFFFFFF	0	80000000	00000001
P13	00000000	FFFFFFF	0	80000000	00000000
P14	FFFFFFF	FFFFFFF	0	00000000	00000000
P15	FFFFFFF	FFFFFFF	0	00000000	00000000

TIME	A REGISTER	SIGMA LOGIC SIMULATION, DW , CASE 0050		D REGISTER	201
		B REGISTER BC31			CS REGISTER
PPR	80000001	00000000	0	00000000	00000000
PC1	FFFFFFFF	80000001	0	00000000	00000000
P02	FFFFFFFF	00000002	0	00000001	00000000
P11	00000000	00000005	0	FFFFFFFFE	00000001
P11	FFFFFFFFE	0000000A	0	00000001	00000000
P11	FFFFFFFFE	00000014	0	00000001	00000000
P11	FFFFFFFFE	00000028	0	00000001	00000000
P11	FFFFFFFFE	00000050	0	00000001	00000000
P11	FFFFFFFFE	000000A0	0	00000001	00000000
P11	FFFFFFFFE	00000140	0	00000001	00000000
P11	FFFFFFFFE	00000280	0	00000001	00000000
P11	FFFFFFFFE	00000500	0	00000001	00000000
P11	FFFFFFFFE	00000A00	0	00000001	00000000
P11	FFFFFFFFE	00001400	0	00000001	00000000
P11	FFFFFFFFE	00002800	0	00000001	00000000
P11	FFFFFFFFE	00005000	0	00000001	00000000
P11	FFFFFFFFE	0000A000	0	00000001	00000000
P11	FFFFFFFFE	00014000	0	00000001	00000000
P11	FFFFFFFFE	00028000	0	00000001	00000000
P11	FFFFFFFFE	00050000	0	00000001	00000000
P11	FFFFFFFFE	000A0000	0	00000001	00000000
P11	FFFFFFFFE	00140000	0	00000001	00000000
P11	FFFFFFFFE	00280000	0	00000001	00000000
P11	FFFFFFFFE	00500000	0	00000001	00000000
P11	FFFFFFFFE	00A00000	0	00000001	00000000
P11	FFFFFFFFE	01400000	0	00000001	00000000
P11	FFFFFFFFE	02800000	0	00000001	00000000
P11	FFFFFFFFE	05000000	0	00000001	00000000
P11	FFFFFFFFE	0A000000	0	00000001	00000000
P11	FFFFFFFFE	14000000	0	00000001	00000000
P11	FFFFFFFFE	28000000	0	00000001	00000000
P11	FFFFFFFFE	50000000	0	00000001	00000000
P11	FFFFFFFFE	A0000000	0	00000001	00000000

TIME	A REGISTER	SIGMA LOGIC SIMULATION, DW , CASE 0050		D REGISTER	202
		B REGISTER BC31			CS REGISTER
P11	FFFFFFFF	40000000	0	00000001	00000000
P11	00000000	80000001	0	FFFFFFFFE	00000001
P13	00000000	80000001	0	FFFFFFFFE	00000000
P14	80000001	80000001	0	00000000	00000000
P15	80000001	80000001	0	00000000	00000000

TIME	A REGISTER	SIGMA LOGIC SIMULATION, DW , CASE 0051		203
		B REGISTER BC31	D REGISTER	CS REGISTER
PPR	89ABCDEF	00000000	0	00000000
PO1	01234567	89ABCDEF	0	00000000
PO2	02468ACF	13579BDE	0	00000001
P11	80000002	26AF37BC	0	00000000
P11	848D15A0	4D5E6F78	0	00000000
P11	8DA740DC	9ABCDEF0	0	00000000
P11	9FD89755	3579BDE0	0	00000000
P11	C4444446	6AF37BC0	0	00000000
P11	0D159E28	05E6F781	0	00000001
P11	959E26B5	ABCDEF02	0	00000000
P11	AFC96307	579BDE04	0	00000000
P11	E41FDBAA	AF37BC08	0	00000000
P11	4CCCCCF1	5E6F7811	0	00000000
P11	150C8446	BCDEF023	0	00000001
P11	A58BF2F1	79BDE046	0	00000001
P11	CF44FB7E	F37BC08C	0	00000000
P11	23D70C99	E6F78119	0	00000001
P11	C3210397	CDEF0232	0	00000000
P11	0ACF1CCB	9BDE0465	0	00000001
P11	911123FB	37BC08CA	0	00000000
P11	A6AF5D92	6F781194	0	00000000
P11	D1EBD0C0	DEF02328	0	00000000
P11	2864B71D	BDE04651	0	00000001
P11	CC3C589F	78C08CA2	0	00000000
P11	1D05C6DA	F7811945	0	00000000
P11	B57E7819	EF02328A	0	00000000
P11	EF8A05CF	DE046514	0	00000000
P11	63A1213B	BC08CA29	0	00000000
P11	42852CDB	78119453	0	00000001
P11	00DD441A	F02328A7	0	00000001
P11	7D2D7299	E046514E	0	00000000
P11	7EE7FACF	C08CA29C	0	00000000
P11	825D0B3B	81194538	0	00000000

TIME	A REGISTER	SIGMA LOGIC SIMULATION, DW , CASE 0051		204
		B REGISTER BC31	D REGISTER	CS REGISTER
P11	89472C13	02328A70	0	00000000
P11	CB8DB6E1	046514E0	0	00000000
P13	0DD441AF	046514E0	0	00000000
P14	046514E0	046514E0	0	00000000
P15	046514E0	046514E0	0	00000000

TIME	A REGISTER	SIGMA LOGIC SIMULATION, DW , CASE 0052		D REGISTER	205
		B REGISTER BC31			CS REGISTER
P00	A00369CF	00000000	0	00000000	00000000
P01	258BE147	A00369CF	0	00000000	00000000
P02	4B17C28F	5A06D39E	0	A951C840	00000001
P11	E8D915A0	B4CDA73C	0	56AE37BF	00000000
P11	7F029ABF	681B4E79	0	A951C840	00000001
P11	50ABC600	D0369CF3	0	A951C840	00000001
P11	F3F51C83	A06D39E8	0	56AE37BF	00000000
P11	9546A885	40DA73CD	0	A951C840	00000001
P11	7D30E18C	81B4E79B	0	A951C840	00000001
P11	4D05939B	0369CF37	0	A951C840	00000001
P11	ECAE3788	06D39E6E	0	56AE37BF	00000000
P11	8658DEEE	0DA73CDD	0	A951C840	00000001
P11	60154E5E	1B4E798B	0	A951C840	00000001
P11	12CE2D3E	369CF377	0	A951C840	00000001
P11	783FEAFE	6D39E6EE	0	56AE37BF	00000000
P11	9DDC457A	DA73CDDC	0	56AE37BF	00000000
P11	E914FA73	B4E798B8	0	56AE37BF	00000000
P11	7F866465	69CF3771	0	A951C840	00000001
P11	5180594C	D39E6EE3	0	A951C840	00000001
P11	F604431B	A73CDDC6	0	56AE37BF	00000000
P11	9964F585	4E798B8D	0	A951C840	00000001
P11	854D78EC	9CF3771B	0	A951C840	00000001
P11	5D7E285B	39E6EE37	0	A951C840	00000001
P11	0DA0A138	73CDDC6F	0	A951C840	00000001
P11	6DE4D2F2	E798B8DE	0	56AE37BF	00000000
P11	89261563	CF3771BC	0	56AE37BF	00000000
P11	BFA89A45	9E6EE378	0	56AE37BF	00000000
P11	2CADA409	3CDDC6F1	0	A951C840	00000001
P11	ABFED894	798B8DE2	0	56AE37BF	00000000
P11	055A20A6	F3771BC5	0	A951C840	00000001
P11	5D57D1CF	E6EE378A	0	56AE37BF	00000000
P11	680C131D	CDDC6F14	0	56AE37BF	00000000
P11	7D749589	98B8DE28	0	56AE37BF	00000000

TIME	A REGISTER	SIGMA LOGIC SIMULATION, DW , CASE 0052		D REGISTER	206
		B REGISTER BC31			CS REGISTER
P11	A8459AF1	3771BC50	0	56AE37BF	00000000
P11	FEF3D2B0	6EE378A0	0	56AE37BF	00000000
P13	55A20A6F	6EE378A0	0	56AE37BF	00000000
P14	6EE378A0	6EE378A0	0	00000000	00000000
P15	6EE378A0	6EE378A0	0	00000000	00000000

207

TIME	A REGISTER	SIGMA LOGIC SIMULATION, DW , CASE 0053		D REGISTER	CS REGISTER
		B REGISTER BC31			
PPR	F2468ACE	00000000	0	00000000	00000000
PO1	DF1357BD	F2468ACE	0	00000000	00000000
PO2	BE26AF7B	E48D159C	0	1ECA8642	00000001
P11	B9E26B7D	C91A2B39	0	1ECA8642	00000001
P12	B9E26B7D	C91A2B39	0	1ECA8642	00000001

208

TIME	A REGISTER	SIGMA LOGIC SIMULATION, DW , CASE 0054		D REGISTER	CS REGISTER
		B REGISTER BC31			
PPR	27C16B05	00000000	0	00000000	00000000
PO1	E26AE38D	27C16B05	0	00000000	00000000
PO2	C4D5C71A	4F82D60A	0	7EB852FC	00000001
P11	871C342E	9F05AC14	0	8147AD03	00000000
P11	10C7C263	3E0B5828	0	8147AD03	00000000
P11	241EDECC	7C16B051	0	7EB852FC	00000001
P11	45AE6392	F82D60A3	0	7EB852FC	00000001
P11	88CD6D1F	F05AC147	0	7EB852FC	00000001
P11	0F0B8039	E0B5828E	0	8147AD03	00000000
P11	20A65A79	C16B051D	0	7EB852FC	00000001
P11	3EBD5AED	82D60A3B	0	7EB852FC	00000001
P11	7AEB5B05	05AC1477	0	7EB852FC	00000001
P11	F3475DA4	0B9828EF	0	7EB852FC	00000001
P11	E3FF6142	16B051DE	0	8147AD03	00000000
P11	CABE1C8A	2D60A3BC	0	8147AD03	00000000
P11	97AB931A	5AC14778	0	8147AD03	00000000
P11	31E6803A	B5828EFO	0	8147AD03	00000000
P11	665C5A7B	6B051DE1	0	7EB852FC	00000001
P11	CA295A70	D60A3BC3	0	7EB852FC	00000001
P11	91C35BDB	AC147786	0	8147AD03	00000000
P11	261611BD	5828EFOC	0	8147AD03	00000000
P11	4EBB7D80	B051DE19	0	7EB852FC	00000001
P11	9AE7A0FB	60A3BC33	0	7EB852FC	00000001
P11	333FE7F0	C1477866	0	8147AD03	00000000
P11	690F29E7	828EFOCD	0	7EB852FC	00000001
P11	CF8EF9C9	051DE19B	0	7EB852FC	00000001
P11	9C8E998C	0A3BC336	0	8147AD03	00000000
P11	3BAC8D1E	1477866C	0	8147AD03	00000000
P11	79E87442	28EFOCD9	0	7EB852FC	00000001
P11	F1418E7E	51DE19B3	0	7EB852FC	00000001
P11	DF3C2F6	A3BC3366	0	8147AD03	00000000
P11	C276DFF3	477866CC	0	8147AD03	00000000
P11	877D19EC	8EFOCD98	0	8147AD03	00000000

TIME	A REGISTER	SIGMA LOGIC SIMULATION, DW, CASE 0034		D REGISTER	CS REGISTER
		B REGISTER BC31			
P11	11898DDF	1DE19B30	0	8147AD03	00000000
P11	92D13AK2	3BC33661	0	7EB852FC	00000001
P13	92D13AE2	3BC33661	0	7EB852FC	00000000
P14	3BC33661	3BC33661	0	00000000	00000000
P15	3BC33661	3BC33661	0	00000000	00000000

TIME	A REGISTER	SIGMA LOGIC SIMULATION, DW, CASE 0055		D REGISTER	CS REGISTER
		B REGISTER BC31			
PPR	F37BF49E	00000000	0	00000000	00000000
P01	148BF37B	F37BF49E	0	00000000	00000000
P02	2917E6F7	E6F7E93C	0	E26AF49F	00000000
P11	1705B72D	C0EFD278	0	E26AF49F	00000000
P12	1705B72D	C0EFD278	0	E26AF49F	00000000

TIME	A REGISTER	SIGMA LOGIC SIMULATION, DW , CASE 0056		211
		B REGISTER BC31	D REGISTER	CS REGISTER
PPR	ABE153F0	00000000	0	00000000
P01	F0259E49	ABE159F0	0	00000000
P02	E0483C93	57C2B3E0	0	457AE39F
P11	4B8C4064	AF8567C1	0	BA851C60
P11	0C22B988	3F0ACF83	0	BA851C60
P11	8D4FABD8	BE159F06	0	457AE39F
P11	A5951EEF	7C2B3E0C	0	457AE39F
P11	D620051C	F8567C18	0	457AE39F
P11	3735D177	F0ACF831	0	BA851C60
P11	E375DBB1	E159F062	0	457AE39F
P11	51E17EA1	C2B3E0C5	0	BA851C60
P11	18C03605	8567C18B	0	BA851C60
P11	A6A4A4CD	0ACF8316	0	457AE39F
P11	D83F10D8	159F062C	0	457AE39F
P11	3B73E8EE	2B3E0C59	0	BA851C60
P11	EBF20A9E	567C18B2	0	457AE39F
P11	62D9DC7A	ACF83165	0	BA851C60
P11	3ABDF1B7	59F062CB	0	BA851C60
P11	EA861C30	B3E0C596	0	457AE39F
P11	6001FF9F	67C18B2D	0	BA851C60
P11	350E3800	CF83165B	0	BA851C60
P11	DF26A3C3	9F062CB6	0	457AE39F
P11	494318C5	3E0C596D	0	BA851C60
P11	07906A4C	7C18B2DB	0	BA851C60
P11	842B0D5A	F83165B6	0	457AE39F
P11	934BE1F3	F062CB6C	0	457AE39F
P11	B18D8B25	E0C596D8	0	457AE39F
P11	EE10DD89	C18B2DB0	0	457AE39F
P11	67178251	83165B61	0	BA851C60
P11	43393D65	062CB6C3	0	BA851C60
P11	FB7CB38C	0C596D86	0	457AE39F
P11	81EF2E56	18B2DB0D	0	BA851C60
P11	78E8956E	3165B61B	0	BA851C60

TIME	A REGISTER	SIGMA LOGIC SIMULATION, DW , CASE 0056		212
		B REGISTER BC31	D REGISTER	CS REGISTER
P11	66DB639E	62CB6C37	0	BA851C60
P11	21607FFF	C596D86F	0	BA851C60
P13	DBE59C60	C596D86F	0	BA851C60
P14	C596D86F	C596D86F	0	00000000
P15	C596D870	C596D86F	0	00000000

TIME	A REGISTER	SIGMA LOGIC SIMULATION, DW , CASE 0057		213
		B REGISTER BC31	D REGISTER	CS REGISTER
PPR	FFFFFFFF	00000000	0	00000000
P01	00000000	FFFFFFFF	0	00000000
P02	00000001	FFFFFFFE	0	80000000
P11	00000003	FFFFFFFD	0	00000000
P11	00000007	FFFFFFFB	0	00000001
P11	0000000F	FFFFFFF7	0	00000001
P11	0000001F	FFFFFFF3	0	00000001
P11	0000003F	FFFFFFDF	0	00000001
P11	0000007F	FFFFFFBF	0	00000001
P11	000000FF	FFFFFF7F	0	00000001
P11	000001FF	FFFFFF7F	0	00000001
P11	000003FF	FFFFFF7F	0	00000001
P11	000007FF	FFFFFF7F	0	00000001
P11	00000FFF	FFFFFF7F	0	00000001
P11	00001FFF	FFFFFF7F	0	00000001
P11	00003FFF	FFFFFF7F	0	00000001
P11	00007FFF	FFFFFF7F	0	00000001
P11	0000FFFF	FFFFFF7F	0	00000001
P11	0001FFFF	FFFFFF7F	0	00000001
P11	0003FFFF	FFFFFF7F	0	00000001
P11	0007FFFF	FFFFFF7F	0	00000001
P11	000FFFFF	FFFFFF7F	0	00000001
P11	001FFFFF	FFFFFF7F	0	00000001
P11	003FFFFF	FFFFFF7F	0	00000001
P11	007FFFFF	FFFFFF7F	0	00000001
P11	00FFFFFF	FFFFFF7F	0	00000001
P11	01FFFFFF	FFFFFF7F	0	00000001
P11	03FFFFFF	FFFFFF7F	0	00000001
P11	07FFFFFF	FFFFFF7F	0	00000001
P11	0FFFFFFF	FFFFFF7F	0	00000001
P11	1FFFFFFF	FFFFFF7F	0	00000001
P11	3FFFFFFF	FFFFFF7F	0	00000001
P11	7FFFFFFF	FFFFFF7F	0	00000001

TIME	A REGISTER	SIGMA LOGIC SIMULATION, DW , CASE 0057		214
		B REGISTER BC31	D REGISTER	CS REGISTER
P11	FFFFFFFF	7FFFFFFF	0	00000001
P11	7FFFFFFF	FFFFFFFE	0	80000000
P13	7FFFFFFF	FFFFFFFE	0	00000000
P14	FFFFFFFF	FFFFFFFE	0	00000001
P15	FFFFFFFF	FFFFFFFE	0	00000000

TIME	A REGISTER	SIGMA LOGIC SIMULATION, DW , CASE 0058			CS REGISTER
		B REGISTER BC31		D REGISTER	
PPR	00000001	00000000	0	00000000	00000000
P01	C0000000	00000001	0	00000000	00000000
P02	80000000	00000002	0	7FFFFFFF	00000001
P11	00000000	00000004	0	80000000	00000000
P11	00000000	00000009	0	7FFFFFFF	00000001
P11	00000000	00000013	0	7FFFFFFF	00000001
P11	00000000	00000027	0	7FFFFFFF	00000001
P11	00000000	0000004F	0	7FFFFFFF	00000001
P11	00000000	0000009F	0	7FFFFFFF	00000001
P11	00000000	0000013F	0	7FFFFFFF	00000001
P11	00000000	0000027F	0	7FFFFFFF	00000001
P11	00000000	000004FF	0	7FFFFFFF	00000001
P11	00000000	000009FF	0	7FFFFFFF	00000001
P11	00000000	000013FF	0	7FFFFFFF	00000001
P11	00000000	000027FF	0	7FFFFFFF	00000001
P11	00000000	00004FFF	0	7FFFFFFF	00000001
P11	00000000	00009FFF	0	7FFFFFFF	00000001
P11	00000000	00013FFF	0	7FFFFFFF	00000001
P11	00000000	00027FFF	0	7FFFFFFF	00000001
P11	00000000	0004FFFF	0	7FFFFFFF	00000001
P11	00000000	0009FFFF	0	7FFFFFFF	00000001
P11	00000000	0013FFFF	0	7FFFFFFF	00000001
P11	00000000	0027FFFF	0	7FFFFFFF	00000001
P11	00000000	004FFFFF	0	7FFFFFFF	00000001
P11	00000000	009FFFFF	0	7FFFFFFF	00000001
P11	00000000	013FFFFF	0	7FFFFFFF	00000001
P11	00000000	027FFFFF	0	7FFFFFFF	00000001
P11	00000000	04FFFFF	0	7FFFFFFF	00000001
P11	00000000	09FFFFF	0	7FFFFFFF	00000001
P11	00000000	13FFFFF	0	7FFFFFFF	00000001
P11	00000000	27FFFFF	0	7FFFFFFF	00000001
P11	00000000	4FFFFF	0	7FFFFFFF	00000001
P11	00000000	9FFFFF	0	7FFFFFFF	00000001

TIME	A REGISTER	SIGMA LOGIC SIMULATION, DW , CASE 0058			CS REGISTER
		B REGISTER BC31		D REGISTER	
P11	00000001	3FFFFFFF	0	7FFFFFFF	00000001
P11	80000001	7FFFFFFF	0	7FFFFFFF	00000001
P13	80000001	7FFFFFFF	0	7FFFFFFF	00000000
P14	7FFFFFFF	7FFFFFFF	0	00000000	00000000
P15	7FFFFFFF	7FFFFFFF	0	00000000	00000000

TIME	A REGISTER	SIGMA LOGIC SIMULATION, DW , CASE 0059		217
		B REGISTER BC31	D REGISTER	CS REGISTER
PPR	00000000	00000000	0	00000000
PO1	F0000000	00000000	0	00000000
PO2	E0000000	00000000	0	00000001
P11	C0000000	00000000	0	00000000
P11	80000000	00000000	0	00000000
P11	00000000	00000000	0	00000000
P11	00000000	00000001	0	00000001
P11	00000000	00000003	0	00000001
P11	00000000	00000007	0	00000001
P11	00000000	0000000F	0	00000001
P11	00000000	0000001F	0	00000001
P11	00000000	0000003F	0	00000001
P11	00000000	0000007F	0	00000001
P11	00000000	000000FF	0	00000001
P11	00000000	000001FF	0	00000001
P11	00000000	000003FF	0	00000001
P11	00000000	000007FF	0	00000001
P11	00000000	00000FFF	0	00000001
P11	00000000	00001FFF	0	00000001
P11	00000000	00003FFF	0	00000001
P11	00000000	00007FFF	0	00000001
P11	00000000	0000FFFF	0	00000001
P11	00000000	0001FFFF	0	00000001
P11	00000000	0003FFFF	0	00000001
P11	00000000	0007FFFF	0	00000001
P11	00000000	000FFFFF	0	00000001
P11	00000000	001FFFFF	0	00000001
P11	00000000	003FFFFF	0	00000001
P11	00000000	007FFFFF	0	00000001
P11	00000000	00FFFFFF	0	00000001
P11	00000000	01FFFFFF	0	00000001
P11	00000000	03FFFFFF	0	00000001
P11	00000000	07FFFFFF	0	00000001

TIME	A REGISTER	SIGMA LOGIC SIMULATION, DW , CASE 0059		218
		B REGISTER BC31	D REGISTER	CS REGISTER
P11	00000000	0FFFFFFF	0	00000001
P11	80000000	1FFFFFFF	0	00000001
P13	00000000	1FFFFFFF	0	00000000
P14	1FFFFFFF	1FFFFFFF	0	00000001
P15	20000000	1FFFFFFF	0	00000000

TIME	A REGISTER	SIGMA LOGIC SIMULATION, DW, CASE 0060			219
		B REGISTER BC31		D REGISTER	CS REGISTER
PPR	00000001	00000000	0	00000000	00000000
P01	30000000	00000001	0	00000000	00000000
P02	60000000	00000002	0	A0000000	00000000
P11	00000000	00000004	0	A0000000	00000000
P12	00000000	00000004	0	A0000000	00000000

TIME	A REGISTER	SIGMA LOGIC SIMULATION, DW, CASE 0061			220
		B REGISTER BC31		D REGISTER	CS REGISTER
PPR	5A3E6E7F	00000000	0	00000000	00000000
P01	28CE5BDF	5A3E6E7F	0	00000000	00000000
P02	519CB7BE	B47CDCFE	0	8ACE9FBD	00000000
P11	B8D6AEF7	68F9B9FD	0	75316042	00000001
P11	5C101E74	D1F373FA	0	8ACE9FBD	00000000
P11	CDBD7C63	A3E6E7F5	0	75316042	00000001
P11	85DDB94D	47CDCFEA	0	8ACE9FBD	00000000
P11	2158B214	8F9B9FD4	0	8ACE9FBD	00000000
P11	584EA3A3	1F373FA9	0	75316042	00000001
P11	9B0007CC	3E6E7F53	0	75316042	00000001
P11	2062D01E	7CDCFEA6	0	8ACE9FBD	00000000
P11	5662DFB6	F9B9FD4D	0	75316042	00000001
P11	97287FF3	F373FA9B	0	75316042	00000001
P11	1883C06D	E6E7F536	0	8ACE9FBD	00000000
P11	4704C055	CDCFEA6D	0	75316042	00000001
P11	786C4131	9B9FD4DB	0	75316042	00000001
P11	DB3BA2E9	373FA9B7	0	75316042	00000001
P11	A0D94658	6E7F536E	0	8ACE9FBD	00000000
P11	574FCC2A	DCFEA6DC	0	8ACE9FBD	00000000
P11	C43CD7CF	B9FD4DB9	0	75316042	00000001
P11	72DC7025	73FA9B72	0	8ACE9FBD	00000000
P11	FB561FC4	E7F536E5	0	75316042	00000001
P11	E10F000F	CFEA6DCA	0	8ACE9FBD	00000000
P11	D7BB3F99	9FD4DB94	0	8ACE9FBD	00000000
P11	C513BEAD	3FA9B728	0	8ACE9FBD	00000000
P11	9FC4BCD4	7F536E50	0	8ACE9FBD	00000000
P11	5526B922	FEA6DCA0	0	8ACE9FBD	00000000
P11	BFEAB1BF	FD4DB941	0	75316042	00000001
P11	6A382405	FA9B7282	0	8ACE9FBD	00000000
P11	EA0DB785	F536E505	0	75316042	00000001
P11	BE7DCF91	EA6DCA0A	0	8ACE9FBD	00000000
P11	9298DE9D	D4DB9414	0	8ACE9FBD	00000000
P11	3ACEFCB5	A9B72828	0	8ACE9FBD	00000000

221

SIGMA LOGIC SIMULATION, DW, CASE 0061

TIME	A REGISTER	B REGISTER BC31	D REGISTER	CS REGISTER
P11	803838E8	536E5C51 0	78316098	00000001
P11	006C99E8	A6DCA0A2 0	8ACE97BD	00000000
P13	006C99E8	A6DCA0A2 0	8ACE97BD	00000000
P14	A6DCA0A2	A6DCA0A2 0	00000000	00000001
P15	A6DCA0A3	A6DCA0A2 0	00000000	00000000

222

SIGMA LOGIC SIMULATION, DW, CASE 0062

TIME	A REGISTER	B REGISTER BC31	D REGISTER	CS REGISTER
PPR	A09CD39F	00000000 0	00000000	00000000
P01	28E45B17	A09CD39F 0	00000000	00000000
P02	51C8B62F	4139A73E 0	A13BF37D	00000000
P11	E6095358	82734E7D 0	5EC40C82	00000001
P11	899ABFB7	04E69CFA 0	A13BF37D	00000000
P11	55AD6668	09CD39F4 0	A13BF37D	00000000
P11	EDD2B3CA	139A73E9 0	5EC40C82	00000001
P11	992D8C9A	2734E7D2 0	A13BF37D	00000000
P11	74D2E82E	4E69CFA4 0	A13BF37D	00000000
P11	2C1DB756	9CD39FA8 0	A13BF37D	00000000
P11	9AB355A7	39A73E91 0	5EC40C82	00000001
P11	F2EEC454	734E7D23 0	5EC40C82	00000001
P11	A365A1AE	E69CFA46 0	A13BF37D	00000000
P11	89432A57	CD39FA8C 0	A13BF37D	00000000
P11	54FE38A9	9A73E918 0	A13BF37D	00000000
P11	EC745E4D	34E7D231 0	5EC40C82	00000001
P11	9670D5A0	69CFA462 0	A13BF37D	00000000
P11	6F59923A	D39FA48C4 0	A13BF37D	00000000
P11	2128086F	A73E9188 0	A13BF37D	00000000
P11	84CDFDD9	4E7D2311 0	5EC40C82	00000001
P11	C7241488	9CFA4623 0	5EC40C82	00000001
P11	4BD04277	39FA8C46 0	A13BF37D	00000000
P11	DA1868E8	73E9188D 0	5EC40C82	00000001
P11	7186F0D6	E7D2311A 0	A13BF37D	00000000
P11	25E9C8A7	CFA46234 0	A13BF37D	00000000
P11	8E4B7849	9FA8C469 0	5EC40C82	00000001
P11	DA1F0999	3E9188D3 0	5EC40C82	00000001
P11	71C62C38	7D2311A6 0	A13BF37D	00000000
P11	26043F6A	FA46234C 0	A13BF37D	00000000
P11	8E8065CF	F48CA699 0	5EC40C82	00000001
P11	DA88E4A5	E9188D33 0	5EC40C82	00000001
P11	7299E251	D2311A66 0	A13BF37D	00000000
P11	E7ABAB9D	A46234CC 0	A13BF37D	00000000

TIME	A REGISTER	SIGMA LOGIC SIMULATION, DW , CASE 0062		CS REGISTER	
		B REGISTER BC31	D REGISTER		
P11	91CF3E35	48C46999	0	5EC40CB2	00000001
P11	F0934A88	9188D333	0	5EC40CB2	00000001
P13	4F57573B	9188D333	0	5EC40CB2	00000000
P14	9188D333	9188D333	0	00000000	00000001
P15	9188D334	9188D333	0	00000000	00000000

TIME	A REGISTER	SIGMA LOGIC SIMULATION, DW , CASE 0063		CS REGISTER	
		B REGISTER BC31	D REGISTER		
PPR	F4A017D3	00000000	0	00000000	00000000
P01	FE8C26AE	F4A017D3	0	00000000	00000000
P02	FD184D5D	E9402FA6	0	0984EA62	00000001
P11	0D3A6F81	D2805F4C	0	F67B159D	00000000
P11	076B0A3D	A500BE98	0	F67B159D	00000000
P11	FBCC3FB5	4A017D31	0	0984EA62	00000001
P11	0AA25430	9402FA62	0	F67B159D	00000000
P11	023AD39B	2805F4C4	0	F67B159D	00000000
P11	F168D270	500BE989	0	0984EA62	00000001
P11	F5E179A6	A017D313	0	0984EA62	00000001
P11	FECC813	402FA627	0	0984EA62	00000001
P11	10A364EC	805F4C4E	0	F67B159D	00000000
P11	0E3CF513	00BE989C	0	F67B159D	00000000
P11	09701560	017D3138	0	F67B159D	00000000
P11	FFD455FA	02FA6271	0	0984EA62	00000001
P11	128680BA	05F4C4E2	0	F67B159D	00000000
P11	12632CAE	0BE989C4	0	F67B159D	00000000
P11	11BC8496	17D31388	0	F67B159D	00000000
P11	106F3466	2FA62710	0	F67B159D	00000000
P11	0DD49406	5F4C4E20	0	F67B159D	00000000
P11	089F5346	BE989C40	0	F67B159D	00000000
P11	FE34D1C7	7D313881	0	0984EA62	00000001
P11	0F737894	FA627102	0	F67B159D	00000000
P11	0BDD1BE3	F4C4E204	0	F67B159D	00000000
P11	04B06301	E989C408	0	F67B159D	00000000
P11	F656F13D	03138811	0	0984EA62	00000001
P11	FFB7B741	A6271023	0	0984EA62	00000001
P11	12794349	4C4E2046	0	F67B159D	00000000
P11	11E8B1CC	989C408C	0	F67B159D	00000000
P11	10C78ED3	31388118	0	F67B159D	00000000
P11	0E8548E0	62710230	0	F67B159D	00000000
P11	0A00BCFA	C4E20460	0	F67B159D	00000000
P11	00F7A52F	89C408C0	0	F67B159D	00000000

225

TIME	A REGISTER	SIGMA LOGIC SIMULATION, DW , CASE 0069		D REGISTER	CS REGISTER
		B REGISTER BC31			
P11	EEE57999	13881181	0	0984EA62	00000001
P11	F86A5FFC	27102303	0	0984EA62	00000001
P13	F86A5FFC	27102303	0	0984EA62	00000000
P14	27102303	27102303	0	00000000	00000000
P15	27102303	27102303	0	00000000	00000000

226

TIME	A REGISTER	SIGMA LOGIC SIMULATION, DW , CASE 006A		D REGISTER	CS REGISTER
		B REGISTER BC31			
PPR	2C6071B5	00000000	0	00000000	00000000
PO1	E6E82A3D	2C6071B5	0	00000000	00000000
PO2	CDD0547A	58C0E36A	0	78F74B3B	00000000
P11	8D8F3F6A	B181C6D5	0	8708B4C4	00000001
P11	292FE85F	63038DAB	0	8708B4C4	00000001
P11	60713A48	C6071B56	0	78F74B3B	00000000
P11	B2D10B07	8C0E36AC	0	78F74B3B	00000000
P11	5790AC85	181C6D59	0	8708B4C4	00000001
P11	BD32C294	3038DAB2	0	78F74B3B	00000000
P11	6C541B9E	6071B565	0	8708B4C4	00000001
P11	E6B9A0C6	C0E36ACA	0	78F74B3B	00000000
P11	BF61D803	81C6D595	0	8708B4C4	00000001
P11	8C051991	038DAB2B	0	8708B4C4	00000001
P11	27BB9CAC	071B5657	0	8708B4C4	00000001
P11	5088A2E2	0E36ACAE	0	78F74B3B	00000000
P11	ACFFDC3A	1C6D595C	0	78F74B3B	00000000
P11	4BEE4EEA	38DAB2B9	0	8708B4C4	00000001
P11	A5EE075E	71B56572	0	78F74B3B	00000000
P11	3DCAA532	E36ACAE5	0	8708B4C4	00000001
P11	89A6B3EF	C6D595CA	0	78F74B3B	00000000
P11	053BF655	8DAB2B95	0	8708B4C4	00000001
P11	18896635	1B56572A	0	78F74B3B	00000000
P11	230162E0	36ACAE54	0	78F74B3B	00000000
P11	37F15C36	6D595CA8	0	78F74B3B	00000000
P11	61D14EE2	DAB2B950	0	78F74B3B	00000000
P11	B591343B	B56572A0	0	78F74B3B	00000000
P11	5010FEED	6ACAE541	0	7088AC4	00000001
P11	C8336764	D595CA82	0	78F74B3B	00000000
P11	8255653F	AB2B9505	0	8708B4C4	00000001
P11	12BC3409	56572A0B	0	8708B4C4	00000001
P11	3389D19C	ACAE5416	0	78F74B3B	00000000
P11	590239AF	595CA82C	0	78F74B3B	00000000
P11	A3F309D4	B2B95058	0	78F74B3B	00000000

TIME	A REGISTER	SIGMA LOGIC SIMULATION, DW , CASE 0064			227
		B REGISTER BC31	D REGISTER	CS REGISTER	
P11	39D4AA1F	6572A0B1	0	8708B4C4	00000001
P11	C0DD5EE4	CAE54162	0	78F74B3B	00000000
P13	C0DD5EE4	CAE54162	0	78F74B3B	00000000
P14	CAE54162	CAE54162	0	00000000	00000001
P15	CAE54163	CAE54162	0	00000000	00000000

TIME	A REGISTER	SIGMA LOGIC SIMULATION, DW , CASE 0065			228
		B REGISTER BC31	D REGISTER	CS REGISTER	
PPR	47E95A3F	00000000	0	00000000	00000000
PO1	F7F93B4E	47E95A3F	0	00000000	00000000
PO2	EFF2769C	8FD2B47E	0	190DD5B0	00000001
P11	1200989B	1FA568FC	0	E6F22A4F	00000000
P11	F1E585D4	3F4AD1F9	0	190DD5B0	00000001
P11	15E6B70A	7E95A3F2	0	E6F22A4F	00000000
P11	F9B1C2B2	FD2B47E5	0	190DD5B0	00000001
P11	257F30C7	FA568FCA	0	E6F22A4F	00000000
P11	18E2B62D	F4AD1F94	0	E6F22A4F	00000000
P11	FFA9C0F9	E95A3F29	0	190DD5B0	00000001
P11	316F2D55	D2B47E52	0	E6F22A4F	00000000
P11	30C2AF49	A568FCA4	0	E6F22A4F	00000000
P11	2F69B331	4AD1F948	0	E6F22A4F	00000000
P11	2CB7B800	95A3F29D	0	E6F22A4F	00000000
P11	2753CA9F	2B47E520	0	E6F22A4F	00000000
P11	1C8BE9DC	568FCA40	0	E6F22A4F	00000000
P11	06FC2856	AD1F9480	0	E6F22A4F	00000000
P11	DBDCA54B	5A3F2901	0	190DD5B0	00000001
P11	E9D4F5F8	B47E5203	0	190DD5B0	00000001
P11	05C59753	68FCA406	0	E6F22A4F	00000000
P11	D96F8344	D1F9480D	0	190DD5B0	00000001
P11	E4FAB1EB	A3F2901B	0	190DD5B0	00000001
P11	FC110F39	47E52037	0	190DD5B0	00000001
P11	2A3DC9D4	8FCA406E	0	E6F22A4F	00000000
P11	225FE847	1F9480DC	0	E6F22A4F	00000000
P11	12A4252C	3F2901B8	0	E6F22A4F	00000000
P11	F32C9EF6	7E520371	0	190DD5B0	00000001
P11	1874E94E	FCA406E2	0	E6F22A4F	00000000
P11	FECE2738	F9480DC5	0	190DD5B0	00000001
P11	2FB7F9D9	F2901B8A	0	E6F22A4F	00000000
P11	2D544851	E5203714	0	E6F22A4F	00000000
P11	288CE541	CA406E28	0	E6F22A4F	00000000
P11	1EFE1F21	9480DC50	0	E6F22A4F	00000000

229

SIGMA LOGIC SIMULATION, DW , CASE 006B

TIME	A REGISTER	B REGISTER BC31	D REGISTER	CS REGISTER
P11	08E09RE1	290188A0 0	E6F22A4F	00000000
P11	F2D2BD30	52037141 0	190DD5B0	00000001
P19	F2D2BD30	52037141 0	190DD5B0	00000000
P14	52037141	52037141 0	00000000	00000000
P15	52037141	52037141 0	00000000	00000000

230

SIGMA LOGIC SIMULATION, DW , CASE 0066

TIME	A REGISTER	B REGISTER BC31	D REGISTER	CS REGISTER
PPR	AE58B190	00000000 0	00000000	00000000
PO1	F29405E9	AE58B190 0	00000000	00000000
PO2	E5280BD3	5C816320 0	690B7C52	00000000
P11	9C67104A	B962C641 0	96F483AD	00000001
P11	66B727F1	72C58C83 0	96F483AD	00000001
P11	F857573E	E58B1906 0	690B7C52	00000000
P11	C8C5A721	C816320D 0	96F483AD	00000001
P11	BF74559F	962C641B 0	96F483AD	00000001
P11	ACD1829B	2C58C837 0	96F483AD	00000001
P11	878C6C92	58B1906F 0	96F483AD	00000001
P11	3D01E080	B16320DF 0	96F483AD	00000001
P11	A7ECC85D	62C641BE 0	690B7C52	00000000
P11	21F0895E	C58C837D 0	96F483AD	00000001
P11	71CA1A19	8B1906FA 0	690B7C52	00000000
P11	B5AB2C07	16320DF4 0	690B7C52	00000000
P11	3D6D5252	2C641BE9 0	96F483AD	00000001
P11	A8C3AC00	58C837D2 0	690B7C52	00000000
P11	239E30A4	B1906FA5 0	96F483AD	00000001
P11	7525A8A5	6320DF4A 0	690B7C52	00000000
P11	BC6249EE	C641BE94 0	690B7C52	00000000
P11	4ADB8C81	8C837D29 0	96F483AD	00000001
P11	C3A0205F	1906FA52 0	690B7C52	00000000
P11	59573962	320DF4A5 0	96F483AD	00000001
P11	E0977A20	641BE94A 0	690B7C52	00000000
P11	9345ECE4	C837D295 0	96F483AD	00000001
P11	5474E125	906FA52B 0	96F483AD	00000001
P11	D6D2C9A7	20DF4A56 0	690B7C52	00000000
P11	7FBC8BF2	41BE94AD 0	96F483AD	00000001
P11	2D621F40	837D295B 0	96F483AD	00000001
P11	88AD45DD	06FA52B6 0	690B7C52	00000000
P11	E371845E	0DF4A56C 0	690B7C52	00000000
P11	98FA0160	1BE94AD9 0	96F483AD	00000001
P11	5FD00A1C	37D295B3 0	96F483AD	00000001

TIME	A REGISTER	SIGMA LOGIC SIMULATION, DW , CASE 0066			231
		B REGISTER BC31		D REGISTER	CS REGISTER
P11	EDA31894	6FA52B66	0	690B7C52	00000000
P11	56AE97E6	DF4A56CD	0	96F483AD	00000001
P13	EDA31894	DF4A56CD	0	96F483AD	00000000
P14	DF4A56CD	DF4A56CD	0	00000000	00000001
P15	DF4A56CE	DF4A56CD	0	00000000	00000000

TIME	A REGISTER	SIGMA LOGIC SIMULATION, DW , CASE 0067			232
		B REGISTER BC31		D REGISTER	CS REGISTER
PPR	C237DAC1	00000000	0	00000000	00000000
PO1	2D3297C8	C237DAC1	0	00000000	00000000
PO2	5A652F91	846FB582	0	88ACDE98	00000001
P11	C6241C55	08DF6804	0	77532167	00000000
P11	7AEE7B78	11BED609	0	88ACDE98	00000001
P11	0736B422	237DAC13	0	88ACDE98	00000001
P11	1FC72576	46FB5826	0	77532167	00000000
P11	2E348DBA	8DF6B04C	0	77532167	00000000
P11	4B0F5E43	1BED6098	0	77532167	00000000
P11	84C4FFB4	37DAC130	0	77532167	00000000
P11	F8304176	6FB58260	0	77532167	00000000
P11	DF06C5BA	DF6B04C1	0	88ACDE98	00000001
P11	CF6748A7	BED60983	0	88ACDF98	00000001
P11	B0284E81	7DAC1307	0	88ACDE98	00000001
P11	71AA5A34	FB58260F	0	88ACDE98	00000001
P11	F4AE719B	F6B04C1E	0	77532167	00000000
P11	D8032605	ED60983D	0	88ACDE98	00000001
P11	C160093D	DAC1307B	0	88ACDE98	00000001
P11	9419CFAD	B58260F7	0	88ACDE98	00000001
P11	398D5C8D	6B04C1EF	0	88ACDE98	00000001
P11	8474764C	D6C983DE	0	77532167	00000000
P11	F78F2F67	AC1307BC	0	77532167	00000000
P11	DDC4A19D	58260F79	0	88ACDE98	00000001
P11	CCE3006C	B04C1EF3	0	88ACDE98	00000001
P11	AB1FBE0B	60983DE7	0	88ACDE98	00000001
P11	67993948	C1307BCF	0	88ACDE98	00000001
P11	EC8C2FC3	8260F79E	0	77532167	00000000
P11	AFBEA255	04C1EF3D	0	88ACDE98	00000001
P11	705701DC	0983DE7B	0	88ACDE98	00000001
P11	F307CCEA	1307BCF6	0	77532167	00000000
P11	D4B5C4A2	26CF79ED	0	88ACDE98	00000001
P11	BAC54676	4C1EF3DB	0	88ACDE98	00000001
P11	86E44A1E	983DE7B7	0	88ACDE98	00000001

TIME	A REGISTER	SIGMA LOGIC SIMULATION, DW , CASE 0067			233
		B REGISTER BC31	D REGISTER	CS REGISTER	
P11	1F22516F	307BCF6F	0	88ACDE98	00000001
P11	A7CF3008	60F79EDE	0	7753E167	00000000
P13	1F22516F	60F79EDE	0	7753E167	00000000
P14	60F79EDE	60F79EDE	0	00000000	00000000
P15	60F79EDE	60F79EDE	0	00000000	00000000

TIME	A REGISTER	SIGMA LOGIC SIMULATION, DW , CASE 0068			234
		B REGISTER BC31	D REGISTER	CS REGISTER	
PPR	446E28CA	00000000	0	00000000	00000000
PC1	FAC41382	446E28CA	0	00000000	00000000
PO2	F5882704	88DC5194	0	1F0380E3	00000001
P11	29174FD1	1188A328	0	E0FC7F1C	00000000
P11	142790DA	23714650	0	E0FC7F1C	00000000
P11	EA4839EC	46E28CA1	0	1F0380E3	00000001
P11	129775A0	8DC51942	0	E0FC7F1C	00000000
P11	E727E979	188A3285	0	1F0380E3	00000001
P11	0C56D48A	3714650A	0	E0FC7F1C	00000000
P11	DAA6A7AC	6E28CA15	0	1F0380E3	00000001
P11	F3545120	DC51942B	0	1F0380E3	00000001
P11	24AFA409	88A32856	0	E0FC7F1C	00000000
P11	0B58464B	714650AC	0	E0FC7F1C	00000000
P11	D8A98ACE	E28CA159	0	1F0380E3	00000001
P11	EF5A1765	C51942B3	0	1F0380E3	00000001
P11	1CBB3C93	8A328566	0	E0FC7F1C	00000000
P11	FB6F5F5F	14650ACD	0	1F0380E3	00000001
P11	34E5CC86	28CA159A	0	E0FC7F1C	00000000
P11	28C47F44	51942B34	0	E0FC7F1C	00000000
P11	1981FCC0	A3285668	0	E0FC7F1C	00000000
P11	F4FCF7B9	4650ACD1	0	1F0380E3	00000001
P11	2800F13A	8CA159A2	0	E0FC7F1C	00000000
P11	11FAEQAD	1942B344	0	E0FC7F1C	00000000
P11	E5EEBF92	32856689	0	1F0380E3	00000001
P11	09E480EC	650ACD12	0	E0FC7F1C	00000000
P11	D5C20010	CA159A25	0	1F0380E3	00000001
P11	E98B01E9	942B344B	0	1F0380E3	00000001
P11	111D059B	28566896	0	E0FC7F1C	00000000
P11	E433G96E	50ACD12D	0	1F0380E3	00000001
P11	066D1444	A159A25A	0	E0FC7F1C	00000000
P11	CED32781	42B344B5	0	1F0380E3	00000001
P11	DBAD50CA	8566896B	0	1F0380E3	00000001
P11	F561A35D	0ACD12D7	0	1F0380E3	00000001

235

TIME	A REGISTER	SIGMA LOGIC SIMULATION, DW, CASE 0068		D REGISTER	CS REGISTER
		B REGISTER	BC31		
P11	28CA4882	159A25AE	0	E0FC7F1C	00000000
P11	09C6C79E	2B344B5C	0	E0FC7F1C	00000000
P13	EAC3468A	2B344B5C	0	E0FC7F1C	00000000
P14	2B344B5C	2B344B5C	0	00000000	00000000
P15	2B344B5C	2B344B5C	0	00000000	00000000

236

TIME	A REGISTER	SIGMA LOGIC SIMULATION, DW, CASE 0069		D REGISTER	CS REGISTER
		B REGISTER	BC31		
PPR	3D7182C6	00000000	0	00000000	00000000
P01	253F7EA9	3D7182C6	0	00000000	00000000
P02	4A7EFD52	7AE3058C	0	984A39EF	00000001
P11	C5926E84	F5C60B18	0	67B5C610	00000000
P11	5A906929	EB8C1631	0	984A39EF	00000001
P11	E5654633	D7182C62	0	67B5C610	00000000
P11	9AD61887	AE3058C5	0	984A39EF	00000001
P11	6640A4EF	5C60B18B	0	984A39EF	00000001
P11	FD15BDBE	B8C16316	0	67B5C610	00000000
P11	C997079D	7182C62D	0	984A39EF	00000001
P11	C3C2831A	E3058C5B	0	984A39EF	00000001
P11	B8197A15	C60B18B7	0	984A39EF	00000001
P11	A0C7680B	8C16316F	0	984A39EF	00000001
P11	722343F7	182C62DF	0	984A39EF	00000001
P11	14DAFBCE	3058C5BF	0	984A39EF	00000001
P11	5A4A6B7C	40B18B7E	0	67B5C610	00000000
P11	84006318	C16316FC	0	67B5C610	00000000
P11	D76C5251	82C62DF8	0	67B5C610	00000000
P11	7E4430C3	058C5BF1	0	984A39EF	00000001
P11	2D1CD566	0B18B7E3	0	984A39EF	00000001
P11	8ACE1EAC	16316FC6	0	67B5C610	00000000
P11	E507C978	2C62DF8C	0	67B5C610	00000000
P11	997B1F10	58C5BF19	0	984A39EF	00000001
P11	638AB200	B18B7E33	0	984A39EF	00000001
P11	F7A9D7E1	6316FC66	0	67B5C610	00000000
P11	BEBF3BE2	C62DF8CD	0	984A39EF	00000001
P11	AE12EBA5	8C5BF19B	0	984A39EF	00000001
P11	8CBA4B2B	18B7E337	0	984A39EF	00000001
P11	4A090A36	316FC66F	0	984A39EF	00000001
P11	C4A6884C	62DF8CDE	0	67B5C610	00000000
P11	58889CB8	C5BF198D	0	984A39EF	00000001
P11	E205AD51	8B7E337A	0	67B5C610	00000000
P11	9376E6C3	16FC66F5	0	984A39EF	00000001

TIME	A REGISTER	SIGMA LOGIC SIMULATION, DW , CASE 0069		237	
		B REGISTER BC31	D REGISTER	CS REGISTER	
P11	57824166	2DF8CDEB	0	984A39EF	00000001
P11	EFCC7B56	5BF19BD6	0	67B5C610	00000000
P13	57824166	5BF19BD6	0	67B5C610	00000000
P14	5BF19BD6	5BF19BD6	0	00000000	00000000
P15	5BF19BD6	5BF19BD6	0	00000000	00000000

TIME	A REGISTER	SIGMA LOGIC SIMULATION, DW , CASE 0070		238	
		B REGISTER BC31	D REGISTER	CS REGISTER	
PPR	9BAE1B05	00000000	0	00000000	00000000
PO1	1358DF7D	9BAE1B05	0	00000000	00000000
PO2	2687BEFB	375C360A	0	98467F3E	00000001
P11	7DFC7C74	6EB86C14	0	67B980C1	00000000
P11	CB6BFA6A	DD70D828	0	67B980C1	00000000
P11	664AF657	8AE1B051	0	98467F3E	00000001
P11	FD22EB2D	75C360A2	0	67B980C1	00000000
P11	C988D7DC	EB86C145	0	98467F3E	00000001
P11	C3FEAE37	D70D828B	0	98467F3E	00000001
P11	B88A5AED	AE1B0517	0	98467F3E	00000001
P11	A1A1B459	5C360A2F	0	98467F3E	00000001
P11	73D06730	B86C145F	0	98467F3E	00000001
P11	182DCCDF	70D8288F	0	98467F3E	00000001
P11	60E8983C	E1B0517E	0	67B980C1	00000000
P11	914431FB	C360A2FC	0	67B980C1	00000000
P11	F1FB6579	86C145F8	0	67B980C1	00000000
P11	5369CC75	0D828BF1	0	98467F3E	00000001
P11	97609768	1B0517E3	0	98467F3E	00000001
P11	5F4E2D4E	360A2FC7	0	98467F3E	00000001
P11	EF29591A	6C145F8E	0	67B980C1	00000000
P11	ADC8B386	D828BF1D	0	98467F3E	00000001
P11	8C1865EB	80517E3B	0	98467F3E	00000001
P11	48B0CA55	60A2FC77	0	98467F3E	00000001
P11	C2089328	C145F8EE	0	67B980C1	00000000
P11	538427D3	828BF1DD	0	98467F3E	00000001
P11	D7954E25	0517E3BA	0	67B980C1	00000000
P11	7E9D9DCC	0A2FC775	0	98467F3E	00000001
P11	2DC83A16	145F8EEB	0	98467F3E	00000001
P11	8C1D72AA	28BF1DD6	0	67B980C1	00000000
P11	E7ADE6D6	517E38AC	0	67B980C1	00000000
P11	9ECECF2E	A2FC7759	0	98467F3E	00000001
P11	6E2A9CDB	45F8EEB3	0	98467F3E	00000001
P11	OCE23834	8BF1DD67	0	98467F3E	00000001

TIME	A REGISTER	SIGMA LOGIC SIMULATION, DW , CASE 0070			239
		B REGISTER BC31	D REGISTER	CS REGISTER	
P11	4A516EE7	17E3BACE	0	67B980C1	00000000
P11	B20AEFAR	2FC7759C	0	67B980C1	00000000
P13	19C47069	2FC7759C	0	67B980C1	00000000
P14	2FC7759C	2FC7759C	0	00000000	00000000
P15	2FC7759C	2FC7759C	0	00000000	00000000

TIME	A REGISTER	SIGMA LOGIC SIMULATION, DW , CASE 0071			240
		B REGISTER BC31	D REGISTER	CS REGISTER	
PPR	59D73C28	00000000	0	00000000	00000000
PC1	00000000	59D73C28	0	00000000	00000000
P02	00000000	B3AE7850	0	D9EF9A8C	00000001
P11	B3DF351B	67B980C1	0	26106573	00000000
P11	B3DF351C	CEB9E140	0	26106573	00000000
P11	B3DF351F	9C73C280	0	26106573	00000000
P11	B3DF3525	3AE78500	0	26106573	00000000
P11	B3DF3530	75CF0A00	0	26106573	00000000
P11	B3DF3546	EB9E1400	0	26106573	00000000
P11	B3DF3573	073C2800	0	26106573	00000000
P11	B3DF35CD	AE785000	0	26106573	00000000
P11	B3DF3681	5CF0A000	0	26106573	00000000
P11	B3DF37E8	B9E14000	0	26106573	00000000
P11	B3DF3AB7	73C28000	0	26106573	00000000
P11	B3DF4054	E7850000	0	26106573	00000000
P11	B3DF488F	CF0A0000	0	26106573	00000000
P11	B3DF6205	9E140000	0	26106573	00000000
P11	B3DF8EF1	3C280000	0	26106573	00000000
P11	B3DFE8C8	78500000	0	26106573	00000000
P11	B3E09C76	F0A00000	0	26106573	00000000
P11	B3E20303	E1400000	0	26106573	00000000
P11	B3E4D280	C2800000	0	26106573	00000000
P11	B3EA7001	85000000	0	26106573	00000000
P11	B3F5AAE9	0A000000	0	26106573	00000000
P11	B40C20B8	14000000	0	26106573	00000000
P11	B4390C56	28000000	0	26106573	00000000
P11	B492E392	50000000	0	26106573	00000000
P11	B546920A	A0000000	0	26106573	00000000
P11	B6ADEEFB	40C00000	0	26106573	00000000
P11	B97CA8DC	80000000	0	26106573	00000000
P11	BF1A1C9F	00000000	0	26106573	00000000
P11	CA550424	00C00000	0	26106573	00000000
P11	E0CAD32E	00000000	0	26106573	00000000

241

TIME	A REGISTER	SIGMA LOGIC SIMULATION, DW , CASE 0071		D REGISTER	CS REGISTER
		B REGISTER BC31			
P11	0DB67142	00000001	0	D9EF9A8C	00000001
P11	E7A60BCF	00000002	0	26106573	00000000
P13	0DB67142	00000002	0	26106573	00000000
P14	00000002	00000002	0	00000000	00000000
P15	00000002	00000002	0	00000000	00000000

242

TIME	A REGISTER	SIGMA LOGIC SIMULATION, DW , CASE 0072		D REGISTER	CS REGISTER
		B REGISTER BC31			
PPR	CD2A3C71	00000000	0	00000000	00000000
P01	00000000	CD2A3C71	0	00000000	00000000
P02	00000001	9A5478E2	0	0E5C37BD	FFFFFFFF
P11	1CB86F7B	34A8F1C4	0	F1A3C842	00000000
P11	1CB86F7A	6951E388	0	F1A3C842	00000000
P11	1CB86F78	D2A3C710	0	F1A3C842	00000000
P11	1CB86F75	A5478E20	0	F1A3C842	00000000
P11	1CB86F6F	4A8F1C40	0	F1A3C842	00000000
P11	1CB86F62	951E3880	0	F1A3C842	00000000
P11	1CB86F49	2A3C7100	0	F1A3C842	00000000
P11	1CB86F16	5478E200	0	F1A3C842	00000000
P11	1CB86E80	A8F1C400	0	F1A3C842	00000000
P11	1CB86DE5	51E38800	0	F1A3C842	00000000
P11	1CB86C4E	A3C71000	0	F1A3C842	00000000
P11	1CB86921	478E2000	0	F1A3C842	00000000
P11	1CB862C6	8F1C4000	0	F1A3C842	00000000
P11	1CB85611	1E388000	0	F1A3C842	00000000
P11	1CB83CA6	3C710000	0	F1A3C842	00000000
P11	1CB809D0	78E20000	0	F1A3C842	00000000
P11	1CB7A424	F1C40000	0	F1A3C842	00000000
P11	1CB6D8CD	E3880000	0	F1A3C842	00000000
P11	1CB5421F	C7100000	0	F1A3C842	00000000
P11	1CB214C3	8E200000	0	F1A3C842	00000000
P11	1CABBA0B	1C400000	0	F1A3C842	00000000
P11	1C9F049A	38800000	0	F1A3C842	00000000
P11	1C8599B8	71000000	0	F1A3C842	00000000
P11	1C52C3F4	E2000000	0	F1A3C842	00000000
P11	1B8D186D	C4000000	0	F1A3C842	00000000
P11	1B21C15F	88000000	0	F1A3C842	00000000
P11	198B1343	10000000	0	F1A3C842	00000000
P11	165DB70A	20000000	0	F1A3C842	00000000
P11	1002FE98	40000000	0	F1A3C842	00000000
P11	034D8DB4	80000000	0	F1A3C842	00000000

245

TIME	A REGISTER	SIGMA LOGIC SIMULATION, DW , CASE 0073		D REGISTER	CS REGISTER
		B REGISTER BC31			
P11	00000003	1FFFFFFF	0	FFFFFFFD	00000001
P11	00000001	3FFFFFFF	0	FFFFFFFD	00000001
P13	00000001	3FFFFFFF	0	FFFFFFFD	00000000
P14	3FFFFFFF	3FFFFFFF	0	00000000	00000000
P15	3FFFFFFF	3FFFFFFF	0	00000000	00000000

246

TIME	A REGISTER	SIGMA LOGIC SIMULATION, DW , CASE 0074		D REGISTER	CS REGISTER
		B REGISTER BC31			
PPR	FC7CF1CC	00000000	0	00000000	00000000
P01	00000000	FC7CF1CC	0	00000000	00000000
P02	00000000	F8F9E398	0	42486CEA	FFFFFFF
P11	8490D9D3	F1F3C731	0	BDB79315	00000001
P11	8490D9D3	E3E78E63	0	BDB79315	00000001
P11	8490D9D3	C7CF1CC7	0	BDB79315	00000001
P11	8490D9D3	8F9E398F	0	BDB79315	00000001
P11	8490D9D3	1F3C731F	0	BDB79315	00000001
P11	8490D9D2	3E78E63F	0	BDB79315	00000001
P11	8490D9D0	7CF1CC7F	0	BDB79315	00000001
P11	8490D9CC	F9E398FF	0	BDB79315	00000001
P11	8490D9C5	F3C731FF	0	BDB79315	00000001
P11	8490D987	E78E63FF	0	BDB79315	00000001
P11	8490D998	CF1CC7FF	0	BDB79315	00000001
P11	8490D963	9E398FFF	0	BDB79315	00000001
P11	8490D8F3	3C731FFF	0	BDB79315	00000001
P11	8490D812	78E63FFF	0	BDB79315	00000001
P11	8490D650	F1CC7FFF	0	BDB79315	00000001
P11	8490D2CD	E398FFFF	0	BDB79315	00000001
P11	8490CB07	C731FFFF	0	BDB79315	00000001
P11	8490BDBB	8E63FFFF	0	BDB79315	00000001
P11	8490A1A3	1CC7FFFF	0	BDB79315	00000001
P11	84906972	398FFFFF	0	BDB79315	00000001
P11	848FF910	731FFFFF	0	BDB79315	00000001
P11	848F184C	E63FFFFF	0	BDB79315	00000001
P11	848D56C5	CC7FFFFF	0	BDB79315	00000001
P11	8489D387	98FFFFF	0	BDB79315	00000001
P11	8482CD98	31FFFFF	0	BDB79315	00000001
P11	8474C162	63FFFFF	0	BDB79315	00000001
P11	8458A8F0	C7FFFFF	0	BDB79315	00000001
P11	8420780D	8FFFFF	0	BDB79315	00000001
P11	83801647	1FFFFF	0	BDB79315	00000001
P11	82CF52BA	3FFFFF	0	BDB79315	00000001

TIME	A REGISTER	SIGMA LOGIC SIMULATION, DW, CASE 0074		D REGISTER	247
		B REGISTER BC31			CS REGISTER
P11	810DCBA0	7FFFFFFF	0	BDB79315	00000001
P11	3EC58EB6	FFFFFFFF	0	BDE79315	00000001
P13	FC7CF1CC	FFFFFFFF	0	BDB79315	00000000
P14	FFFFFFFF	FFFFFFFF	0	00000000	00000001
P15	00000000	FFFFFFFF	0	00000000	00000000

TIME	A REGISTER	SIGMA LOGIC SIMULATION, DW, CASE 0075		D REGISTER	248
		B REGISTER BC31			CS REGISTER
PPR	475E3AF9	00000000	0	00000000	00000000
PO1	00000000	475E3AF9	0	00000000	00000000
PO2	00000000	8EBC75F2	0	D3894EAF	00000001
P11	A7129D61	1D78EBE4	0	2C76B150	00000000
P11	A7129D62	3AF1D7C8	0	2C76B150	00000000
P11	A7129D64	75E3AF90	0	2C76B150	00000000
P11	A7129D68	EBC75F20	0	2C76B150	00000000
P11	A7129D71	D78EBE40	0	2C76B150	00000000
P11	A7129D83	AF1D7C80	0	2C76B150	00000000
P11	A7129DA7	5E3AF900	0	2C76B150	00000000
P11	A7129DEE	BC75F200	0	2C76B150	00000000
P11	A7129E7D	78EBE400	0	2C76B150	00000000
P11	A7129F9A	F1D7C800	0	2C76B150	00000000
P11	A712A105	E3AF9000	0	2C76B150	00000000
P11	A712A64B	C75F2000	0	2C76B150	00000000
P11	A712AF37	8EBE4000	0	2C76B150	00000000
P11	A712C10F	1D7C8000	0	2C76B150	00000000
P11	A712E4BE	3AF90000	0	2C76B150	00000000
P11	A7132C1C	75F20000	0	2C76B150	00000000
P11	A713BAD8	EBE40000	0	2C76B150	00000000
P11	A7140851	D7C80000	0	2C76B150	00000000
P11	A7171343	AF900000	0	2C76B150	00000000
P11	A71B8927	5F200000	0	2C76B150	00000000
P11	A72474EE	BE400000	0	2C76B150	00000000
P11	A7364C7D	7C800000	0	2C76B150	00000000
P11	A759FB9A	F9000000	0	2C76B150	00000000
P11	A7A159D5	F2000000	0	2C76B150	00000000
P11	A83C164E	E4000000	0	2C76B150	00000000
P11	A94D8F37	C8000000	0	2C76B150	00000000
P11	AB88810F	90000000	0	2C76B150	00000000
P11	AFFE64BF	20000000	0	2C76B150	00000000
P11	B8EA2C1E	40000000	0	2C76B150	00000000
P11	CAC1BADC	80000000	0	2C76B150	00000000

TIME	A REGISTER	SIGMA LOGIC SIMULATION, DW, CASE 0075		D REGISTER	CS REGISTER
		B REGISTER BC31			
P11	EE70D859	00000000	0	2C7681E0	00000000
P11	1AE789A9	00000001	0	D3894EAF	00000001
P13	1AE789A9	00000001	0	D3894EAF	00000000
P14	00000001	00000001	0	00000000	00000000
P15	00000001	00000001	0	00000000	00000000

TIME	A REGISTER	SIGMA LOGIC SIMULATION, DW, CASE 0076		D REGISTER	CS REGISTER
		B REGISTER BC31			
PPR	D1F375DB	00000000	0	00000000	00000000
PO1	00000000	D1F375DB	0	00000000	00000000
PO2	00000000	A3E6EBB6	0	00004444	FFFFFFFF
P11	00008887	47CDD76D	0	FFFFFFBB	00000001
P11	00008886	8F9BAEDB	0	FFFFFFBB	00000001
P11	00008885	1F375DB7	0	FFFFFFBB	00000001
P11	00008882	3E6EBB6F	0	FFFFFFBB	00000001
P11	0000887C	7CDD76DF	0	FFFFFFBB	00000001
P11	00008870	F9BAEDBF	0	FFFFFFBB	00000001
P11	00008859	F375DB7F	0	FFFFFFBB	00000001
P11	0000882B	E6EBB6FF	0	FFFFFFBB	00000001
P11	000087CF	CDD76DFF	0	FFFFFFBB	00000001
P11	00008717	9BAEDBFF	0	FFFFFFBB	00000001
P11	000085A7	375DB7FF	0	FFFFFFBB	00000001
P11	000082C6	6EBB6FFF	0	FFFFFFBB	00000001
P11	00007D04	DD76DFFF	0	FFFFFFBB	00000001
P11	00007181	BAEDBFFF	0	FFFFFFBB	00000001
P11	00005A7B	75DB7FFF	0	FFFFFFBB	00000001
P11	00002C6E	EBB6FFFF	0	FFFFFFBB	00000001
P11	FFFFD055	D76DFFFE	0	00004444	00000000
P11	00002933	AEDBFFFD	0	FFFFFFBB	00000001
P11	FFFFC9DF	5DB7FFFA	0	00004444	00000000
P11	00001C46	BB6FFFF5	0	FFFFFFBB	00000001
P11	FFFFB005	76DFFFEA	0	00004444	00000000
P11	FFFFE892	EDBFFFD4	0	00004444	00000000
P11	000059AD	DB7FFFA9	0	FFFFFFBB	00000001
P11	00002AD3	B6FFFF53	0	FFFFFFBB	00000001
P11	FFFFC01F	6DFFFEA6	0	00004444	00000000
P11	000022C6	DBFFFD4D	0	FFFFFFBB	00000001
P11	FFFFB005	B7FFFA9A	0	00004444	00000000
P11	00000293	6FFFF535	0	FFFFFFBB	00000001
P11	FFFF7C9E	DFFFEA6A	0	00004444	00000000
P11	FFFF81C5	BFFFD4D4	0	00004444	00000000

TIME	A REGISTER	SIGMA LOGIC SIMULATION, DW , CASE 0076			251
		B REGISTER BC31		D REGISTER	CS REGISTER
P11	FFFFBC13	7FFFA9AB	0	00004444	00000000
P11	FFFFD057	FFFF5350	0	00004444	00000000
P13	FFFFD057	FFFF5350	0	00004444	00000000
P14	FFFF5350	FFFF5350	0	00000000	00000001
P15	FFFF5351	FFFF5350	0	00000000	00000000

TIME	A REGISTER	SIGMA LOGIC SIMULATION, DW , CASE 0077			252
		B REGISTER BC31		D REGISTER	CS REGISTER
PPR	7FFFFFFF	00000000	0	00000000	00000000
P01	00000000	7FFFFFFF	0	00000000	00000000
P02	00000000	FFFFFFFE	0	80000000	00000001
P11	00000003	FFFFFFFC	0	7FFFFFFF	00000000
P11	00000005	FFFFFFF8	0	7FFFFFFF	00000000
P11	00000009	FFFFFFF0	0	7FFFFFFF	00000000
P11	00000011	FFFFFFE0	0	7FFFFFFF	00000000
P11	00000021	FFFFFFC0	0	7FFFFFFF	00000000
P11	00000041	FFFFFF80	0	7FFFFFFF	00000000
P11	00000081	FFFFFF00	0	7FFFFFFF	00000000
P11	00000101	FFFFFFE0	0	7FFFFFFF	00000000
P11	00000201	FFFFFFC0	0	7FFFFFFF	00000000
P11	00000401	FFFFFF80	0	7FFFFFFF	00000000
P11	00000801	FFFFFF00	0	7FFFFFFF	00000000
P11	00001001	FFFFFF00	0	7FFFFFFF	00000000
P11	00002001	FFFFC000	0	7FFFFFFF	00000000
P11	00004001	FFFF8000	0	7FFFFFFF	00000000
P11	00008001	FFFF0000	0	7FFFFFFF	00000000
P11	00010001	FFFE0000	0	7FFFFFFF	00000000
P11	00020001	FFFC0000	0	7FFFFFFF	00000000
P11	00040001	FFF80000	0	7FFFFFFF	00000000
P11	00080001	FFF00000	0	7FFFFFFF	00000000
P11	00100001	FFE00000	0	7FFFFFFF	00000000
P11	00200001	FFC00000	0	7FFFFFFF	00000000
P11	00400001	FF800000	0	7FFFFFFF	00000000
P11	00800001	FF000000	0	7FFFFFFF	00000000
P11	01000001	FE000000	0	7FFFFFFF	00000000
P11	02000001	FC000000	0	7FFFFFFF	00000000
P11	04000001	F8000000	0	7FFFFFFF	00000000
P11	08000001	F0000000	0	7FFFFFFF	00000000
P11	10000001	E0000000	0	7FFFFFFF	00000000
P11	20000001	C0000000	0	7FFFFFFF	00000000
P11	40000001	80000000	0	7FFFFFFF	00000000

255

SIGMA LOGIC SIMULATION, DW , CASE 0078

TIME	A REGISTER	B REGISTER BC31	D REGISTER	CS REGISTER
P11	FFFFFFF9	7FFFFFFC 0	00000004	00000000
P11	FFFFFFFD	FFFFFFF8 0	00000004	00000000
P13	FFFFFFFD	FFFFFFF8 0	00000004	00000000
P14	FFFFFFF8	FFFFFFF8 0	00000000	00000001
P15	FFFFFFF9	FFFFFFF8 0	00000000	00000000

256

SIGMA LOGIC SIMULATION, DW , CASE 0079

TIME	A REGISTER	B REGISTER BC31	D REGISTER	CS REGISTER
PPR	000396FC	00000000 0	00000000	00000000
PO1	00000000	000396FC 0	00000000	00000000
PO2	00000000	1A072DF8 0	AAAAAAAA	00000001
P11	55555556	340E5BF0 0	55555555	00000000
P11	55555556	681CB7E0 0	55555555	00000000
P11	55555556	D0396FC0 0	55555555	00000000
P11	55555557	A072DF80 0	55555555	00000000
P11	55555559	40E5BF00 0	55555555	00000000
P11	5555555C	81CB7E00 0	55555555	00000000
P11	55555563	0396FC00 0	55555555	00000000
P11	55555570	072DF800 0	55555555	00000000
P11	5555558A	0E5BF000 0	55555555	00000000
P11	5555558E	1CB7E000 0	55555555	00000000
P11	55555626	396FC000 0	55555555	00000000
P11	555556F6	72DF8000 0	55555555	00000000
P11	55555896	E5BF0000 0	55555555	00000000
P11	55555BD7	CB7E0C00 0	55555555	00000000
P11	55556259	96FC0000 0	55555555	00000000
P11	55556F5D	2DF80000 0	55555555	00000000
P11	55558964	5BF00C00 0	55555555	00000000
P11	5555BD72	B7E00000 0	55555555	00000000
P11	5556258F	6FC00000 0	55555555	00000000
P11	5556F5C8	DF800000 0	55555555	00000000
P11	5558963B	BF000000 0	55555555	00000000
P11	5558D721	7E000000 0	55555555	00000000
P11	556258EC	FC000000 0	55555555	00000000
P11	556F5C83	F8000000 0	55555555	00000000
P11	558963B1	F0000000 0	55555555	00000000
P11	55BD72C0	E0000000 0	55555555	00000000
P11	56258EC5	C0000000 0	55555555	00000000
P11	56F5C835	80000000 0	55555555	00000000
P11	58963B15	00000000 0	55555555	00000000
P11	5BD72C04	00000000 0	55555555	00000000

TIME	A REGISTER	SIGMA LOGIC SIMULATION, DW , CASE 0079		257
		B REGISTER BC31	D REGISTER	CS REGISTER
P11	6258EC52	00000000	0 55555555	00000000
P11	B7AE41A7	00000000	0 55555555	00000000
P13	000396FC	00000000	0 55555555	00000000
P14	00000000	00000000	0 00000000	00000000
P15	00000000	00000000	0 00000000	00000000

TIME	A REGISTER	SIGMA LOGIC SIMULATION, DW , CASE 0080		258
		B REGISTER BC31	D REGISTER	CS REGISTER
PPR	80000001	00000000	0 00000000	00000000
P01	00000000	80000001	0 00000000	00000000
P02	00000001	00000002	0 00000005	FFFFFFF
P11	0000000A	00000004	0 FFFFFFFA	00000000
P11	00000008	00000008	0 FFFFFFFA	00000000
P11	00000004	00000010	0 FFFFFFFA	00000000
P11	FFFFFFFC	00000021	0 00000005	00000001
P11	00000004	00000042	0 FFFFFFFA	00000000
P11	FFFFFFFC	00000085	0 00000005	00000001
P11	00000004	0000010A	0 FFFFFFFA	00000000
P11	FFFFFFFC	00000215	0 00000005	00000001
P11	00000004	0000042A	0 FFFFFFFA	00000000
P11	FFFFFFFC	00000855	0 00000005	00000001
P11	00000004	000010AA	0 FFFFFFFA	00000000
P11	FFFFFFFC	00002155	0 00000005	00000001
P11	00000004	000042AA	0 FFFFFFFA	00000000
P11	FFFFFFFC	00008555	0 00000005	00000001
P11	00000004	00010AAA	0 FFFFFFFA	00000000
P11	FFFFFFFC	00021555	0 00000005	00000001
P11	00000004	00042AAA	0 FFFFFFFA	00000000
P11	FFFFFFFC	00085555	0 00000005	00000001
P11	00000004	0010AAAA	0 FFFFFFFA	00000000
P11	FFFFFFFC	00215555	0 00000005	00000001
P11	00000004	0042AAAA	0 FFFFFFFA	00000000
P11	FFFFFFFC	00855555	0 00000005	00000001
P11	00000004	010AAAAA	0 FFFFFFFA	00000000
P11	FFFFFFFC	02155555	0 00000005	00000001
P11	00000004	042AAAAA	0 FFFFFFFA	00000000
P11	FFFFFFFC	08555555	0 00000005	00000001
P11	00000004	10AAAAAA	0 FFFFFFFA	00000000
P11	FFFFFFFC	21555555	0 00000005	00000001
P11	00000004	42AAAAAA	0 FFFFFFFA	00000000
P11	FFFFFFFC	85555555	0 00000005	00000001

TIME	A REGISTER	SIGMA LOGIC SIMULATION, DM , CASE 0001			261
		B REGISTER BC31	D REGISTER	CS REGISTER	
P11	00000001	1FFFFFFF	0	FFFFFFFE	00000001
P11	00000000	3FFFFFFF	0	FFFFFFFE	00000001
P13	00000000	3FFFFFFF	0	FFFFFFFE	00000000
P14	3FFFFFFF	3FFFFFFF	0	00000000	00000000
P15	3FFFFFFF	3FFFFFFF	0	00000000	00000000

TIME	A REGISTER	SIGMA LOGIC SIMULATION, DM , CASE 0002			262
		B REGISTER BC31	D REGISTER	CS REGISTER	
PFR	C0000000	00000000	0	00000000	00000000
PO1	00000000	C0000000	0	00000000	00000000
PO2	00000001	80000000	0	00000001	FFFFFFF
P11	00000003	00000000	0	FFFFFFFE	00000000
P11	00000002	00000000	0	FFFFFFFE	00000000
P11	00000000	00000000	0	FFFFFFFE	00000000
P11	FFFFFFFC	00000001	0	00000001	00000001
P11	FFFFFFFC	00000003	0	00000001	00000001
P11	FFFFFFFC	00000007	0	00000001	00000001
P11	FFFFFFFC	0000000F	0	00000001	00000001
P11	FFFFFFFC	0000001F	0	00000001	00000001
P11	FFFFFFFC	0000003F	0	00000001	00000001
P11	FFFFFFFC	0000007F	0	00000001	00000001
P11	FFFFFFFC	000000FF	0	00000001	00000001
P11	FFFFFFFC	000001FF	0	00000001	00000001
P11	FFFFFFFC	000003FF	0	00000001	00000001
P11	FFFFFFFC	000007FF	0	00000001	00000001
P11	FFFFFFFC	00000FFF	0	00000001	00000001
P11	FFFFFFFC	00001FFF	0	00000001	00000001
P11	FFFFFFFC	00003FFF	0	00000001	00000001
P11	FFFFFFFC	00007FFF	0	00000001	00000001
P11	FFFFFFFC	0000FFFF	0	00000001	00000001
P11	FFFFFFFC	00C1FFFF	0	00000001	00000001
P11	FFFFFFFC	0003FFFF	0	00000001	00000001
P11	FFFFFFFC	0007FFFF	0	00000001	00000001
P11	FFFFFFFC	000FFFFF	0	00000001	00000001
P11	FFFFFFFC	001FFFFF	0	00000001	00000001
P11	FFFFFFFC	003FFFFF	0	00000001	00000001
P11	FFFFFFFC	007FFFFF	0	00000001	00000001
P11	FFFFFFFC	00FFFFFF	0	00000001	00000001
P11	FFFFFFFC	01FFFFFF	0	00000001	00000001
P11	FFFFFFFC	03FFFFFF	0	00000001	00000001
P11	FFFFFFFC	07FFFFFF	0	00000001	00000001
P11	FFFFFFFC	0FFFFFFF	0	00000001	00000001
P11	FFFFFFFC	07FFFFFF	0	00000001	00000001

263

TIME	A REGISTER	SIGMA LOGIC SIMULATION, DH , CASE 0002		D REGISTER	CS REGISTER
		B REGISTER BC31			
P11	FFFFFFFC	0FFFFFFF	0	00000001	00000001
P11	FFFFFFFE	1FFFFFFF	0	00000001	00000001
P13	00000000	1FFFFFFF	0	00000001	00000000
P14	1FFFFFFF	1FFFFFFF	0	00000000	00000001
P15	20000000	1FFFFFFF	0	00000000	00000000

264

TIME	A REGISTER	SIGMA LOGIC SIMULATION, DH , CASE 0003		D REGISTER	CS REGISTER
		B REGISTER BC31			
PPR	AAAAAAAA	00000000	0	00000000	00000000
P01	00000000	AAAAAAAA	0	00000000	00000000
P02	00000000	55555554	0	00000001	FFFFFFF
P11	00000000	AAAAAAAA9	0	FFFFFFFE	00000001
P11	FFFFFFF	55555552	0	00000001	00000000
P11	00000000	AAAAAAAA5	0	FFFFFFFE	00000001
P11	FFFFFFF	5555554A	0	00000001	00000000
P11	00000000	AAAAAAAA95	0	FFFFFFFE	00000001
P11	FFFFFFF	5555552A	0	00000001	00000000
P11	00000000	AAAAAA55	0	FFFFFFFE	00000001
P11	FFFFFFF	555554AA	0	00000001	00000000
P11	00000000	AAAAA955	0	FFFFFFFE	00000001
P11	FFFFFFF	555552AA	0	00000001	00000000
P11	00000000	AAAAA555	0	FFFFFFFE	00000001
P11	FFFFFFF	5554AAA	0	00000001	00000000
P11	00000000	AAAA9555	0	FFFFFFFE	00000001
P11	FFFFFFF	5552AAA	0	00000001	00000000
P11	00000000	AAA5555	0	FFFFFFFE	00000001
P11	FFFFFFF	554AAAA	0	00000001	00000000
P11	00000000	AA95555	0	FFFFFFFE	00000001
P11	FFFFFFF	552AAA	0	00000001	00000000
P11	00000000	AA55555	0	FFFFFFFE	00000001
P11	FFFFFFF	54AAAA	0	00000001	00000000
P11	00000000	A955555	0	FFFFFFFE	00000001
P11	FFFFFFF	52AAAA	0	00000001	00000000
P11	00000000	A555555	0	FFFFFFFE	00000001
P11	FFFFFFF	4AAAA	0	00000001	00000000
P11	00000000	9555555	0	FFFFFFFE	00000001
P11	FFFFFFF	2AAAA	0	00000001	00000000

265

TIME	A REGISTER	SIGMA LOGIC SIMULATION, DM , CASE 0003		D REGISTER	CS REGISTER
		B REGISTER BC31			
P11	00000000	55555555	0	FFFFFFFE	00000001
P11	FFFFFFF7	AAAAAAAA	0	00000001	00000000
P13	00000000	AAAAAAAA	0	00000001	00000000
P14	AAAAAAAA	AAAAAAAA	0	00000000	00000000
P15	AAAAAAAA	AAAAAAAA	0	00000000	00000000

266

TIME	A REGISTER	SIGMA LOGIC SIMULATION, DM , CASE 0004		D REGISTER	CS REGISTER
		B REGISTER BC31			
PPR	25555555	00000000	0	00000000	00000000
P01	00000000	25555555	0	00000000	00000000
P02	00000000	4AAAAAAAA	0	FFFFFFFE	00000000
P11	FFFFFFFC	95555555	0	00000001	00000001
P11	FFFFFFFD	2AAAAAAAA	0	00000001	00000001
P11	FFFFFFFE	55555557	0	00000001	00000001
P11	00000000	AAAAAAAAE	0	FFFFFFFE	00000000
P11	FFFFFFFD	5555555D	0	00000001	00000001
P11	FFFFFFFE	AAAAAAB8	0	00000001	00000001
P11	00000001	55555576	0	FFFFFFFE	00000000
P11	FFFFFFFE	AAAAAAED	0	00000001	00000001
P11	00000001	555555DA	0	FFFFFFFE	00000000
P11	FFFFFFFE	AAAAAB85	0	00000001	00000001
P11	00000001	5555576A	0	FFFFFFFE	00000000
P11	FFFFFFFE	AAAAAED5	0	00000001	00000001
P11	00000001	55555DAA	0	FFFFFFFE	00000000
P11	FFFFFFFE	AAAAAB85	0	00000001	00000001
P11	00000001	555576AA	0	FFFFFFFE	00000000
P11	FFFFFFFE	AAAAED55	0	00000001	00000001
P11	00000001	5555DAAA	0	FFFFFFFE	00000000
P11	FFFFFFFE	AAAB8555	0	00000001	00000001
P11	00000001	55576AAA	0	FFFFFFFE	00000000
P11	FFFFFFFE	AAED5555	0	00000001	00000001
P11	00000001	555DAAA	0	FFFFFFFE	00000000
P11	FFFFFFFE	AAB85555	0	00000001	00000001
P11	00000001	5576AAA	0	FFFFFFFE	00000000
P11	FFFFFFFE	AAED5555	0	00000001	00000001
P11	00000001	55DAAA	0	FFFFFFFE	00000000
P11	FFFFFFFE	AB855555	0	00000001	00000001
P11	00000001	576AAAA	0	FFFFFFFE	00000000
P11	FFFFFFFE	AED55555	0	00000001	00000001
P11	00000001	5DAAAA	0	FFFFFFFE	00000000
P11	FFFFFFFE	BB555555	0	00000001	00000001

TIME	A REGISTER	SIGMA LOGIC SIMULATION, DH , CASE 0006		267
		B REGISTER BC31	D REGISTER	CS REGISTER
P11	00000001	76AAAAAA 0	FFFFFFF0	00000000
P11	FFFFFFF0	ED555555 0	00000001	00000001
P13	00000001	ED555555 0	00000001	00000000
P14	ED555555	ED555555 0	00000000	00000001
P15	ED555556	ED555555 0	00000000	00000000

TIME	A REGISTER	SIGMA LOGIC SIMULATION, DH , CASE 0008		268
		B REGISTER BC31	D REGISTER	CS REGISTER
PPR	3FFFFFFF	00000000 0	00000000	00000000
P01	00000000	3FFFFFFF 0	00000000	00000000
P02	00000000	7FFFFFFE 0	FFFBFFF	00000001
P11	FFFF8000	FFFFFFFC 0	00004000	00000000
P11	FFFF8001	FFFFFFF8 0	00004000	00000000
P11	FFFF8003	FFFFFFF0 0	00004000	00000000
P11	FFFF8007	FFFFFFE0 0	00004000	00000000
P11	FFFF800F	FFFFFFC0 0	00004000	00000000
P11	FFFF801F	FFFFFF80 0	00004000	00000000
P11	FFFF803F	FFFFFF00 0	00004000	00000000
P11	FFFF807F	FFFFE00 0	00004000	00000000
P11	FFFF80FF	FFFFC00 0	00004000	00000000
P11	FFFF81FF	FFFF800 0	00004000	00000000
P11	FFFF83FF	FFFF000 0	00004000	00000000
P11	FFFF87FF	FFFF000 0	00004000	00000000
P11	FFFF8FFF	FFFFC000 0	00004000	00000000
P11	FFFF9FFF	FFFF8000 0	00004000	00000000
P11	FFFFBFFF	FFFF0000 0	00004000	00000000
P11	FFFFFFF0	FFFE0000 0	00004000	00000000
P11	00007FFF	FFFC0001 0	FFFFBFFF	00000001
P11	00007FFF	FFF80003 0	FFFFBFFF	00000001
P11	00007FFF	FFF00007 0	FFFFBFFF	00000001
P11	00007FFF	FFE0000F 0	FFFFBFFF	00000001
P11	00007FFF	FFC0001F 0	FFFFBFFF	00000001
P11	00007FFF	FF80003F 0	FFFFBFFF	00000001
P11	00007FFF	FF00007F 0	FFFFBFFF	00000001
P11	00007FFF	FE0000FF 0	FFFFBFFF	00000001
P11	00007FFF	FC0001FF 0	FFFFBFFF	00000001
P11	00007FFF	F80003FF 0	FFFFBFFF	00000001
P11	00007FFF	F00007FF 0	FFFFBFFF	00000001
P11	00007FFF	E0000FFF 0	FFFFBFFF	00000001
P11	00007FFF	C0001FFF 0	FFFFBFFF	00000001
P11	00007FFF	80003FFF 0	FFFFBFFF	00000001

269

TIME	A REGISTER	SIGMA LOGIC SIMULATION, DM , CASE 0005		D REGISTER	CS REGISTER
		B REGISTER BC31			
P11	00007FFF	00007FFF	0	FFFFBFFF	00000001
P11	00003FFF	0000FFFF	0	FFFFBFFF	00000001
P13	00003FFF	0000FFFF	0	FFFFBFFF	00000000
P14	0000FFFF	0000FFFF	0	00000000	00000000
P15	0000FFFF	0000FFFF	0	00000000	00000000

270

TIME	A REGISTER	SIGMA LOGIC SIMULATION, DM , CASE 0006		D REGISTER	CS REGISTER
		B REGISTER BC31			
PPR	C0000000	00000000	0	00000000	00000000
P01	00000000	C0000000	0	00000000	00000000
P02	00000001	80000000	0	00004888	FFFFFFF
P11	00009111	00000000	0	FFFFB777	00000000
P11	00009110	00000000	0	FFFFB777	00000000
P11	0000910E	00000000	0	FFFFB777	00000000
P11	0000910A	00000000	0	FFFFB777	00000000
P11	00009102	00000000	0	FFFFB777	00000000
P11	000090F2	00000000	0	FFFFB777	00000000
P11	000090D2	00000000	0	FFFFB777	00000000
P11	00009092	00000000	0	FFFFB777	00000000
P11	00009012	00000000	0	FFFFB777	00000000
P11	00008F12	00000000	0	FFFFB777	00000000
P11	00008D12	00000000	0	FFFFB777	00000000
P11	00008B12	00000000	0	FFFFB777	00000000
P11	00008112	00000000	0	FFFFB777	00000000
P11	00007112	00000000	0	FFFFB777	00000000
P11	00005112	00000000	0	FFFFB777	00000000
P11	00001112	00000000	0	FFFFB777	00000000
P11	FFFF9112	00000001	0	00004888	00000001
P11	FFFFB336	00000003	0	00004888	00000001
P11	FFFFF77E	00000007	0	00004888	00000001
P11	0000800E	0000000E	0	FFFFB777	00000000
P11	00006F0A	0000001C	0	FFFFB777	00000000
P11	00004D02	00000038	0	FFFFB777	00000000
P11	000008F2	00000070	0	FFFFB777	00000000
P11	FFFF80D2	000000E1	0	00004888	00000001
P11	FFFF9286	000001C3	0	00004888	00000001
P11	FFFFB67E	00000387	0	00004888	00000001
P11	FFFFE0E	0000070F	0	00004888	00000001
P11	00008D2E	00000E1E	0	FFFFB777	00000000
P11	0000894A	00001C3C	0	FFFFB777	00000000
P11	00008182	00003878	0	FFFFB777	00000000

TIME	A REGISTER	SIGMA LOGIC SIMULATION, DM , CASE 0006		D REGISTER	271
		B REGISTER BC31			CS REGISTER
P11	000071F2	000070F0	0	FFFFB777	00000000
P11	0000E969	0000E1E0	0	FFFFB777	00000000
P13	FFFFE0E0	0000E1E0	0	FFFFB777	00000000
P14	0000E1E0	0000E1E0	0	00000000	00000000
P15	0000E1E0	0000E1E0	0	00000000	00000000

TIME	A REGISTER	SIGMA LOGIC SIMULATION, DM , CASE 0007		D REGISTER	272
		B REGISTER BC31			CS REGISTER
PPR	AAAAAAAA	00000000	0	00000000	00000000
PO1	00000000	AAAAAAAA	0	00000000	00000000
PO2	00000000	55555554	0	00004000	FFFFFFF
P11	00007FFE	AAAAAAAAA9	0	FFFFBFFF	00000001
P11	00007FFD	55555553	0	FFFFBFFF	00000001
P11	00007FFA	AAAAAAAAA7	0	FFFFBFFF	00000001
P11	00007FF5	5555554F	0	FFFFBFFF	00000001
P11	00007FEA	AAAAAAAA9F	0	FFFFBFFF	00000001
P11	00007FD5	5555553F	0	FFFFBFFF	00000001
P11	00007FAA	AAAAAAAA7F	0	FFFFBFFF	00000001
P11	00007F55	555554FF	0	FFFFBFFF	00000001
P11	00007EAA	AAAAAAAA9FF	0	FFFFBFFF	00000001
P11	00007D55	555553FF	0	FFFFBFFF	00000001
P11	00007AAA	AAAAAAAA7FF	0	FFFFBFFF	00000001
P11	00007555	55554FFF	0	FFFFBFFF	00000001
P11	00006AAA	AAAAA9FFF	0	FFFFBFFF	00000001
P11	00005555	55553FFF	0	FFFFBFFF	00000001
P11	00002AAA	AAAA7FFF	0	FFFFBFFF	00000001
P11	FFFFD555	5554FFFE	0	00004000	00000000
P11	00002AAA	AAA9FFFD	0	FFFFBFFF	00000001
P11	FFFFD555	5553FFFA	0	00004000	00000000
P11	00002AAA	AAA7FFF5	0	FFFFBFFF	00000001
P11	FFFFD555	554FFFEA	0	00004000	00000000
P11	00002AAA	AA9FFFD5	0	FFFFBFFF	00000001
P11	FFFFD555	553FFFAA	0	00004000	00000000
P11	00002AAA	AA7FFF55	0	FFFFBFFF	00000001
P11	FFFFD555	54FFFEAA	0	00004000	00000000
P11	00002AAA	A9FFFD55	0	FFFFBFFF	00000001
P11	FFFFD555	53FFFAAA	0	00004000	00000000
P11	00002AAA	A7FFF555	0	FFFFBFFF	00000001
P11	FFFFD555	4FFFEAAA	0	00004000	00000000
P11	00002AAA	9FFFD555	0	FFFFBFFF	00000001
P11	FFFFD555	3FFFAAAA	0	00004000	00000000

273

TIME	A REGISTER	SIGMA LOGIC SIMULATION, OH , CASE 0007		D REGISTER	CS REGISTER
		B REGISTER	BC31		
P11	00002AAA	7FFF5555	0	FFFFBFFF	00000001
P11	FFFFEAAA	FFFEAAAA	0	00004000	00000000
P13	FFFFEAAA	FFFEAAAA	0	00004000	00000000
P14	FFFFEAAA	FFFEAAAA	0	00000000	00000001
P15	FFFFEAAAB	FFFEAAAA	0	00000000	00000000

274

TIME	A REGISTER	SIGMA LOGIC SIMULATION, OH , CASE 0008		D REGISTER	CS REGISTER
		B REGISTER	BC31		
PPR	25555555	00000000	0	00000000	00000000
P01	00000000	25555555	0	00000000	00000000
P02	00000000	4AAAAAAA	0	FFFFB777	00000000
P11	FFFF6EEE	95555555	0	00004888	00000001
P11	FFFF6EEF	2AAAAAAB	0	00004888	00000001
P11	FFFF6EF0	55555557	0	00004888	00000001
P11	FFFF6EF2	AAAAAAAF	0	00004888	00000001
P11	FFFF6EF7	5555555F	0	00004888	00000001
P11	FFFF6F00	AAAAAABF	0	00004888	00000001
P11	FFFF6F13	5555557F	0	00004888	00000001
P11	FFFF6F38	AAAAAAFF	0	00004888	00000001
P11	FFFF6F83	555555FF	0	00004888	00000001
P11	FFFF7018	AAAAABFF	0	00004888	00000001
P11	FFFF7143	55557FFF	0	00004888	00000001
P11	FFFF7398	AAAAAFFF	0	00004888	00000001
P11	FFFF7843	55555FFF	0	00004888	00000001
P11	FFFF8198	AAAABFFF	0	00004888	00000001
P11	FFFF9443	55557FFF	0	00004888	00000001
P11	FFFFB998	AAAAFFFF	0	00004888	00000001
P11	00000443	5555FFFE	0	FFFFB777	00000000
P11	FFFF7774	AAABFFFD	0	00004888	00000001
P11	FFFF7FFB	5557FFFB	0	00004888	00000001
P11	FFFF9108	AAAFFFF7	0	00004888	00000001
P11	FFFFB323	555FFFEF	0	00004888	00000001
P11	FFFF7758	AABFFFD	0	00004888	00000001
P11	00007FC3	557FFFB	0	FFFFB777	00000000
P11	00006E74	AAFFFF7C	0	FFFFB777	00000000
P11	00004BD7	55FFFEF8	0	FFFFB777	00000000
P11	0000069C	ABFFFDFO	0	FFFFB777	00000000
P11	FFFF7C27	57FFFB	0	00004888	00000001
P11	FFFF8960	AFFFF7C3	0	00004888	00000001
P11	FFFFA3D3	5FFFEF87	0	00004888	00000001
P11	FFFFD888	BFFFDFOF	0	00004888	00000001