

PROCESSOR TEST PROGRAM

Consists of:

Program Listing	06-106R08A13
Program Description	06-106R09A15
Program Tape	06-106M17R08

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SERIES 16 PROCESSOR TEST

1 GENERAL

Documents Required:	
Processor Test	06-106R11
Related documents:	
Test Program Listing	06-106R08M97A13
Test Program Tape	06-106R08M17
Applicable Test Programs:	
Common Teletype Basic Confidence Test	06-004
Memory Test	06-003

2 PURPOSE OF TEST

This program tests the Models 5, 6/16, 70, 74, 80, 85, and 7/16 Processors. All logic and arithmetic instructions and optional features are tested. Writable control store instructions are not tested.

3 MINIMUM HARDWARE REQUIRED

Processor:
Model 5, 6/16, 70, 74, 80, 85, or 7/16 Processor
8kb of Memory

Console Device:
Teletype (See Appendix D for GE Terminette on KP10)
CRT
Carousel 15, 30, 35, or 300

Paper-Tape Reader:
Teletype or high-speed, paper-tape reader

4 REQUIREMENTS OF MACHINE UNDER TEST

Location CONADR contains X'02' for the console address. If the console address is different, this location must be changed. See Appendix G for the appropriate setup.

5 LOADING PROCEDURES

5.1 Test Tape Format

The test tape contains three parts, each in absolute, nonzoned object format (M17) with a front-end bootloader. Part 1 and Part 2 occupy approximately 8kb of memory. Part 3 occupies approximately 5kb of memory.

Manually enter the X'50' sequence into memory as shown below:

LOCATION	CONTENTS
X'30'	X'0000'
X'32'	X'0000'
X'34'	X'0000'
X'36'	X'0050'
X'50'	X'D500'
X'52'	X'00CF'
X'54'	X'4300'
X'56'	X'0080'
for TTY	X'78'
HSPTR	X'78'
HSPTR/P	X'78'

Place the program tape in the paper-tape reader. Execute at address X'30'.

When the processor halts, observe the display panel. It should be zero. If it is zero, loading is completed; if it is not zero, repeat the loading procedure.

When Part 1 testing is completed, address X'30' and hit EXECUTE following the same method previously stated. When Part 2 testing is completed, address X'30' and hit EXECUTE following the same method stated previously.

5.2 Multimedia Diagnostic Loading Procedure

To load this program from the Interdata Multimedia Diagnostic System, refer to Publication Number 06-176A15.

5.3 Program Execution

After the requirements of the machine under test are met and the loading of Part 1 has been completed, execute at X'100' and observe:

S16PT1R09
CPU
*

After loading Part 2, execute at X'2D0' and observe:

S16PT2R09
CPU
*

After loading Part 3, execute at X'2D0' and observe:

S16PT3R09
CPU
*

6 OPERATING PROCEDURES

6.1 Normal Testing

For the Processor Test, Part 1, after loading has been completed and the proper processor number has been entered (see Appendix A), the test executes the appropriate subtests totaling 10 times or until an error has been encountered. See Appendix C for error numbers and their meaning.

For the Processor Test, Part 2, each test in Part 2 assumes that Part 1 was run without detecting an error. Therefore, to get a meaningful result from the Error Number Dictionary, Part 1 must be run prior to Part 2. Load Part 2 of the Processor Test as explained in loading procedures.

This message is printed:

S16PT2R09
CPU
*

Depress 2 numeric keys corresponding to the Processor under test. The valid key depressions are 05, 70, 74, 7D, 80, 85, 16, or 1D. See Appendix A for appropriate key depressions.

This message is printed:

DEPRESS KEYS
1234567890

If these characters are not printed, WB instruction failed. When these characters are printed, depress keys 1 through 9 and 0. If the test is aborted while depressing any of these keys and an error message is printed, refer to the error procedures for Part 2.

After all the keys are depressed, observe the printout. It should be:

DEPRESS KEYS
1234567890

If these characters are not printed, WBR instruction failed.
If these characters are printed, depress keys 1 through 9 and 0 and observe the printout. If the message:

SUBTEST
*

is printed, the I/O test has not detected any errors. If it has detected any errors, refer to error procedures. Select desired subtest according to Appendix A.

Subtest 3 of the Interdata Processor Test Part 2 tests the Binary Display Panel. The break key on the console device must be depressed to execute the next part of the test. The test performs the following six functions. In all six functions, the display panel displays the data in the following manner: Data Displayed, ZEROS, Data Displayed. See Appendix H for an explanation of display panel representations (D4, D3, D2, D1).

- | | |
|---|--|
| 1) Character Printed Console:
Display Panel Mode:
Data Displayed: | A
Normal
Status (right 2 hexadecimal digits) |
| 2) Character Printed Console:
Display Panel Mode:
Data Displayed: | AB
Normal
All Switches in D4 and D3
All Switches in D2 and D1 |
| 3) Character Printed Console:
Display Panel Mode:
Data Displayed: | ABC
Increment
All Switches in D4 and D3
All Switches in D2 and D1 |
| 4) Character Printed Console:
Display Panel Mode:
Data Displayed: | ABCD
Increment
Right 8 Switches in D1 |
| 5) Character Printed Console:
Display Panel Mode:
Data Displayed: | ABCDE
Increment
All Switches in D4 and D3
All Switches in D2 and D1 |
| 6) Character Printed Console:
Display Panel Mode:
Data Displayed: | ABCDEF
Normal Mode
All Switches in D2 and D1 |

Subtest 6 of the Interdata Processor Test Part 2 tests the Extended Console Panel. The break key on the Teletype typewriter must be depressed to execute the next part of the test. Hexadecimal digits are displayed from right to left. The test should perform these six functions:

- | | |
|-------------------------------|--|
| 1) Character Printed Console: | A |
| Display Panel Mode: | <u>N</u> ormal |
| Data Displayed: | Status (right 2 hexa-decimal digits) |
| 2) Character Printed Console: | AB |
| Display Panel Mode: | <u>N</u> ormal |
| Data Displayed: | 0000 → FFFF → 0000
(right 4 hexadecimal digits) |
| 3) Character Printed Console: | ABC |
| Display Panel Mode: | <u>N</u> ormal |
| Data Displayed: | All hexadecimal digits displayed as a counter
(0 → F) |
| 4) Character Printed Console: | ABCD |
| Display Panel Mode: | <u>N</u> ormal |
| Data Displayed: | A5A5 → 5A5A → A5A5 → 5A5A |
| 5) Character Printed Console: | ABCDE |
| Display Panel Mode: | <u>I</u> ncremental |
| Data Displayed: | The above pattern is seen shifted through display |
| 6) Character Printed Console: | ABCDEF |
| Display Panel Mode: | <u>N</u> ormal |
| Data Displayed: | Contents of switch register |

For the Processor Test Part 3, the test in Part 3 assumes that Part 1 and Part 2 were run without detecting an error. Therefore, to get a meaningful result from the Error Number Dictionary, Part 1 and Part 2 must be run prior to Part 3.

This message is printed:

S16PT3R09
CPU
*

Depress two numeric keys corresponding to the processor under test. The valid key depressions are: 05, 70, 74, 7D, 80, or 85. See Appendix A for the appropriate key depressions.

6.2 Optional Testing

For the Processor Test Part 1, turning the console OFF or OFF-Line (DU=1) can inhibit all the printouts. When this is done, a count is made of the total times the entire test is repeated. This total is stored in memory location TOTAL and is also continuously copied into the Console Panel Display 2. If an error is detected, a count is made of the total errors at memory location TOTERR.

When the console is turned On-Line, the test is repeated until TOTAL equals NTIMES. The test is terminated and these characters are printed:

NNNN RRRR
where NNNN = Contents of TOTAL.
RRRR = Contents of TOTERR which are 0 in this case.

If any errors are detected while the console is turned OFF and no errors are detected after it was turned ON, these characters are printed:

NNNN RRRR
where N and R have the same meaning as above.

If any errors are detected after turning the console ON, these characters are printed and the test is terminated:

ERROR XXXX
NNNN RRRR
where XXXX = The last error detected.
NNNN = Contents of TOTAL.
RRRR = Contents of TOTERR.

When the console is turned OFF, the test is aborted if:

1. A spurious interrupt is detected (e.g., an illegal instruction is detected). In this case, the error number, which is one of INF1 through INF9, is copied into the Console Panel Display 2 and the processor is halted by loading a PSW of X'8000'. When the EXECUTE switch on the console is pressed and the console is turned ON, the error message is printed.
2. The test is also aborted if TOTERR equals X'FFFF'. In this case, X'FFFF' is copied into the Console Panel Display 2 and the processor is halted by loading a PSW of X'8000'. When the EXECUTE switch is depressed and the console is turned ON, characters FFFF ERRORS are printed and the test is terminated.

Processor Test Part 2 is divided into eight subtests that can be selected individually. A subtest should be selected only if the processor under test has the features tested by the subtest; e.g., Subtest 5 must be performed only if the machine has Machine Malfunction Interrupt.

7 ERROR PROCEDURES

If an error occurs, see Appendix C for a description of each error number.

7.1 Processor Test Part 1

- Case 1 The program detects an error; the error number in Display 2 is the same as the error number printed on the Teletype typewriter. The error number dictionary in Appendix C can pinpoint the error.
- Case 2 For a Model 74 without a Display Panel, if the error number printed on the Teletype typewriter is not legible, no further diagnosis can be made.
- Case 3 If a spurious interrupt is detected, the error number is copied into the Console Panel Indicators Display 2 and the processor is halted by loading a PSW of X'8000'. The error number has the form X'1TFN' where T = test number that was executing at the time of the error; N defines the spurious interrupt. See the error numbers in Appendix C. When the EXECUTE switch is depressed, the error number is printed.
- Case 4 If an error is detected in a test that checks arithmetic operations, refer to Appendix C. In Tests 8 and 12 of Part 1, which check the fixed point arithmetic instructions, certain registers are printed after printing the error number.

7.2 Processor Test Part 2

Each error message in Part 2 is printed using a WB command. Refer to Appendix C for an error number table.

7.3 Processor Test Part 3

Each error message in Part 3 is printed using a WB command. Refer to Appendix C for an error number table.

Examples:

1) ERROR 1604

If this message is printed, it indicates that Test 6 in Part 1 of the Processor Test detected an error. The error number is 04. Refer to the error number table in Appendix C. It indicates that the instruction SLHA or SRHA failed.

To further isolate the problem, the program can either run in single steps starting at the beginning of the test or it can start at a location where the test for the failed instruction begins. Thus, Test 6 can be started after it has tested for errors 1601 through 1603 and begins to test for error 1604. In this case, the location is T1F.

2) ERROR 18F2

This indicates that Test 9 of Part 1 detected an error. Error number F2 indicates that an illegal instruction interrupt was detected. To determine at what location this occurred, the program must be executed in single step mode starting at Test 9.

3) ERROR 1C0C

If this message is printed:

0000 0000 FFFF 0000 0000 0000 0000 1000 1000 7777 0000

Test 12 of the Processor Test Part 1 detected an error. The error number is 0C. Refer to the error printout description in Appendix C, which states that error 1C0D refers to incorrect fixed point division. The printed values of the contents of some registers can be interpreted using the information given in the error printout description shown below:

0000 0000	FFFF	0000 0000	0000 0000	1000 1000
Dividend	Divisor	actual values	expected values	PSW PSW
= 0	= -1	of remainder	of remainder	after before
		and quotient	and quotient	division division
7777		0000		
actual divide		expected divide		
fault interrupt		fault interrupt		
flag		flag		

The above interpretation of the printed information indicates that when 0 was divided by -1, the obtained values of the remainder and quotient were zero (which are identical to expected values). The PSW remained unchanged (PSW should not change); and, a divide fault interrupt was taken (indicated by nonzero actual divide fault flag) when it was not expected (indicated by zero expected divide fault interrupt flag). An error in divide fault interrupt logic has thus been detected.

For further diagnosis, the program can be run in single step starting from the instruction that sets the error number to X'C' (in this case DLOOP2+4).

8. RESTART PROCEDURES

The starting address for Part 1 is X'100', for Part 2 is X'2D0', and for Part 3 is X'2D0'. In certain cases, the program can be restarted as described below.

For Processor Test Part 1, to start the program without selecting the processor number through the console, start the program at ENTRY2. See the program listing.

For the Processor Test Part 2, the program can be restarted at RENTRY to avoid Subtest 0. An illegal instruction can also be performed from the console panel switches. The characters:

ERROR 2TF2 (where T is the subtest number)
SUBTEST
*

are printed and any one of the subtests 0 through 7 may be selected.

For the Processor Test Part 3, start the program at ENTRY to start the program without selecting the Processor number through the Console. See the program listing.

APPENDIX A
CPU AND SUBTEST SELECTION

MODEL UNDER TEST	REQUIRED INPUT (CPU) 1			SUBTEST SELECTION
	PART 1	PART 2	PART 3	PART 2
5	05	05	05	1,2,3,4,5,6
70	70	70	70	1,2,3,4,5,6
74-with display panel	74	74	-	1,3,5,6
74-without display panel	74	74	-	1,5,6
80	80	80	80	1,2,3,4,5,6
85	85	85	85	1,2,3,4,5,6,7
6/16 or 7/16 Basic without multiply/divide and without extended display panel	1D	1D	-	1,5,6,
6/16 or 7/16 Basic without multiply/divide and extended display panel	16	16	-	1,5,6,7
6/16 or 7/16 Basic multiply/divide (M71-105) and without extended display panel	7D	7D	-	1,5,6
6/16 or 7/16 Basic multiply/divide and extended display panel	74	74	-	1,5,6,7
7/17 HSALU (M71-106) and without extended display panel	70	70	70	1,2,4,5,6
7/16 HSALU and extended display panel	70	70	70	1,2,3,4,5,6,7

Example: For a Model 6/16 with multiply/divide and extended display panel after loading the tape, this message is printed:

```

S16PTR09
CPU
*
    Printed by the processor
74      Input by the user

```

NO ERRORS

APPENDIX B
EXPECTED RESULTS

06-106R09P1

S16PT1R09
CPU
*
74
NO ERRORS

06-106R09P2

S16PT2R09
CPU
*
70 Input by User
DEPRESS KEYS
1234567890
1234567890 USER
DEPRESS KEYS
1234567890
1234567890 USER

SUBTEST
*
1 USER
PRESS BRK
NO ERROR

SUBTEST
*
2 USER (does not print with a 1A
 processor selection)
1234567890
1234567890
1234567890
DEPRESS KEYS
1234567890
1234567890 USER

SUBTEST
*
3 USER
ABCDEF HIT BRK KEY FOR EACH LETTER

APPENDIX B (Continued)
EXPECTED RESULTS

SUBTEST

*

4

USER

PRESS INIT

PRESS BRK

NO ERROR

SUBTEST

*

5

NOTE: Subtest 5 can be run only if
Processor is equipped with
Auto-Restart.

PRESS INIT

PRESS BRK

NO ERROR

SUBTEST

*

6

USER

HIT BRK KEY FOR EACH LETTER

SUBTEST

*

7

PRESS FUNC 0

PRESS BREAK KEY

PRESS FUNC 0

PRESS BREAK KEY

NO ERROR

06-106R09P3

S16PT3R09

CPU

*70

No Error

APPENDIX C
PROCESSOR TEST PART 1
ERROR MESSAGES

TEST NUMBER	ERROR NUMBER	TYPE OF FAILURE, INSTRUCTIONS FAILED
1	1101	LPSW
	1102	BTC, BFC, (COND. CODE = 0000)
	1103	BTC, BFC, (COND. CODE = 1111)
	1104	BFFS, BFBS (UNCONDITIONAL)
	1105	BTFS, BFFS, BTBS, BFBS
2	1201	LH, CLHR, CLHI, LHI, CLH, LIS, LHR, LCS
3	1301	STH
	1302	LM
	1303	STM
4	1401	XHR, XHI, XH
	1402	OHR, OHI, OH
	1403	NHR, NHI, NH
5	1501	BAL
	1502	BXLE, BXH
	1503	BTCR, BFCR, BR
6	1601	ESPR
	1602	SLLS, SRLS
	1603	SLHL, SRHL
	1604	SLHA, SRHA
	1605	THI
7	1701	LB, STB, CLB, LBR, STBR, EXBR

APPENDIX C (Continued)
PROCESSOR TEST PART 1
ERROR MESSAGES

For error number 1801, M and N are two arbitrary numbers whose values are between $-2^{15}-1$ and $2^{15}-1$. C is 1 if there is an input carry to the least significant bit. If there is no carry, the value of C is 0.

After printing the error number for Test 8, some pertinent register values are also printed:

AAAA	BBBB	CCCC	DDDD Maximum 10 half-words printed.
(i)	(ii)	(iii)		

The following table describes the different operand values:

TEST NUMBER	ERROR NUMBER	TYPE OF FAILURE, INSTRUCTIONS FAILED	VALUES PRINTED TO AID IN DIAGNOSIS
8	1801	M+(-M) does not equal zero. AIS, AHM	(i) M (ii) -M (iii) M+(-M) (calculated value)
	1802	M+(R4)-(R4) does not equal M. AHR, SHR	(i) M (ii) M+(R4) (iii) M+(R4)-(R4) (calculated value)
	1803	M+X'789A'-X'789A' does not equal M. AHI, SHI	(i) M (ii) M+X'789A' (iii) M+X'789A' - X'789A' (calculated value)
	1804	(M+N+C)+(M-N-C) is not equal to 2*M. AH, SIS, ACH, SH	(i) M (ii) N (iii) C (iv) M+N+C (v) M-N-C (vi) calculated value of (M=N=C)+(M-N-C) (vii) expected value of (M+N+C)+(M-N-C)

APPENDIX C (Continued)
PROCESSOR TEST PART 1
ERROR MESSAGES

TEST NUMBER	ERROR NUMBER	TYPE OF FAILURE, INSTRUCTIONS FAILED	VALUES PRINTED TO AID IN DIAGNOSIS
8	1805	(M+N+C) - (M-N-C) -C is not equal to 2N+C	(i) M (ii) N (iii) C (iv) (M+N+C) (v) (M-N-C) (vi) calculated value of (M+N+C) - (M-N-C) -C (vii) expected value of (M+N+C) - (M-N-C) -C

Error numbers from 1806 through 181D refer to the improper setting of the condition code resulting from an adding or subtracting operation. The actual and expected values of condition codes are printed in each case.

TEST NUMBER	ERROR NUMBER	TYPE OF FAILURE, INSTRUCTIONS FAILED	VALUES PRINTED TO AID IN DIAGNOSIS
8	1806	0 + 0 did not set condition code correctly	(i) Actual condition code (ii) Expected condi- tion code
	1807	0 - 0 SHR	"
	1808	X'7FFE' - X'7FFE' SHI	"
	1809	X'FFFF' - X'FFFF' SH	"
	180A	X'8001' + X'7FFE' AH	"
	180B	X'8002' - X'0001' SIS	"
	180C	X'7FFE' + 1 AIS	"

APPENDIX C (Continued)
PROCESSOR TEST PART 1
ERROR MESSAGES

TEST NUMBER	ERROR NUMBER	TYPE OF FAILURE, INSTRUCTIONS FAILED	VALUES PRINTED TO AID IN DIAGNOSIS
8	180D	X'7FFF'-X'7FFE' SHI	(i) Actual condition code (ii) Expected condition code
	180E	X'FFFF'-X'FFFE' SH	"
	180F	X'7FFE'+X'7FFF' AH	"
	1810	X'8001'-X'7FFF' SHI	"
	1811	X'0001;+X'FFFF' AHR	"
	1812	X'7FFF'+X'8001' AHI	"
	1813	X'FFFF'+X'FFFE' AHR	"
	1814	0 - 1 SIS	"
	1815	X'FFFE'-X'FFFF' SHI	"
	1816	X'7FFE'-X'7FFF' SH	"
	1817	X'FFFF'+2 AIS	"
	1818	0-X'FFFF' SHI	"
	1819	X'7FFE'-X'FFFF' SH	"

APPENDIX C (Continued)
 PROCESSOR TEST PART 1
 ERROR MESSAGES

TEST NUMBER	ERROR NUMBER	TYPE OF FAILURE, INSTRUCTIONS FAILED	VALUES PRINTED TO AID IN DIAGNOSIS
8	181A	X'8002'+X'7FFF'	(i) Actual condition code (ii) Expected condition code
	181B	X'7FFF'-X'FFFE' SH	"
	181C	2-X'8001' SHI	
	181D	X'8001'+X'FFFE' AHI	

APPENDIX C (Continued)
PROCESSOR TEST PART 1
ERROR MESSAGES

Error numbers 181E and 181F refer to incorrect operation of instructions ACH, ACHR, SCH, SCHR, when they are used for multi-precision addition and subtraction. The following table shows the expected value. The program prints the actual incorrect value (triple precision) in three halfwords:

TEST NUMBER	ERROR NUMBER	TYPE OF FAILURE AND EXPECTED VALUE
8	181E	2221 + 2*1111 + 3*1111 ++FFFF*1111 does not equal 0888 7777 8000 ACH, ACHR
	181F	0888 7777 8000 -1111 -2*1111 -3*1111.... -FFFF*1111 does not equal zero SCH, SCHR

Errors 1820 through 1833 refer to incorrect condition codes set up after the fixed point compare operation. The actual condition code and the expected condition codes are printed as two halfwords:

TEST NUMBER	ERROR NUMBER	TYPE OF FAILURE AND EXPECTED VALUE
8	1820	0:0, CLHR
	1821	2:2, CLH
	1822	X'7FFF':X'7FFF', CLHI
	1823	X'8002':X'8001', CHR
	1824	X'FFFE':X'FFFE', CH
	1825	X'FFFF':X'FFFF', CHI
	1826	X'8002':2, CLHR
	1827	X'7FFF':X'7FFF', CLH
	1828	X'8002':X'8001', CLHI
	1829	2:0, CHR
	182A	X'FFFF':X'FFFE', CH
	182B	0:X'8001, CHI
	182C	X'8001':2, CLH
	182D	X'FFFE'-X'FFFF', CLHR
	182E	0:1, CLHI
	182F	0:1, CHI
	1830	X'8001':X'8002', CH
	1831	X'FFFF':0, CHR
	1832	X'7FFE':X'FFFF', CLH
	1833	X'7FFF':X'FFFE', CLHI

APPENDIX C (Continued)
PROCESSOR TEST PART 1
ERROR MESSAGES

TEST NUMBER	ERROR NUMBER	TYPE OF FAILURE, INSTRUCTIONS FAILED
9	1901	SVC
10	1A01	External interrupt detected. Incorrect service pointer used by SINT to generate interrupt.
	1A02	SINT used immediate interrupt service when not specified by PSW.
	1A03	SINT generated no interrupt.
	1A04	PSW swap not OK after SINT.
	1A05	The illegal instruction at location ILLEG1 was executed and it did not generate an interrupt.
	1A06	When the illegal instruction interrupt is generated, the locations X'30' through X'34' were not correctly set.
11	1B01	Zero shift set incorrect condition on SLL instruction failed.
	1B02	SRL instruction failed
	1B03	SRL or SRA instruction failed
	1B04	RLL or RLL instruction failed

Test 12 of the Processor Test Part 1 prints 12 different error numbers (1C01 to 1C0D). The error numbers 1C01 to 1C0A refer to improper fixed-point multiplication. If any of these errors are detected, this message is printed:

ERROR NNNN
AAAA BBBB A'A'A'A' B'B'B'B' RRRR RRRR R'R'R'R' R'R'R'R' PPPP P'P'P'P'

where: NNNN	Error number
AAAA	First operand
BBBB	Second operand
A'A'A'A'	Negative of the first operand
B'B'B'B'	Negative of the second operand
RRRR RRRR	Double length actual result
R'R'R'R' R'R'R'R'	Double length expected result
PPPP	PSW after multiplication
P'P'P'P'	PSW before multiplication

APPENDIX C (Continued)
PROCESSOR TEST PART 1
ERROR MESSAGES

The error numbers 1C0C and 1C0D refer to incorrect division. If any error in the fixed point divide operation is detected, this message is printed:

ERROR NNNN
AAAA AAAA BBBB RRRR 0000 R'R'R'R' 0'0'0'0' PPPP P'P'P'P' FFFF F'F'F'F'

where: NNNN Error number
 AAAA AAAA First operand (double length dividend)
 BBBB Second operand (divisor)
 RRRR Actual remainder
 0000 Actual quotient
 R'R'R'R' Expected remainder
 0'0'0'0' Expected quotient
 PPPP PSW after division
 P'P'P'P' PSW before division
 FFFF Actual divide fault flag (nonzero if the divide fault interrupt was taken, zero if it was not taken)
 F'F'F'F' Expected divide fault flag (nonzero if the divide fault interrupt is expected, zero if it was not expected)

TEST NUMBER	ERROR NUMBER	TYPE OF FAILURE, INSTRUCTION FAILED
12	1C01	A*B does not equal the expected value, MH.
	1C02	B*A is not equal to the expected value of the product, MH.
	1C03	(-A)*(-B) is not equal to the expected product, MHR.
	1C04	(-B)*(-A) is not equal to the expected value, MHR.
	1C05	A*(-B) does not equal the expected result, MHR.
	1C06	(-B)*A does not equal the expected result, MH.

APPENDIX C (Continued)
PROCESSOR TEST PART 1
ERROR MESSAGES

TEST NUMBER	ERROR NUMBER	TYPE OF FAILURE, INSTRUCTION FAILED
12	1C07	B*(-A) is not equal to the expected value of the product, MHR.
	1C08	(-A)*(B) is not equal to the expected value of the product.
	1C09	Unsigned product of A and B does not equal the expected value, MHU.
	1C0A	Unsigned product of B and A is not equal to the expected value of the unsigned product, MHUR.
	1C0C	A/B did not produce the expected values of the remainder and the quotient, DHR.
	1C0D	A/B did not produce the expected remainder and quotient values.
13	1D01	Privileged instruction performed while in protect mode.
	1D02	PSW swap not OK when a privileged instruction is attempted while in protect mode.
	1D03	SVC is not correctly performed while in protect mode.

Other Error Messages in Part 1:

ERROR NUMBER	TYPE OF FAILURE
1TF1	Floating Point Arithmetic Fault Interrupt is detected.
1TF2	Illegal Instruction Interrupt is detected.
1TF3	Machine Malfunction Interrupt is detected.
1TF4	External Interrupt is detected.

APPENDIX C (Continued)
PROCESSOR TEST PART 1
ERROR MESSAGES

ERROR NUMBER	TYPE OF FAILURE
1TF5	Fixed point divide fault interrupt is detected.
1TF6	Channel I/O termination interrupt is detected.
1TF7	Termination queue overflow interrupt is detected.
1TF8	SVC is performed from an incorrect location (one of X'9C' through X'13A').
1TF9	Incorrect service pointer used (one of X'D0' through X'2CE').

NOTE: T = test number from 1 through X'C'

APPENDIX D
PROCESSOR TEST PART 2
ERROR MESSAGES

SUBTEST NUMBER	ERROR NUMBER	TYPE OF FAILURE, INSTRUCTIONS FAILED
I/O Test	2001	RDR
	2002	SS (even address)
	2003	RD (even address)
	2004	SS (odd address)
	2005	RD (odd address)
	2006	RH (even address)
	2007	RH (odd address)
	2008	RBR
	2009	RB
	200A	RHR
	2101	ACKR, ACK, false SYNC from device; zero incorrect.
	2102	No interrupt generated when TTY mode changed from read to write.
	2103	AIR TTY address and status not correctly received.
	2104	External interrupt not properly generated when the break key on the console is depressed.
2	2201	Condition code fails for list instructions.
	2202	Entry into table placed in wrong memory location.
	2203	RBL does not set the next top pointer to the maximum slot number during a list wrap condition.

APPENDIX D (Continued)
PROCESSOR TEST PART 2
ERROR MESSAGES

SUBTEST NUMBER	ERROR NUMBER	TYPE OF FAILURE, INSTRUCTIONS FAILED
2	2204	ATL does not set the next bottom pointer to maximum slot number during a list wrap condition.
	2205	RTL does not set the next top pointer to zero during a list wrap condition.
	2206	ABL does not set the next bottom pointer to zero during a list wrap condition.
	2207	DMT using CCW.
	2208	Channel I/O operation.
	2209	Channel I/O operation.
	220A	Channel I/O termination interrupt not taken. PSW swaps not OK.
	220B	Queue overflow interrupt not properly generated.
	220C	Read operation from TTY using channel I/O does not work.
	2401	Contents of one or more registers destroyed when initialized.
4	2402	Registers not correctly stored in memory by the microprogram when initialized.
	2403	Current PSW not properly stored at X'24'.
	2404	Machine malfunction interrupt taken when it was disabled.

APPENDIX D (Continued)
PROCESSOR TEST PART 2
ERROR MESSAGES

SUBTEST NUMBER	ERROR NUMBER	TYPE OF FAILURE, INSTRUCTIONS FAILED
5	2501	Contents of one or more registers destroyed when initialized.
	2502	Registers not correctly stored in memory by the microprogram when initialized.
	2503	PSW not properly stored at X'24' or registers destroyed when initialized.
	2504	Machine malfunction interrupt not generated when enabled.
6	---	---
7	2701	Interrupt not generated when function 0 pressed (PSW enabled).
	2702	Interrupt generated when function 0 pressed (PSW disabled).

OTHER ERRORS IN PROCESSOR TEST PART 2

ERROR NUMBER	TYPE OF FAILURE
2TF1	Floating point arithmetic fault interrupt is detected.
2TF2	Illegal instruction interrupt is detected.
2TF3	Machine malfunction interrupt is detected.
2TF4	External interrupt is detected.
2TF5	Fixed-point divide fault interrupt is detected.
2TF6	Channel I/O termination interrupt is detected.
2TF7	Termination queue overflow interrupt is detected.
2TF8	SVC is performed from an incorrect location (one of X'9C' through X'BA').
2TF9	Incorrect service pointer used (one of X'D0'-X'2CE').

NOTE: T = subtest numbers from 0 through 7

APPENDIX E
PROCESSOR TEST PART 3
ERROR MESSAGE

SUBTEST NUMBER	ERROR NUMBER	TYPE OF FAILURE, INSTRUCTIONS FAILED
0	3001 to 3011	<p>Error in floating-point load or store operation</p> <p>LE, LER, STE</p> <p>a. If the actual stored value does not match the expected value (due to improper normalization or incorrect information transfer) after a load and a store operation, this information is printed (4 halfwords):</p> <p>ERROR NNNN RRRR RRRR SSSS SSSS</p> <p>where: NNNN is the error number.</p> <p>RRRR RRRR is the actual stored value.</p> <p>SSSS SSSS is the expected value.</p> <p>The operand used for the load operation can be found in the Program Listing.</p> <p>b. If the condition code is not properly set after a load operation, this information is printed (1 halfword):</p> <p>ERROR NNNN NNNN is the error number.</p> <p>000C C is the actual condition code.</p> <p>The condition code's expected value can be found in the Program Listing.</p>

APPENDIX E (Continued)
PROCESSOR TEST PART 3
ERROR MESSAGE

SUBTEST NUMBER	ERROR NUMBER	TYPE OF FAILURE, INSTRUCTIONS FAILED
0	3001 to 3011	<p>c. If the floating-point fault interrupt is not correctly handled, only the error number is printed.</p>
0	3012 to 3021	<p>Error in floating-point addition or subtraction</p> <p>AE, AER, SER, SE, SER</p> <p>a. If the expected result does not match the actual result or the condition code setting is incorrect, this information is printed. (The performed operation instruction used can be found in the Program Listing):</p> <p>ERROR NNNN AAAA AAAA BBBB BBBB RRRR RRRR SSSS SSSS 000X 000Y</p> <p>where: NNNN is the error number. AAAA AAAA is the first operand. BBBB BBBB is the second operand. RRRR RRRR is the actual result. SSSS SSSS is the expected result. X is the actual condition code. Y is the expected condition code.</p>

APPENDIX E (Continued)
PROCESSOR TEST PART 3
ERROR MESSAGES

SUBTEST NUMBER	ERROR NUMBER	TYPE OF FAILURE, INSTRUCTIONS FAILED
0	3012 to 3021	b. If a floating-point fault interrupt is incorrectly taken or if a fault interrupt is not taken when it was expected, only the error number is printed. (The performed operation can be found from the program listing and the first and second operands. The result can be known by floating-point registers 6, 8, and 4, respectively.
0	3022 to 3025	Error in floating-point multiplication ME, MER The error printout is same as that format for error numbers 2412 to 2421.
0	3026 to 3029	Error in floating-point division DE, DER Error printout has the same format as error numbers 2412 to 2421.
0	302A to 3031	Error in floating-point multiplication or division ME, MER, DE If any error other than incorrect floating-point fault interrupt is detected, this information is printed (in addition to error number): RRRR SSSS 000X 000Y where: RRRR is the actual result SSSS is the expected result X is the actual condition code Y is the expected condition code

APPENDIX E (Continued)
 PROCESSOR TEST PART 3
 ERROR MESSAGES

SUBTEST NUMBER	ERROR NUMBER	TYPE OF FAILURE, INSTRUCTIONS FAILED
0	3032 to 3041	<p>Error in floating-point, compare operation</p> <p>CE, CER</p> <p>This information (in addition to error number) is printed, if any error other than incorrect floating point fault interrupt is detected:</p> <p>000X 000Y</p> <p>where: X is the actual condition code Y is the expected condition code</p> <p>The operands compared and the instruction used can be found in the Program Listings.</p>

OTHER ERRORS IN PROCESSOR TEST PART 3

ERROR NUMBER	TYPE OF FAILURE
3TF1	Floating-point arithmetic fault interrupt is detected.
3TF2	Illegal instruction interrupt is detected.
3TF3	Machine malfunction interrupt is detected.
3TF4	External interrupt is detected.
3TF5	Fixed-point divide fault interrupt is detected.
3TF6	Channel I/O termination interrupt.
3TF7	Termination queue overflow interrupt is detected.
3TF8	SVC is performed from an incorrect location (one of X'9C' through X'BA').
3TF9	Incorrect service pointer used (one of X'D0'-X'2CE').

NOTE: T = subtest number 0

APPENDIX F
TEST MODIFICATION FOR CONSOLE
ON KPIO INTERFACE

If processor has a KPIO board (no disarm), modify the indicated location:

LOCATION	CONTENTS	CHANGE TO
KPI01	7C00	3C00
KPI02	0811	4300
KPI03	2334	A(NOERR)

If the console device is a GE Terminette on a KPIO I/O Printer Interface (35-120) at address X'02', modify the indicated locations:

LOCATION	CONTENTS	CHANGE TO
KPI01	7C00	3C00
TERM1	C800	C800
	3200	3210
TERM2	2306	0200
TERM3	4300	4200
	A(S2D)	
TERM4	2303	200
TERM5	C500	C500
	0208	0218

If a KPIO I/O Printer Interface (35-120) is strapped for disarm feature, do not modify location KPI01.

APPENDIX G
PATCHES TO PROCESSOR TEST PROGRAM

The Processor Test Program may be executed on a Model 50 or 60 Processor if certain patches are added.

The patches needed for Processor Test Program Part 1 are:

LOCATION	NEW CONTENTS	OLD CONTENTS		PSEUDO-CODE
M5001+2	0022	002C	STH	R0, X'22'
M5002+2	0086	0090	STH	R0, X'86'
M5003+3	3530	3730	CLHI	R0, C'50'
T2	7000	7C00	T2	DC X'7000', T2A
T6A1+2	700F	7C0F	T6A1	LHI R1, X'700F'
M5004+2	7000	7C00	CLHI	R4, X'7000'
SVC150	2005	2805	SVC150	DC X'2005', SCV175
M5005+2	2005	2805	CLHI	R4, X'2005'
T10M70	2C2D	E5E8	T10M70	DC X'2C2D'
T10M70+2	E0E6	E92E	DC	X'E0E6'
T10M70+4	E7EE	2F62	DC	X'E7EE'
T10M70+6	EF00	636E	DC	X'EF00'
T10END	4300	2301		
T10END+2	1CAE	C200	T10END	B TSTEND
T10M	7005	7C05	T10M	DC X'7005', ILLEGAL
M5006+2	7005	7C05	CLHI	R0, X'7005'
T13BYT	E4E5*	9596	T13BYT	DC X'E4E5'
T13BYT+2	EAEB*	9798	DC	X'EAEB'
T13BYT+\$	ECED*	999A	DC	X'ECED'
T13C+2	3530	3734	DC	C'50'

The patches needed for Processor Test Program Part 2 are:

LOCATION	NEW CONTENTS	OLD CONTENTS		PSEUDO-CODE
M5007+2	3530	3730	CLI	R0, C'50'
M5008+2	0034	0020	STH	R3, X'34'
M5009+2	0086	0090	STH	R3, X'86'
KP101	7000	7C00	DC	X'7000', *+2
54A	5000	5C00	S5A	DC X'5000', S56B
55A	7000	7C00	S6A	DC X'7000', S56B
M50112	5000	5C00	CLHI	R0, X'5000'
M50122	7000	7C00	CLHI	R0, X'7000'
SGINTD2	7000	7C00	S6INTD	DC X'7000', S5AA

APPENDIX G (Continued)
PATCHES TO PROCESSOR TEST PROGRAM

NOTE

To test all M50 privileged instructions, run Subtest 7 twice; once without the three patches marked with an asterisk and once with the three patches inserted at the indicated locations.

Subtest 2 should not be run on the Model 50.

All Model 50 special instructions must be tested with the Model 50 Test Program (06-128R01). However, with these patches, the new Processor Test Program can be used in conjunction with 06-128R01 to provide a more comprehensive test of processor operation.

The Processor Test Program should be run as described in Section 2, except '50' is now a valid keyboard entry for the processor number.

APPENDIX II
MNEMONIC ADDRESS DEFINITIONS

PROCESSOR TEST PART 1

LOCATION	CONTENTS
CPUNO	Two keys from TTY stored. Defines processor number.
ENTRY1	Program starting address at '100'.
ENTRY2	Starting address for the program without selection of processor.
ERRIND	Error number to be copied into display 2.
ILGINT	Address for illegal instruction interrupt.
NTIMES	Value = 10 (X'A') on the tape. Tests 1 through 12 are repeated 10 times before printing characters NO ERROR.
NXTST	Stores starting address of the next test. If the error messages are suppressed, a branch is made to this address to attempt next test.
ONE	Contains X'FFFF', used as data.
TESTNO	Contains test number in ASCII to print error.
TOTAL	Number of times tests 1 through 12 have been repeated.
TOTERR	Number of errors detected.
ZERO	Value = 0, used as data.

APPENDIX H (Continued)
MNEMONIC ADDRESS DEFINITIONS

PROCESSOR TEST PART 2

LOCATION	CONTENTS
BUFRO	Contains 16 halfwords of zero.
BUFR1	Contains ASCII characters 1 through 9 and 0.
BUFR2	Sixteen halfwords of storage area.
CCW1	Channel command word used in Subtest 2.
CPUMO	Contains two ASCII keys for processor number.
DMT	Channel command word to test DMT in Subtest 2.
IOERHW	Nonzero number if I/O test failed; zero number if I/O test did not fail.
RENTRY	Address of subtest selection routine.
T14BYT	Address of first privileged instruction tested in Subtest 7.

APPENDIX I
USER DEVICE DEFINITION

The halfword labeled IO (see Program Listing) has the default value for Teletype type device as an input/output console device. If the console is different, it must be changed as:

I/O

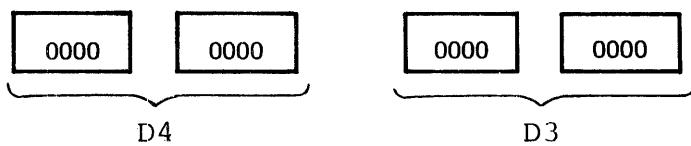
CONSOLE DEVICE IDENTIFIER

CONSOLE DEVICE IDENTIFIER	EXPLANATION
X'0101'	CRT on PASLA/PALM interface strapped for FDX at highest baud.
X'0202'	TTY, Carousel 15, 30, 35 on TTY interface or GDT/CRT on current loop interface.
X'0404'	Carousel 300 on PASLA/PALM interface strapped for FDX at highest baud rate.

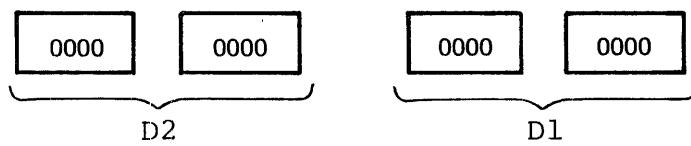
The location CONADR should equal the console device's address except if connected through a PASLA/PALM interface. In that case, the location PASADR should equal the receive/send addresses.

APPENDIX J
BINARY DISPLAY PANEL CONFIGURATION

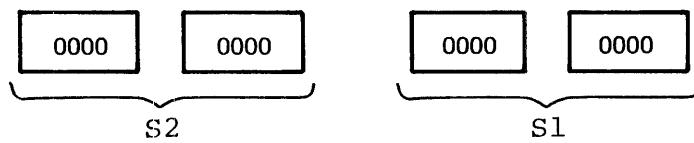
Register Display 1



Register Display 2



Data/Address Switches



PROG= S16P1 ASSEMBLED BY CAL 03-066R05-00 (32-BIT)

		1	CROSS	PT100010
		2	WIDTH 120	PT100020
		3	TARGT 16	PT100030
		4	S16P1 PROG INTERDATA PROCESSOR TEST 06-106R08A13 PART1	PT100040
		5	*	PT100050
		6	*	PT100060
		7	*	PT100070
		8	*	PT100080
		9	*	PT100090
		10	*	PT100100
		11	*	PT100110
		12	*	PT100120
		13	*	PT100130
		14	*	PT100140
		15	*	PT100150
		16	*	PT100160
		17	*	PT100170
		18	*	PT100180
		19	*	PT100190
		20	*	PT100200
		21	*	PT100210
	0000 0000	22	R0 EQU 0	PT100220
	0000 0001	23	R1 EQU 1	PT100230
	0000 0002	24	R2 EQU 2	PT100240
	0000 0003	25	R3 EQU 3	PT100250
	0000 0004	26	R4 EQU 4	PT100260
	0000 0005	27	R5 EQU 5	PT100270
	0000 0006	28	R6 EQU 6	PT100280
	0000 0007	29	R7 EQU 7	PT100290
	0000 0008	30	R8 EQU 8	PT100300
	0000 0009	31	R9 EQU 9	PT100310
	0000 000A	32	R10 EQU 10	PT100320
	0000 000B	33	R11 EQU 11	PT100330
	0000 000C	34	R12 EQU 12	PT100340
	0000 000D	35	R13 EQU 13	PT100350
	0000 000E	36	R14 EQU 14	PT100360
	0000 000F	37	R15 EQU 15	PT100370
		38	*	PT100380
	0000R	39	ORG X'80'	PT100390
		40	*	PT100400
0080	2421	41	LIS R2,1	PT100410
0082	2303	42	BS BOOT	PT100420
0084	0110	43	DC Z(PSWAVE)	PT100430
0086	1F8E	44	DC Z(REGSAV)	PT100440
0088	4020 0022	45	BOOT STH R2,X'22'	PT100450
008C	C810 0100	46	LHI R1,X'100'	PT100460
0090	C830 1FB0	47	LHI R3,LNZB	PT100470
0094	C860 0000	48	MN LHI R6,0	PT100480
0098	D340 0078	49	LS R4,X'78'	PT100490
009C	DE40 0079	50	OC R4,X'79'	PT100500
00A0	9D45	51	LEADER SSR R4,R5	PT100510
00A2	2091	52	BTBS 9,1	PT100520
00A4	9B45	53	RDR R4,R5	PT100530

00A6	0855	54	LDAR	R5,R5	PT100540	
00A8	2234	55	BZS	LEADER	PT100550	
00AA	D251 0000	56	LOAD	STB R5,0(R1)	PT100560	
00AE	D351 0000	57		LB R5,0(R1)	PT100570	
00B2	0765	58		XAR R6,R5	PT100580	
00B4	9481	59		EXBR R8,R1	PT100590	
00B6	9828	60		WHR R2,R8	PT100600	
00B8	9D45	61		SSR R4,R5	PT100610	
00BA	2091	62		BTBS 9,1	PT100620	
00BC	9845	63		RDR R4,R5	PT100630	
00BE	C110 00AA	64		BXLE R1,LOAD	PT100640	
00C2	9486	65		EXBR R8,R6	PT100650	
00C4	9828	66		WHR R2,R8	PT100660	
00C6	2478	67	LDWT	LIS R7,8	PT100670	
00C8	917C	68		SLLS R7,12	PT100680	
00CA	9557	69		EPSR R5,R7	PT100690	
00CC	2203	70		BS LDWT	PT100700	
00CE		71		ORG X'100'	PT100710	
U100	4300 0112	72	ORIGIN1	8 ENTRY1	PT100720	
		73	*****			
0104	0202	74	IO	DCX 0202	IO INDICATOR	PT100740
0106	0101	75	CRT	DCX 0101	CRT VALUE	PT100750
0108	0404	76	CAR	DCX 0404	CAROUSEL VALUE	PT100760
010A	0202	77	CONADR	DCX 0202	CONSOLE ADDRESS	PT100770
010C	1011	78	PASADR	DCX 1011	PASLA ADDRESS REC/SND DEFAULT 1011	PT100780
010E	000A	79	NTIMES	DC 10		PT100790
0110	0000	80	PSWAVE	DCX 0		PT100800
		81	*			PT100810
		82	*			PT100820
		83	*	SET UP FOR SPURIOUS INTERRUPTS		PT100830
		84	*			PT100840
J112	2400	85	ENTRY1	LIS R0,0		PT100850
J114	4000 002C	86	M5001	STH R0,X'2C'		PT100860
0118	4000 0022	87		STH R0,X'22'		PT100870
011C	4000 0034	88		STH R0,X'34'		PT100880
0120	4000 003C	89		STH R0,X'3C'		PT100890
0124	4000 0044	90		STH R0,X'44'		PT100900
0128	4000 004C	91		STH R0,X'4C'		PT100910
012C	4000 0086	92		STH R0,X'86'		PT100920
0130	4000 0090	93	M5002	STH R0,X'90'		PT100930
		94	*			PT100940
0134	C800 1DFC	95		LHI R0,FLPTNT		PT100950
0138	4000 002E	96		STH R0,X'2E'		PT100960
013C	C800 1E00	97		LHI R0,ILGINT		PT100970
0140	4000 0036	98		STH R0,X'36'		PT100980
0144	C800 1E04	99		LHI R0,MALFTN		PT100990
0148	4000 003E	100		STH R0,X'3E'		PT101000
014C	C800 1E08	101		LHI R0,EXTINT		PT101010
0150	4000 0046	102		STH R0,X'46'		PT101020
0154	C800 1E0E	103		LHI R0,DVDFLT		PT101030
0158	4000 004E	104		STH R0,X'4E'		PT101040
015C	C800 1F6C	105		LHI R0,TABLE		PT101050
0160	4000 0080	106		STH R0,X'80'		PT101060
0164	C800 1E12	107		LHI R0,CHANIO		PT101070
0168	4000 0088	108		STH R0,X'88'		PT101080

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016C	C800 1E16	109	LHI	R0,QVRFL0	PT101090	
0170	4000 0092	110	STH	R0,X'92'	PT101100	
		111	*		PT101110	
		112	*	SET UP INPUT OUTPUT DEVICES	PT101120	
		113	*		PT101130	
0174	C800 F800	114	LHI	R0,X'F800'	PT101140	
0178	4000 1F8E	115	STH	R0,FIRSTCMD	PT101150	
017C	D300 0104	116	IOTEST	LB R0,IO	PT101160	
0180	C500 0004	117	CLHI	R0,4	PT101170	
0184	2135	118	BNES	CRTIO	PT101180	
0186	C802 F000	119	LHI	R0,Y'F000'	PT101190	
018A	4000 1F8E	120	STH	R0,FIRSTCMD	PT101200	
018E	D300 0104	121	CRTIO	LB R0,IO	PT101210	
0192	C500 0002	122	CLHI	R0,2	PT101220	
0196	233F	123	BES	TTYIO	PT101230	
0198	D310 1F89	124	LB	R1,CRTOUT+1	PT101240	
019C	D210 1F85	125	STB	R1,INCMND	PT101250	
01A0	D310 010D	126	LB	R1,PASADR+1	PT101260	
01A4	D320 1F88	127	LB	R2,CRTOUT	PT101270	
01A8	DE10 1F8E	128	OC	R1,FIRSTCMD	PT101280	
01AC	2531	129	LCS	R3,1	PT101290	
01AE	4030 1F8C	130	STH	R3,CRTFLG	PT101300	
01B2	230C	131	BS	IO2	PT101310	
	0000 0184	132	TTYIO	EQU *	PT101320	
01B4	C810 00A4	133	LHI	R1,X'A4'	PT101330	
01B8	D210 1F85	134	STB	R1,INCMND	PT101340	
01BC	2410	135	LIS	R1,0	PT101350	
01BE	4010 1F8C	136	STH	R1,CRTFLG	PT101360	
01C2	D310 010A	137	LB	R1,CONADR	PT101370	
01C6	D320 1F8A	138	LB	R2,CONOUT	PT101380	
	0000 01CA	139	IO2	EQU *	PT101390	
01CA	D210 1F84	140	STB	R1,OUTDEV	PT101400	
01CE	D220 1F86	141	STB	R2,OUTCMD	PT101410	
01D2	D320 1F84	142	LB	R2,OUTDEV	PT101420	
01D6	DE20 1F86	143	OC	R2,OUTCMD	PT101430	
01DA	9D23	144	SSR	R2,R3	PT101440	
01DC	4210 0288	145	BTC	1,ENTRY2	PT101450	
01E0	C430 00FC	146	NHI	R3,X'FC'	PT101460	
01E4	C530 000C	147	CLHI	R3,X'0C'	PT101470	
01E8	4330 0288	148	BE	ENTRY2	PT101480	
01EC	9D23	149	PRTTLE	SSR R2,R3	PT101490	
01EE	4240 0288	150	BTC	4,ENTRY2	PT101500	
01F2	2083	151	BTBS	8,3	PT101510	
01F4	C840 1FA4	152	LHI	R4,TITLE1	PT101520	
01F8	D304 0000	153	PRTCPU	LB R0,0(R4)	PT101530	
01FC	41E0 1DEA	154	BAL	R14,WRITE1	PRINT CPU	PT101540
0200	2641	155	AIS	R4,1	*	PT101550
0202	C540 1FB0	156	CLHI	R4,TITEND	PT101560	
0206	2037	157	BNES	PRTCPU	PT101570	
	0000 0208	158	PRTCP	EQU *	PT101580	
0208	4800 1F8C	159	LH	R0,CRTFLG	PT101590	
020C	2338	160	BZS	RD	PT101600	
020E	D320 010C	161	LB	R2,PASADR	PT101610	
0212	DE20 1F85	162	OC	R2,INCMND	PT101620	
0216	9D23	163	SSR	R2,R3	PT101630	

R2 = OUTDEV = TTYADR.

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0218	2281	164	BFBS	8,1	PT101640
021A	2303	165	BS	RDCPU1	PT101650
0000	021C	166	RD	EQU *	PT101660
021C	DE20 1F85	167	OC	R2,INCMND	PT101670
0220	9D23	168	RDCPU1	SSR R2,R3	PT101680
0222	2081	169	BTBS	8,1	PT101690
0224	9B20	170	RDR	R2,R0	PT101700
0226	C400 007F	171	NHI	R0,X'7F'	PT101710
022A	9U23	172	RDCPU2	SSR R2,R3	PT101720
022C	2081	173	BTBS	8,1	PT101730
022E	9B21	174	RDR	R2,R1	PT101740
0230	C410 007F	175	NHI	R1,X'7F'	PT101750
0234	9108	176	SLLS	R0,8	PT101760
0236	U601	177	OHR	R0,R1	PT101770
0238	C500 3136	178	CLHI	R0,C'16'	PT101780
023C	2339	179	BES	MOD57	PT101790
023E	C500 3035	180	CLHI	R0,C'05'	PT101800
0242	233C	181	BES	MOD570	PT101810
0244	C500 3734	182	CLHI	R0,C'74'	PT101820
0248	2339	183	BES	MOD570	PT101830
024A	C500 3730	184	M5003	CLHI R0,C'70'	PT101840
024E	2336	185	MOD57	BES MOD570	PT101850
0250	C500 3830	186	CLHI	R0,C'80'	PT101860
0254	2333	187	BES	MOD570	PT101870
0256	C500 3835	188	CLHI	R0,C'85'	PT101880
025A	233F	189	MOD570	BES MOD5	PT101890
025C	C500 3744	190	CLHI	R0,C'7D'	PT101900
0260	233A	191	BES	MOD7D	PT101910
0262	C500 3144	192	CLHI	R0,C'1D'	PT101920
0266	2337	193	EES	MOD7D	PT101930
0268	C800 003F	194	CPUERR	LHI R0,C'?'	PT101940
026C	41E0 1DEA	195	BAL	R14,WRITE1	PT101950
0270	4300 01EC	196	B	PRTLE	PT101960
0274	4000 1F80	197	MOD7D	STH R0,CPUNO	PT101970
0278	4000 1F80	198	MOD5	STH R0,CPUNO	PT101980
027C	240D	199	MOD	LIS R0,13	PT101990
027E	41E0 1DEA	200	BAL	R14,WRITE1	PT102000
0282	240A	201	LIS	R0,10	PT102010
0284	41E0 1DEA	202	BAL	R14,WRITE1	PT102020
		203	*		PT102030
0288	2400	204	ENTRY2	LIS R0,0	PT102040
028A	4000 1F7E	205	STH	R0,TTYOFF	PT102050
028E	4000 1F7A	206	STH	R0,TOTAL	PT102060
0292	4000 1F7C	207	STH	R0,TOTERR	PT102070
	0000 0296	208	ENTRY3	EQU *	PT102080
0296	2401	209	LIS	R0,1	PT102090
0298	DE00 1F83	210	OC	R0,NORM	PT102100
	0000 029C	211	ENT3A	EQU *	PT102110
029C	D320 1F84	212	LB	R2,OUTDEV	PT102120
02A0	9D25	213	SSR	R2,R5	PT102130
02A2	4210 02B2	214	BTC	1,ENT3B	PT102140
02A6	C450 00FC	215	NHI	R5,X'FC'	PT102150
02AA	C550 000C	216	CLHI	R5,X'0C'	PT102160
02AE	2332	217	BES	ENT3B	PT102170
02B0	2304	218	BS	TEST1	PT102180

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0000 02B2	219	ENT3B	EQU *	PT102190	
02B2 2451	220	LIS	R5,1	PT102200	
02B4 4050 1F7E	221	STH	R5,TTYOFF	PT102210	
	222	*****			PT102220
	223	*		PT102230	
	224	*	TEST1 CHECKS THE INSTRUCTIONS	PT102240	
	225	*		PT102250	
	226	*	LPSW, BTC,BFC,BTFS,BTBS,RFFS	PT102260	
	227	*		PT102270	
02B8 C600 048A	228	TEST1	LHI R0,TEST2	PT102280	
02BC 4000 1F92	229	STH	R0,NXTST	PT102290	
02C0 C800 3131	230	LHI	R0,C'11'	PT102300	
02C4 4000 1F58	231	STH	R0,TESTNO	PT102310	
02C8 C600 0111	232	LHI	R0,X'0111'	PT102320	
02CC 4000 1F90	233	STH	R0,ERRIND	PT102330	
0000 02D0	234	LPSW	EQU *	PT102340	
02D0 C200 02D4	235	LPSW	T1	PT102350	
02D4 0000	236	T1	DC 0,T1A	PT102360	
02D6 02DC					
02D8 4300 1E3C	237	T1AA	B ERROR	PT102370	
02DC 4300 02E8	238	T1A	B T1B	PT102380	
02E0 4300 02F0	239	T1A2	B T1C	PT102390	
02E4 4300 1E3C	240	T1ERR1	B ERROR	PT102400	
02E8 4300 02E0	241	T1B	B T1A2	PT102410	
02EC 4300 1E3C	242	B	ERROR	PT102420	
0000 02F0	243	BTC	EQU *	PT102430	
02F0 4210 0304	244	T1C	BTC 1,T1ERR2	COND. CODE = 0000 , SO	PT102440
02F4 4220 0304	245	BTC	2,T1ERR2	ERR. IF BRANCH ON TRUE	PT102450
02F8 4240 0304	246	BTC	4,T1ERR2		PT102460
02FC 4280 0304	247	BTC	8,T1ERR2		PT102470
0000 0300	248	BFC	EQU *	PT102480	
0300 4310 0310	249	BFC	1,T1D1	COND. CODE = 0000	PT102490
0304 C600 0211	250	T1ERR2	LHI R0,X'0211'	ERROR 1102	PT102500
0308 4000 1F90	251	STH	R0,ERRIND		PT102510
030C 4300 1E3C	252	B	ERROR		PT102520
0310 4320 0318	253	T1D1	BFC 2,T1D2		PT102530
0314 4300 0304	254	B	T1ERR2		PT102540
0318 4340 0320	255	T1D2	BFC 4,T1D3		PT102550
031C 4300 0304	256	B	T1ERR2		PT102560
0320 4380 0328	257	T1D3	BFC 8,T1D4		PT102570
0324 4300 0304	258	B	T1ERR2		PT102580
0328 C200 032C	259	T1D4	LPSW T1D8		PT102590
032C 000F	260	T1D8	DC 15,T1D9		PT102600
032E 0330					
0330 4310 035C	261	T1D9	BFC 1,T1ERR3	COND CODE = 1111 , SO	PT102610
0334 4320 035C	262	BFC	2,T1ERR3	ERR. IF BRANCH ON ZERO	PT102620
0338 4340 035C	263	BFC	4,T1ERR3		PT102630
033C 4380 035C	264	BFC	8,T1ERR3		PT102640
0340 4210 0348	265	BTC	1,T1E1	COND. CODE = 1111 , SO	PT102650
0344 4300 035C	266	B	T1ERR3	ERR. IF BRANCH NOT TAKEN	PT102660
0348 4220 0350	267	T1E1	BTC 2,T1E2		PT102670
034C 4300 035C	268	B	T1ERR3		PT102680
0350 4240 0358	269	T1E2	BTC 4,T1E3		PT102690
0354 4300 035C	270	B	T1ERR3		PT102700
0358 4280 0368	271	T1E3	BTC 8,T1E4		PT102710

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035C	C800	0311	272	T1ERR3	LHI	R0,X'0311'	ERROR	1103	PT102720
0360	4000	1F90	273		STH	R0,ERRIND			PT102730
0364	4300	1E3C	274		B	ERROR			PT102740
	0000	0368	275	BFFS	EQU	*			PT102750
0368	2301		276	T1E4	BFFS	0,1	BS +1		PT102760
036A	2302		277		BFFS	0,2	BS+2		PT102770
036C	2302		278		BFFS	0,2			PT102780
036E	2303		279		BFFS	0,3	BS+3		PT102790
0370	4300	040A	280		B	T1ERR4			PT102800
0374	2303		281		BFFS	0,3	BS+3		PT102810
0376	4300	040A	282		B	T1ERR4			PT102820
037A	2307		283		BFFS	0,7	BS+7	1	PT102830
037C	4300	040A	284		B	T1ERR4			PT102840
0380	2306		285		BFFS	0,6	BS+6	3	PT102850
0382	4300	040A	286		B	T1ERR4			PT102860
0386	2306		287		BFFS	0,6	BS+6		PT102870
0388	2204		288		BFBS	0,4	BS-4	2	PT102880
038A	2302		289		BFFS	0,2	BS+2		PT102890
038C	2203		290		BFBS	0,3	BS-3	4	PT102900
038E	4300	040A	291		B	T1ERR4			PT102910
			292	*					PT102920
0392	230F		293	T1F	BFFS	0,15	BS+15	1	PT102930
0394	2302		294		BFFS	0,2			PT102940
0396	2303		295		BFFS	0,3	BS+3		PT102950
0398	2302		296		BFFS	0,2			PT102960
039A	230E		297		BFFS	0,14	BS+14	3	PT102970
039C	2302		298		BFFS	0,2			PT102980
039E	230D		299		BFFS	0,13	BS+13	5	PT102990
03A0	2302		300		BFFS	0,2			PT103000
03A2	230C		301		BFFS	0,12	BS+12	7	PT103010
03A4	2302		302		BFFS	0,2			PT103020
03A6	230B		303		BFFS	0,11	BS+11	9	PT103030
03A8	2302		304		BFFS	0,2			PT103040
03AA	230A		305		BFFS	0,10	BS+10	11	PT103050
03AC	2303		306		BFFS	0,3			PT103060
03AE	2309		307		BFFS	0,9	BS+9	13 TO T1F2	PT103070
03B0	2208		308		BFBS	0,11	BS-11	2	PT103080
03B2	4300	040A	309		B	T1ERR4			PT103090
03B6	220C		310		BFBS	0,12	BS-12	4	PT103100
03B8	220B		311		BFBS	0,11	BS-11	6	PT103110
03BA	220A		312		BFBS	0,10	BS-10	8	PT103120
03BC	2209		313		BFBS	0,9	BS-9	10	PT103130
03BE	2208		314		BFBS	0,8	BS-8	12	PT103140
			315	*					PT103150
03C0	2308		316	T1F2	BFFS	0,8	BS+8	1	PT103160
03C2	2302		317		BFFS	0,2			PT103170
03C4	2307		318		BFFS	0,7	BS+7	3	PT103180
03C6	2302		319		BFFS	0,2			PT103190
03C8	2306		320		BFFS	0,6	BS+6	5	PT103200
03CA	2302		321		BFFS	0,2			PT103210
03CC	2305		322		BFFS	0,5	BS+5	7	PT103220
03CE	2306		323		BFFS	0,6			PT103230
03D0	2206		324		BFBS	0,6	BS-6	2	PT103240
03D2	2205		325		BFBS	0,5	BS-5	4	PT103250
03D4	2204		326		BFBS	0,4	BS-4	6	PT103260

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03D6	2304	327	BFFS	0,4			BS+4	8	PT103270
03D8	2301	328	BFFS	0,1			BS+1		PT103280
03DA	4300 040A	329	B	T1ERR4					PT103290
		330 *							PT103300
03DE	230F	331	BS	T1F3					PT103310
03E0	2302	332	BFFS	0,2					PT103320
03E2	2307	333	BFFS	0,7		9	BS+7		PT103330
03E4	2302	334	BFFS	0,2					PT103340
03E6	230F	335	BFFS	0,15		6	BS+15		PT103350
03E8	2302	336	BFFS	0,2					PT103360
03EA	2204	337	BFBS	0,4		8	BS-4		PT103370
03EC	2304	338	BFFS	0,4					PT103380
03EE	230D	339	BFFS	0,13					PT103390
03F0	230C	340	BS	T1F4					PT103400
03F2	2308	341	BFFS	0,8		4	BS+8		PT103410
03F4	2302	342	BFFS	0,2					PT103420
03F6	2202	343	BFBS	0,2		3	BS-3		PT103430
03F8	2303	344	BFFS	0,3					PT103440
03FA	2202	345	BFBS	0,2		2	BS-2		PT103450
03FC	2201	346	T1F3	BFBS	0,1	1	BS-1		PT103460
03FE	2306	347	BS	T1ERR4					PT103470
0400	2305	348	BS	T1ERR4					PT103480
0402	220E	349	BFBS	0,14		5	BS-14		PT103490
0404	2200	350	BFBS	0,13		7	BS-13		PT103500
0406	2302	351	BS	T1ERR4					PT103510
0408	2309	352	T1F4	BS	T1G2				PT103520
040A	C800 0411	353	T1ERR4	LHI	R0,X'0411'		ERROR	1104	PT103530
040E	4000 1F90	354		STH	R0,ERRIND				PT103540
0412	4300 1E3C	355	B	ERROR					PT103550
		356 *							PT103560
		357 *	COND	CODE = 1111					PT103570
		358 *							PT103580
	0000 0416	359	BTFS	EQU	*				PT103590
0416	2134	360	T1G	BTFS	3,4		3		PT103600
0418	2302	361	BFFS	0,2					PT103610
041A	2154	362	T1G2	BTFS	5,4		1		PT103620
041C	2302	363	BFFS	0,2					PT103630
041E	218A	364	BTFS	8,10			4		PT103640
0420	2302	365	BFFS	0,2					PT103650
	0000 0422	366	BTBS	EQU	*				PT103660
0422	2056	367	BTBS	5,6			2		PT103670
0424	2302	368	BFFS	0,2					PT103680
0426	2174	369	BTFS	7,4			6		PT103690
0428	2302	370	BFFS	0,2					PT103700
042A	2117	371	BTFS	1,7			8		PT103710
042C	2302	372	BFFS	0,2					PT103720
042E	2092	373	BTBS	9,2			7		PT103730
0430	2302	374	BFFS	0,2					PT103740
0432	2046	375	BTBS	4,6			5		PT103750
0434	4300 047C	376	B	T1ERR5					PT103760
0438	2315	377	BFFS	1,5		COND CODE = 111 + S0			PT103770
043A	2344	378	BFFS	4,4					PT103780
043C	2393	379	BFFS	9,3		ERR. IF BRANCH			PT103790
043E	2372	380	BFFS	7,2					PT103800
0440	2303	381	BFFS	0,3					PT103810

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0442	4300 047C	382	B	T1ERR5	PT103820	
		383 *			PT103830	
0446	C200 044A	384	LPSW	T1H	PT103840	
044A	0000	385	T1H	DC 0.T1H1	PT103850	
044C	0454					
044E	2304	386	BS	T1H1+2	PT103860	
0450	2334	387	BFFS	3,4	PT103870	
0452	2302	388	BFFS	0,2	PT103880	
0454	2354	389	T1H1	BFFS 5,4	PT103890	
0456	2302	390	BFFS	0,2	PT103900	
0458	238A	391	BFFS	8,10	PT103910	
045A	2302	392	BFFS	0,2	PT103920	
045C	2256	393	BFBS	5,6	PT103930	
045E	2302	394	BFFS	0,2	PT103940	
0460	2374	395	BFFS	7,4	PT103950	
0462	2302	396	BFFS	0,2	PT103960	
0464	2317	397	BFFS	1,7	PT103970	
0466	2302	398	BFFS	0,2	PT103980	
0468	2292	399	BFBS	9,2	PT103990	
046A	2302	400	BFFS	0,2	PT104000	
046C	2246	401	BFBS	4,6	PT104010	
046E	4300 047C	402	B	T1ERR5	PT104020	
		403 *			PT104030	
0472	2115	404	BTFS	1,5	COND CODE = 0000 , S0	PT104040
0474	2144	405	BTFS	4,4		PT104050
0476	2193	406	BTFS	9,3	ERR. IF BRANCH	PT104060
0478	2172	407	BTFS	7,2		PT104070
047A	2307	408	BFFS	0,7		PT104080
047C	C800 0511	409	T1ERR5	LHI R0,X'0511'	ERROR 1105	PT104090
0480	4000 1F90	410	STH	R0,ERRIND		PT104100
0484	4300 1E3C	411	B	ERROR		PT104110
0488	2301	412	T1END	BS TEST2		PT104120
		413	*****			PT104130
		414 *				PT104140
		415 *	TEST 2 CHECKS THE INSTRUCTIONS			PT104150
		416 *				PT104160
		417 *	LH, CLHR, CLHI, LHI, CLH, LIS, LHR, LCS			PT104170
		418 *				PT104180
		419 *	MEMORY LOCATIONS USED ARE			PT104190
		420 *				PT104200
		421 *	ZERO 0			PT104210
		422 *	ONE X'FFFF'			PT104220
		423 *	FIVE X'5555'			PT104230
		424 *	TEN X'AAAA'			PT104240
		425 *				PT104250
048A	C800 05A2	426	TEST2	LHI R0,TEST3		PT104260
048E	4000 1F92	427	STH	R0,NXTST		PT104270
0492	C800 0112	428	LHI	R0,X'0112'		PT104280
0496	4000 1F90	429	STH	R0,ERRIND	ERRIND = 0112	PT104290
049A	C800 3132	430	LHI	R0,X'3132'	PART1 , TEST2	PT104300
049E	4000 1F58	431	STH	R0,TESTNO		PT104310
04A2	C200 04A6	432	LPSW	T2		PT104320
04A6	7C00	433	T2	DC X'7C00',T2A		PT104330
04A8	04AA	434	*			PT104340

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04AA	2400	435	T2A	LIS	R0,0	R0 = 0	PT104350
04AC	213C	436		BNZS	T2R1		PT104360
	0000 04AE	437	LHR	EQU	*		PT104370
04AE	0810	438		LHR	R1,R0	R1 = R0 = 0	PT104380
04B0	213A	439		BNZS	T2R1		PT104390
04B2	0821	440		LHR	R2,R1	R2 = R1 = 0	PT104400
04B4	0832	441		LHR	R3,R2	R3 = R2 = 0	PT104410
04B6	0843	442		LHR	R4,R3	R4 = R3 = 0	PT104420
04B8	0504	443		CLHR	R0,R4	IS R0 = R4 (=0)	PT104430
04BA	2135	444		BNES	T2R1		PT104440
04BC	0853	445		LHR	R5,R3	R5 = R3 = 0	PT104450
04BE	0865	446		LHR	R6,R5	R6 = R5 = 0	PT104460
04C0	0536	447		CLHR	R3,R6	IS R3 = R6 (=0)	PT104470
04C2	2332	448		BES	T2B		PT104480
04C4	230E	449	T2R1	BS	T2R2		PT104490
	0000 04C6	450	LH	EQU	*		PT104500
04C6	4870 1F94	451	T2B	LH	R7,ZERO	R7 = 0	PT104510
04CA	C570 0000	452		CLHI	R7,0		PT104520
04CE	2139	453		BNES	T2R2		PT104530
04D0	4530 1F94	454		CLH	R3,ZERO	IS R3 = ZERO (=0)	PT104540
04D4	2136	455		BNES	T2R2		PT104550
04D6	48A0 1FA0	456		LH	R10,TEN	R10 = AAAA	PT104560
04DA	C5A0 AAAA	457		CLHI	R10,X'AAAA'		PT104570
04DE	2332	458		BES	T2C		PT104580
04E0	230D	459	T2R2	BS	T2R3		PT104590
04E2	C5A0 AAA9	460	T2C	CLHI	R10,X'AAA9'	R10 > AAA9	PT104600
04E6	218A	461		BLS	T2R3		PT104610
04E8	2339	462		BES	T2R3		PT104620
04EA	45A0 1F98	463		CLH	R10,ONE	R10 = AAAA , ONE = FFFF	PT104630
04EE	2386	464		BNLS	T2R3		PT104640
04F0	2385	465		BNCS	T2R3		PT104650
04F2	4850 1F9C	466		LH	R5,FIVE	R5 = FIVE = 5555	PT104660
	0000 04F6	467	CLHR	EQU	*		PT104670
04F6	055A	468		CLHR	R5,R10	R5 = 55558 R10 = AAAA	PT104680
04F8	2182	469		BLS	T2D		PT104690
04FA	2300	470	T2R3	BS	T2R4		PT104700
04FC	0553	471	T2D	CLHR	R5,R3	R5 = 5555, R3 = 0	PT104710
04FE	2188	472		BLS	T2R4		PT104720
0500	233A	473		BES	T2R4		PT104730
0502	C8F0 5555	474		LHI	R15,X'5555'		PT104740
0506	055F	475		CLHR	R5,R15	R5 = R15 = 5555	PT104750
0508	2136	476		BNES	T2R4		PT104760
050A	0505	477		CLHR	R0,R5	R0 = 0, R5 = 5555	PT104770
050C	2384	478		BNLS	T2R4		PT104780
	0000 050E	479	CLH	EQU	*		PT104790
050E	4550 1F9C	480		CLH	R5,FIVE	R5 = 5555 , FIVE = 5555	PT104800
0512	2332	481		BES	T2E		PT104810
0514	230E	482	T2R4	BS	T2R5		PT104820
0516	4540 1F94	483	T2E	CLH	R4,ZERO	R4 = 0000 = ZERO = 0	PT104830
051A	213B	484		BNES	T2R5		PT104840
051C	45A0 1F9C	485		CLH	R10,FIVE	R10 = AAAA, FIVE = 5555	PT104850
0520	2188	486		BLS	T2R5		PT104860
0522	2337	487		BES	T2R5		PT104870
0524	C5A0 AAAB	488		CLHI	R10,X'AAAB'	R10 = AAAB	PT104880
0528	2384	489		BNLS	T2R5		PT104890

0000 052A	490 CLHI	EQU *		PT104900
052A C540 0003	491 CLHI	R4,3	R4 = 0 <3	PT104910
052E 2183	492 BLS	T2F		PT104920
0530 4300 1E3C	493 T2R5	B ERROR		PT104930
0534 48F0 1F98	494 T2F	LH R15,ONE	R15 = ONE = FFFF	PT104940
0538 C5F0 FFFF	495	CLHI R15,X'FFFF'		PT104950
053C 213B	496 BNES	T2R6		PT104960
053E 48A0 1F9C	497 LH	R10,FIVE	R10 = 5555	PT104970
0542 05A5	498 CLHR	R10,R5		PT104980
0544 2137	499 BNES	T2R6		PT104990
0546 4850 1FA0	500 LH	R5,TEN	R5 = AAAA	PT105000
0000 054A	501 LHI	EQU *		PT105010
054A C8A0 AAAA	502 LHI	R10,X'AAAA'	R10 = AAAA	PT105020
054E 055A	503 CLHR	R5,R10	IS R5 = R10 (=AAAA)	PT105030
0550 2332	504 BES	T2G		PT105040
0552 2300	505 T2R6	BS T2R7		PT105050
0000 0554	506 LIS	EQU *		PT105060
0554 2477	507 T2G	LIS R7,7	R7 = 7	PT105070
0556 C570 0007	508 CLHI	R7,7		PT105080
055A 2139	509 BNES	T2R7		PT105090
055C 2488	510 LIS	R8,8		PT105100
055E 24DD	511 LIS	R13,13	R13=13	PT105110
0560 C580 0006	512 CLHI	R8,8		PT105120
0564 2134	513 BNES	T2R7		PT105130
0566 C5D0 000D	514 CLHI	R13,13		PT105140
056A 2333	515 BES	T2H		PT105150
056C 4300 058E	516 T2R7	B T2R8		PT105160
0000 0570	517 LCS	EQU *		PT105170
0570 25E1	518 T2H	LCS R14,1	R14=FFFF	PT105180
0572 2233	519 BZS	T2R7		PT105190
0574 2024	520 BPS	T2R7		PT105200
0576 05EF	521 CLHR	R14,R15	R14 = R15 FFFF ?	PT105210
0578 213B	522 BNES	T2R8		PT105220
057A 25BB	523 LCS	R11,11	R11 = FFF5	PT105230
057C 2129	524 BPS	T2R8		PT105240
057E 25CC	525 LCS	R12,12	R12 = FFF4	PT105250
0580 2127	526 BPS	T2R8		PT105260
0582 C5B0 FFF5	527 CLHI	R11,X'FFF5'		PT105270
0586 2134	528 BNES	T2R8		PT105280
0588 C5C0 FFF4	529 CLHI	R12,X'FFF4'		PT105290
058C 2333	530 BES	T2END		PT105300
058E 4300 1E3C	531 T2R8	B ERROR	ERROR 1201	PT105310
0592 2308	532 T2END	BS TEST3		PT105320
0594 0000	533 DC	0		PT105330
0596 0000	534 T2WR00	DC 0		PT105340
0598 0000	535 DC	0		PT105350
059A 0000	536 T2WR01	DC 0		PT105360
059C 0000	537 DC	0		PT105370
059E 0000	538 T2WR02	DC 0		PT105380
05A0 0000	539 DC	0		PT105390
	540 *****			PT105400
	541 *			PT105410
	542 *	TEST 3 CHECKS THE INSTRUCTIONS		PT105420
	543 *			PT105430
	544 *	STH , LM AND STM		PT105440

		545 *		PT105450
		546 *	T3BUF0 = 16 HW'S OF ZEROS	PT105460
		547 *		PT105470
		548 *	T3BUF2 = 16 HW'S OF DATA 0,1,2,.....,14,15	PT105480
		549 *		PT105490
		550 *	T3BUF1 = T3BUF2 + 14, (STARTS AT HW = 7)	PT105500
		551 *		PT105510
		552 *	T3BUF3 = 16 HW'S OF STORAGE AREA	PT105520
		553 *		PT105530
05A2	C800 073A	554 TEST3	LHI R0,TEST4	PT105540
05A6	4000 1F92	555 STH	R0,NXTST	PT105550
05AA	C800 0113	556 LHI	R0,X'0113'	PT105560
05AE	4000 1F90	557 STH	R0,ERRIND	ERRIND = 0113 PT105570
05B2	C800 3133	558 LHI	R0,X'3133'	PT105580
05B6	4000 1F56	559 STH	R0,TESTNO	PT105590
		560 *		PT105600
05BA	2501	561 LCS	R0,1	R0=FFFF PT105610
05BC	2512	562 LCS	R1,2	PT105620
05BE	2523	563 LCS	R2,3	PT105630
	0000 05C0	564 STH	EQU *	PT105640
05C0	4000 0596	565 STH	R0,T2WRD0	T2WRD0 = R0 = FFFF PT105650
05C4	4010 059A	566 STH	R1,T2WRD1	T2WRD1 = R1 = FFFE PT105660
05C8	4020 059E	567 STH	R2,T2WRD2	T2WRD2 = R2 = FFFD PT105670
05CC	4310 1E3C	568 BNM	ERROR	PT105680
05D0	4860 0596	569 LH	R6,T2WRD0	PT105690
05D4	4870 059A	570 LH	R7,T2WRD1	PT105700
05D8	4880 059E	571 LH	R8,T2WRD2	PT105710
05DC	0506	572 CLHR	R0,R6	PT105720
05DE	4230 1E3C	573 BNE	ERROR	PT105730
05E2	0528	574 CLHR	R2,R8	PT105740
05E4	4230 1E3C	575 BNE	ERROR	PT105750
05E8	C800 0213	576 LHI	R0,X'213'	PT105760
05EC	4000 1F90	577 STH	R0,ERRIND	PT105770
	0000 05F0	578 LM	EQU *	PT105780
05F0	D100 06D2	579 T3B	LM R0,T3BUF0	ZERO INTO ALL REG. R0 THRU R15 PT105790
05F4	0800	580 LHR	R0,R0	PT105800
05F6	2135	581 BNZS	T3R1	PT105810
05F8	050F	582 CLHR	R0,R15	IS R0 = R15 (=0) PT105820
05FA	2133	583 BNES	T3R1	PT105830
05FC	0507	584 CLHR	R0,R7	PT105840
05FE	2332	585 BES	T3C	PT105850
0600	2300	586 T3R1	BS T3R2	PT105860
0602	D170 0702	587 T3C	LM R7,T3BUF1	REG7=7,.....,REG15=15 PT105870
0606	0800	588 LHR	R0,R0	R0 THRU R6 MUST BE UNCHANGED PT105880
0608	2139	589 BNZS	T3R2	PT105890
060A	0866	590 LHR	R6,R6	PT105900
060C	2137	591 BNZS	T3R2	PT105910
060E	C570 0007	592 CLHI	R7,7	PT105920
0612	2134	593 BNES	T3R2	PT105930
0614	C580 0008	594 CLHI	R8,8	PT105940
0618	2332	595 BES	T3D	PT105950
061A	230F	596 T3R2	BS T3R3	PT105960
061C	C5F0 000F	597 T3D	CLHI R15,15	PT105970
0620	213C	598 BNES	T3R3	PT105980
0622	CCE0 C00E	599 CLHI	R14,14	PT105990

0626	2139	600	BNES	T3R3		PT106000	
0628	2544	601	LCS	R4,4	R4=FFFC	PT106010	
062A	2555	602	LCS	R5,5	R5=FFFFB	PT106020	
062C	2565	603	LCS	R6,5	R6=FFFFB	PT106030	
062E	D100 0602	604	LM	R5,T3BUF0	ALL REG. R5 THRU R15 = 0	PT106040	
0632	C540 FFFC	605	CLHI	R4,X'FFFC'		PT106050	
0636	2332	606	BES	T3E		PT106060	
0638	2300	607	T3R3	BS	T3R4	PT106070	
063A	0600	608	T3E	LHR	R0,R0	PT106080	
063C	2138	609	BNZS	T3R4		PT106090	
063E	0505	610	CLHR	R0,R5		PT106100	
0640	2139	611	BNES	T3R4		PT106110	
0642	0506	612	CLHR	R0,R6		PT106120	
0644	2137	613	BNES	T3R4		PT106130	
0646	050F	614	CLHR	R0,R15		PT106140	
0648	2135	615	BNES	T3R4		PT106150	
064A	050E	616	CLHR	R0,R14		PT106160	
064C	2133	617	BNES	T3R4		PT106170	
064E	0509	618	CLHR	R0,R9		PT106180	
0650	2333	619	SES	T3F		PT106190	
0652	4300 1E3C	620	T3R4	B	ERROR	PT106200	
0656	C800 0313	621	T3F	LHI	R0,X'313'	PT106210	
065A	4000 1F90	622	STH	R0,ERRIND		PT106220	
065E	2466	623	LIS	R6,6	270	PT106230	
0660	D106 06EE	624	LM	R0,T3BUF2-6(R6)	REG 0=0 REG 1=1 ETC	PT106240	
	0000 0664	625	STM	EQU *		PT106250	
0664	D008 070E	626	STM	R0,T3BUF3-8(R8)		PT106260	
0668	4800 0716	627	LH	R0,T3BUF3	0	PT106270	
066C	2130	628	BNZS	T3R5		PT106280	
066E	4800 0718	629	LH	R0,T3BUF3+2	1	PT106290	
0672	0501	630	CLHR	R0,R1		PT106300	
0674	2139	631	BNES	T3R5		PT106310	
0676	4800 071A	632	LH	R0,T3BUF3+4	2	PT106320	
067A	0502	633	CLHR	R0,R2		PT106330	
067C	2135	634	BNES	T3R5		PT106340	
067E	4800 0734	635	LH	R0,T3BUF3+30	15	PT106350	
0682	050F	636	CLHR	R0,R15		PT106360	
0684	2332	637	BES	T3G		PT106370	
0686	2300	638	T3R5	BS	T3R6	PT106380	
0688	4800 0732	639	T3G	LH	R0,T3BUF3+28	14	PT106390
068C	050E	640	CLHR	R0,R14		PT106400	
068E	2139	641	BNES	T3R6		PT106410	
0690	4800 0728	642	LH	R0,T3BUF3+18		PT106420	
0694	0590	643	CLHR	R9,R0		PT106430	
0696	2135	644	BNES	T3R6		PT106440	
0698	4800 0720	645	LH	R0,T3BUF3+10	5	PT106450	
069C	0505	646	CLHR	R0,R5		PT106460	
069E	2333	647	BES	T3H		PT106470	
06A0	4300 1E3C	648	T3R6	B	ERROR	PT106480	
06A4	D100 0602	649	T3H	LM	R0,T3BUF0	EACH REG. =0	PT106490
06A8	D000 0716	650	STH	R0,T3BUF3	T3BUF3 = 0	PT106500	
06AC	4800 0716	651	LH	R0,T3BUF3	0	PT106510	
06B0	213E	652	BNZS	T3R7		PT106520	
06B2	4800 0718	653	LH	R0,T3BUF3+2	1	PT106530	
06B6	213B	654	BNZS	T3R7		PT106540	

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06B8	4800 0734	655	LH	R0,T3BUF3+30	15	PT106550
06BC	2138	656	BNZS	T3R7		PT106560
06BE	4800 0724	657	LH	R0,T3BUF3+14	7	PT106570
06C2	2135	658	BNZS	T3R7		PT106580
06C4	4800 072A	659	LH	R0,T3BUF3+20	10	PT106590
06C8	4330 0738	660	BZ	T3END		PT106600
06CC	4300 1E3C	661	T3R7	B	ERROR	PT106610
06D0	FFFF	662	DC	X'FFFF'	ERROR 1303	PT106620
06D2	0000	663	T3BUF0	DC	0	PT106630
06D4	0000	664	DC	0	1	PT106640
06D6	0000	665	DC	0	2	PT106650
06D8	0000	666	DC	0	3	PT106660
06DA	0000	667	DC	0	4	PT106670
06DC	0000	668	DC	0	5	PT106680
06DE	0000	669	DC	0	6	PT106690
06E0	0000	670	DC	0	7	PT106700
06E2	0000	671	DC	0	8	PT106710
06E4	0000	672	DC	0	9	PT106720
06E6	0000	673	DC	0	10	PT106730
06E8	0000	674	DC	0	11	PT106740
06EA	0000	675	DC	0	12	PT106750
06EC	0000	676	DC	0	13	PT106760
06EE	0000	677	DC	0	14	PT106770
06F0	0000	678	DC	0	15	PT106780
06F2	FFFF	679	DC	X'FFFF'		PT106790
06F4	0000	680	T3BUF2	DC	0	PT106800
06F6	0001	681	DC	1		PT106810
06F8	0002	682	DC	2		PT106820
06FA	0003	683	DC	3		PT106830
06FC	0004	684	DC	4		PT106840
06FE	0005	685	DC	5		PT106850
0700	0006	686	DC	6		PT106860
0702	0007	687	T3BUF1	DC	7	PT106870
0704	0008	688	DC	8		PT106880
0706	0009	689	DC	9		PT106890
0708	000A	690	DC	10		PT106900
070A	000B	691	DC	11		PT106910
070C	000C	692	DC	12		PT106920
070E	000D	693	DC	13		PT106930
0710	000E	694	DC	14		PT106940
0712	000F	695	DC	15		PT106950
0714	FFFF	696	DC	X'FFFF'		PT106960
0716	0000	697	T3BUF3	DC	0	PT106970
0718	0000	698	DC	0	1	PT106980
071A	0000	699	DC	0	2	PT106990
071C	0000	700	DC	0	3	PT107000
071E	0000	701	DC	0	4	PT107010
0720	0000	702	DC	0	5	PT107020
0722	0000	703	DC	0	6	PT107030
0724	0000	704	DC	0	7	PT107040
0726	0000	705	DC	0	8	PT107050
0728	0000	706	DC	0	9	PT107060
072A	0000	707	DC	0	10	PT107070
072C	0000	708	DC	0	11	PT107080
072E	0000	709	DC	0	12	PT107090

0730 0000	710	DC 0	13	PT107100
0732 0000	711	DC 0	14	PT107110
0734 0000	712	DC 0	15	PT107120
0736 0000	713	DC 0		PT107130
0738 2301	714	T3END BS TEST4		PT107140
	715	*****	*****	PT107150
	716 *			PT107160
	717 *	TEST 4 CHECKS THE LOGIC INSTRUCTIONS		PT107170
	718 *			PT107180
	719 *	XHR , XHI , XH : OHR + OHI , OH ; NHR , NHI , NH		PT107190
	720 *			PT107200
073A C800 0934	721	TEST4 LHI R0,TEST5		PT107210
073E 4000 1F92	722	STH R0,NXTST		PT107220
0742 C800 0114	723	LHI R0,X'0114'		PT107230
0746 4000 1F90	724	STH R0,ERRIND	ERRIND = 0114	PT107240
074A C800 3134	725	LHI R0,X'3134'		PT107250
074E 4000 1F58	726	STH R0,TESTNO		PT107260
	727 *			PT107270
0752 D100 06D2	728	LM R0,T3BUFO	EACH REG. R0 THRU R15=0	PT107280
0756 4850 1F9C	729	LH R5,FIVE	R5=5555	PT107290
075A 48A0 1FA0	730	LH R10,TEN	R10=AAAA	PT107300
075E 25F1	731	LCS R15,1		PT107310
0000 0760	732	XHR EQU *		PT107320
0760 0705	733	XHR R0,R5	R0=R5=5555	PT107330
0762 2330	734	BZS T4R1		PT107340
0764 21CC	735	BTFS 12,12		PT107350
0766 050F	736	CLHR R0,R15		PT107360
0768 238A	737	BNLS T4R1		PT107370
076A 070A	738	XHR R0,R10		PT107380
076C 2338	739	BZS T4R1		PT107390
076E 21C7	740	BTFS 12,7		PT107400
0770 050F	741	CLHR R0,R15		PT107410
0772 2135	742	BNES T4R1		PT107420
0774 0703	743	XHR R0,R3	R0=FFFF,R3=0	PT107430
0776 2333	744	BZS T4R1		PT107440
0778 050F	745	CLHR R0,R15	R0 = FFFF	PT107450
077A 2333	746	BES T4B		PT107460
077C 4300 1E3C	747	T4R1 B ERROR	ERROR 1401	PT107470
0780 070A	748	T4B XHR R0,R10	R0 = 5555	PT107480
0782 2233	749	BZS T4R1		PT107490
0784 20C4	750	BTBS 12,4		PT107500
0786 0505	751	CLHR R0,R5		PT107510
0788 2036	752	BNES T4R1		PT107520
078A 0705	753	XHR R0,R5		PT107530
078C 2038	754	BNZS T4R1		PT107540
078E 0800	755	LHR R0,R0	R0 = 0	PT107550
0790 203A	756	BNZS T4R1		PT107560
0792 C700 5555	757	XHI R0,X'5555'	R0 = 5555	PT107570
0796 2230	758	BZS T4R1		PT107580
0798 20CE	759	BTBS 12,14		PT107590
079A 0505	760	CLHR R0,R5		PT107600
079C 213D	761	BNES T4R2		PT107610
0000 079E	762	XHI EQU *		PT107620
079E C700 AAAA	763	XHI R0,X'AAAA'	R0 = FFFF	PT107630
07A2 233A	764	BZS T4R2		PT107640

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07A4	21C9	765	BTFS	12,9	PT107650	
07A6	050F	766	CLHR	R0,R15	PT107660	
07A8	2137	767	BNES	T4R2	PT107670	
07AA	C700 0000	768	XHI	R0,0	PT107680	
07AE	2334	769	BZS	T4R2	PT107690	
07B0	21C3	770	BTFS	12,3	PT107700	
07B2	050F	771	CLHR	R0,R15	PT107710	
07B4	2333	772	BES	T4D	PT107720	
07B6	4300 1E3C	773	T4R2	B	ERROR	PT107730
07BA	C700 5555	774	T4D	XHI	R0,X'5555'	PT107740
07BE	2234	775	BZS	T4R2	PT107750	
07C0	050A	776	CLHR	R0,R10	PT107760	
07C2	2036	777	BNES	T4R2	PT107770	
07C4	C700 AAAA	778	XHI	R0,X'AAAA'	PT107780	
07C8	2039	779	BNZS	T4R2	PT107790	
07CA	0800	780	LHR	R0,R0	PT107800	
07CC	203B	781	BNZS	T4R2	PT107810	
	0000 07CE	782	XH	EQU	*	PT107820
07CE	4700 1F9C	783	XH	R0,FIVE	PT107830	
07D2	223E	784	BZS	T4R2	PT107840	
07D4	0505	785	CLHR	R0,R5	PT107850	
07D6	213B	786	BNES	T4R3	PT107860	
07D8	4700 1FA0	787	XH	R0,TEN	PT107870	
07DC	2338	788	BZS	T4R3	PT107880	
07DE	050F	789	CLHR	R0,R15	PT107890	
07E0	2136	790	BNES	T4R3	PT107900	
07E2	4700 1F94	791	XH	R0,ZERO	PT107910	
07E6	2333	792	BZS	T4R3	PT107920	
07E8	050F	793	CLHR	R0,R15	PT107930	
07EA	2333	794	BES	T4E	PT107940	
07EC	4300 1E3C	795	T4R3	B	ERROR	PT107950
		796	*			PT107960
07F0	C870 0214	797	T4E	LHI	R7,X'214'	PT107970
07F4	4070 1F90	798	STH	R7,ERRIND	ERRIND = 0214	PT107980
		799	*			PT107990
07F8	4700 1FA0	800	XH	R0,TEN	PT108000	
07FC	2238	801	BZS	T4R3	PT108010	
07FE	0505	802	CLHR	R0,R5	PT108020	
0800	203A	803	BNES	T4R3	PT108030	
0802	4700 1F9C	804	XH	R0,FIVE	PT108040	
0806	203D	805	BNZS	T4R3	PT108050	
0808	0800	806	LHR	R0,R0	PT108060	
080A	203F	807	BNZS	T4R3	PT108070	
		808	*			PT108080
		809	*	THE REG. HAVE THE VALUES:		PT108090
		810	*			PT108100
		811	*	R0=0,R5=5555,R10=AAAA,R15=FFFF		PT108110
		812	*			PT108120
		813	*	ALL OTHERS=0		PT108130
		814	*			PT108140
080C	087F	815	LHR	R7,R15	R7=R15=FFFF	PT108150
	0000 080E	816	OHR	EQU	*	PT108160
080E	0640	817	OHR	R4,R0	R4=R0=0	PT108170
0810	213F	818	BNZS	T4R4		PT108180
0812	0540	819	CLHR	R4,R0	R4=R0= ?	PT108190

0814	213D	820	BNES	T4R4		PT108200
	0000 0816	821	OHI	EQU *		PT108210
0816	C640 0000	822	OHI	R4,0	R4=0	PT108220
081A	213A	823	BNZS	T4R4		PT108230
081C	0540	824	CLHR	R4,R0		PT108240
081E	2138	825	BNES	T4R4		PT108250
	0000 0820	826	OH	EQU *		PT108260
0820	4640 1F94	827	OH	R4,ZERO	R4=ZERO=0	PT108270
0824	2135	828	BNZS	T4R4		PT108280
0826	C540 0000	829	CLHI	R4,R0		PT108290
082A	4330 0832	830	BE	T4G		PT108300
082E	4300 1E3C	831	T4R4	B	ERROR	PT108310
0832	0674	832	T4G	OHR	R7,R4	PT108320
0834	2233	833	BZS	T4R4		PT108330
0836	20C4	834	BTBS	12,4		PT108340
0838	057F	835	CLHR	R7,R15	R7=R15=FFFF?	PT108350
083A	2036	836	BNES	T4R4		PT108360
083C	0540	837	CLHR	R4,R0	R4=R0=0?	PT108370
083E	2038	838	BNES	T4R4		PT108380
0840	C670 0000	839	OHI	R7,0	R7=FFFF	PT108390
0844	2238	840	BZS	T4R4		PT108400
0846	057F	841	CLHR	R7,R15	R7=R15=FFFF?	PT108410
0848	203D	842	BNES	T4R4		PT108420
084A	4670 1F94	843	OH	R7,ZERO	R7=FFFF,ZERO=0	PT108430
084E	2330	844	BZS	T4R5		PT108440
0850	21CC	845	BTFS	12,12		PT108450
0852	057F	846	CLHR	R7,R15	R7=R15=FFFF?	PT108460
0854	213A	847	BNES	T4R5		PT108470
0856	0647	848	OHR	R4,R7	R4=R7=FFFF	PT108480
0858	2338	849	BZS	T4R5		PT108490
085A	21C7	850	BTFS	12,7		PT108500
085C	054F	851	CLHR	R4,R15	R4=R15=FFFF?	PT108510
085E	2135	852	BNES	T4R5		PT108520
0860	057F	853	CLHR	R7,R15		PT108530
0862	C600 FFFF	854	OHI	R0,X'FFFF'	R0=FFFF	PT108540
0866	2133	855	BNZS	T4H		PT108550
0868	4300 1E3C	856	T4R5	B	ERROR	PT108560
086C	050F	857	T4H	CLHR	R0,R15	PT108570
086E	2033	858	BNES	T4R5		PT108580
0870	4680 1F98	859	OH	R8,ONE		PT108590
0874	2236	860	BZS	T4R5		PT108600
0876	20C6	861	BTBS	12,6		PT108610
0878	058F	862	CLHR	R8,R15	R8=R15=FFFF?	PT108620
087A	064F	863	OHR	R4,R15	R4=FFFF,R15=FFFF	PT108630
087C	223A	864	BZS	T4R5		PT108640
087E	20C9	865	BTBS	12,9		PT108650
0880	C600 0000	866	OHI	R0,0	R0=FFFF	PT108660
0884	2338	867	BZS	T4R6		PT108670
0886	050F	868	CLHR	R0,R15	R0=R15=FFFF?	PT108680
0888	2136	869	BNES	T4R6		PT108690
088A	4680 1F98	870	OH	R8,ONE	R8=FFFF,ONE=FFFF	PT108700
088E	2333	871	BZS	T4R6		PT108710
0890	058F	872	CLHR	R8,R15		PT108720
0892	2333	873	BES	T4J		PT108730
0894	4300 1E3C	874	T4R6	B	ERROR	PT108740

		875 *		PT108750	
		876 *	THE REG. HAVE THE VALUES:	PT108760	
		877 *		PT108770	
		878 *	R0=R4=R8=FFFF	PT108780	
		879 *		PT108790	
		880 *	R5=5555,R10=AAAA,R15=FFFF	PT108800	
		881 *		PT108810	
		882 *	ALL OTHERS=0	PT108820	
		883 *		PT108830	
0898	C800 0314	884 T4J	LHI R0,X'314'	PT108840	
089C	4000 1F90	885 STH	R0,ERRIND	ERRIND = 0314	PT108850
		886 *		PT108860	
08A0	2400	887 LIS	R0,0	R0=0	PT108870
08A2	2490	888 LIS	R9,0	R9=0	PT108880
	0000 08A4	889 NHR	EQU *		PT108890
08A4	0490	890 NHR	R9,R0		PT108900
08A6	213F	891 BNZS	T4R7		PT108910
08A8	0899	892 LHR	R9,R9		PT108920
08AA	213D	893 BNZS	T4R7		PT108930
08AC	0590	894 CLHR	R9,R0	R9=R0=0?	PT108940
08AE	213B	895 BNZS	T4R7		PT108950
	0000 08B0	896 NH	EQU *		PT108960
08B0	4490 1F94	897 NH	R9,ZERO	R9=0,ZERO=0	PT108970
08B4	2138	898 BNZS	T4R7		PT108980
08B6	0590	899 CLHR	R9,R0	R9=R0=0?	PT108990
08B8	2136	900 BNES	T4R7		PT109000
	0000 08BA	901 NHI	EQU *		PT109010
08BA	C490 0000	902 NHI	R9,0		PT109020
08BE	2133	903 BNZS	T4R7		PT109030
08C0	0590	904 CLHR	R9,R0	R9=0000	PT109040
08C2	2333	905 BES	T4K		PT109050
08C4	4300 1E3C	906 T4R7	B ERROR	ERR0= 1403	PT109060
08C8	0498	907 T4K	NHR R9,R8	R9=0,R8=FFFF	PT109070
08CA	2033	908 BNZS	T4R7		PT109080
08CC	058F	909 CLHR	R8,R15	R8=R15=FFFF?	PT109090
08CE	2035	910 BNES	T4R7		PT109100
08D0	0590	911 CLHR	R9,R0	R9=R0=0?	PT109110
08D2	2037	912 BNES	T4R7		PT109120
08D4	C490 FFFF	913 NHI	R9,X'FFFF'	R9=0	PT109130
08D6	203A	914 BNZS	T4R7		PT109140
08DA	0590	915 CLHR	R9,R0	R9=R0=0?	PT109150
08DC	203C	916 BNES	T4R7		PT109160
08DE	4490 1F98	917 NH	R9,ONE	R9=0,ONE=FFFF	PT109170
08E2	203F	918 BNZS	T4R7		PT109180
08E4	0590	919 CLHR	R9,R0		PT109190
08E6	0448	920 NHR	R4,R8	R4=FFFF,R8=FFFF	PT109200
08E8	233A	921 BZS	T4R8		PT109210
08EA	21C9	922 BTFS	12,9		PT109220
08EC	054F	923 CLHR	R4,R15	R4=R15=FFFF?	PT109230
08EE	2137	924 BNES	T4R8		PT109240
08F0	058F	925 CLHR	R8,R15	R8=R15=FFFF?	PT109250
08F2	C440 FFFF	926 NHI	R4,X'FFFF'		PT109260
08F6	2333	927 BZS	T4R8		PT109270
08F8	054F	928 CLHR	R4,R15	R4=R15=FFFF?	PT109280
08FA	2333	929 BES	T4L		PT109290

08FC	4300 1E3C	930	T4R8	8	ERROR	ERROR 1403	PT109300	
0900	4440 1F98	931	T4L	NH	R4,ONE		PT109310	
0904	2234	932	BZS	T4R8			PT109320	
0906	20C5	933	BTBS	12,5			PT109330	
0908	054F	934	CLHR	R4,R15	R4=R15=FFFF?		PT109340	
090A	2037	935	BNES	T4R8			PT109350	
090C	0440	936	NHR	R4,R0	R4=FFFF,R0=0 R4=R0=0		PT109360	
090E	2039	937	BNZS	T4R8			PT109370	
0910	0844	938	LHR	R4,R4			PT109380	
0912	2038	939	BNZS	T4R8			PT109390	
0914	0540	940	CLHR	R4,R0			PT109400	
0916	213C	941	BNES	T4R9			PT109410	
0918	C480 0000	942	NHI	R8,0	R8=FFFF R8=0		PT109420	
091C	2139	943	BNZS	T4R9			PT109430	
091E	0580	944	CLHR	R8,R0	R8=R0=0?		PT109440	
0920	2137	945	BNES	T4R9			PT109450	
0922	087F	946	LHR	R7,R15	R7=R15=FFFF		PT109460	
0924	4470 1F94	947	NH	R7,ZERO	R7=FFFF,ZERO=0 R7=0		PT109470	
0928	2133	948	BNZS	T4R9			PT109480	
092A	0570	949	CLHR	R7,R0			PT109490	
092C	2333	950	BES	T4END			PT109500	
092E	4300 1E3C	951	T4R9	B	ERROR	ERROR 1403	PT109510	
0932	2301	952	T4END	BS	TEST5		PT109520	
		953	*****					PT109530
		954	*				PT109540	
		955	*	TEST 5 TESTS THE INSTRUCTIONS			PT109550	
		956	*				PT109560	
		957	*				PT109570	
		958	*	BAL , BXLE , BXH , BR , BTCR,BFCR , BALR			PT109580	
		959	*				PT109590	
		960	*	(ERR1, ERR2,3,4 ERR5,6,7)			PT109600	
		961	*				PT109610	
		0934	C800 0A8C	962	TEST5	LHI R0,TEST6	PT109620	
		0938	4000 1F92	963	STH	R0,NXTST	PT109630	
		093C	C800 0115	964	LHI	R0,X'0115'	PT109640	
		0940	4000 1F90	965	STH	R0,ERRIND	PT109650	
		0944	C800 3135	966	LHI	R0,X'3135'	PT109660	
		0948	4000 1F58	967	STH	R0,TESTNO	PT109670	
			0000 094C	968	*		PT109680	
		094C	4100 0952	969	BAL	EQU *	PT109690	
		0950	230C	970	BAL	R0,T5A2	PT109700	
		0952	C810 0950	971	T5A1	BS T5ERR1	PT109710	
		0956	0501	972	T5A2	LHI R1,T5A1	PT109720	
		0958	2138	973	CLHR	R0,R1	PT109730	
		095A	4130 0960	974	BNES	T5ERR1	PT109740	
		095E	2305	975	BAL	R3,T5B2	PT109750	
		0960	C820 095E	976	T5B1	BS T5ERR1	PT109760	
		0964	0523	977	T5B2	LHI R2,T5B1	PT109770	
		0966	2333	978	CLHR	R2,R3	PT109780	
		0968	4300 1E3C	979	BES	T5C	PT109790	
		096C	C800 0992	980	T5ERR1	B ERROR	PT109800	
		0970	2440	981	T5C	LHI R0,T5D2	PT109810	
		0972	2451	982	LIS	R4,0	PT109820	
		0974	2468	983	LIS	R5,1	PT109830	
				984	LIS	R6,8	PT109840	
						R6 = 8 = FINAL VALUE		

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0976	C540 0009	985	T5D	CLHI	R4,9	PT109850	
097A	233A	986		BES	T5ERR2	PT109860	
	0000 097C	987	BXLE	EQU	*	PT109870	
097C	C140 0976	988		BXLE	R4,T5D	PT109880	
0980	C540 0009	989		CLHI	R4,9	PT109890	
0984	2135	990		BNES	T5ERR2	PT109900	
0986	C560 0008	991		CLHI	R6,8	PT109910	
098A	2132	992		BNES	T5ERR2	PT109920	
098C	230D	993		BS	T5D3	PT109930	
098E	4300 09E8	994	T5ERR2	B	T5ERR4	PT109940	
0992	4300 09F8	995	T5D2	B	T5E1	(2) TO T5E1	PT109950
0996	4300 0A00	996	T5E2	B	T5F	(4) TO T5F	PT109960
099A	2411	997		LIS	R1,1	DUMMY	PT109970
099C	2408	998	T5F2	LIS	R0,8		PT109980
099E	4300 0A0C	999		B	T5G	(6) TO T5G	PT109990
09A2	4300 0A78	1000	T5Q	B	T5Q2		PT110000
09A6	C870 9684	1001	T5D3	LHI	R7,X'9684'	R7 = INIT. VALUE	PT110010
09AA	2482	1002		LIS	R8,2		PT110020
09AC	C890 F436	1003		LHI	R9,X'F436'		PT110030
09B0	C570 F437	1004	T5D4	CLHI	R7,X'F437'		PT110040
09B4	2389	1005		BNLS	T5ERR3		PT110050
09B6	C170 09B0	1006		BXLE	R7,T5D4		PT110060
09BA	C570 F438	1007		CLHI	R7,X'F438'		PT110070
09BE	2134	1008		BNES	T5ERR3		PT110080
09C0	C590 F436	1009		CLHI	R9,X'F436'		PT110090
09C4	2333	1010		BES	T5D5		PT110100
09C6	4300 09E8	1011	T5ERR3	B	T5ERR4		PT110110
09CA	C840 7328	1012	T5D5	LHI	R4,X'7328'		PT110120
09CE	2452	1013		LIS	R5,2		PT110130
09D0	C860 9648	1014		LHI	R6,X'9648'		PT110140
09D4	C540 9649	1015	T5B3	CLHI	R4,X'9649'		PT110150
09D8	2388	1016		BNLS	T5ERR4		PT110160
	0000 09DA	1017	BXH	EQU	*		PT110170
09DA	C040 09E0	1018		BXH	R4,T5B4		PT110180
09DE	2205	1019		BS	T5B3		PT110190
09E0	C540 964A	1020	T5B4	CLHI	R4,X'964A'		PT110200
09E4	2182	1021		BLS	T5ERR4		PT110210
09E6	2307	1022		BS	T5E		PT110220
09E8	C800 0215	1023	T5ERR4	LHI	R0,X'0215'	ERRIND = 0215	PT110230
09EC	4000 1F90	1024		SIH	R0,ERRIND		PT110240
09F0	4300 1E3C	1025		B	ERROR	ERROR 1502	PT110250
	0000 09F4	1026	BR	EQU	*		PT110260
09F4	0300	1027	T5E	BR	R0	R0 = ADD. OF T5D2 (1) TO T5D2	PT110270
09F6	230A	1028		BS	T5R5		PT110280
09F8	C860 0996	1029	T5E1	LHI	R6,T5E2		PT110290
09FC	0306	1030		BR	R6	(3) TO T5E2	PT110300
09FE	2306	1031		BS	T5R5		PT110310
0A00	2400	1032	T5F	LIS	R0,0		PT110320
0A02	2410	1033		LIS	R1,0		PT110330
0A04	C850 099C	1034		LHI	R5,T5F2		PT110340
0A08	0305	1035		BR	R5	(5) TO T5F2	PT110350
0A0A	230B	1036	T5R5	BS	T5ERR5	ERROR 1503	PT110360
0A0C	C500 0008	1037	T5G	CLHI	R0,8	NO ERR. IF R4 = 8	PT110370
0A10	2138	1038		BNES	T5ERR5		PT110380
0A12	0811	1039		LHR	R1,R1	R1 MUST BE ZERO	PT110390

0A14	2136	1040	BNZS	T5ERR5	PT110400		
0A16	4300 0A3A	1041	B	T5K1	PT110410		
0A1A	4300 0A4C	1042	T5H1	B T5K2	(9) TO T5K2	PT110420	
0A1E	2301	1043	T5H2	BS	T5ERR5	PT110430	
0A20	4300 0A7E	1044	T5ERR5	B	T5ERR7	PT110440	
0A24	4300 0A5C	1045	T5H3	B	T5K3	PT110450	
0A28	2204	1046	T5H4	BS	T5ERR5	PT110460	
0A2A	C820 0A64	1047	T5J1	LHI	R2,T5L	PT110470	
0A2E	0512	1048	CLHR	R1,R2	PT110480		
0A30	2038	1049	BNES	T5ERR5	PT110490		
0A32	C830 0A66	1050	LHI	R3,T5M	R3 = (T5M)	PT110500	
0A36	0143	1051	BALR	R4,R3	(13) TO T5M , R4 = (T5J3)	PT110510	
0A38	220C	1052	T5J3	BS	T5ERR5	PT110520	
		1053	*			PT110530	
0A3A	C800 0A1A	1054	T5K1	LHI	R0,T5H1	R0 = ADD. OF T5H1	PT110540
0A3E	C850 0A1E	1055	LHI	R5,T5H2	R5 = ADD. OF T5H2	PT110550	
0A42	2418	1056	LIS	R1,8		PT110560	
0A44	0511	1057	CLHR	R1,R1	COND. CODE = 0000	PT110570	
	0000 0A46	1058	BFCR	EQU *		PT110580	
0A46	0330	1059	BFCR	3,R0	(8) TO T5H1	PT110590	
0A48	4300 09E8	1060	B	T5ERR4	ERR. IF NO BRANCH TAKEN	PT110600	
	0000 0A4C	1061	BTCR	EQU *		PT110610	
0A4C	0235	1062	T5K2	BTCR	3,R5	ERR. IF BRANCH TO R5 (T5H2)	PT110620
0A4E	C840 0A24	1063	LHI	R4,T5H3	R4 = ADD. OF T5H3	PT110630	
0A52	C860 0A28	1064	LHI	R6,T5H4	R6 = ADD. OF T5H4	PT110640	
0A56	0516	1065	CLHR	R1,R6	R1 < R6 , COND. CODE = 1000	PT110650	
0A58	0284	1066	BTCR	8,R4	(10) TO T5H3	PT110660	
0A5A	230A	1067	BS	T5ERR6		PT110670	
0A5C	0386	1068	T5K3	BFCR	8,R6	ERR. IF BRANCH	PT110680
		1069	*			PT110690	
0A5E	C890 0A2A	1070	LHI	R9,T5J1		PT110700	
0A62	0119	1071	BALR	R1,R9	(12) TO T5J1 , R1 = (T5L)	PT110710	
0A64	2305	1072	T5L	BS	T5ERR6	PT110720	
0A66	C880 0A38	1073	T5M	LHI	R8,T5J3	PT110730	
0A6A	0548	1074	CLHR	R4,R8		PT110740	
0A6C	2332	1075	BES	T5P		PT110750	
0A6E	2308	1076	T5ERR6	BS	T5ERR7	ERROR 1503	PT110760
0A70	C870 09A2	1077	T5P	LHI	R7,T5Q	R7 = ADD. OF T5Q	PT110770
	0000 0A74	1078	BALR	EQU *		PT110780	
0A74	0177	1079	BALR	R7,R7		PT110790	
0A76	2304	1080	T5R7	BS	T5ERR7	PT110800	
0A78	C570 0A76	1081	T5Q2	CLHI	R7,T5R7	IS R7 = ADD. OF T5R7	PT110810
0A7C	2337	1082	BES	T5END		PT110820	
0A7E	C800 0315	1083	T5ERR7	LHI	R0,X'0315'	ERROR 1503	PT110830
0A82	4000 1F90	1084	STH	R0,ERRIND		PT110840	
0A86	4300 1E3C	1085	B	ERROR		PT110850	
0A8A	2301	1086	T5END	BS	TEST6	PT110860	
		1087	*****				PT110870
		1088	*			PT110880	
		1089	*	TEST 6 CHECKS THE INSTRUCTIONS		PT110890	
		1090	*			PT110900	
		1091	*	EPSR , SLLS , SRLS , SLHL , SRHL		PT110910	
		1092	*			PT110920	
		1093	*	(T6R1 , T6R2,T6R3,T6R4 , T6R5,T6R6)		PT110930	
		1094	*			PT110940	

		1095 *			PT110950	
		1096 *	SLHA	, SRHA	, THI	PT110960
		1097 *				PT110970
		1098 *	(T6R7,T6R8,T6R9	, T6RA)		PT110980
		1099 *				PT110990
0A8C	C800 0CD2	1100 TEST6	LHI	R0,TEST7		PT111000
0A90	4000 1F92	1101 STH	R0,NXTST			PT111010
0A94	C800 3136	1102 LHI	R0,C'16'			PT111020
0A98	4000 1F58	1103 STH	R0,TESTNO			PT111030
0A9C	C800 0116	1104 LHI	R0,X'0116'			PT111040
3AA0	4000 1F90	1105 STH	R0,ERRIND	ERRIND = 0116		PT111050
		1106 *				PT111060
0AA4	2400	1107 LIS	R0,0			PT111070
	0000 0AA6	1108 EPSR	EQU *			PT111080
0AA6	9510	1109 EPSR	R1,R0			PT111090
0AA8	2511	1110 LCS	R1,1			PT111100
0AAA	2400	1111 LIS	R0,0			PT111110
0AAC	9510	1112 EPSR	R1,R0	PSW INTO R1 , R0 INTO PSW		PT111120
0AAE	2138	1113 BNZS	T6R1			PT111130
0AB0	0800	1114 LHR	R0,R0			PT111140
0AB2	2139	1115 BNZS	T6R1			PT111150
0AB4	0510	1116 CLHR	R1,R0			PT111160
0AB6	2137	1117 BNES	T6R1			PT111170
0AB8	2511	1118 LCS	R1,1			PT111180
0ABA	2400	1119 LIS	R0,0	COND. CODE = 0 , R0 = 0		PT111190
0ABC	9511	1120 EPSR	R1,R1	R1 = PSW = 0 ?		PT111200
0ABE	2133	1121 BNZS	T6R1			PT111210
0AC0	0510	1122 CLHR	R1,R0			PT111220
0AC2	2333	1123 BES	T6A1			PT111230
0AC4	4300 1E3C	1124 T6R1	B	ERROR	ERROR 1601	PT111240
0AC8	C810 7C0F	1125 T6A1	LHI	R1,X'7C0F'		PT111250
0ACC	9501	1126 EPSR	R0,R1	NEW PSW = R1 = 7C0F		PT111260
0ACE	2440	1127 LIS	R4,0			PT111270
0AD0	9540	1128 EPSR	R4,R0	R4 = NEW PSW = 7C0F		PT111280
0AD2	C540 7C00	1129 M5004	CLHI	R4,X'7C00'		PT111290
0AD6	2039	1130 BNES	T6R1			PT111300
0AD8	9511	1131 EPSR	R1,R1			PT111310
0ADA	203B	1132 BNZS	T6R1			PT111320
0ADC	0811	1133 LHR	R1,R1			PT111330
0AEE	203D	1134 BNZS	T6R1			PT111340
0AE0	2402	1135 T6B	LIS	R0,2		PT111350
0AE2	D200 1F90	1136 STB	R0,ERRIND	ERRIND = 0216		PT111360
		1137 *				PT111370
0AE6	C860 D2BB	1138 LHI	R6,X'D2BB'	R6 = 1101,0010,1011,1011		PT111380
0AEA	C870 DD4B	1139 LHI	R7,X'DD4B'	R7 = 1101,1101,0100,1011		PT111390
	0000 0AEE	1140 SLLS	EQU *			PT111400
0AEE	9170	1141 SLLS	R7,0	SHIFT LEFT SHORT 0		PT111410
0AF0	218C	1142 BCS	T6R2			PT111420
	0000 0AF2	1143 SRLS	EQU *			PT111430
0AF2	9070	1144 SRLS	R7,0	SHIFT RIGHT SHORT 0		PT111440
0AF4	212A	1145 BPS	T6R2			PT111450
	0000 0AF6	1146 SLHL	EQU *			PT111460
0AF6	CD70 0000	1147 SLHL	R7,0	SHIFT LEFT HW 0		PT111470
0AFA	2187	1148 BCS	T6R2			PT111480
	0000 0AFC	1149 SRHL	EQU *			PT111490

0AFC	CC70 0000	1150	SRHL	R7,0	SHIFT RIGHT HW	0	PT111500
0B00	2124	1151	BPS	T6R2			PT111510
0B02	CF60 0000	1152	SLHA	R6,0			PT111520
0B06	2383	1153	BNCS	T6B2			PT111530
0B08	4300 1E3C	1154	T6R2	B	ERROR	1602	PT111540
	0000 0B0C	1155	SRHA	EQU	*		PT111550
0B0C	CE60 0000	1156	T6B2	SRHA	R6,0		PT111560
0B10	2024	1157	BPS	T6R2			PT111570
0B12	C560 D2BB	1158	CLHI	R6,X'D2BB'			PT111580
0B16	2037	1159	BNES	T6R2			PT111590
0B18	C570 DD43	1160	CLHI	R7,X'DD+0'			PT111600
0B1C	203A	1161	BNES	T6R2			PT111610
0B1E	9161	1162	SLLS	R6,1	SHIFT LEFT SHORT	1	PT111620
0B20	228C	1163	BNCS	T6R2			PT111630
0B22	C560 A576	1164	T6B4	CLHI	R6,X'A576'		PT111640
0B26	213D	1165	BNES	T6R3			PT111650
0B28	9162	1166	SLLS	R6,2	SHIFT LEFT SHORT	2	PT111660
0B2A	218B	1167	BCS	T6R3			PT111670
0B2C	C560 95D8	1168	CLHI	R6,X'95D8'			PT111680
0B30	2138	1169	BNES	T6R3			PT111690
0B32	9164	1170	SLLS	R6,4	SHIFT LEFT SHORT	4	PT111700
0B34	2386	1171	BNCS	T6R3			PT111710
0B36	C560 5D80	1172	CLHI	R6,X'5D80'			PT111720
0B3A	2133	1173	BNES	T6R3			PT111730
0B3C	9168	1174	SLLS	R6,8	SHIFT LEFT SHORT	8	PT111740
0B3E	2183	1175	BCS	T6B6			PT111750
0B40	4300 1E3C	1176	T6R3	B	ERROR	1602	PT111760
0B44	C560 8000	1177	T6B6	CLHI	R6,X'8000'		PT111770
0B48	2034	1178	BNES	T6R3			PT111780
0B4A	C570 DD4B	1179	CLHI	R7,X'DD4B'	R7 MUST BE UNCHANGED		PT111790
0B4E	2037	1180	BNES	T6R3			PT111800
0B50	C840 2369	1181	T6C	LHI	R4,X'2369'		PT111810
0B54	9041	1182	SRLS	R4,1	SHIFT RIGHT SHORT	1	PT111820
0B56	228B	1183	BNCS	T6R3			PT111830
0B58	C540 11B4	1184	CLHI	R4,X'11B4'			PT111840
0B5C	213D	1185	BNES	T6R4			PT111850
0B5E	9042	1186	SRLS	R4,2	SHIFT RIGHT SHORT	2	PT111860
0B60	2183	1187	BCS	T6R4			PT111870
0B62	C540 046D	1188	CLHI	R4,X'46D'			PT111880
0B66	2138	1189	BNES	T6R4			PT111890
0B68	9044	1190	SRLS	R4,4	SHIFT RIGHT SHORT	4	PT111900
0B6A	2386	1191	BNCS	T6R4			PT111910
0B6C	C540 0046	1192	CLHI	R4,X'46'			PT111920
0B70	2133	1193	BNES	T6R4			PT111930
0B72	9048	1194	SRLS	R4,8	SHIFT RIGHT SHORT	8	PT111940
0B74	2333	1195	BZS	T6C3			PT111950
0B76	4300 1E3C	1196	T6R4	B	ERROR	1602	PT111960
0B7A	0844	1197	T6C3	LHR	R4,R4		PT111970
0B7C	2033	1198	BNZS	T6R4			PT111980
0B7E	2403	1199	T6D	LIS	R0,3		PT111990
0B80	D200 1F90	1200	STB	R0,ERRIND	ERRIND = 0316		PT112000
0B84	C840 D2BB	1201	LHI	R4,X'D2BB'			PT112010
0B88	CD40 0001	1202	SLHL	R4,1	SHIFT LEFT HW	1	PT112020
0B8C	238E	1203	BNCS	T6R5			PT112030
0B8E	C540 A576	1204	CLHI	R4,X'A576'			PT112040

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0B92	2138	1205	BNES	T6R5		PT112050
0B94	CD40 0002	1206	SLHL	R4,2	SHIFT LEFT HW 2	PT112060
0B98	2188	1207	BCS	T6R5		PT112070
0B9A	C540 95D8	1208	CLHI	R4,X'95D8'		PT112080
0B9E	2135	1209	BNES	T6R5		PT112090
0BA0	2474	1210	LIS	R7,4		PT112100
0BA2	CD47 0000	1211	SLHL	R4,0(R7)		PT112110
0BA6	2193	1212	BCS	T6D2		PT112120
0BA8	4300 1E3C	1213	T6R5	B	ERROR	PT112130
0BAC	C540 5D80	1214	T6D2	CLHI	R4,X'5D80'	PT112140
0BB0	2034	1215	BNES	T6R5		PT112150
0BB2	CD40 0008	1216	SLHL	R4,8	SHIFT LEFT HW 8	PT112160
0BB6	2287	1217	BNCS	T6R5		PT112170
0BB8	C540 8000	1218	CLHI	R4,X'8000'		PT112180
0BBC	203A	1219	BNES	T6R5		PT112190
0B8E	C860 2369	1220	T6E	LHI	R6,X'2369'	PT112200
0BC2	CC60 0001	1221	SRHL	R6,1	SHIFT RIGHT HW 1	PT112210
0BC6	2380	1222	BNCS	T6R6		PT112220
0BC8	C560 11B4	1223	CLHI	R6,X'11B4'		PT112230
0BCC	213A	1224	BNES	T6R6		PT112240
0BCE	CC60 0002	1225	SRHL	R6,2	SHIFT RIGHT HW 2	PT112250
0BD2	2187	1226	BCS	T6R6		PT112260
0BD4	C560 0460	1227	CLHI	R6,X'460'		PT112270
0BD8	2134	1228	BNES	T6R6		PT112280
0BDA	CC60 0004	1229	SRHL	R6,4	SHIFT RIGHT HW 4	PT112290
0BDE	2183	1230	BCS	T6E2		PT112300
0BE0	4300 1E3C	1231	T6R6	B	ERROR	PT112310
0BE4	C560 0046	1232	T6E2	CLHI	R6,X'46'	PT112320
0BE8	2034	1233	BNES	T6R6		PT112330
0BEA	2478	1234	LIS	R7,8		PT112340
0BEC	CC67 0000	1235	SRHL	R6,0(R7)		PT112350
0BF0	2038	1236	BNZS	T6R6		PT112360
0BF2	0866	1237	LHR	R6,R6		PT112370
0BF4	203A	1238	BNZS	T6R6		PT112380
0BF6	2404	1239	T6F	LIS	R0,4	PT112390
0BF8	D200 1F90	1240	STB	R0,ERRIND	ERRIND = 0416	PT112400
0BFC	C860 496C	1241	LHI	R6,X'496C'		PT112410
0C00	CF60 0001	1242	SLHA	R6,1	SHIFT LEFT HW ARITH. 1	PT112420
0C04	238E	1243	BNCS	T6R7		PT112430
0C06	C560 12D8	1244	CLHI	R6,X'12D8'		PT112440
0C0A	213B	1245	BNES	T6R7		PT112450
0C0C	CF60 0002	1246	SLHA	R6,2	SHIFT LEFT HW ARITH. 2	PT112460
0C10	2188	1247	BCS	T6R7		PT112470
0C12	C560 4B60	1248	CLHI	R6,X'4B60'		PT112480
0C16	2135	1249	BNES	T6R7		PT112490
0C18	9161	1250	SLLS	R6,1	R6 = 96C0 = -VE NO.	PT112500
0C1A	CF60 0004	1251	SLHA	R6,4	SHIFT LEFT HW ARITH. 4	PT112510
0C1E	2383	1252	BNCS	T6F3		PT112520
0C20	4300 1E3C	1253	T6R7	B	ERROR	PT112530
0C24	C560 EC00	1254	T6F3	CLHI	R6,X'EC00'	PT112540
0C28	2034	1255	BNES	T6R7		PT112550
0C2A	C860 ECAA	1256	LHI	R6,X'ECAA'		PT112560
0C2E	CF60 0008	1257	SLHA	R6,8	SHIFT LEFT HW ARITH. 8	PT112570
0C32	2289	1258	BNCS	T6R7		PT112580
0C34	C560 AA00	1259	CLHI	R6,X'AA00'		PT112590

0C38	203C	1260	BNES	T6R7		PT112600	
0C3A	C870 6729	1261	T6G	LHI	R7,X'6729'	PT112610	
0C3E	CE70 0001	1262	SRHA	R7,1		PT112620	
0C42	238C	1263	BNCS	T6R8		PT112630	
0C44	232B	1264	BNPS	T6R8		PT112640	
0C46	C570 3394	1265	CLHI	R7,X'3394'		PT112650	
0C4A	2138	1266	BNES	T6R8		PT112660	
0C4C	CE70 0002	1267	SRHA	R7,2		PT112670	
0C50	2185	1268	BCS	T6R8		PT112680	
0C52	2324	1269	BNPS	T6R8		PT112690	
0C54	C570 0CE5	1270	CLHI	R7,X'CE5'		PT112700	
0C58	2333	1271	BES	T6G4		PT112710	
0C5A	4300 1E3C	1272	T6R8	B	ERROR	PT112720	
0C5E	C860 948A	1273	T6G4	LHI	R6,X'948A'	PT112730	
0C62	CE60 0004	1274	SRHA	R6,4		PT112740	
0C66	2286	1275	BNCS	T6R8		PT112750	
0C68	2027	1276	BPS	T6R8		PT112760	
0C6A	C560 F948	1277	CLHI	R6,X'F948'		PT112770	
0C6E	203A	1278	BNES	T6R8		PT112780	
0C70	CE60 0008	1279	SRHA	R6,8		PT112790	
0C74	2185	1280	BCS	T6R9		PT112800	
0C76	2124	1281	T6G8	BPS	T6R9	PT112810	
0C78	C560 FFF9	1282	CLHI	R6,X'FFF9'		PT112820	
0C7C	2333	1283	BES	T6H		PT112830	
0C7E	4300 1E3C	1284	T6R9	B	ERROR	PT112840	
0C82	2405	1285	T6H	LIS	R0,5	PT112850	
0C84	D200 1F90	1286	STB	R0,ERRIND		PT112860	
0C88	2400	1287	LIS	R0,0		PT112870	
0C8A	C300 0000	1288	THI	R0,0		PT112880	
0C8E	2139	1289	BNZS	T6RA		PT112890	
0C90	0800	1290	LHR	R0,R0		PT112900	
0C92	2137	1291	BNZS	T6RA		PT112910	
0C94	2437	1292	LIS	R3,7		PT112920	
0C96	C330 5555	1293	THI	R3,X'5555'		PT112930	
0C9A	2323	1294	BNPS	T6RA		PT112940	
0C9C	4310 0CA4	1295	BFC	1,T6H3		PT112950	
0CA0	4300 1E3C	1296	T6RA	B	ERROR	PT112960	
0CA4	C530 0007	1297	T6H3	CLHI	R3,7	PT112970	
0CA8	2034	1298	BNES	T6RA		PT112980	
0CAA	2035	1299	BNES	T6RA		PT112990	
0CAC	C880 8000	1300	LHI	R8,X'8000'		PT113000	
	0000 0CB0	1301	THI	EQU	*	PT113010	
0CB0	C380 AAAA	1302	THI	R8,X'AAAA'		PT113020	
0CB4	4330 0CCC	1303	BFC	3,T6GA		PT113030	
0CB8	9181	1304	SLLS	R8,1		PT113040	
0CBA	2139	1305	BNZS	T6GA		PT113050	
0CBC	C8A0 AAAA	1306	LHI	R10,X'AAAA'		PT113060	
0CC0	C3A0 0000	1307	THI	R10,0		PT113070	
0CC4	2134	1308	BNZS	T6GA		PT113080	
0CC6	45A0 1FA0	1309	CLH	R10,TEN		PT113090	
0CCA	2331	1310	BES	T6GA		PT113100	
	0000 0CCC	1311	T6GA	EQU	*	PT113110	
0CCC	4300 0CD0	1312	B	T6END		PT113120	
0CDD	2301	1313	T6END	BS	TEST7	PT113130	
		1314	*****				PT113140

		1315 *		PT113150	
		1316 *	TEST 7 CHECKS THE BYTE HANDLING INSTRUCTIONS	PT113160	
		1317 *		PT113170	
		1318 *	LB, STB, CLB, LBR, STBR, EXBR	PT113180	
		1319 *		PT113190	
0CD2	C800 0DDE	1320 TEST7	LHI R0,TEST8	PT113200	
0C06	4000 1F92	1321	STH R0,NXTST	PT113210	
0CDA	C800 0117	1322	LHI R0,X'0117'	PT113220	
0CDE	4000 1F90	1323	STH R0,ERRIND	PT113230	
0CE2	C800 3137	1324	LHI R0,X'3137'	PT113240	
0CE6	4000 1F58	1325	STH R0,TESTNO	PT113250	
		1326 *		PT113260	
0CEA	2501	1327	LCS R0,1	PT113270	
0CEC	4000 0596	1328	STH R0,T2WRD0	T2WRD0 = FFFF	PT113280
0CF0	4000 059A	1329	STH R0,T2WRD1	T2WRD1 = FFFF	PT113290
0CF4	4000 059E	1330	STH R0,T2WRD2	T2WRD2 = FFFF	PT113300
0CF8	0810	1331	LHR R1,R0	R1 = R0 = FFFF	PT113310
0CFA	0850	1332	LHR R5,R0	R5 = R0 = FFFF	PT113320
0CFc	08A0	1333	LHR R10,R0	R10 = R0 = FFFF	PT113330
	0000 0CFE	1334 LB	EQU *	PT113340	
0CFE	D310 1F98	1335	LB R1,ONE	R1=00FF	PT113350
0D02	D350 1F9C	1336	LB R5,FIVE	R5 = 0055	PT113360
0D06	D3A0 1FA0	1337	LB R10,TEN	R10 = 00AA	PT113370
0D0A	C510 00FF	1338	CLHI R1,X'FF'	CHECK BYTES LOADED INTO	PT113380
0D0E	213D	1339	BNES T7R1	R1	PT113390
0D10	C550 0055	1340	CLHI R5,X'55'		PT113400
0D14	213A	1341	BNES T7R1	R5	PT113410
0D16	C5A0 00AA	1342	CLHI R10,X'AA'		PT113420
0D1A	2137	1343	BNES T7R1	R10	PT113430
001C	D410 1F99	1344	CLB R1,ONE+1	TEST CLB INSTRUCTION USING	PT113440
0D20	2134	1345	BNES T7R1	R1	PT113450
	0000 0D22	1346 CLB	EQU *	PT113460	
0D22	D450 1F9D	1347	CLB R5,FIVE+1		PT113470
0D26	2333	1348	BES T7B	R5	PT113480
0D28	4300 1E3C	1349 T7R1	B ERROR	ERROR 1701	PT113490
0D2C	D4A0 1FA0	1350 T7B	CLB R10,TEN	R10	PT113500
0D30	2034	1351	BNES T7R1		PT113510
0D32	C870 0123	1352	LHI R7,X'0123'	R7 = 0123	PT113520
0D36	C880 4567	1353	LHI R8,X'4567'	R8 = 4567	PT113530
0D3A	C890 89AB	1354	LHI R9,X'89AB'	R9 = 89AB	PT113540
	0000 0D3E	1355 STB	EQU *	PT113550	
0D3E	D270 0597	1356	STB R7,T2WRD0+1	T2WRD0 = FF23	PT113560
0D42	D280 059B	1357	STB R8,T2WRD1+1	T2WRD1 = FF67	PT113570
0D46	D290 059E	1358	STB R9,T2WRD2	T2WRD2 = 89FF	PT113580
0D4A	4310 0078	1359	BNM T7R2		PT113590
0D4E	4800 0596	1360	LH R0,T2WRD0	R0 = FF23	PT113600
0D52	4810 059A	1361	LH R1,T2WRD1	R1 = FF61	PT113610
0D56	4820 059E	1362	LH R2,T2WRD2	R8 = ABFF	PT113620
0D5A	C500 FF23	1363	CLHI R0,X'FF23'		PT113630
0D5E	213D	1364	BNES T7R2		PT113640
0D60	C510 FF67	1365	CLHI R1,X'FF67'		PT113650
0D64	213A	1366	BNES T7R2		PT113660
0D66	C520 ABFF	1367	CLHI R2,X'ABFF'		PT113670
0D6A	2137	1368	BNES T7R2		PT113680
0D6C	D470 0597	1369	CLD R7,T2WRD0+1	R7 = 0123, T2WRD0 = FF23	PT113690

0D70	2134	1370	BNES	T7R2		PT113700
0D72	D480 059B	1371	CLB	R8,T2WRD1+1	R8=4567, T2WRD1=FF67	PT113710
0D76	2353	1372	BES	T7C		PT113720
0D78	4300 1E3C	1373 T7R2	B	ERROR	ERROR 1701	PT113730
0D7C	D490 059E	1374 T7C	CLB	R9,T2WRD2	R9=89AB, T2WRD2=ABFF	PT113740
0D80	2034	1375	BNES	T7R2		PT113750
0D82	D403 059A	1376	CLB	R0,T2WRD1	R0=FF238T2WRD1=FF67	PT113760
0D86	2237	1377	BES	T7R2		PT113770
0D88	D470 1F96	1378	CLB	R7,ZERO+2	R7=0123, ZERO=0000	PT113780
0D8C	223A	1379	BES	T7R2		PT113790
0D8E	2480	1380	LIS	R11,0		PT113800
0D90	D480 1F98	1381	CLB	R11,ONE		PT113810
0D94	223E	1382	BES	T7R2		PT113820
		1383 *				PT113830
0D96	2531	1384	LCS	R11,1	R11 = FFFF	PT113840
0D98	25C2	1385	LCS	R12,2	R12 = FF FE	PT113850
0D9A	25D3	1386	LCS	R13,3	R13=FF FD	PT113860
	0000 0D9C	1387 STBR	EQU	*		PT113870
0D9C	927B	1388	STBR	R7,R11		PT113880
0D9E	928C	1389	STBR	R8,R12		PT113890
0DA0	929D	1390	STBR	R9,R13		PT113900
0DA2	C580 FF23	1391	CLHI	R11,X'FF23'		PT113910
0DA6	213E	1392	BNES	T7R3		PT113920
0DA8	C5C0 FF67	1393	CLHI	R12,X'FF67'		PT113930
0DAC	213B	1394	BNES	T7R3		PT113940
0DAE	C500 FFAB	1395	CLHI	R13,X'FFAB'		PT113950
0DB2	2138	1396	BNES	T7R3		PT113960
	0000 0DB4	1397 LBR	EQU	*		PT113970
0DB4	9381	1398	LBR	R11,R1	R1=FF678 R11=FF23	PT113980
0DB6	93C0	1399	LBR	R12,R0	R0=FF23, R12=FF67	PT113990
0DB8	93D2	1400	LBR	R13,R2	R2=ABFF, R13=FFAB	PT114000
0DBA	2134	1401	BNZS	T7R3		PT114010
0DBC	C580 0067	1402	CLHI	R11,X'0067'		PT114020
0DC0	2333	1403	BES	T7E		PT114030
0DC2	4300 1E3C	1404 T7R3	B	ERROR	ERROR 1701	PT114040
0DC6	C5C0 0023	1405 T7E	CLHI	R12,X'0023'		PT114050
0DCA	2034	1406	BNES	T7R3		PT114060
0DCC	C500 00FF	1407	CLHI	R13,X'00FF'		PT114070
0DD0	2037	1408	BNES	T7R3		PT114080
		1409 *				PT114090
0DD2	0000 0DD2	1410 EXBR	EQU	*		PT114100
	0DD2	9478	1411 EXBR	R7,R8	R7=0123, R8=4567	PT114110
		1412 *			R7 = 6745 , R8 = 4567	PT114120
0DD4	C570 6745	1413	CLHI	R7,X'6745'		PT114130
0DD8	203B	1414	BNES	T7R3		PT114140
0DDA	C580 4567	1415	CLHI	R8,X'4567'		PT114150
0DDE	203E	1416	BNES	T7R3		PT114160
0DE0	9489	1417	EXBR	R8,R9	R8 = AB89 , R9 = 89AB	PT114170
0DE2	213B	1418	BNES	T7R4		PT114180
0DE4	C580 AB89	1419	CLHI	R8,X'AB89'		PT114190
0DE8	9499	1420	EXBR	R9,R9	R9 = AB89	PT114200
0DEA	9488	1421	EXBR	R8,R8	R8 = 89AB	PT114210
0DEC	C580 89AB	1422	CLHI	R8,X'89AB'		PT114220
0DF0	2134	1423	BNES	T7R4		PT114230
0DF2	C590 AB89	1424	CLHI	R9,X'AB89'		PT114240

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0DF6	2333	1425	BES	T7END		PT114250	
0DF8	4300 1E3C	1426	T7R4	B	ERROR	PT114260	
0DFC	2301	1427	T7END	BS	TEST8	PT114270	
		1428	*****				PT114280
		1429	*				PT114290
		1430	*	TEST8 CHECKS THE INSTRUCTIONS			PT114300
		1431	*				PT114310
		1432	*	AH + AHR + AHI + AHM + AIS + ACH + ACHI			PT114320
		1433	*				PT114330
		1434	*	SH + SHR + SHI + SIS + SCH + SCHI			PT114340
		1435	*				PT114350
		1436	*				PT114360
		1437	*	TEST8 CHECKS THE FIXED POINT			PT114370
		1438	*	ADD, SUBTRACT, AND COMPARE INSTRUCTIONS			PT114380
		1439	*				PT114390
	0000 000F	1440	TOT	EQU	15		PT114400
		1441	*				PT114410
0DFF	C800 1238	1442	TEST8	LHI	R0,TEST9		PT114420
0E02	4000 1F92	1443		STH	R0,NXTST		PT114430
0E06	C800 0118	1444		LHI	R0,X'0118'		PT114440
0E0A	4000 1F90	1445		STH	R0,ERRIND		PT114450
0E0E	C800 3138	1446		LHI	R0,C'18'		PT114460
0E12	4000 1F58	1447		STH	R0,TESTNO		PT114470
0E16	24F1	1448		LIS	TOT,1	SET ERROR NUMBER=1	PT114480
0E18	2445	1449		LIS	R4,5	SET INDEX OFFSET=5	PT114490
0E1A	0700	1450		XHR	R0,R0	CARRY IN=0	PT114500
0E1C	0711	1451		XHR	R1,R1	INITIAL M=0	PT114510
0E1E	0722	1452		XHR	R2,R2	INITIAL N=0	PT114520
0E20	C8A0 0101	1453		LHI	R10,X'0101'	INCREMENT=X'0101'	PT114530
0E24	4180 0E56	1454		BAL	R8,TEST85	CHECK FOR ALL COMBINATIONS OF M AND N	PT114540
0E28	2408	1455		LIS	R0,8	CARRYIN=1	PT114550
0E2A	C810 0040	1456		LHI	R1,X'0040'	INITIAL M	PT114560
0E2E	C820 00C0	1457		LHI	R2,X'00C0'	INITIAL N	PT114570
0E32	4180 0E56	1458		BAL	R8,TEST85	CHECK FOR ALL COMBINATION OF M AND N	PT114580
0E36	0700	1459		XHR	R0,R0	CARRY IN=0	PT114590
0E38	0711	1460		XHR	R1,R1	INITIAL M=0	PT114600
0E3A	0722	1461		XHR	R2,R2	INITIAL N=0	PT114610
0E3C	C8A0 1010	1462		LHI	R10,X'1010'	INCREMENT=X'1010'	PT114620
0E40	4180 0E56	1463		BAL	R8,TEST85	CHECK FOR ALL COMBINATIONS OF M AND N	PT114630
0E44	2408	1464		LIS	R0,8	CARRY IN = 1	PT114640
0E46	C810 0404	1465		LHI	R1,X'0404'	INITIAL M	PT114650
0E4A	C820 0C0C	1466		LHI	R2,X'0C0C'	INITIAL N	PT114660
0E4E	4180 0E56	1467		BAL	R8,TEST85	CHECK FOR ALL COMBINATIONS OF M AND N	PT114670
0E52	4300 0E78	1468		B	OVTEST	GO TO NEXT PART OF TEST	PT114680
0E56	4010 1236	1469	TEST85	STH	R1,INITM	SAVE INITIAL M	PT114690
0E5A	24CF	1470		LIS	R12,15	COUNTER 1	PT114700
0E5C	24EF	1471		LIS	R14,15	COUNTER 2	PT114710
0E5E	4190 112C	1472	LOOP85	BAL	R9,TEST83	INCREMENT M	PT114720
0E62	0A1A	1473		AHR	R1,R10	DECREMENT COUNTER 1	PT114730
0E64	27C1	1474		SIS	R12,1	LOOP IF COUNT IS NONNEGATIVE	PT114740
0E66	2214	1475		BNMS	LOOP85	INITIALIZE M	PT114750
0E68	4810 1236	1476		LH	R1,INITM	INITIALIZE COUNTER 1	PT114760
0E6C	24CF	1477		LIS	R12,15	INCREMENT N	PT114770
0E6E	0A2A	1478		AHR	R2,R10	DECREMENT COUNTER 2	PT114780
0E70	27E1	1479		SIS	R14,1		PT114790

OE72 4310 0E5E	1480	BNM	L00P85	LOOP IF COUNT IS NON-NEGATIVE	PT114800
OE76 0308	1481	BR	R8		PT114810
OE78 07CC	1482 OVTEST	XHR	R12,R12	EXPECTED CC=0	PT114820
OE7A 0700	1483	XHR	R0,R0	(R0)=0	PT114830
OE7C 4630 121A	1484	LH	R3,CD3	(R3)=X'7FFE'	PT114840
OE80 4880 1224	1485	LH	R8,CD8	(R8)=X'FFFF'	PT114850
OE84 24F6	1486	LIS	TOT,6	SET ERROR NUMBER=6	PT114860
OE86 2600	1487	AIS	R0,0		PT114870
OE88 4190 111A	1488	BAL	R9,TESTCC		PT114880
	1489 *			ERROR NUMBER=7	PT114890
OE8C 0B00	1490	SHR	R0,R0		PT114900
OE8E 4190 111A	1491	BAL	R9,TESTCC		PT114910
	1492 *			ERROR NUMBER=8	PT114920
OE92 C830 7FFE	1493	SHI	R3,X'7FFE'		PT114930
OE96 4190 111A	1494	BAL	R9,TESTCC		PT114940
	1495 *			ERROR NUMBER=9	PT114950
OE9A 4880 1224	1496	SH	R8,CD8		PT114960
OE9E 4190 111A	1497	BAL	R9,TESTCC		PT114970
	1498 *			ERROR NUMBER=X'A'	PT114980
OEAA 24C1	1499	LIS	R12,1	EXPECTED CC=1	PT114990
OEAC 4850 121E	1500	LH	R5,CD5	(R5)='8001'	PT115000
OEAB 4860 1220	1501	LH	R6,CD6	(R6)='8002'	PT115010
0000 0EAC	1502 AH	EQU	*		PT115020
OEAC 4A50 121A	1503	AH	R5,CD3	'8001'+'7FFE'	PT115030
OEBO 4190 111A	1504	BAL	R9,TESTCC		PT115040
OE84 2761	1505	SIS	R6,1	'8002'-'0001'	PT115050
OEBC 4190 111A	1506	BAL	R9,TESTCC		PT115060
	1507 *			ERROR NUMBER=X'C'	PT115070
OEBA 24C2	1508	LIS	R12,2	EXPECTED CC=2	PT115080
OEBC 4830 121A	1509	LH	R3,CD3	(R3)='7FFE'	PT115090
OECD 4840 121C	1510	LH	R4,CD4	(R4)='7FFF'	PT115100
OECA 4880 1224	1511	LH	R8,CD8	(R8)='FFFF'	PT115110
UEC8 2631	1512	AIS	R3,1	'7FFE'+1='7FFF'	PT115120
OECA 4190 111A	1513	BAL	R9,TESTCC		PT115130
0000 0ECE	1514 SHI	EQU	*		PT115140
OECE CB40 7FFF	1515	SHI	R4,X'7FFF'	'7FFF'-'7FFE'	PT115150
OEBC 4190 111A	1516	BAL	R9,TESTCC		PT115160
	1517 *			ERROR NUMBER=X'E'	PT115170
0000 0ED6	1518 SH	EQU	*		PT115180
OEBC 4B80 1222	1519	SH	R8,CD7	'FFFF'-'FFF'	PT115190
OEBC 4190 111A	1520	BAL	R9,TESTCC		PT115200
OEDE C8C0 0005	1521	LHI	R12,5	EXPECTED CC=5	PT115210
OEBC 4840 121C	1522	LH	R4,CD4	(R4)='7FFF'	PT115220
OEBC 4A40 121A	1523	AH	R4,CD3	'7FFE'+*'7FFF'	PT115230
OEBC 4190 111A	1524	BAL	R9,TESTCC		PT115240
	1525 *			ERROR NUMBER=X'10'	PT115250
OEBC 24C6	1526	LIS	R12,6	EXPECTED CC=6	PT115260
OEBC 4850 121E	1527	LH	R5,CD5	(R5)='8001'	PT115270
OEBC CB50 7FFF	1528	SHI	R5,X'7FFF'	'8001'-'7FFF'	PT115280
OEBC 4190 111A	1529	BAL	R9,TESTCC		PT115290
OEBC 24C8	1530	LIS	R12,8	EXPECTED CC=8	PT115300
OEBC 4810 1216	1531	LH	R1,CD1	(R1)=1	PT115310
OF02 4840 121C	1532	LH	R4,CD4	(R4)=X'7FFF'	PT115320
OF06 4880 1224	1533	LH	R8,CD8	(R8)='FFFF'	PT115330
0000 0F0A	1534 AHI	EQU	*		PT115340

0F0A	CA40 8001	1535	AHI	R4,X'8001'	PT115350	
0F0E	4190 111A	1536	BAL	R9,TESTCC	PT115360	
	0000 0F12	1537	AHR	EQU *	PT115370	
0F12	0A18	1538	AHR	R1,R8	X'0001' + X'FFFF'	PT115380
0F14	4190 111A	1539	BAL	R9,TESTCC	EXPECTED CC=9	PT115390
0F18	24C9	1540	LIS	R12,9	(R3)=X'7FFE'	PT115400
0F1A	4830 121A	1541	LH	R3,CD3	(R7)=X'FFFF'	PT115410
0F1E	4870 122C	1542	LH	R7,CD7	(R8)=X'FFFF'	PT115420
0F22	4880 1224	1543	LH	R8,CD8	'FFFF'+ 'FFFE'	PT115430
0F26	0A87	1544	AHR	R8,R7	PT115440	
0F29	4190 111A	1545	BAL	R9,TESTCC	PT115450	
	0000 0F2C	1546	*	ERROR NUMBER=X'14'	PT115460	
		1547	SIS	EQU *	PT115470	
0F2C	2701	1548	SIS	R0,1	0-1	PT115480
0F2E	4190 111A	1549	BAL	R9,TESTCC	'FFFE'-'FFFF'	PT115490
0F32	CB70 FFFF	1550	SHI	R7,X'FFFF'	PT115500	
0F36	4190 111A	1551	BAL	R9,TESTCC	PT115510	
0F3A	4830 121C	1552	SH	R3,CD4	'7FFE'-'7FFF'	PT115520
0F3E	4190 111A	1553	BAL	R9,TESTCC	PT115530	
0F42	24CA	1554	LIS	R12,X'A'	EXPECTED CC= 'A'	PT115540
0F44	0700	1555	XHR	R0,R0	(R0)=0	PT115550
0F46	4830 121A	1556	LH	R3,CD3	(R3)=X'7FFE'	PT115560
0F4A	4860 1220	1557	LH	R6,CD6	(R6)='8002'	PT115570
0F4E	4880 1224	1558	LH	R8,CD8	(R8)= 'FFFF'	PT115580
	0000 0F52	1559	AIS	EQU *	PT115590	
0F52	2682	1560	AIS	R8,2	'FFFF'+2	PT115600
0F54	4190 111A	1561	BAL	R9,TESTCC	PT115610	
		1562	*	ERROR NUMBER=X'18'	PT115620	
0F58	CB00 FFFF	1563	SHI	R0,X'FFFF'	0-'FFFF'	PT115630
0F5C	4190 111A	1564	BAL	R9,TESTCC	PT115640	
0F60	4830 1224	1565	SH	R3,CD8	'7FFE'-'FFFF'	PT115650
0F64	4190 111A	1566	BAL	R9,TESTCC	PT115660	
0F68	CA60 7FFF	1567	AHI	R6,X'7FFF'	'8002' + '7FFF'= '0001'	PT115670
0F6C	4190 111A	1568	BAL	R9,TESTCC	PT115680	
0F70	24CD	1569	LIS	R12,X'D'	EXPECTED CC='D'	PT115690
0F72	4840 121C	1570	LH	R4,CD4	(R4)='7FFF'	PT115700
0F76	4820 1218	1571	LH	R2,CD2	(R2)=2	PT115710
0F7A	4840 1222	1572	SH	R4,CD7	'7FFF'-'FFFE'	PT115720
0F7E	4190 111A	1573	BAL	R9,TESTCC	PT115730	
		1574	*	ERROR NUMBER=X'1C'	PT115740	
0F82	CB20 8001	1575	SHI	R2,X'8001'	2-'8001'	PT115750
0F86	4190 111A	1576	BAL	R9,TESTCC	PT115760	
		1577	*	ERROR NUMBER=X'1D'	PT115770	
0F8A	C8C0 000E	1578	LHI	R12,X'E'	EXPECTED CC = 'E'	PT115780
0F8E	4850 121E	1579	LH	R5,CD5	(R5)='8001'	PT115790
0F92	CA50 FFFE	1580	AHI	R5,X'FFFE'	'8001'+'FFFE'	PT115800
0F96	4190 111A	1581	BAL	R9,TESTCC	PT115810	
		1582	*	ERROR NUMBER=X'1E'	PT115820	
		1583	*	MULTIPLE PRECISION ADD SUBTRACT CHECK	PT115830	
0F9A	0700	1584	XHR	R0,R0	(R0) = 0 FIRST WORD OF RESULT	PT115840
0F9C	0711	1585	XHR	R1,R1	(R1) = 0 SECOND WORD OF RESULT	PT115850
0F9E	0722	1586	XHR	R2,R2	(R2) = 0 THIRD WORD OF RESULT	PT115860
0FA0	0733	1587	XHR	R3,R3	(R3) = 0 FIRST WORD OF INCREMENT	PT115870
0FA2	0744	1588	XHR	R4,R4	(R4) = 0 SECOND WORD OF ENCREMENT	PT115880
0FA4	C650 1110	1589	LHI	R5,X'1110'	(R5) = '1110' MSB OF FINAL VALUE OF IN	PT115890

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0FA8	C860 EEEF	1590	LHI	R6,X'EEEF'	(R6) ='EEEF' LSB OF FINAL VALUE OF INC	PT115900
0FAC	C870 0888	1591	LHI	R7,X'0888'	FIRST WORD OF EXPECTED RESULT	PT115910
0FB0	C880 7777	1592	LHI	R8,X'7777'	SECOND WORD OF EXPECTED RESULT	PT115920
0FB4	C890 8000	1593	LHI	R9,X'8000'	THIRD WORD OF EXPECTED RESULT	PT115930
0FB8	4A40 1228	1594	LOOP1	AH R4,ININC2	INCREMENT THE INCREMENT BY '00001111	PT115940
	0000 0FBC	1595	ACH	EQU *		PT115950
0FBC	4E30 1226	1596	ACH	R3,ININC1		PT115960
0FC0	0A24	1597	AHR	R2,R4	ADD THE INCREMENT TO TRIPLE	PT115970
0FC2	0E13	1598	ACHR	R1,R3	PRECISION RESULT	PT115980
0FC4	4E00 1F94	1599	ACH	R0,ZERO		PT115990
0FC8	08D5	1600	LHR	R13,R5		PT116000
0FCB	08E6	1601	LHR	R14,R6		PT116010
0FCC	08E4	1602	SHR	R14,R4		PT116020
0FCE	4230 0FB8	1603	BNZ	LOOP1		PT116030
	0000 0FD2	1604	SHR	EQU *		PT116040
0FD2	0BD3	1605	SHR	R13,R3		PT116050
0FD4	4230 0FB8	1606	BNZ	LOOP1		PT116060
0FDA	0592	1607	CLHR	R9,R2	COMPARE TRIPLE	PT116070
0FDA	4230 11F0	1608	BNE	ERR13	PRECISION CALCULATED	PT116080
0FDE	0581	1609	CLHR	R8,R1	AND EXPECTED	PT116090
0FE0	4230 11F0	1610	BNE	ERR13		PT116100
0FE4	0570	1611	CLHR	R7,R0	RESULTS	PT116110
0FE6	4230 11F0	1612	BNE	ERR13		PT116120
0FEA	26F1	1613	AIS	TOT,1	INCR. ERROR NUMBER BY 1	PT116130
		1614	*	ERROR NUMBER=X'1F'		PT116140
0FEC	0B24	1615	LOOP2	SHR R2,R4	SUBTRACT THE DECREMENT FROM	PT116150
0FEE	0F13	1616	SCHR	R1,R3	TRIPLE PRECISION RESULT	PT116160
	0000 OFF0	1617	SCH	EQU *		PT116170
0FF0	4F00 1F94	1618	SCH	R0,ZERO		PT116180
0FF4	4B40 1228	1619	SH	R4,ININC2	DECR. THE DECREMENT BY '00001111'	PT116190
0FF8	4F30 1226	1620	SCH	R3,ININC1		PT116200
0FFC	0844	1621	LHR	R4,R4		PT116210
0FFE	4230 0FEC	1622	BNZ	LOOP2		PT116220
1002	0833	1623	LHR	R3,R3		PT116230
1004	4230 0FEC	1624	BNZ	LOOP2		PT116240
1008	0822	1625	LHR	R2,R2		PT116250
100A	4230 11F0	1626	BNZ	ERR13		PT116260
100E	0811	1627	LHR	R1,R1		PT116270
1010	4230 11F0	1628	BNZ	ERR13		PT116280
1014	0800	1629	LHR	R0,R0		PT116290
1016	4230 11F0	1630	BNZ	ERR13		PT116300
		1631	*	FIXED POINT COMPARE CHECK		PT116310
101A	26F1	1632	AIS	TOT,1	ERROR NUMBER=X'20'	PT116320
101C	2475	1633	LIS	R7,5	SET INDEX OFFSET=5	PT116330
101E	4800 1F94	1634	LH	R0,ZERO	(R0)= 0	PT116340
1022	4810 1216	1635	LH	R1,CD1	(R1) = 1	PT116350
1026	4820 121C	1636	LH	R2,CD4	(R2) = '7FFF'	PT116360
102A	4830 121E	1637	LH	R3,CD5	(R3) = '8001'	PT116370
102E	4840 1222	1638	LH	R4,CD7	(R4) = 'FFFE'	PT116380
1032	4850 1224	1639	LH	R5,CD8	(R5) = 'FFFF'	PT116390
1036	08C0	1640	LHR	R12,R0	EXPECTED CC = 0	PT116400
1038	0500	1641	CLHR	R0,R0		PT116410
103A	4190 111A	1642	BAL	R9,TESTCC		PT116420
103E	4517 1211	1643	CLH	R1,CD1-5(R7)		PT116430
1042	4190 111A	1644	BAL	R9,TESTCC		PT116440

		1645 * ERROR NUMBER=X'22'	PT116450	
1046	C520 7FFF	1646 CLHI R2,X'7FFF'	PT116460	
104A	4190 111A	1647 BAL R9,TESTCC	PT116470	
104E	0933	1648 CHR R3,R3	PT116480	
1050	4190 111A	1649 BAL R9,TESTCC	PT116490	
		1650 * ERROR NUMBER=X'24'	PT116500	
1054	4940 1222	1651 CH R4,CD7	PT116510	
1058	4190 111A	1652 BAL R9,TESTCC	PT116520	
105C	C950 FFFF	1653 CHI R5,X'FFFF'	PT116530	
1060	4190 111A	1654 BAL R9,TESTCC	PT116540	
		1655 * ERROR NUMBER=X'26'	PT116550	
1064	24C1	1656 LIS R12,1	EXPECTED CC=1	PT116560
1066	4810 1220	1657 LH R1,CD6	(R1) = '8002'	PT116570
106A	4820 1216	1658 LH R2,CD1	(R2) = '0001'	PT116580
106E	0512	1659 CLHR R1,R2	PT116590	
1070	4190 111A	1660 BAL R9,TESTCC	PT116600	
1074	C8C0 0002	1661 LHI R12,2	EXPECTED CC=2	PT116610
1078	4810 121C	1662 LH R1,CD4	(R1)= '7FFF'	PT116620
107C	4510 121A	1663 CLH R1,CD3	COMPARE WITH '7FFE'	PT116630
1080	4190 111A	1664 BAL R9,TESTCC	CHECK CC	PT116640
		1665 * ERROR NUMBER X'28'	PT116650	
1084	4810 1220	1666 LH R1,CD6	(R1)= '8002'	PT116660
1088	C510 8001	1667 CLHI R1,X'8001'	PT116670	
108C	4190 111A	1668 BAL R9,TESTCC	PT116680	
1090	4820 1224	1669 LH R2,CD8	(R2)= X'FFFF'	PT116690
1094	4800 1F94	1670 LH R0,ZERO	(R0) = 0	PT116700
1098	4810 1216	1671 LH R1,CD1	(R1)=1	PT116710
109C	0910	1672 CHR R1,R0	PT116720	
109E	4190 111A	1673 BAL R9,TESTCC	PT116730	
		1674 * ERROR NUMBER=X'2A'	PT116740	
10A2	4927 121D	1675 CH R2,CD7-5(R7)	COMPARE 'FFFF' AND 'FFFE'	PT116750
10A6	4190 111A	1676 BAL R9,TESTCC	PT116760	
10AA	C900 8001	1677 CHI R0,X'8001'	COMPARE 0 AND '8001'	PT116770
10AE	4190 111A	1678 BAL R9,TESTCC	PT116780	
		1679 * ERROR NUMBER=X'2C'	PT116790	
10B2	24C6	1680 LIS R12,6	EXPECTED CC=6	PT116800
10B4	4810 121E	1681 LH R1,CD5	(R1) = '8001'	PT116810
10B8	4510 1218	1682 CLH R1,CD2	COMPARE '8001' AND '0002'	PT116820
10BC	4190 111A	1683 BAL R9,TESTCC	PT116830	
10C0	24C9	1684 LIS R12,9	EXPECTED CC=9	PT116840
10C2	4800 1F94	1685 LH R0,ZERO	(R0)=0	PT116850
10C6	4810 1222	1686 LH R1,CD7	(R1)='FFFE'	PT116860
10CA	4820 1224	1687 LH R2,CD8	(R2)='FFFF'	PT116870
10CE	4830 121E	1688 LH R3,CD5	(R3)='8001'	PT116880
10D2	0512	1689 CLHR R1,R2	PT116890	
10D4	4190 111A	1690 BAL R9,TESTCC	PT116900	
		1691 * ERROR NUMBER=X'2E'	PT116910	
10D8	C500 0001	1692 CLHI R0,1	COMPARE 0 AND 1	PT116920
10DC	4190 111A	1693 BAL R9,TESTCC	PT116930	
10E0	C900 0001	1694 CHI R0,1	PT116940	
10E4	4190 111A	1695 BAL R9,TESTCC	PT116950	
		1696 * ERROR NUMBER=X'30'	PT116960	
10E8	4930 1220	1697 CH R3,CD6	COMPARE '8001' AND '8002'	PT116970
10EC	4190 111A	1698 BAL R9,TESTCC	PT116980	
10F0	0920	1699 CHR R2,R0	COMPARE 'FFFF' AND 0	PT116990

10F2	4190 111A	1700	BAL R9,TESTCC	PT117000	
		1701 *	ERROR NUMBER=X'32'	PT117010	
10F6	C8C0 000A	1702	LHI R12,X'A'	PT117020	
10FA	4810 121A	1703	LH R1,CD3	PT117030	
10FE	4820 121C	1704	LH R2,CD4	PT117040	
1102	4510 1224	1705	CLH R1,CD8	PT117050	
1106	4190 111A	1706	BAL R9,TESTCC	PT117060	
110A	C8C0 000D	1707	LHI R12,X'D'	PT117070	
110E	C520 FFFE	1708	CLHI R2,X'FFFE'	PT117080	
1112	4190 111A	1709	BAL R9,TESTCC	PT117090	
		1710 *	ERROR NUMBER=X'34'	PT117100	
1116	4300 1238	1711 T8END	B TEST9	PT117110	
		1712 *	SUBROUTINES USED IN TEST8	PT117120	
111A	95EE	1713 TESTCC	EPSR R14,R14	PT117130	
111C	C4E0 000F	1714	NHI R14,X'F'	PT117140	
1120	05EC	1715	CLHR R14,R12	PT117150	
1122	4230 11FC	1716	BNE ERR14	PT117160	
1126	26F1	1717	AIS TOT,1	PT117170	
1128	4309 0000	1718	B O(R9)	PT117180	
		1719 *	R0 CONTAINS 1 IF CARRY-IN IS 1	PT117190	
		1720 *	R0 CONTAINS 0 IF CARRY-IN IS ZERO	PT117200	
		1721 *	R1 AND R2 CONTAINS VALUES OF M AND N	PT117210	
112C	0000 112C	1722 AHM	EQU *	PT117220	
112E	24F1	1723 TEST83	LIS TOT,1	SET ERROR NUMBER=1	PT117230
112F	4010 122C	1724	STH R1,PLUSM	STORE M	PT117240
1132	4020 122E	1725	STH R2,PLUSN	STORE N	PT117250
1136	0831	1726	LHR R3,R1	M	PT117260
1138	C730 FFFF	1727	XHI R3,X'FFFF'	PT117270	
113C	2631	1728	AIS R3,1	GET - M	PT117280
113E	4030 122A	1729	STH R3,MINUSM	STORE-M	PT117290
1142	6114 1225	1730	AHM R1,MINUSM-5(R4)	M+(-M)=0	PT117300
1146	4200 0000	1731	NOP		PT117310
114A	4850 122A	1732	LH R5,MINUSM	GET M+(-M)	PT117320
114E	4230 11CC	1733	BNZ ERR11		PT117330
1152	24F2	1734	LIS TOT,2	SET ERROR NUMBER=2	PT117340
1154	0831	1735	LHR R3,R1	M	PT117350
1156	0A34	1736	AHR R3,R4	M+(R4)=M+5	PT117360
1158	0853	1737	LHR R5,R3		PT117370
115A	0B54	1738	SHR R5,R4	M+(R4)-(R4)=M?	PT117380
115C	0551	1739	CLHR R5,R1		PT117390
115E	4230 11CC	1740	BNE ERR11		PT117400
1162	24F3	1741	LIS TOT,3	SET ERROR NUMBER =3	PT117410
1164	0831	1742	LHR R3,R1	M	PT117420
1166	CA30 789A	1743	AHI R3,X'789A'	M+X'789A'	PT117430
116A	0853	1744	LHR R5,R3		PT117440
116C	CB50 789A	1745	SHI R5,X'789A'		PT117450
1170	0551	1746	CLHR R5,R1		PT117460
1172	4230 11CC	1747	BNE ERR11		PT117470
1176	24F4	1748	LIS TOT,4	SET ERROR NUMBER=4	PT117480
1178	0851	1749	LHR R5,R1	M	PT117490
117A	95D0	1750	EPSR R13,R0	SET CARRY FLAG IF CARRY IN	PT117500
117C	4E54 1229	1751	ACH R5,PLUSN-5(R4)	M+N+C	PT117510
1180	4050 1230	1752	STH R5,MPNPC	STORE M+N+C	PT117520
1184	4850 122C	1753	LH R5,PLUSM	M	PT117530
1188	0800	1754	LHR R0,R0	EXAMINE CARRY IN	PT117540

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118A	4330 1190	1755	BZ	NCRY1	IF NO CARRY IN GOTO NCRY1	PT117550
118E	2751	1756	SIS	R5,1		PT117560
1190	4854 1229	1757	NCRY1	SH R5,PLUSN-5(R4)	M-N-C	PT117570
1194	4050 1232	1758	STH	R5,MMNMC	STORE M-N-C	PT117580
1198	4A54 122B	1759	AH	R5,MPNPC-5(R4)	GET (M+N+C)+(M-N-C)=2M	PT117590
119C	0871	1760	LHR	R7,R1	M	PT117600
119E	C070 0001	1761	SLHL	R7,1	GET 2*M	PT117610
11A2	0557	1762	CLHR	R5,R7	IF (M+N+C)+(M-N-C) IS NOT=2*M	PT117620
11A4	4230 11D8	1763	BNE	ERR12	BRANCH TO ERR1	PT117630
11A8	24F5	1764	LIS	TOT,5	SET ERROR NUMBER=5	PT117640
11AA	4850 1230	1765	LH	R5,MPNPC	M+N+C	PT117650
11AE	9500	1766	EPSR	R13,R0		PT117660
11B0	4F54 122D	1767	SCH	R5,MMNMC-5(R4)	(M+N+C)-(M-N-C)-C =2N+C	PT117670
11B4	4870 122E	1768	LH	R7,PLUSN	N	PT117680
11B8	C070 0001	1769	SLHL	R7,1	2*N	PT117690
11Bc	0800	1770	LHR	R0,R0	EXAMINE IF CARRY IN HAS	PT117700
11BE	4330 11C4	1771	BZ	NOCRY	BEEN SPECIFIED	PT117710
11C2	2671	1772	AIS	R7,1	2*N+C	PT117720
11C4	0557	1773	NOCRY	CLHR R5,R7	IF (M+N+C)-(M-N-C)-C	PT117730
11C6	4230 11D8	1774	BNE	ERR12	IS NOT=2*N+C,BRANCH TO ERR1	PT117740
11CA	0309	1775	BR	R9	RETURN	PT117750
11CC	2443	1776	ERR11	LIS R4,3	THREE VALUES FOR PRINT OUT	PT117760
11CE	0875	1777	LHR	R7,R5	ACTUAL RESULT	PT117770
11D0	0863	1778	LHR	R6,R3	-M OR M+(R4)OR M+X'789A'	PT117780
11D2	0851	1779	LHR	R5,R1	VALUE OF M	PT117790
11D4	4300 1206	1780	B	ERR1		PT117800
11D8	2447	1781	ERR12	LIS R4,7	SEVEN VALUES ARE TO BE PRINTED	PT117810
11DA	08A5	1782	LHR	R10,R5	ACTUAL RESULT	PT117820
11DC	0887	1783	LHR	R11,R7	EXPECTED RESULT	PT117830
11DE	0851	1784	LHR	R5,R1	M	PT117840
11E0	0862	1785	LHR	R6,R2	N	PT117850
11E2	0870	1786	LHR	R7,R0	CARRY IN	PT117860
11E4	4880 1230	1787	LH	R8,MPNPC	M+N+C	PT117870
11E8	4890 1232	1788	LH	R9,MMNMC	M-N-C	PT117880
11EC	4300 1206	1789	B	ERR1		PT117890
11F0	2443	1790	ERR13	LIS R4,3	THREE VALUES TO BE PRINTED	PT117900
11F2	0850	1791	LHR	R5,R0	ACTUAL	PT117910
11F4	0861	1792	LHR	R6,R1	TRIPAL PRECISION	PT117920
11F6	0872	1793	LHR	R7,R2	RESULT	PT117930
11F8	4300 1206	1794	B	ERR1		PT117940
11FC	2442	1795	ERR14	LIS R4,2	TWO VALUES TO BE PRINTED	PT117950
11FE	085E	1796	LHR	R5,R14	ACTUAL CONDITION CODE	PT117960
1200	086C	1797	LHR	R6,R12	EXPECTED CONDITION CODE	PT117970
1202	4300 1206	1798	B	ERR1		PT117980
1206	C800 0018	1799	ERR1	LHI R0,X'0018'		PT117990
120A	91F8	1800	SLLS	TOT,8		PT118000
120C	060F	1801	OHR	R0,TOT		PT118010
120E	4000 1F90	1802	STH	R0,ERRIND		PT118020
1212	4300 1E3C	1803	B	ERROR		PT118030
		1804	*	DATA OF TEST 8		PT118040
1216	0001	1805	CD1	DC 1		PT118050
1218	0002	1806	CD2	DC 2		PT118060
121A	7FFE	1807	CD3	DC X'7FFE'		PT118070
121C	7FFF	1808	CD4	DC X'7FFF'		PT118080
121E	8001	1809	CD5	DC X'8001'		PT118090

1220	8002	1810	CD6	DC X'8002'	PT118100
1222	FFFE	1811	C07	DC X'FFFE'	PT118110
1224	FFFF	1812	C08	DC X'FFFF'	PT118120
1226	0000	1813	ININC1	DC 0	PT118130
1228	1111	1814	ININC2	DC X'1111'	PT118140
122A		1815	MINUSM	DS 2	PT118150
122C		1816	PLUSM	DS 2	PT118160
122E		1817	PLUSN	DS 2	PT118170
1230		1818	MPNPC	DS 2	PT118180
1232		1819	MMVMC	DS 2	PT118190
1234		1820	MMMVNC	DS 2	PT118200
1236		1821	INITM	DS 2	PT118210
		1822	*		PT118220
		1823	*****	*****	PT118230
		1824	*	TEST 9 CHECKS THE	PT118240
		1825	*		PT118250
		1826	*	SVC INSTRUCTIONS	PT118260
		1827	*		PT118270
		1828	*	SVCINT = ADDRESS FOR SVC INTERRUPT	PT118280
		1829	*		PT118290
		1830	*	R13 = ADDRESS OF ERROR ROUTINE	PT118300
		1831	*		PT118310
1238	C800 1330	1832	TEST9	LHI R0,TEST10	PT118320
123C	4000 1F92	1833	STH	R0,NXTST	PT118330
1240	C800 0119	1834	LHI	R0,X'0119'	PT118340
1244	4000 1F90	1835	STH	R0,ERRIND	ERRIND = 0119 PT118350
1248	C800 3139	1836	LHI	R0,X'3139'	PT118360
124C	4000 1F58	1837	STH	R0,TESTNO	PT118370
		1838	*		PT118380
1250	C800 1E3C	1839	LHI	R13,ERROR	R13 = ADD. OF ERR. RTN. PT118390
1254	C830 009C	1840	LHI	R3,X'9C'	PT118400
1258	40D3 0000	1841	SVC004	STH R13,0(R3)	PT118410
125C	2632	1842	AIS	R3,2	PT118420
125E	C530 00BC	1843	CLHI	R3,X'BC'	PT118430
1262	2035	1844	BNES	SVC004	PT118440
1264	246E	1845	LIS	R6,14	PT118450
1266	2410	1846	LIS	R1,0	PT118460
1268	2400	1847	SVC100	LIS R0,0	R0 = 0 PT118470
126A	4000 0094	1848	STH	R0,X'94'	SVC ARGUMENT POINTER PT118480
126E	4000 0096	1849	STH	R0,X'96'	OLD PSW PT118490
1272	4000 0098	1850	STH	R0,X'98'	OLD PSW LOCATION PT118500
1276	4000 009A	1851	STH	R0,X'9A'	NEW PSW PT118510
127A	0831	1852	LHR	R3,R1	R1 = SVC CALL 0 THRU 15 PT118520
127C	9131	1853	SLLS	R3,1	R3 = R1 X 2 PT118530
127E	CA30 009C	1854	AHI	R3,X'9C'	R3 = R1 X 2 + 9C PT118540
1282	C800 1304	1855	LHI	R0,SVCINT	PT118550
1286	4003 0000	1856	STH	R0,0(R3)	PT118560
128A	0801	1857	LHR	R0,R1	PT118570
128C	9102	1858	SLLS	R0,2	R0 = 4 X R1 PT118580
128E	0841	1859	LHR	R4,R1	PT118590
1290	9141	1860	SLLS	R4,1	R4 = 2 X R1 PT118600
1292	0A04	1861	AHR	R0,R4	R0 = 6 X R1 PT118610
1294	C850 12A4	1862	LHI	R5,SVC200	PT118620
1298	0A05	1863	AHR	R0,R5	PT118630
129A	C200 129E	1864	LPSW	SVC150	PT118640

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129E	2805	1865	SVC150	DC	X'2805',SVC175	PT118650	
12A0	12A2						
12A2	0300	1866	SVC175	BR	R0	PT118660	
12A4	E100 0000	1867	SVC200	SVC	0,R0	PT118670	
12A8	030D	1868		BR	R13	PT118680	
	0000 12AA	1869	SVC	EQU	*	PT118690	
12AA	E110 0001	1870	SVC201	SVC	1,R1	PT118700	
12AE	030J	1871		BR	R13	PT118710	
12B0	E120 0002	1872	SVC202	SVC	2,R2	PT118720	
12B4	030D	1873		BR	R13	PT118730	
12B6	E130 0003	1874	SVC		3,R3	PT118740	
12BA	0300	1875		BR	R13	PT118750	
12BC	E140 0004	1876	SVC		4,R4	PT118760	
12C0	030D	1877		BR	R13	PT118770	
12C2	E150 0005	1878	SVC		5,R5	PT118780	
12C6	030D	1879		BR	R13	PT118790	
12C8	E160 0006	1880	SVC		6,R6	PT118800	
12CC	030D	1881		BR	R13	PT118810	
12CE	E170 0007	1882	SVC		7,R7	PT118820	
12D2	030D	1883		BR	R13	PT118830	
12D4	E180 0008	1884	SVC208	SVC	8,R8	PT118840	
12D8	030D	1885		BR	R13	PT118850	
12DA	E190 0009	1886	SVC		9,R9	PT118860	
12DE	030D	1887		BR	R13	PT118870	
12E0	E1A0 000A	1888	SVC		10,R10	PT118880	
12E4	030D	1889		BR	R13	PT118890	
12E6	E1B0 000B	1890	SVC		11,R11	PT118900	
12EA	030D	1891		BR	R13	PT118910	
12EC	E1C0 000C	1892	SVC212	SVC	12,R12	PT118920	
12F0	030D	1893		BR	R13	PT118930	
12F2	E1D0 000D	1894	SVC		13,R13	PT118940	
12F6	030D	1895		BR	R13	PT118950	
12F8	E1E6 0000	1896	SVC		14,0(R6)	PT118960	
12FC	030D	1897		BR	R13	PT118970	
12FE	E1F0 000F	1898	SVC215	SVC	15,R15	PT118980	
1302	030D	1899		BR	R13	PT118990	
		1900	*			PT119000	
1304	4840 0094	1901	SVCINT	LH	R4,X'94'	SUPVC CALL ARGU. POINTER	PT119010
1308	0541	1902		CLHR	R4,R1	MUST EQUAL R1	PT119020
130A	0230	1903		BNER	R13		PT119030
130C	4840 0096	1904		LH	R4,X'96'	OLD PSW	PT119040
1310	C540 2805	1905	M5005	CLHI	R4,X'2805'		PT119050
1314	023D	1906		BNER	R13		PT119060
1316	4840 0098	1907		LH	R4,X'98'	OLD PSW LOCA.	PT119070
131A	2604	1908		AIS	R0,4	MUST EQUAL R3 + 4	PT119080
131C	0504	1909		CLHR	R0,R4		PT119090
131E	023D	1910		BNER	R13		PT119100
1320	40D3 0000	1911		STH	R13,0(R3)	RESTORE ERR. ADD. AT SVC TESTED	PT119110
1324	2611	1912		AIS	R1,1		PT119120
1326	C510 0010	1913		CLHI	R1,16		PT119130
132A	4230 1268	1914		BNE	SVC100		PT119140
132C	2301	1915	T9END	BS	TEST10		PT119150
		1916				*****	PT119160
		1917	*				PT119170
		1918	*			TEST 10 CHECKS THE INSTRUCTIONS	PT119180

		1919 *		PT119190
		1920 *	SINT AND ILLG. INSTR. INTRPR.	PT119200
		1921 *		PT119210
		1922 *	T10INT=ADD. FOR INTERRUPT	PT119220
		1923 *		PT119230
		1924 *	T10SNT=ADD. SIMULATE INTERRUPT	PT119240
		1925 *		PT119250
		1926 *	OLDPSW=ADD. OF INSTR. AFTER T10SNT	PT119260
		1927 *		PT119270
		1928 *	T10DEV=DEV. NO. 0 THRU 255 OF THE INTRPT. DEV.	PT119280
		1929 *		PT119290
	1330	C800 1518	1930 TEST10 LHI R0,TEST11	PT119300
	1334	4000 1F92	1931 STH R0,NXTST	PT119310
	1338	C800 011A	1932 LHI R0,X'011A'	PT119320
	133C	4000 1F90	1933 STH R0,ERRIND	ERRIND = 011A PT119330
	1340	C800 3141	1934 LHI R0,C'1A'	PT119340
	1344	4000 1F58	1935 STH R0,TESTNO	PT119350
		1936 *		PT119360
	1348	2410	1937 LIS R1,0	R1=ADD. OF INTRPT. DEV. PT119370
	134A	C840 00FE	1938 LHI R4,X'FE'	PT119380
	134E	C830 138E	1939 LHI R3,T10R2	ERROR ADD. FOR INCORRECT PT119390
	1352	4034 0000	1940 T10A1 STH R3,0(R4)	SERVICE POINTER PT119400
	1356	2742	1941 SIS R4,2	PT119410
	1358	C540 0000	1942 CLHI R4,X'D0'	STORED AT ALL LOCATIONS PT119420
	135C	2035	1943 BNES T10A1	X'D0' THRU X'2CE' PT119430
	135E	C830 1E3C	1944 T10A2 LHI R3,ERROR	ERR. ADD. EXT. I/O INTRPT. PT119440
	1362	4030 0046	1945 STH R3,X'46'	NEW PSW EXT. I/O INTRPT. PT119450
	1366	4010 0044	1946 STH R1,X'44'	PT119460
	136A	4010 0040	1947 STH R1,X'40'	OLD PSW EXT. I/O INT. (PSW) PT119470
	136E	4010 0042	1948 STH R1,X'42'	OLD PSW EXT. I/O INT. (LOC.) PT119480
	1372	4010 1400	1949 STH R1,T10DEV	T10DEV=SINT DEV. ADDRESS PT119490
	1376	4010 138E	1950 STH R1,T10R2	OLD PSW INCORRECT DEV. ADD. PT119500
	137A	4010 1390	1951 STH R1,T10R2+2	PT119510
	137E	4010 1392	1952 STH R1,T10R2+4	PT119520
	1382	C830 13A2	1953 LHI R3,T10INT	PT119530
	1386	4030 00D0	1954 STH R3,X'D0'	PT119540
	138A	4300 13F6	1955 B T10SNT	PT119550
	138E	0000	1956 T10R2 DC 0	PT119560
	1390	0000	1957 DC 0	PT119570
	1392	0000	1958 DC 0	PT119580
	1394	C800 021A	1959 T10R2B LHI R0,X'021A'	ERRIND = 021A PT119590
	1398	4000 1F90	1960 STH R0,ERRIND	PT119600
	139C	4300 1E3C	1961 B ERROR	ERROR 1A02 PT119610
		1962 *		PT119620
	13A0	0000	1963 DC 0	PT119630
	13A2	0000	1964 T10INT DC 0	OLD PSW PT119640
	13A4	0000	1965 DC 0	OLD PSW LOCATION PT119650
	13A6	0000	1966 DC 0	NEW PSW PT119660
	13A8	2400	1967 LIS R0,0	PT119670
	13AA	4830 13A2	1968 LH R3,T10INT	OLD PSW=4000? PT119680
	13AE	C530 4000	1969 CLHI R3,X'4000'	PT119690
	13B2	213A	1970 BNES T10R4	PT119700
	13B4	C830 1402	1971 LHI R3,OLDPSW	PT119710
	13B8	4530 13A4	1972 CLH R3,T10INT+2	OLD PSW LOC. PT119720
	13BC	2135	1973 BNES T10R4	PT119730

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13BE	9530	1974	EPSR	R3,R0	CURRENT PSW MUST BE ZERO	PT119740
13C0	C430 FFFF	1975	NHI	R3,X'FFFF'		PT119750
13C4	2335	1976	BZS	T10D		PT119760
13C6	C800 041A	1977	T10R4	LHI R0,X'041A'	ERRIND = 041A	PT119770
13CA	4300 1406	1978		B T10R34	ERROR 1A04	PT119780
		1979	*			PT119790
		1980	*	NO ERROR DETECTED		PT119800
		1981	*			PT119810
13CE	4000 13A2	1982	T10D	STH RG,T10INT	RESET OLD PSW STORAGE LOC.	PT119820
13D2	4000 13A4	1983		STH R0,T10INT+2		PT119830
13D6	C830 138E	1984	LHI	R3,T10R2	LOAD ERROR ADD. AT	PT119840
13DA	4034 0000	1985	STH	R3,0(R4)	DEV. NO. JUST TESTED	PT119850
13DE	2611	1986	AIS	R1,1		PT119860
13E0	C510 0018	1987	CLHI	R1,X'18'		PT119870
13E4	4330 140E	1988	BE	T10E		PT119880
13E8	2642	1989	AIS	R4,2	SERVICE POINTER FOR NEXT DEV.	PT119890
13EA	C830 13A2	1990	LHI	R3,T10INT	STORE INTERRUPT ADDRESS	PT119900
13EE	4034 0000	1991	STH	R3,0(R4)		PT119910
13F2	4010 1400	1992	STH	R1,T10DEV		PT119920
13F6	C200 13FA	1993	T10SNT	LPSW **+4		PT119930
13FA	4000	1994		DC X'4000',*+2		PT119940
13FC	13FE					
	0000 13FE	1995	SINT	EQU *		PT119950
13FE	E200	1996	DC	X'E200'	SINT INSTR. CODE	PT119960
1400	0000	1997	T10DEV	DC 0	DEV. NO.	PT119970
	0000 1402	1998	OLDPSW	EQU *		PT119980
1402	C800 031A	1999	T10R3	LHI R0,X'031A'	ERROR 1A03	PT119990
1406	4000 1F90	2000	T10R34	STH R0,ERRIND		PT120000
140A	4300 1E3C	2001		B ERROR	ERROR 1A03 OR 1A04	PT120010
		2002	*			PT120020
		2003	*	TEST ILLEGAL INSTRUCTION INTERRUPT FOR INSTRUCTIONS		PT120030
		2004	*			PT120040
		2005	*	10 THRU 1F , 30 THRU 3F , 50 THRU 5F , 70 THRU 7F		PT120050
		2006	*			PT120060
		2007	*	80 THRU 8F , A0 THRU AF , B0 THRU BF , F0 THRU FF		PT120070
		2008	*			PT120080
		2009	*	ILLEGAL = ADD. OF THE ILLEGAL INSTRUCTION		PT120090
		2010	*			PT120100
		2011	*	ILGINT = ILLG. INSTR. INTRPT. ADDRESS		PT120110
		2012	*			PT120120
140E	4800 1F80	2013	T10E	LH R0,CPUNO		PT120130
1412	C840 14D6	2014	LHI	R4,T10M16	START OF ILLEGAL INST. EXCEPTION TABLE	PT120140
1416	C860 0031	2015	LHI	R6,C'1'	IS 1ST CHARACTER IN CPUNO A 1 FOR MODEL	PT120150
141A	D460 1F80	2016	CLB	R6,CPUNO		PT120160
141E	4330 1440	2017	BE	T10G	YES	PT120170
1422	C840 14EF	2018	LHI	R4,T10M70		PT120180
1426	C500 3835	2019	CLHI	R0,C'85'		PT120190
142A	2134	2020	BNES	T10E2		PT120200
142C	C840 14F2	2021	LHI	R4,T10M85		PT120210
1430	2308	2022	BS	T10G		PT120220
1432	C400 0704	2023	T10E2	NHI R0,X'704'		PT120230
1436	C500 0704	2024	CLHI	R0,X'704'		PT120240
143A	2133	2025	BNES	T10G		PT120250
143C	C840 14DE	2026	LHI	R4,T10M74		PT120260
1440	24A0	2027	T10G	LIS R10,0	R10 = 0 FOR FIRST TIME	PT120270

1442	2460	2028	LIS	R6,0	PT120280	
1444	2480	2029	LIS	R11,0	PT120290	
1446	2400	2030	T10H	LIS R0,0	PT120300	
1448	4000 0034	2031	STH	R0,X'34'	NEW PSW , ILLG. INSTR.	PT120310
144C	C800 14B2	2032	LHI	R0,T10ILG	PT120320	
1450	4000 0036	2033	STH	R0,X'36'	PT120330	
1454	2501	2034	LCS	R0,1	PT120340	
1456	4000 0030	2035	STH	R0,X'30'	PT120350	
145A	4000 0032	2036	STH	R0,X'32'	PT120360	
145E	08AA	2037	LHR	R10,R10	PT120370	
1460	4230 147A	2038	BNZ	T10K	IF R10 = 1 , TEST ODD ILLG. INST.	PT120380
1464	D314 0000	2039	LB	R1,0(R4)	OTHERWISE GET NEXT ILLG. INSTR.	PT120390
1468	0811	2040	LHR	R1,R1	PT120400	
146A	2135	2041	BNZS	T10J	PT120410	
146C	24A1	2042	LIS	R10,1	PT120420	
146E	C840 14FE	2043	LHI	R4,T10ODD	PT120430	
1472	2302	2044	BS	T10JJ	PT120440	
1474	2641	2045	T10J	AIS R4,1	PT120450	
1476	4300 149C	2046	T10JJ	B T10L	PT120460	
147A	08BB	2047	T10K	LHR R11,R11	PT120470	
147C	2338	2048	BNZS	T10KK	PT120480	
147E	248J	2049	LIS	R11,0	PT120490	
1480	2641	2050	AIS	R4,1	PT120500	
1482	C540 1506	2051	CLHI	R4,T10LST+1	PT120510	
1486	4330 1506	2052	BE	T10Z	PT120520	
148A	246J	2053	LIS	R6,0	PT120530	
148C	D314 0000	2054	T10KK	LB R1,0(R4)	R11 = 0	PT120540
1490	0A16	2055	AHR	R1,R6	PT120550	
1492	2661	2056	AIS	R6,1	PT120560	
1494	C560 0010	2057	CLHI	R6,16	PT120570	
1498	2132	2058	BNES	T10L	PT120580	
149A	24B1	2059	LIS	R11,1	PT120590	
		2060	*		PT120600	
		2061	*	R1 = ILLEGAL INSTRUCTION	PT120610	
		2062	*		PT120620	
149C	D210 14A8	2063	T10L	STB R1,ILLEG	PT120630	
14A0	C200 14A4	2064	LPSW	T10M	PT120640	
14A4	7C05	2065	T10M	DC X'7C05',ILLEG	PT120650	
14A6	14A8					
14A8	0000	2066	ILLEG	DC 0	ILLEGAL INSTRUCTION	PT120660
14AA	C800 051A	2067	T10R7	LHI R0,X'051A'	ERRIND = 051A	PT120670
14AE	4300 14D0	2068	B	T10R78	ERROR 1A05	PT120680
		2069	*		PT120690	
14B2	4800 0030	2070	T10ILG	LH R0,X'30'	PT120700	
14B6	C500 7C05	2071	M5006	CLHI R0,X'7C05'	IS LOC-30 = OLD PSW	PT120710
14BA	2139	2072	BNES	T10R8	PT120720	
14BC	C830 14A8	2073	LHI	R3,ILLEG	PT120730	
14C0	4530 0032	2074	CLH	R3,X'32'	IS LOC-32 = ADD. OF ILLEG	PT120740
14C4	2134	2075	BNES	T10R8	PT120750	
14C6	9533	2076	EPSR	R3,R3	PT120760	
14C8	4330 1446	2077	BZ	T10H	PT120770	
14CC	C800 061A	2078	T10R8	LHI R0,X'061A'	ERRIND = 061A	PT120780
14D0	4000 1F90	2079	T10R78	STH R0,ERRIND	PT120790	
14D4	4300 1E3C	2080	B	ERROR	ERROR 1A05 OR 1A06	PT120800
		2081	*		PT120810	

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1408	0C	2082	T10M16	DB	X'0C'	MHR	PT120820
1409	0D	2083		DB	X'0D'	DHR	PT120830
140A	4C	2084		DB	X'4C'	MH	PT120840
140B	4D	2085		DB	X'4D'	DH	PT120850
140C	9C	2086		DB	X'9C'	MHUR	PT120860
140D	DC	2087		DB	X'DC'	MHU	PT120870
		2088	*				PT120880
140E	28	2089	T10M74	DB	X'28'	LER	PT120890
140F	29	2090		DB	X'29'	CER	PT120900
14E0	2A	2091		DB	X'2A'	AER	PT120910
14E1	2B	2092		DB	X'2B'	SER	PT120920
14E2	2C	2093		DB	X'2C'	MER	PT120930
14E3	2D	2094		DB	X'2D'	DER	PT120940
14E4	60	2095		DB	X'60'	STE	PT120950
14E5	64	2096		DB	X'64'	ATL	PT120960
14E6	65	2097		DB	X'65'	ABL	PT120970
14E7	66	2098		DB	X'66'	RTL	PT120980
14E8	67	2099		DB	X'67'	RBL	PT120990
14E9	68	2100		DB	X'68'	LE	PT121000
14EA	69	2101		DB	X'69'	CE	PT121010
14EB	6A	2102		DB	X'6A'	AE	PT121020
14EC	6B	2103		DB	X'6B'	SE	PT121030
14ED	6C	2104		DB	X'6C'	ME	PT121040
14EE	6D	2105		DB	X'6D'	DE	PT121050
14EF	E5	2106	T10M70	DB	X'E5'		PT121060
14F0	E8	2107		DB	X'E8'		PT121070
14F1	E9	2108		DB	X'E9'		PT121080
14F2	2E	2109	T10M85	DB	X'2E'		PT121090
14F3	2F	2110		DB	X'2F'		PT121100
14F4	62	2111		DB	X'62'		PT121110
14F5	63	2112		DB	X'63'		PT121120
14F6	6E	2113		DB	X'6E'		PT121130
14F7	6F	2114		DB	X'6F'		PT121140
14F8	E0	2115		DB	X'E0'		PT121150
14F9	E3	2116		DB	X'E3'		PT121160
14FA	E4	2117		DB	X'E4'		PT121170
14FB	E6	2118		DB	X'E6'		PT121180
14FC	E7	2119		DB	X'E7'		PT121190
14FD	00	2120		DB	X'00'		PT121200
14FE	10	2121	T10000	DB	X'10'		PT121210
14FF	30	2122		DB	X'30'		PT121220
1500	50	2123		DB	X'50'		PT121230
1501	70	2124		DB	X'70'		PT121240
1502	80	2125		DB	X'80'		PT121250
1503	A0	2126		DB	X'A0'		PT121260
1504	B0	2127		DB	X'B0'		PT121270
1505	F0	2128	T10LST	DB	X'F0'		PT121280
1506		2129		DB	*		PT121290
		2130	*				PT121300
1506	C800 1E08	2131	T10Z	LHI	RO,EXTINT		PT121310
150A	4000 0046	2132		STH	RO,X'46'	RESTORE EXTINT ERROR ADRS.	PT121320
150E	C800 1E00	2133		LHI	RO,ILGINT		PT121330
1512	4000 0036	2134		STH	RO,X'36'	RESTORE ILGINT ERROR ADRS.	PT121340
1516	2301	2135	T10END	BS	TEST11		PT121350
		2136			*****		PT121360

		2137 *		PT121370	
		2138 *	TEST 11 CHECKS THE INSTRUCTIONS	PT121380	
		2139 *		PT121390	
		2140 *	SLL , SRL , SLA , SRA , RLL , RRL	PT121400	
		2141 *		PT121410	
1518	C200 151C	2142 TEST11	LPSW T11	PT121420	
151C	7C00	2143 T11	DC X'7C00',T11A	PT121430	
151E	1520				
1520	C800 1836	2144 T11A	LHI R0,TEST12	PT121440	
1524	4000 1F92	2145 STH	R0,NXTST	PT121450	
1528	C800 011B	2146 LHI	R0,X'011B'	PT121460	
152C	4000 1F90	2147 STH	R0,ERRIND	PT121470	
1530	C800 3142	2148 LHI	R0,X'3142'	PT121480	
1534	4000 1F58	2149 STH	R0,TESTNO	PT121490	
		2150 *		PT121500	
1538	2440	2151 LIS	R4,0	R4 = 0,0,0,0	PT121510
153A	245J	2152 LIS	R5,0	R5 = 0,0,0,0	PT121520
	0000 153C	2153 SLL	EQU *		PT121530
153C	ED40 0000	2154 SLL	R4,0	ZERO SHIFT	PT121540
1540	213A	2155 BNZS	T11R1	COND. CODE = 0 ?	PT121550
	0000 1542	2156 SRL	EQU *		PT121560
1542	EC40 0000	2157 SRL	R4,0		PT121570
1546	2137	2158 BNZS	T11R1		PT121580
	0000 1548	2159 SLA	EQU *		PT121590
1548	EF40 0000	2160 SLA	R4,0		PT121600
154C	2134	2161 BNZS	T11R1		PT121610
	0000 154E	2162 SRA	EQU *		PT121620
154E	EE40 0000	2163 SRA	R4,0		PT121630
1552	2333	2164 BZS	T11B1		PT121640
1554	4300 1E3C	2165 T11R1	R ERROR	ERROR 1B01	PT121650
1558	C840 0101	2166 T11B1	LHI R4,X'0101'		PT121660
155C	2450	2167 LIS	R5,0		PT121670
155E	ED40 0000	2168 SLL	R4,0	CHECK G FLAG FOR SLL	PT121680
1562	2227	2169 BFBS	2,T11R1		PT121690
1564	EC40 0000	2170 SRL	R4,0	CHECK G FLAG FOR SRL	PT121700
1568	222A	2171 BFBS	2,T11R1		PT121710
156A	EF40 0000	2172 SLA	R4,0	CHECK G FLAG FOR SLA	PT121720
156E	232+	2173 BFFS	2,T11R2A		PT121730
1570	EE40 0000	2174 SRA	R4,0	CHECK G FLAG FOR SRA	PT121740
1574	2123	2175 BTFS	2,T11B		PT121750
1576	4300 1E3C	2176 T11R2A	6 ERROR		PT121760
157A	C840 D2BB	2177 T11B	LHI R4,X'D2BB'	R4=1101,0010,1011,1011	PT121770
157E	C850 2D55	2178 LHI	R5,X'2D55'	R5=0010,1101,0101,0101	PT121780
1582	ED40 0000	2179 SLL	R4,0	ZERO SHIFT	PT121790
1586	2088	2180 BCS	T11R2A	CARR = 0 ?	PT121800
1588	2219	2181 BNMS	T11R2A		PT121810
158A	EC40 0000	2182 SRL	R4,0		PT121820
158E	2180	2183 BCS	T11R2		PT121830
1590	231C	2184 BNMS	T11R2		PT121840
1592	EF40 0000	2185 SLA	R4,0		PT121850
1596	2189	2186 BCS	T11R2		PT121860
1598	2318	2187 BNMS	T11R2		PT121870
159A	EE40 0000	2188 SRA	R4,0		PT121880
159E	2185	2189 BCS	T11R2		PT121890
15A0	2314	2190 BNMS	T11R2		PT121900

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15A2	C540 D2BB	2191	CLHI	R4,X'D2BB'	CHECK FOR SHIFTS OF ZERO ONLY	PT121910
15A6	2333	2192	BES	T11D		PT121920
15A8	4300 1E3C	2193	T11R2	B	ERROR	PT121930
	0000 15AC	2194	T11D	EQU	*	PT121940
15AC	C550 2D55	2195	CLHI	R5,X'2D55'		PT121950
15B0	2034	2196	BNES	T11R2		PT121960
15B2	ED40 0001	2197	SLL	R4,1	SHIFT LEFT 1	PT121970
15B6	2267	2198	BNCS	T11R2		PT121980
15B8	C540 A576	2199	CLHI	R4,X'A576'		PT121990
15Bc	203A	2200	BNES	T11R2		PT122000
15Bd	C550 5AAA	2201	CLHI	R5,X'5AAA'		PT122010
15C2	2130	2202	BNES	T11R3		PT122020
15C4	ED40 0002	2203	SLL	R4,2	SHIFT LEFT 2	PT122030
15C8	218A	2204	BCS	T11R3		PT122040
15CA	C540 95D9	2205	CLHI	R4,X'95D9'		PT122050
15CE	2137	2206	BNES	T11R3		PT122060
15D0	C550 6AA8	2207	CLHI	R5,X'6AA8'		PT122070
15D4	2134	2208	BNES	T11R3		PT122080
15D6	ED40 0004	2209	SLL	R4,4	SHIFT LEFT 4	PT122090
15D8	2183	2210	BCS	T11E		PT122100
15DC	4300 1E3C	2211	T11R3	B	ERROR	PT122110
15E0	C540 5D96	2212	T11E	CLHI	R4,X'5D96'	PT122120
15E4	2034	2213	BNES	T11R3		PT122130
15E6	C550 AA80	2214	CLHI	R5,X'AA80'		PT122140
15EA	2037	2215	BNES	T11R3		PT122150
15EC	ED40 0006	2216	SLL	R4,8	SHIFT LEFT 8	PT122160
15FC	228A	2217	BNCS	T11R3		PT122170
15F2	C540 96AA	2218	CLHI	R4,X'96AA'		PT122180
15F6	2030	2219	BNES	T11R3		PT122190
15F8	C550 8000	2220	CLHI	R5,X'8000'		PT122200
15FC	213B	2221	BNES	T11R4		PT122210
15FE	C850 67A5	2222	LHI	R5,X'67A5'		PT122220
1602	ED40 0010	2223	SLL	R4,16	SHIFT LEFT 16	PT122230
1606	2186	2224	BCS	T11R4		PT122240
1608	C540 67A5	2225	CLHI	R4,X'67A5'		PT122250
160C	2133	2226	BNES	T11R4		PT122260
160E	0855	2227	LHR	R5,R5		PT122270
1610	2333	2228	BZS	T11F		PT122280
1612	4300 1E3C	2229	T11R4	B	ERROR	PT122290
1616	C800 021B	2230	T11F	LHI	R0,X'21B'	PT122300
161A	4000 1F90	2231	STH	R0,ERRIND	ERRIND = 021B	PT122310
161E	C840 AAB4	2232	LHI	R4,X'AAB4'		PT122320
1622	C850 2D55	2233	LHI	R5,X'2D55'		PT122330
1626	EC40 0001	2234	SRL	R4,1	SHIFT RIGHT 1	PT122340
162A	238A	2235	BNCS	T11R5		PT122350
162C	C540 555A	2236	CLHI	R4,X'555A'		PT122360
1630	2137	2237	BNES	T11R5		PT122370
1632	C550 16AA	2238	CLHI	R5,X'16AA'		PT122380
1636	2134	2239	BNES	T11R5		PT122390
1638	EC40 0002	2240	SRL	R4,2	SHIFT RIGHT 2	PT122400
163C	2183	2241	BCS	T11G		PT122410
163E	4300 1E3C	2242	T11R5	B	ERROR	PT122420
1642	C540 1556	2243	T11G	CLHI	R4,X'1556'	PT122430
1646	2034	2244	BNES	T11R5		PT122440
1648	C550 85AA	2245	CLHI	R5,X'85AA'		PT122450

164C	2037	2246	BNES	T11R5		PT122460
164E	EC40 0004	2247	SRL	R4,4	SHIFT RIGHT 4	PT122470
1652	228A	2248	BNCS	T11R5		PT122480
1654	C540 0155	2249 T11H	CLHI	R4,X'0155'		PT122490
1658	213D	2250	BNES	T11R6		PT122500
165A	C550 685A	2251	CLHI	R5,X'685A'		PT122510
165E	213A	2252	BNES	T11R6		PT122520
1660	EC40 0008	2253	SRL	R4,8	SHIFT RIGHT 8	PT122530
1664	2187	2254	BCS	T11R6		PT122540
1666	C540 0001	2255	CLHI	R4,1		PT122550
166A	2134	2256	BNES	T11R6		PT122560
166C	C550 5568	2257	CLHI	R5,X'5568'		PT122570
1670	2333	2258	BES	T11H2		PT122580
1672	4300 1E3C	2259 T11R6	B	ERROR		PT122590
1676	C840 AA95	2260 T11H2	LHI	R4,X'AA95'	ERROR 1B02	PT122600
167A	EC40 0010	2261	SRL	R4,16	SHIFT RIGHT 16	PT122610
167E	2086	2262	BCS	T11R6		PT122620
1680	C550 AA95	2263	CLHI	R5,X'AA95'		PT122630
1684	2039	2264	BNES	T11R6		PT122640
1686	0844	2265	LHR	R4,R4		PT122650
1688	2038	2266	BNZS	T11R6		PT122660
168A	C800 031B	2267 T11J	LHI	R0,X'31B'		PT122670
168E	4000 1F90	2268	STH	R0,ERRIND	ERRIND = 031B	PT122680
1692	C860 496C	2269	LHI	R6,X'496C'	R6 = 0100,1001,0110,1100	PT122690
1696	C870 B5E3	2270	LHI	R7,X'B5E3'	R7 = 1011,0101,1110,0011	PT122700
169A	EF60 0001	2271	SLA	R6,1	SHIFT LEFT ARITH. 1	PT122710
169E	2380	2272	BNCS	T11R7		PT122720
16A0	C560 12D9	2273	CLHI	R6,X'12D9'		PT122730
16A4	213A	2274	BNES	T11R7		PT122740
16A6	C570 6BC6	2275	CLHI	R7,X'6BC6'		PT122750
16AA	2137	2276	BNES	T11R7		PT122760
16AC	EF60 0002	2277	SLA	R6,2	SHIFT LEFT ARITH. 2	PT122770
16B0	2184	2278	BCS	T11R7		PT122780
16B2	C560 4B65	2279	CLHI	R6,X'4B65'		PT122790
16B6	2333	2280	BES	T11K		PT122800
16B8	4300 1E3C	2281 T11R7	B	ERROR	ERROR 1B03	PT122810
16BC	C570 AF18	2282 T11K	CLHI	R7,X'AF18'		PT122820
16C0	2034	2283	BNES	T11R7		PT122830
16C2	9161	2284	SLLS	R6,1	R6 = 96CA	PT122840
16C4	EF60 0004	2285	SLA	R6,4	SHIFT LEFT ARITH. 4	PT122850
16C8	2088	2286	BCS	T11R7		PT122860
16CA	C560 ECAA	2287	CLHI	R6,X'ECAA'		PT122870
16CE	2038	2288	BNES	T11R7		PT122880
16D0	C570 F180	2289	CLHI	R7,X'F180'		PT122890
16D4	203E	2290	BNES	T11R7		PT122900
16D6	2488	2291	LIS	R8,8		PT122910
16D8	EF68 0000	2292	SLA	R6,0(R8)		PT122920
16DC	238C	2293	BNCS	T11R8		PT122930
16DE	C560 AAF1	2294	CLHI	R6,X'AAF1'		PT122940
16E2	2139	2295	BNES	T11R8		PT122950
16E4	C570 8000	2296	CLHI	R7,X'8000'		PT122960
16E8	2136	2297	BNES	T11R8		PT122970
16EA	C870 550E	2298	LHI	R7,X'550E'		PT122980
16EE	EF60 0010	2299	SLA	R6,16	SHIFT LEFT ARITH. 16	PT122990
16F2	2383	2300	BNCS	T11K2		PT123000

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16F4	4300 1E3C	2301	T11R8	B	ERROR	ERROR 1B03	PT123010
16F8	C560 D50E	2302	T11K2	CLHI	R6,X'D50E'		PT123020
16FC	2034	2303		BNES	T11R8		PT123030
16FE	0877	2304		LHR	R7,R7		PT123040
1700	2036	2305		BNZS	T11R8		PT123050
		2306	*				PT123060
		2307	*	SRA			PT123070
		2308	*				PT123080
1702	C860 4576	2309	T11L	LHI	R6,X'4576'		PT123090
1706	C870 6729	2310		LHI	R7,X'6729'		PT123100
170A	EE60 0001	2311		SRA	R6,1	SHIFT RIGHT ARITH 1	PT123110
170E	228D	2312		BNCS	T11R8		PT123120
1710	222E	2313		BNPS	T11R8		PT123130
1712	C560 22BB	2314		CLHI	R6,X'22BB'		PT123140
1716	213F	2315		BNES	T11R9		PT123150
1718	C570 3394	2316		CLHI	R7,X'3394'		PT123160
171C	213E	2317		BNES	T11R9		PT123170
171E	2482	2318		LIS	R8,2		PT123180
1720	EE68 0000	2319		SRA	R6,0(R8)		PT123190
1724	2188	2320		BCS	T11R9		PT123200
1726	2327	2321		BNPS	T11R9		PT123210
1728	C560 08AE	2322		CLHI	R6,X'08AE'		PT123220
172C	2134	2323		BNES	T11R9		PT123230
172E	C570 CCE5	2324		CLHI	R7,X'CCE5'		PT123240
1732	2333	2325		BES	T11L3		PT123250
1734	4300 1E3C	2326	T11R9	B	ERROR	ERROR 1B03	PT123260
1738	C860 AB0F	2327	T11L3	LHI	R6,X'AB0F'		PT123270
173C	C870 148A	2328		LHI	R7,X'148A'		PT123280
1740	EE60 0004	2329		SRA	R6,4	SHIFT RIGHT ARITH. 4	PT123290
1744	2288	2330		BNCS	T11R9		PT123300
1746	2029	2331		BPS	T11R9		PT123310
1748	C560 FAB0	2332		CLHI	R6,X'FAB0'		PT123320
174C	203C	2333		BNES	T11R9		PT123330
174E	C570 F148	2334		CLHI	R7,X'F148'		PT123340
1752	213B	2335		BNES	T11R95		PT123350
1754	EE60 0008	2336		SRA	R6,8	SHIFT RIGHT ARITH. 8	PT123360
1758	2188	2337		BCS	T11R95		PT123370
175A	2127	2338		BPS	T11R95		PT123380
175C	C560 FFFA	2339		CLHI	R6,X'FFFA'		PT123390
1760	2134	2340		BNES	T11R95		PT123400
1762	C570 B0F1	2341		CLHI	R7,X'B0F1'		PT123410
1766	2333	2342		BES	T11L5		PT123420
1768	4300 1E3C	2343	T11R95	B	ERROR	ERROR 1B03	PT123430
176C	C860 730E	2344	T11L5	LHI	R6,X'730E'		PT123440
1770	EE60 0010	2345		SRA	R6,16	SHIFT RIGHT ARITH. 16	PT123450
1774	2286	2346		BNCS	T11R95		PT123460
1776	2227	2347		BNPS	T11R95		PT123470
1778	C570 730E	2348		CLHI	R7,X'730E'		PT123480
177C	203A	2349		BNES	T11R95		PT123490
177E	0866	2350		LHR	R6,R6		PT123500
1780	203C	2351		BNZS	T11R95		PT123510
1782	C800 041B	2352	T11P	LHI	R0,X'41B'		PT123520
1786	4000 1F90	2353		STH	R0,ERRIND	ERRIND = 041B	PT123530
178A	C840 8F70	2354		LHI	R4,X'8F70'		PT123540
178E	0864	2355		LHR	R6,R4	R4 = R6 = 8F70	PT123550

1790	C850 E6A0	2356	LHI	R5,X'E6A0'		PT123560
1794	0875	2357	LHR	R7,R5	R5 = R7 = E680	PT123570
	0000 1796	2358 RLL	EQU	*		PT123580
1796	EB60 0000	2359	RLL	R6,0		PT123590
179A	212E	2360	BPS	T11RA	RESULT IS -VE	PT123600
	0000 179C	2361 RRL	EQU	*		PT123610
179C	EA60 0000	2362	RRL	R6,0		PT123620
17A0	212B	2363	BPS	T11RA		PT123630
17A2	0546	2364	CLHR	R4,R6		PT123640
17A4	2139	2365	BNES	T11RA		PT123650
17A6	0557	2366	CLHR	R5,R7		PT123660
17A8	2137	2367	BNES	T11RA		PT123670
17AA	EB60 0001	2368	RLL	R6,1	ROTATE LEFT 1	PT123680
17AE	2324	2369	BNPS	T11RA		PT123690
17B0	C560 1EE1	2370	CLHI	R6,X'1EE1'		PT123700
17B4	2333	2371	BES	T11P2		PT123710
17B6	4300 1E3C	2372 T11RA	B	ERROR	ERROR 1B04	PT123720
17B8A	C570 CD41	2373 T11P2	CLHI	R7,X'CD41'		PT123730
17B8E	2034	2374	BNES	T11RA		PT123740
17C0	EA60 0001	2375	RRL	R6,1	ROTATE RIGHT 1	PT123750
17C4	2027	2376	BPS	T11RA		PT123760
17C6	0546	2377	CLHR	R4,R6		PT123770
17C8	2039	2378	BNES	T11RA		PT123780
17CA	0557	2379	CLHR	R5,R7		PT123790
17CC	2038	2380	BNES	T11RA		PT123800
17CE	EB60 0002	2381	RLL	R6,2	ROTATE LEFT 2	PT123810
17D2	232E	2382	BNPS	T11RB		PT123820
17D4	C560 3DC3	2383	CLHI	R6,X'3DC3'		PT123830
17D8	213B	2384	BNES	T11RB		PT123840
17DA	C570 9A82	2385	CLHI	R7,X'9A82'		PT123850
17DE	2138	2386	BNES	T11RB		PT123860
17E0	EA60 0002	2387	RRL	R6,2	ROTATE RIGHT 2	PT123870
17E4	2125	2388	BPS	T11RB		PT123880
17E6	0546	2389	CLHR	R4,R6		PT123890
17E8	2133	2390	BNES	T11RB		PT123900
17EA	0557	2391	CLHR	R5,R7		PT123910
17EC	2333	2392	BES	T11P4		PT123920
17EE	4300 1E3C	2393 T11RB	B	ERROR	ERROR 1B04	PT123930
17F2	EB60 UUU4	2394 T11P4	RLL	R6,4	ROTATE LEFT 4	PT123940
17F6	2024	2395	BPS	T11RB		PT123950
17F8	EB60 0008	2396	RLL	R6,8	ROTATE LEFT 8	PT123960
17FC	2227	2397	BNPS	T11RB		PT123970
17FE	EA60 0004	2398	RRL	R6,4	ROTATE RIGHT 4	PT123980
1802	222A	2399	BNPS	T11RB		PT123990
1804	EA60 0008	2400	RRL	R6,8	ROTATE RIGHT 8	PT124000
1808	2020	2401	BPS	T11RB		PT124010
180A	0546	2402	CLHR	R4,R6		PT124020
180C	213E	2403	BNES	T11RC		PT124030
180E	0557	2404	CLHR	R5,R7		PT124040
1810	213C	2405	BNES	T11RC		PT124050
1812	EB60 0010	2406	RLL	R6,16	ROTATE LEFT 16	PT124060
1816	2129	2407	BPS	T11RC		PT124070
1818	2188	2408	BCS	T11RC		PT124080
181A	0547	2409	CLHR	R4,R7		PT124090
181C	2136	2410	BNES	T11RC		PT124100

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181E	0556	2411	CLHR	R5,R6	PT124110		
1820	2134	2412	BNES	T11RC	PT124120		
1822	EA60 0010	2413	RRL	R6,16	PT124130		
1826	2323	2414	BNPS	T11P8	PT124140		
1828	4300 1E3C	2415	T11RC	B	ERROR ROTATE RIGHT 16 PT124150		
182C	0546	2416	T11P8	CLHR	R4,R6 PT124160		
182E	2033	2417	BNES	T11RC	PT124170		
1830	0557	2418	CLHR	R5,R7	PT124180		
1832	2035	2419	BNES	T11RC	PT124190		
		2420	*		PT124200		
1834	2301	2421	T11END	BS	TEST12 PT124210		
		2422	*****				PT124220
		2423	*			PT124230	
		2424	*	TEST12	CHECKS THE INSTRUCTIONS	PT124240	
		2425	*			PT124250	
		2426	*	MH	, MHR , MHU , MHUR	PT124260	
		2427	*			PT124270	
		2428	*	DH	, DHR	PT124280	
		2429	*			PT124290	
		2430	*	TEST12	TESTS THE MULTIPLY AND DIVIDE INSTRUCTIONS	PT124300	
		2431	*			PT124310	
	0000 000D	2432	POINT	EQU	13	PT124320	
		2433	*			PT124330	
1836	C800 02B8	2434	TEST12	LHI	R0,TEST1	PT124340	
183A	4000 1F92	2435	STH	R0,NXTST		PT124350	
183E	C800 011C	2436	LHI	R0,X'011C'		PT124360	
1842	4000 1F90	2437	STH	R0,ERRIND		PT124370	
1846	C800 3143	2438	LHI	R0,C'1C'		PT124380	
184A	4000 1F58	2439	STH	R0,TESTNO		PT124390	
184E	D300 1F80	2440	LB	R0,CPUNO		PT124400	
1852	C500 0031	2441	CLHI	R0,C'1'		PT124410	
1856	4330 1BAA	2442	BE	TEST13		PT124420	
		2443	*			PT124430	
185A	24F1	2444	LIS	TOT,1	SET ERROR NUMBER=1	PT124440	
185C	C800 1A80	2445	MCHK2	LHI	POINT,MUD1	PT124450	
1860	2478	2446	LIS	R7,8		PT124460	
1862	483D 0000	2447	MLOOP1	LH	R3,0(POINT)	FETCH A PT124470	
1866	484D 0002	2448	LH	R4,2(POINT)	FETCH B	PT124480	
186A	4850 1F94	2449	LH	R5,ZERO		PT124490	
186E	4860 1F94	2450	LH	R6,ZERO		PT124500	
1872	0853	2451	SHR	R5,R3	GET -A	PT124510	
1874	0B64	2452	SHR	R6,R4	GET -B	PT124520	
1876	488D 0004	2453	LH	R8,4(POINT)	FETCH EXPECTED DOUBLE	PT124530	
187A	489D 0006	2454	LH	R9,6(POINT)	LENGTH VALUE OF (A*B)	PT124540	
187E	0813	2455	LHR	R1,R3	A	PT124550	
1880	95CC	2456	EPSR	R12,R12	SAVE CC	PT124560	
	0000 1882	2457	MH	EQU	*	PT124570	
1882	4C0D 0002	2458	MH	R0,2(POINT)	A*B	PT124580	
1886	41A0 19C6	2459	BAL	R10,TESTC4		PT124590	
188A	24F2	2460	LIS	TOT,2	SET ERROR NUMBER=2	PT124600	
188C	0814	2461	LHR	R1,R4	B	PT124610	
188L	95CC	2462	EPSR	R12,R12	SAVE CC	PT124620	
1890	4C0D 0000	2463	MH	R0,0(POINT)	B*A	PT124630	
1894	41A0 19C6	2464	BAL	R10,TESTC4		PT124640	
189C	24F3	2465	LIS	TOT,3	SET ERROR NUMBER=3	PT124650	

189A	0722	2466	XHR	R2,R2		PT124660
189C	4020 1BA2	2467	STH	R2,SFLAG	RESET SFLAG	PT124670
18A0	C550 8000	2468	CLHI	R5,X"8000"		PT124680
18A4	4230 18B8	2469	BNE	SCONT1		PT124690
18A8	C560 8000	2470	CLHI	R6,X"8000"		PT124700
18AC	4330 18B8	2471	BE	SCONT1		PT124710
18B0	C820 7777	2472	LHI	R2,X"7777"		PT124720
18B4	4020 1BA2	2473	STH	R2,SFLAG	SET SFLAG	PT124730
18B8	0815	2474	SCONT1	LHR	R1,R5 -A	PT124740
188A	95CC	2475		EPSR	R12,R12 SAVE CC	PT124750
18BC	0C06	2476	MHR	R0,R6 -A*(-B)		PT124760
18BE	41A0 1A56	2477	BAL	R10,SCHECK		PT124770
18C2	41A0 19C6	2478	BAL	R10,TESTC4		PT124780
18C6	24F4	2479	LIS	TOT,4	SET ERROR NUMBER=4	PT124790
18C8	0816	2480	LHR	R1,R6		PT124800
18CA	95CC	2481	EPSR	R12,R12		PT124810
18CC	0C05	2482	MHR	R0,R5 -B*(-A)		PT124820
18CE	41A0 1A56	2483	BAL	R10,SCHECK		PT124830
18D2	41A0 19C6	2484	BAL	R10,TESTC4		PT124840
18D6	24F5	2485	LIS	TOT,5	SET ERROR NUMBER=5	PT124850
18D8	0788	2486	XHR	R8,R8		PT124860
18DA	0799	2487	XHR	R9,R9		PT124870
18DC	4890 0006	2488	SH	R9,6(POINT)	DOUBLE LENGTH	PT124880
18E0	4F80 0004	2489	SCH	R8,4(POINT)	EXPECTED -(A*B)	PT124890
18E4	0722	2490	XHR	R2,R2		PT124900
18E6	4020 1BA2	2491	STH	R2,SFLAG	RESET SFLAG	PT124910
18EA	C560 8000	2492	CLHI	R6,X"8000"		PT124920
18EE	4230 19FA	2493	BNE	SCONT2		PT124930
18F2	C820 7777	2494	LHI	R2,X"7777"		PT124940
18F6	4020 1BA2	2495	STH	R2,SFLAG	SET SFLAG	PT124950
18FA	0813	2496	SCONT2	LHR	R1,R3	PT124960
18FC	95CC	2497		EPSR	R12,R12	PT124970
18FE	0C06	2498	MHR	R0,R6 A*(-B)		PT124980
1900	41A0 1A56	2499	BAL	R10,SCHECK		PT124990
1904	41A0 19C6	2500	BAL	R10,TESTC4		PT125000
1908	24F6	2501	LIS	TOT,6	SET ERROR NUMBER=6	PT125010
190A	0816	2502	LHR	R1,R6 -B		PT125020
190C	95CC	2503	EPSR	R12,R12		PT125030
190E	4C00 0000	2504	MH	R0,0(POINT) (-B)*A		PT125040
1912	41A0 1A56	2505	BAL	R10,SCHECK		PT125050
1916	41A0 19C6	2506	BAL	R10,TESTC4		PT125060
191A	24F7	2507	LIS	TOT,7	SET ERROR NUMBER=7	PT125070
191C	0722	2508	XHK	R2,R2		PT125080
191E	4020 1BA2	2509	STH	R2,SFLAG	RESET SFLAG	PT125090
1922	C550 8000	2510	CLHI	R5,X"8000"		PT125100
1926	4230 1932	2511	BNE	SCONT3		PT125110
192A	C820 7777	2512	LHI	R2,X"7777"		PT125120
192E	4020 1BA2	2513	STH	R2,SFLAG	SET SFLAG	PT125130
1932	0814	2514	SCONT3	LHR	R1,R4 B	PT125140
1934	95CC	2515		EPSR	R12,R12	PT125150
	0000 1936	2516	MHR	EQU *		PT125160
1936	0C05	2517	MHR	R0,R5 B*(-A)		PT125170
1938	41A0 1A56	2518	BAL	R10,SCHECK		PT125180
193C	41A0 19C6	2519	BAL	R10,TESTC4		PT125190
1940	24F8	2520	LIS	TOT,8	SET ERROR NUMBER=8	PT125200

1942	0815	2521	LHR	R1,R5	-A	PT125210	
1944	95CC	2522	EPSR	R12,R12	(-A)*B	PT125220	
1946	4C0D 0002	2523	MH	R0,2(POINT)		PT125230	
194A	41A0 1A56	2524	BAL	R10,SCHECK		PT125240	
194E	41A0 19C6	2525	BAL	R10,TESTC4		PT125250	
1952	24F9	2526	LIS	TOT,9	SET ERROR NUMBER=9	PT125260	
1954	488D 0008	2527	LH	R8,8(POINT)	EXPECTED DOUBLE LENGTH VALUE	PT125270	
1958	489D 000A	2528	LH	R9,10(POINT)	OF UNSIGNED PRODUCT OF A AND B	PT125280	
195C	0813	2529	LHR	R1,R3	A	PT125290	
195E	95CC	2530	EPSR	R12,R12		PT125300	
	0000 1960	2531	MHU	EQU *		PT125310	
1960	DC0D 0002	2532	MHU	R0,2(POINT)	A*B UNSIGNED	PT125320	
1964	41A0 19C6	2533	BAL	R10,TESTC4		PT125330	
1968	24FA	2534	LIS	TOT,10	SET ERROR NUMBER=X'A'	PT125340	
196A	0814	2535	LHR	R1,R4	B	PT125350	
196C	95CC	2536	EPSR	R12,R12		PT125360	
	0000 196E	2537	MHUR	EQU *		PT125370	
196E	9C03	2538	MHUR	R0,R3	B*A UNSIGNED	PT125380	
1970	41A0 19C6	2539	BAL	R10,TESTC4		PT125390	
1974	24FB	2540	LIS	TOT,11	SET ERROR NUMBER=X'B'	PT125400	
1976	26DC	2541	AIS	POINT,12		PT125410	
1978	2771	2542	SIS	R7,1		PT125420	
197A	4230 1862	2543	BNZ	MLoop1		PT125430	
	2544 *					PT125440	
	0000 0007	2545	POINTR	EQU 7		PT125450	
	2546 *					PT125460	
197E	0722	2547	DVDCHK	XHR	R2,R2	PT125470	
1980	4020 004C	2548	STH	R2,X'4C'		PT125480	
1984	C830 1A42	2549	LHI	R3,DFAULT		PT125490	
1988	4030 004E	2550	STH	R3,X'4E'		PT125500	
198C	C820 1000	2551	LHI	R2,X'1000'	ENABLE DIVIDE FAULT INTERRUPT	PT125510	
1990	9532	2552	EPSR	R3,R2		PT125520	
1992	C870 1AE0	2553	LHI	POINTR,DIVD2		PT125530	
1996	242F	2554	LIS	R2,15		PT125540	
1998	D1A7 0000	2555	DLOOP2	LM	R10,0(POINTR)	PT125550	
199C	243C	2556	LIS	R3,12	SET ERROR NUMBER=X'C'	PT125560	
199E	080A	2557	LHR	R0,R10	DOUBLE LENGTH	PT125570	
19A0	081B	2558	LHR	R1,R11	DIVIDEND	PT125580	
19A2	9588	2559	EPSR	R8,R8	SAVE PSW	PT125590	
	0000 19A4	2560	DHR	EQU *		PT125600	
19A4	0D0C	2561	DHR	R0,R12	DIVIDEND/DIVISOR	PT125610	
19A6	4190 19DC	2562	BAL	R9,TESTC5		PT125620	
19AA	2430	2563	LIS	R3,13	SET ERROR NUMBER=X'D'	PT125630	
19AC	080A	2564	LHR	R0,R10	DOUBLE LENGTH	PT125640	
19AE	081B	2565	LHR	R1,R11	DIVIDEND	PT125650	
19B0	9588	2566	EPSR	R8,R8	SAVE PSW	PT125660	
	0000 19B2	2567	DH	EQU *		PT125670	
19B2	4D07 0004	2568	DH	R0,4(POINTR)	DIVIDEND/DIVISOR	PT125680	
19B6	4190 19DC	2569	BAL	R9,TESTC5		PT125690	
19BA	267C	2570	AIS	POINTR,12	INCREMENT POINTER BY 12	PT125700	
19BC	2721	2571	SIS	R2,1	DECREMENT COUNT	PT125710	
19BE	4310 1998	2572	BNM	DLoop2		PT125720	
19C2	4300 18AA	2573	T12END	S	TEST13	PT125730	
	2574 *				SUBROUTINES OF T12	PT125740	
19C6	95EE	2575	TESTC4	CFSK	R14,R14	GET PSW	PT125750

19C8	05CE	2576	CLHR	R12,R14	PT125760	
19CA	4230 1A00	2577	BNE	ERR21	PT125770	
19CE	0580	2578	CLHR	R8,R0	PT125780	
19D0	4230 1A00	2579	BNE	ERR21	PT125790	
19D4	0591	2580	CLHR	R9,R1	PT125800	
19D6	4230 1A00	2581	BNE	ERR21	PT125810	
19DA	030A	2582	BR	R10	PT125820	
19DC	9566	2583 TESTC5	EPSR	R6,R6	GET PSW	PT125830
19DE	0568	2584	CLHR	R6,R8	PT125840	
19E0	4230 1A1A	2585	BNE	ERROR1	PT125850	
19E4	0500	2586	CLHR	R0,R13	PT125860	
19E6	4230 1A1A	2587	BNE	ERROR1	PT125870	
19EA	051E	2588	CLHR	R1,R14	PT125880	
19EC	4230 1A1A	2589	BNE	ERROR1	PT125890	
19F0	45F0 1BA0	2590	CLH	R15, IDFLAG	PT125900	
19F4	4230 1A1A	2591	BNE	ERROR1	PT125910	
19F8	0766	2592	XHR	R6,R6	PT125920	
19FA	4060 1BA0	2593	STH	R6, IDFLAG	PT125930	
19FE	0309	2594	BR	R9	PT125940	
1A00	080E	2595 ERR21	LHR	R13,R14	PSW AFTER MULTIPLICATION	PT125950
1A02	08EC	2596	LHR	R14,R12	PSW BEFORE MULTIPLICATION	PT125960
1A04	0888	2597	LHR	R11,R8	CALCULATED	PT125970
1A06	08C9	2598	LHR	R12,R9	RESULT	PT125980
1A08	0890	2599	LHR	R9,R0	EXPECTED	PT125990
1A0A	08A1	2600	LHR	R10,R1	RESULT	PT126000
1A0C	0875	2601	LHR	R7,R5	NEGATIVE OF THE FIRST OPERAND	PT126010
1A0E	0886	2602	LHR	R8,R6	NEGATIVE OF THE SECOND OPERAND	PT126020
1A10	0853	2603	LHR	R5,R3	THE FIRST OPERAND	PT126030
1A12	0864	2604	LHR	R6,R4	THE SECOND OPERAND	PT126040
1A14	244A	2605	LIS	R4,10	TEN VALUES ARE TO BE PRINTED	PT126050
1A16	083F	2606	LHR	R3,TOT	PT126060	
1A18	230U	2607	BS	ERR2	PT126070	
1A1A	244B	2608 ERROR1	LIS	R4,11	ELEVEN HALF WORDS ARE TO BE PRINTED	PT126080
1A1C	085A	2609	LHR	R5,R10	MSB OF THE DIVIDEND	PT126090
1A1E	087C	2610	LHR	R7,R12	DIVISOR	PT126100
1A20	0891	2611	LHR	R9,R1	ACTUAL VALUE OF QUOTIENT	PT126110
1A22	08AD	2612	LHR	R10,R13	EXPECTED VALUE OF REMAINDER	PT126120
1A24	08C6	2613	LHR	R12,R6	PSW AFTER DIVISION	PT126130
1A26	08D8	2614	LHR	R13,R8	PSW BEFORE DIVISION	PT126140
1A28	0880	2615	LHR	R8,R0	ACTUAL VALUE OF THE REMAINDER	PT126150
1A2A	086B	2616	LHR	R6,R11	LSB OF THE DIVIDEND	PT126160
1A2C	08BE	2617	LHR	R11,R14	EXPECTED QUOTIENT VALUE	PT126170
1A2E	48E0 1BA0	2618	LH	R14, IDFLAG	ACTUAL DIVIDE FAULT FLAG	PT126180
1A32	C800 001C	2619 ERR2	LHI	R0,X'001C'	PT126190	
1A36	9138	2620	SLLS	R3,8	PT126200	
1A38	0603	2621	OHR	R0,R3	PT126210	
1A3A	4000 1F90	2622	STH	R0,ERRIND	PT126220	
1A3E	4300 1E3C	2623	B	ERROR	PT126230	
1A42	4060 1BA4	2624 DEFAULT	STH	R6,TEMPF	PT126240	
1A46	C860 7777	2625	LHI	R6,X'7777'	PT126250	
1A4A	4060 1BA0	2626	STH	R6, IDFLAG	SET DIVIDE FAULT INT. FLAG	PT126260
1A4E	4860 1BA4	2627	LH	R6,TEMPF	RESTORE R6	PT126270
1A52	C200 0048	2628	LPSW	X'48'	LOAD NEW PSW & LOC FROM '48'	PT126280
1A56	9522	2629 SCHECK	EPSR	R2,R2	SAVE PSW	PT126290
1A58	48E0 1BA2	2630	LH	R14,SFLAG	EXAMINE SFLAG	PT126300

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1A5C	2338	2631	BZS	NCHANG	IF RESET, DO NOT MODIFY COMPLEMENT THE RESULT	PT126310
1A5E	C700 FFFF	2632	XHI	R0,X'FFFF'		PT126320
1A62	C710 FFFF	2633	XHI	R1,X'FFFF'		PT126330
1A66	2611	2634	AIS	R1,1		PT126340
1A68	4E00 1F94	2635	ACH	R0,ZERO		PT126350
1A6C	95E2	2636	NCHANG	EPSR R14,R2	RESTORE PSW	PT126360
1A6E	030A	2637	BR	R10		PT126370
1A70	0000	2638	*	DATA OF TEST12		PT126380
1A72	0001	2639	MUD2	DC 0,1,X'FFFF'		PT126390
1A74	FFFF					
1A76	7FFF	2640	DC	X'7FFF',X'8001'		PT126400
1A78	8001					
1A7A	8000	2641	DC	X'8000',X'7777'		PT126410
1A7C	7777					
1A7E	79DE	2642	DC	X'79DE'		PT126420
1A80	0000	2643	MUD1	DC 0	A	PT126430
1A82	0000	2644	DC	0	B	PT126440
1A84	0000	2645	DC	0,0	A*B	PT126450
1A86	0000					
1A88	0000	2646	DC	0,0	A*B UNSIGNED	PT126460
1A8A	0000					
1A8C	0000	2647	DC	0	A	PT126470
1A8E	FFFF	2648	DC	X'FFFF'	B	PT126480
1A90	0000	2649	DC	0,0	A*B	PT126490
1A92	0000					
1A94	0000	2650	DC	0,0	A*B UNSIGNED	PT126500
1A96	0000					
1A98	7FFF	2651	DC	X'7FFF',0		PT126510
1A9A	0000					
1A9C	0000	2652	DC	0,0		PT126520
1A9E	0000					
1AA0	0000	2653	DC	0,0		PT126530
1AA2	0000					
1AA4	1111	2654	DC	X'1111'	A	PT126540
1AA6	1111	2655	DC	X'1111'	B	PT126550
1AA8	0123	2656	DC	X'0123',X'4321'	A*B	PT126560
1AAA	4321					
1AAC	0123	2657	DC	X'0123',X'4321'	A*B UNSIGNED	PT126570
1AAE	4321					
1AB0	1111	2658	DC	X'1111'	A	PT126580
1AB2	FFFF	2659	DC	X'FFFF'	B	PT126590
1AB4	FFFF	2660	DC	X'FFFF',X'EEEF'	A*B	PT126600
1AB6	EEEEF					
1AB8	1110	2661	DC	X'1110',X'EEEEF'	A*B UNSIGNED	PT126610
1ABA	EEEEF					
1ABC	FFFF	2662	DC	X'FFFF'	A	PT126620
1ABE	FFFF	2663	DC	X'FFFF'	B	PT126630
1AC0	0000	2664	DC	0,1	A*B	PT126640
1AC2	0001					
1AC4	FFFE	2665	DC	X'FFFE',X'0001'	A*B UNSIGNED	PT126650
1AC6	0001					
1AC8	8000	2666	DC	X'8000',X'FFFF'		PT126660
1ACA	FFFF					
1ACC	0000	2667	DC	0,X'8000'		PT126670

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1ACE	8000						
1AD0	7FFF	2668	DC	X'7FFF',X'8000'			PT126680
1AD2	8000						
1AD4	8000	2669	DC	X'8000',X'8000'			PT126690
1AD6	8000						
1AD8	4000	2670	DC	X'4000',0			PT126700
1ADA	0000						
1ADC	4000	2671	DC	X'4000',0			PT126710
1ADE	0000						
1AE0	0000	2672 DIVD2	DC	0,0,0			PT126720
1AE2	0000						
1AE4	0000						
1AE6	0000	2673	DC	0,0,X'7777'			PT126730
1AE8	0000						
1AEA	7777						
1AEC	0000	2674	DC	0,1,0			PT126740
1AEE	0001						
1AF0	0000						
1AF2	0000	2675	DC	0,1,X'7777'			PT126750
1AF4	0001						
1AF6	7777						
1AF8	FFFF	2676	DC	X'FFFF',X'FFFF'			PT126760
1AFA	FFFF						
1AFC	0000	2677	DC	0,X'FFFF',X'FFFF'			PT126770
1AFE	FFFF						
1B00	FFFF						
1B02	7777	2678	DC	X'7777'			PT126780
1B04	0000	2679	DC	0,0,X'7FFF'			PT126790
1B06	0000						
1B08	7FFF						
1B0A	0000	2680	DC	0,0,0			PT126800
1B0C	0000						
1B0E	0000						
1B10	0000	2681	DC	0,0,X'FFFF'			PT126810
1B12	0000						
1B14	FFFF						
1B16	0000	2682	DC	0,0,0			PT126820
1B18	0000						
1B1A	0000						
1B1C	0000	2683	DC	0,0,X'8000'			PT126830
1B1E	0000						
1B20	8000						
1B22	0000	2684	DC	0,0,0			PT126840
1B24	0000						
1B26	0000						
1B28	3FFF	2685	DC	X'3FFF',X'8000'			PT126850
1B2A	8000						
1B2C	7FFF	2686	DC	X'7FFF',X'3FFF'			PT126860
1B2E	3FFF						
1B30	8000	2687	DC	X'8000',X'7777'			PT126870
1B32	7777						
1B34	C000	2688	DC	X'C000',X'8000'			PT126880
1B36	8000						
1B38	8001	2689	DC	X'8001',X'C000'			PT126890
1B3A	C000						

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1B3C	8000	2690	DC	X'8000',X'7777'	PT126900
1B3E	7777				
1B40	3FFF	2691	DC	X'3FFF',X'7FFF'	PT126910
1B42	7FFF				
1B44	7FFF	2692	DC	X'7FFF',X'7FFE'	PT126920
1B46	7FFE				
1B48	7FFF	2693	DC	X'7FFF',0	PT126930
1B4A	0000				
1B4C	C000	2694	DC	X'C000',X'8001'	PT126940
1B4E	8001				
1B50	8001	2695	DC	X'8001',X'8002'	PT126950
1B52	8002				
1B54	7FFF	2696	DC	X'7FFF',0	PT126960
1B56	0000				
1B58	3FFF	2697	DC	X'3FFF',X'FFFFE'	PT126970
1B5A	FFFE				
1B5C	8001	2698	DC	X'8001',X'7FFE'	PT126980
1B5E	7FFE				
1B60	8000	2699	DC	X'8000',0	PT126990
1B62	0000				
1B64	C000	2700	DC	X'C000',X'0002'	PT127000
1B66	0002				
1B68	7FFF	2701	DC	X'7FFF',X'8002'	PT127010
1B6A	8002				
1B6C	8000	2702	DC	X'8000',0	PT127020
1B6E	0000				
1B70	3FFF	2703	DC	X'3FFF',X'FFFF'	PT127030
1B72	FFFF				
1B74	8001	2704	DC	X'8001',X'3FFF'	PT127040
1B76	3FFF				
1B78	FFFF	2705	DC	X'FFFF',X'7777'	PT127050
1B7A	7777				
1B7C	C000	2706	DC	X'C000',X'0001'	PT127060
1B7E	0001				
1B80	7FFF	2707	DC	X'7FFF',X'C000'	PT127070
1B82	C000				
1B84	0001	2708	DC	X'0001',X'7777'	PT127080
1B86	7777				
1B88	0000	2709	DC	0,1,X'FFFF'	PT127090
1B8A	0001				
1B8C	FFFF				
1B8E	0000	2710	DC	0,X'FFFF',0	PT127100
1B90	FFFF				
1B92	0000				
1B94	FFFF	2711	DC	X'FFFF',X'FFFC'	PT127110
1B96	FFFC				
1B98	0002	2712	DC	X'0002',0	PT127120
1B9A	0000				
1B9C	FFFE	2713	DC	X'FFFE',0	PT127130
1B9E	0000				
1BA0	0000	2714	IDFLAG	DC 0	PT127140
1BA2	0000	2715	SFLAG	DC 0	PT127150
1BA4		2716	TEMPF	DS 2	PT127160
1BA6	0000	2717	NUMBER	DC 0,A'7FFF'	PT127170
1BA8	7FFF				

		2718 *		PT127180
		2719 * *****		PT127190
		2720 *		PT127200
		2721 * TEST13		PT127210
		2722 *		PT127220
		2723 * THIS TEST CHECKS THE PRIVELEGED INSTRUCTIONS		PT127230
		2724 *		PT127240
		2725 *		PT127250
1BAA	C600 02B6	2726 TEST13 LHI R0,TEST1		PT127260
1BAE	4000 1F92	2727 STH R0,NXTST		PT127270
1BB2	C600 3144	2728 LHI R0,C'1D'		PT127280
1BB6	4000 1F58	2729 STH R0,TESTNO		PT127290
1BBA	C800 0110	2730 LHI R0,X'011D'		PT127300
1BBE	4000 1F90	2731 STH R0,ERRIND		PT127310
1BC2	4800 1F80	2732 LH R0,CPUNO		PT127320
1BC6	C500 3734	2733 CLHI R0,C'74'		PT127330
1BCA	2338	2734 BES ENTET		PT127340
1BCC	C500 3144	2735 CLHI R0,C'1D'		PT127350
1BD0	2338	2736 BES ENTET		PT127360
1BD2	C500 3136	2737 CLHI R0,C'16'		PT127370
1BD6	2335	2738 BES ENTET		PT127380
1BD8	C500 3744	2739 CLHI R0,C'7D'		PT127390
1BDC	2332	2740 BES ENTET		PT127400
1BDE	2303	2741 BS NOEXT		PT127410
1BE0	4300 1CA6	2742 ENTET B TSTEND		PT127420
1BE4	2410	2743 NOEXT LIS R1,0	R1 = 0	PT127430
1BE6	C840 1C90	2744 LHI R4,T13BYT		PT127440
	0000 1BEA	2745 T13 EQU *		PT127450
1BEA	D364 0000	2746 T13D LB R6,0(R4)		PT127460
1BEE	D260 1C10	2747 STB R6,T13PRV		PT127470
1BF2	2400	2748 LIS R0,0		PT127480
1BF4	4000 0030	2749 STH R0,X'30'		PT127490
1BF8	4000 0032	2750 STH R0,X'32'		PT127500
1BFC	4000 0034	2751 STH R0,X'34'		PT127510
1C00	C830 1C16	2752 LHI R3,T13INT		PT127520
1C04	4030 0036	2753 STH R3,X'36'		PT127530
1C08	C200 1C0C	2754 LPSW T13A		PT127540
1C0C	0100	2755 T13A DC X'100',T13B		PT127550
1C0E	1C10			
	0000 1C10	2756 T13B EQU *		PT127560
1C10	0000	2757 T13PRV DC 0		PT127570
1C12	4300 1E3C	2758 T13R1 B ERROR		PT127580
1C16	0811	2759 T13INT LHR R1,R1		IF R1=0,PRIV.INSTRINTRPT.
1C18	4250 1C72	2760 BNZ T13R3		PT127590 IF R1=1,SVC
1C1C	C830 0100	2761 LHI R3,X'100'		PT127600 OLD PSW
1C20	4530 0030	2762 CLH R3,X'30'		PT127610 IS OLD PSW = 100 ?
1C24	2138	2763 BNES T13R2		PT127620 IF NOT , ERROR
1C26	C830 1C10	2764 LHI R3,T13PRV		PT127630 OLD PSW LOCATION
1C2A	4530 0032	2765 CLH R3,X'32'		PT127640
1C2E	2133	2766 BNES T13R2		PT127650
1C30	9533	2767 EPSR R3,R3		PT127660
1C32	2337	2768 BZS T13F		PT127670
1C34	C800 021D	2769 T13R2 LHI R0,X'021D'		PT127680
1C38	4000 1F90	2770 STH R0,ERRIND		PT127690
1C3C	4300 1E3C	2771 B ERROR		PT127700
				PT127710

		2772	*		PT127720
		2773	*	PRIV. INST. DETECTED AND PSW SWAP OK	PT127730
		2774	*		PT127740
1C40	2641	2775	T13F	AIS R4,1 R4=ADD. OF NEXT PRIV. INSTR.	PT127750
1C42	C540 1CA6	2776		CLHI R4,T13LST+1	PT127760
1C46	4230 1BEA	2777		BNE T13	PT127770
		2778	*		PT127780
		2779	*	ALL PRIVILEGED INSTRUCTIONS TESTED	PT127790
		2780	*		PT127800
1C4A	C800 1E00	2781		LHI R0,ILGINT	PT127810
1C4E	4000 0036	2782		STH R0,X'36'	PT127820
1C52	2411	2783		LIS R1,1 R1 = 1	PT127830
1C54	C830 1C7E	2784	T13HB	LHI R3,T13SVC	PT127840
1C58	4030 009C	2785		STH R3,X'9C'	PT127850
1C5C	2403	2786		LIS R0,0	PT127860
1C5E	4000 0096	2787		STH R0,X'96'	PT127870
1C62	4000 009A	2788		STH R0,X'9A'	PT127880
1C66	C200 1C6A	2789		LPSW T13HC	PT127890
1C6A	0100	2790	T13HC	DC X'100',T13K	PT127900
1C6C	1C6E				
1C6E	E100 0004	2791	T13K	SVC 0,R4	PT127910
1C72	C800 031D	2792	T13R3	LHI R0,X'031D'	PT127920
1C76	4000 1F90	2793		STH R0,ERRIND	PT127930
1C7A	4300 1E3C	2794		B ERROR	PT127940
1C7E	C830 0100	2795	T13SVC	LHI R3,X'100'	PT127950
1C82	4530 0096	2796		CLH R3,X'96'	PT127960
1C86	203A	2797		BNES T13R3	PT127970
1C88	9533	2798		EPSR R3,R3	PT127980
1C8A	203C	2799		BNZS T13R3	PT127990
1C8C	4300 1CA6	2800	T13END	B TSTEND	PT128000
1C90	95	2801	T13BYT	DB X'95'	PT128010
1C91	96	2802		DB X'96'	PT128020
1C92	97	2803		DB X'97'	PT128030
1C93	98	2804		DB X'98'	PT128040
1C94	99	2805		DB X'99'	PT128050
1C95	9A	2806		DB X'9A'	PT128060
1C96	9B	2807		DB X'9B'	PT128070
1C97	9D	2808		DB X'9D'	PT128080
1C98	9E	2809		DB X'9E'	PT128090
1C99	9F	2810		DB X'9F'	PT128100
1C9A	C2	2811		DB X'C2'	PT128110
1C9B	D5	2812		DB X'D5'	PT128120
1C9C	D6	2813		DB X'D6'	PT128130
1C9D	D7	2814		DB X'D7'	PT128140
1C9E	D8	2815		DB X'D8'	PT128150
1C9F	D9	2816		DB X'D9'	PT128160
1CA0	DA	2817		DB X'DA'	PT128170
1CA1	DB	2818		DB X'DB'	PT128180
1CA2	DD	2819		DB X'DD'	PT128190
1CA3	DE	2820		DB X'DE'	PT128200
1CA4	DF	2821		DB X'DF'	PT128210
1CA5	E2	2822	T13LST	DB X'E2'	PT128220
1CA6		2823		DB *	PT128230
		2824	*		PT128240
		2825	*		PT128250

		2826	*****	*****	*****	*****	*****	*****	PT128260
		2827	*						PT128270
		2828	*	ALL THE TESTS IN PART 1 ARE DONE					PT128280
		2829	*						PT128290
1CA6	4800	1F7A	2830	TSTEND	LH R0,TOTAL				PT128300
1CAA	2601		2831		AIS R0,1				PT128310
1CAC	4000	1F7A	2832		STH R0,TOTAL				PT128320
1CB0	2431		2833		LIS R3,1				PT128330
1CH2	DE30	1F83	2834		OC R3,NORM				PT128340
1CB6	9400		2835		EXBR R0,R0				PT128350
1CB8	9830		2836		WHR R3,R0		TOTAL INTO CONSOLE IND.		PT128360
1CBA	9400		2837		EXBR R0,R0				PT128370
1CBC	C500	FFFF	2838		CLHI R0,X'FFFF'				PT128380
1CC0	4230	1CE4	2839		BNE NOTFF				PT128390
1CC4	D320	1F84	2840	AGTRY	LB R2,OUTDEV				PT128400
1CC8	9D25		2841		SSR R2,R5				PT128410
1CCA	2011		2842		BTBS 1,1				PT128420
1CCC	2042		2843		BTBS 4,2				PT128430
1CCE	C450	00FC	2844		NHI R5,X'FC'				PT128440
1CD2	C550	000C	2845		CLHI R5,X'0C'				PT128450
1CD6	2239		2846		BES AGTRY				PT128460
1CD8	41F0	1D4C	2847		BAL R15,TIM				PT128470
1CDC	4100	1D66	2848		BAL R13,PRTTOT				PT128480
1CE0	4300	0112	2849		B ENTRY1				PT128490
	0000	1CE4	2850	NOTFF	EQU *				PT128500
1CE4	D320	1F84	2851		LB R2,OUTDEV				PT128510
1CE8	9D25		2852		SSR R2,R5	R5 = TTY STATUS			PT128520
1CEA	2117		2853		BTFS 1,7				PT128530
1CEC	2146		2854		BTFS 4,6				PT128540
1CEE	C450	00FC	2855		NHI R5,X'FC'				PT128550
1CF2	C550	000C	2856		CLHI R5,X'0C'				PT128560
1CF6	2136		2857		BNES DONE				PT128570
1CF8	2451		2858	DONE0	LIS R5,1				PT128580
1CFA	4050	1F7E	2859		STH R5,TTYOFF	TTYOFF = 1 AND			PT128590
1CFE	4300	02B8	2860		B TEST1				PT128600
	0000	1D02	2861	DONE	EQU *				PT128610
1D02	4500	010E	2862		CLH R0,NTIMES				PT128620
1D06	4280	0296	2863		BL ENTRY3				PT128630
1D0A	4800	1F7E	2864		LH R0,TTYOFF				PT128640
1D0E	2333		2865		BZS DONE11				PT128650
1D10	41F0	1D4C	2866		BAL R15,TIM				PT128660
	0000	1D14	2867	DONE11	EQU *				PT128670
1D14	4800	1F7C	2868		LH R0,TOTERR				PT128680
1D18	4230	1D38	2869		BNZ DONE3				PT128690
1D1C	2440		2870		LIS R4,0				PT128700
1D1E	C850	1F69	2871		LHI R5,NOERRB				PT128710
1D22	DE20	1F86	2872		OC R2,OUTCMD				PT128720
1D26	9D23		2873	DONE12	SSR R2,R3				PT128730
1D26	2081		2874		BTBS 8,1				PT128740
1D2A	DA24	1F5C	2875	DONE2	WD R2,NOERRA(R4)				PT128750
1D2E	C554	1F5C	2876		CLHI R5,NOERRA(R4)				PT128760
1D32	2333		2877		BES DONE3				PT128770
1D34	2641		2878		AIS R4,1				PT128780
1D36	2208		2879		BS DONE12				PT128790
	0000	1D38	2880	DONE3	EQU *				PT128800

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1D38	4800 1F7E	2881	LH	R0,TTYOFF	PT128810	
1D3C	4330 0112	2882	BZ	ENTRY1	PT128820	
1D40	41F0 1D4C	2883	BAL	R15,TIM	PT128830	
1D44	41D0 1D66	2884	BAL	R13,PRTTOT	PT128840	
1D48	4300 1DB2	2885	TOWT	B WT000F	PT128850	
	0000 1D4C	2886	TIM	EQU *	PT128860	
1D4C	C600 FFFF	2887	LHI	R0,X'FFFF'	PT128870	
1D50	27C1	2888	TIME	SIS R0,1	PT128880	
1D52	4200 0000	2889	NOP		PT128890	
1D56	2033	2890	BNZS	TIME	PT128900	
1D58	C800 FFFF	2891	LHI	R0,X'FFFF'	PT128910	
1D5C	2701	2892	TIME2	SIS R0,1	PT128920	
1D5E	4200 0000	2893	NOP		PT128930	
1D62	2033	2894	BNZS	TIME2	PT128940	
1D64	030F	2895	BR	R15	PT128950	
1D66	C800 00FF	2896	PRTTOT	LHI R0,X'FF'	PT128960	
1D6A	41E0 1DEA	2897	BAL	R14,WRITE1	PT128970	
1D6E	41E0 1DEA	2898	BAL	R14,WRITE1	PT128980	
1D72	41E0 1DEA	2899	BAL	R14,WRITE1	PT128990	
1D76	240A	2900	LIS	R0,10	PT129000	
1D78	41E0 1DEA	2901	BAL	R14,WRITE1	PT129010	
1D7C	48F0 1F7A	2902	LH	R15,TOTAL	PRINT TOTAL	PT129020
1D80	41C0 1DBA	2903	BAL	R12,PRNTRF	PT129030	
1D84	C800 0020	2904	LHI	R0,X'20'	PT129040	
1D88	41E0 1DEA	2905	BAL	R14,WRITE1	PT129050	
1D8C	41E0 1DEA	2906	BAL	R14,WRITE1	PT129060	
1D90	41E0 1DEA	2907	BAL	R14,WRITE1	PT129070	
1D94	41E0 1DEA	2908	BAL	R14,WRITE1	PT129080	
1D98	48F0 1F7C	2909	LH	R15,TOTERR	PRINT TOTERR	PT129090
1D9C	41C0 1DBA	2910	BAL	R12,PRNTRF	PT129100	
1DA0	240D	2911	LIS	R0,13	PT129110	
1DA2	41E0 1DEA	2912	BAL	R14,WRITE1	PT129120	
1DA6	41E0 1DEA	2913	BAL	R14,WRITE1	PT129130	
1DAA	240A	2914	LIS	R0,10	PT129140	
1DAC	41E0 1DEA	2915	BAL	R14,WRITE1	PT129150	
1DB0	030D	2916	BR	R13	PT129160	
	0000 1DB2	2917	WT000F	EQU *	PT129170	
1DB2	4300 0112	2918	B	ENTRY1	NO OP THIS BRANCH TO BYPASS	PT129180
1DB6	4300 0296	2919	B	ENTRY3	INITIAL SET UP	PT129190
		2920	*			PT129200
		2921	*	PRINT THE CONTENTS OF REG. 15 IN HEX.		PT129210
		2922	*			PT129220
		2923	*	EXIT ON R12		PT129230
		2924	*			PT129240
		2925	PRNTRF	LHR R0,R15		PT129250
		2926	SRLS	R0,12		PT129260
		2927	BAL	R14,PRNTR0		PT129270
		2928	LHR	R0,R15		PT129280
		2929	SRLS	R0,8		PT129290
		2930	BAL	R14,PRNTK0		PT129300
		2931	LHR	R0,R15		PT129310
		2932	SRLS	R0,4		PT129320
		2933	BAL	R14,PRNTR0		PT129330
		2934	LHR	R0,R15		PT129340
		2935	BAL	R14,PRNTR0		PT129350

1DD8	030C	2936	BR	R12	PT129360	
1DDA	C400 000F	2937	PRNTR0	NHI R0,15	PT129370	
1DDE	CA00 0030	2938	AHI	R0,X'30'	PT129380	
1DE2	C500 003A	2939	CLHI	R0,X'3A'	PT129390	
1DE6	2182	2940	BLS	WRITE1	PT129400	
1DE8	2607	2941	AIS	R0,7	PT129410	
1DEA	D320 1F84	2942	WRITE1	LB R2,OUTDEV	PT129420	
1DEE	DE20 1F86	2943	OC	R2,OUTCMD	PT129430	
1DF2	9U23	2944	WRIT	SSR R2,R3	PT129440	
1UF4	021E	2945	BTCR	1,R14	PT129450	
1DF6	2082	2946	BTBS	8,2	PT129460	
1DF8	9A20	2947	WDR	R2,R0	PT129470	
1DFA	030E	2948	BR	R14	PT129480	
		2949	*		PT129490	
		2950	*****	*****	PT129500	
		2951	*		PT129510	
		2952	*	AN INTERRUPT IS DETECTED	PT129520	
		2953	*		PT129530	
1UFC	24F1	2954	FLPTNT	LIS R15,1	FLPT ARITH. FAULT INTRPT.	PT129540
1DFE	2309	2955	BS	ERRF	PT129550	
1E00	24F2	2956	ILGINT	LIS R15,2	ILL. INSTR. INTRPT.	PT129560
1E02	2307	2957	BS	ERRF	PT129570	
1E04	24F3	2958	MALFTN	LIS R15,3	MACH. MALFTN. INTRPT.	PT129580
1E06	2305	2959	BS	ERRF	PT129590	
1E08	24F4	2960	EXTINT	LIS R15,4	EXTERNAL INTERRUPT	PT129600
1E0A	9FA8	2961	AIR	R10,R11	PT129610	
1E0C	2302	2962	BS	ERRF	PT129620	
1E0E	24F5	2963	DVDFLT	LIS R15,5	FIXD. PT. DIV. FAULT INTRPT	PT129630
1E10	2309	2964	ERRF	BS ERRORF	PT129640	
1E12	24F6	2965	CHANIO	LIS R15,6	CHAN. I/O TERM. INTRPT.	PT129650
1E14	2307	2966	BS	ERRORF	PT129660	
1E16	24F7	2967	QVRFLO	LIS R15,7	QUEUE OVERFLO INTRPT.	PT129670
1E18	2305	2968	BS	ERRORF	PT129680	
1E1A	24F8	2969	SVCERR	LIS R15,8	PT129690	
1E1C	23J3	2970	BS	ERRORF	PT129700	
1E1E	0000	2971	DEVERR	DC 0	PT129710	
1E20	24F9	2972	LIS	R15,9	PT129720	
1E22	C6F0 00F0	2973	ERRORF	OHI R15,X'F0'	PT129730	
1E26	D2F0 1F90	2974	STB	R15,ERRIND	PT129740	
1E2A	2431	2975	LIS	R3,1	PT129750	
1E2C	D830 1F90	2976	WH	R3,ERRIND	PT129760	
1E30	C200 1E34	2977	LPSW	WAITFF2	PT129770	
1E34	8000	2978	WAITFF2	DC X'8000',ERFSS	PT129780	
1E36	1E38	2979	*		PT129790	
1E38	4300 1E3C	2980	ERFSS	B ERROR	PT129800	
		2981	*		PT129810	
		2982	*	NXTST = RETURN ADD. IF TTY IS TURNED OFF	PT129820	
		2983	*		PT129830	
		2984	*	R14 = PSW WHEN THE ERROR OCCURED	PT129840	
		2985	*	ERRIND = ERROR NO. INTO IND.	PT129850	
		2986	*		PT129860	
		2987	*		PT129870	
		2988	*	TESTNO = 31NN , NN = TEST NO. 1 THRU E	PT129880	
		2989	*		PT129890	

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0000 1E3C	2990	ERROR	EQU *		PT129900
1E3C D000 1FBE	2991	ERRA	STM R0,REGSAV	SAVE REGISTERS	PT129910
1E40 95EE	2992		EPSR R14,R14	STORE CURRENT PSW	PT129920
1E42 2431	2993		LIS R3,1	R3 = 1 = CONSOLE ADDRESS	PT129930
1E44 D830 1F90	2994		WH R3,ERRIND	ERRNO. INTO CONSOLE IND.	PT129940
1E48 D300 1F90	2995	ERRA6	LB R0,ERRIND	CONVERT ERRIND INTO	PT129950
1E4C C850 0030	2996		LHI R5,X'30'		PT129960
1E50 C500 0010	2997		CLHI R0,16	TWO BYTES TO PRINT	PT129970
1E54 2383	2998		BNLS ERRB		PT129980
1E56 0805	2999		LHR R0,R5		PT129990
1E58 2307	3000		BS ERPB2		PT130000
1E5A 9004	3001	ERRB	SRLS R0,4		PT130010
1E5C 0A05	3002		AHR R0,R5		PT130020
1E5E C500 003A	3003		CLHI R0,X'3A'		PT130030
1E62 2182	3004		BLS ERRB2		PT130040
1E64 2607	3005		AIS R0,7		PT130050
	3006 *				PT130060
	3007 *		ERRNO = 2 BYTES TO PRINT		PT130070
	3008 *				PT130080
1E66 D200 1F5A	3009	ERRB2	STB R0,ERRNO		PT130090
1E6A D300 1F90	3010		LB R0,ERRIND		PT130100
1E6E C400 000F	3011	ERRB4	NHI R0,15		PT130110
1E72 0A05	3012		AHR R0,R5		PT130120
1E74 C500 003A	3013		CLHI R0,X'3A'		PT130130
1E78 2182	3014		BLS ERRB6		PT130140
1E7A 2607	3015		AIS R0,7		PT130150
1E7C D200 1F5B	3016	ERRB6	STB R0,ERRNO+1		PT130160
0000 1E80	3017	ERROF	EQU *		PT130170
1E80 4600 1F7C	3018		LH R0,TOTERR	COUNT TOTAL ERRORS	PT130180
1E84 2601	3019		AIS R0,1		PT130190
1E86 4000 1F7C	3020		STH R0,TOTERR		PT130200
1E8A C500 FFFF	3021		CLHI R0,X'FFFF'	IF TOTERR = FFFF	PT130210
1E8E 4330 1EB0	3022		BE WTFFFF		PT130220
1E92 D320 1F84	3023		LB R2,OUTDEV		PT130230
1E96 9D23	3024		SSR R2,R3		PT130240
1E98 4250 1EAA	3025		BTC S,NEXT		PT130250
1E9C C430 00FC	3026		NHI R3,X'FC'		PT130260
1EA0 C530 000C	3027		CLHI R3,X'0C'		PT130270
1EA4 2333	3028		BES NEXT		PT130280
1EA6 4300 1EE4	3029		R PRTRR		PT130290
1EAA 4800 1F92	3030	NEXT	LH R0,NXTST	IF TTY IS OFF GO TO NEXT TEST	PT130300
1EAE 0300	3031		BR R0	CONTINUE THE NEXT TEST	PT130310
1EB0 2431	3032	WTFFFF	LIS R3,1	FFFF INTO CO-S-LE &ND.	PT130320
1EB2 9830	3033		WHR R3,R0		PT130330
1EB4 C200 1EB8	3034		LPSW WAITFF		PT130340
1EB8 8000	3035	WAITFF	DC X'8000',CONT	WAIT UNTIL EXE IS DEPRESSED	PT130350
1EBA 1EBC					
1EBC D320 1F84	3036	CONT	LB R2,OUTDEV		PT130360
1EC0 DE20 1F86	3037		OC R2,OUTCMD		PT130370
1EC4 9D25	3038		SSR R2,R5		PT130380
1EC6 4210 1EB0	3039		BTC 1,WTFFFF		PT130390
1ECA C450 00FC	3040		NHI R5,X'FC'		PT130400
1ECE C550 000C	3041		CLHI R5,X'0C'		PT130410
1ED2 4330 1EB0	3042		BE WTFFFF		PT130420
1ED6 C840 1F3C	3043		LHI R4,FFFF		PT130430

1EDA	C850 1F4D	3044	LHI	R5,FFFFRR	PT130440
1EDE	9624	3045	WBR	R2,R4	PT130450
1EE0	4300 1DB2	3046	B	WT000F	PT130460
1EE4	C840 1F4E	3047	PTRR	LHI R4,PRTER	PT130470
		3048	*		PT130480
	0000 1EE8	3049	PRTR	EQU *	PT130490
		3050	*		PT130500
1EE8	D320 1F84	3051	LB	R2,OUTDEV	PT130510
1EEC	D220 1F80	3052	OC	R2,OUTCMD	PT130520
1EF0	9023	3053	PRTBSY	SSR R2,R3	PT130530
1EF2	2081	3054	BTBS	8,1	PT130540
1EF4	DA24 0000	3055	WD	R2,0(R4)	PT130550
1EF8	2641	3056	AIS	R4,1	PT130560
1EFA	C540 1F5E	3057	CLHI	R4,ERRNO+4	PT130570
1EEF	2037	3058	BNES	PRTBSY	PT130580
1F00	D300 1F59	3059	LB	R0,TESTNO+1	PT130590
1F04	C500 0038	3060	CLHI	R0,C'8'	IF IT IS TEST 12
1F08	2335	3061	BES	TST812	BRANCH TO TST812
1F0A	C500 0043	3062	CLHI	R0,C'C'	IF IT IS NOT TEST12
1F0E	4230 1F36	3063	BNE	PRTEND	BRANCH TO PRTEND
1F12	C870 1FC6	3064	TST812	LHI R7,REGSAV+8	GET THE POINTER TO REG SAVE AREA
1F16	4887 0000	3065	LH	R8,0(R7)	NUMBER OF REGISTERS TO BE PRINTED
1F1A	C580 0000	3066	CLHI	R8,0	CHECK IF ZERO REGISTERS TO PRINT
1F1E	233C	3067	BES	PRTEND	PT130660
1F2U	2672	3068	LOOPXX	AIS R7,2	PT130670
1F22	46F7 0000	3069	LH	R15,0(R7)	INCREMENT THE POINTER
1F26	41C0 1DBA	3070	BAL	R12,PRNTRF	GET THE REGISTER CONTENTS
1F2A	C800 0020	3071	LHI	R0,X'20'	PRINT THE CONTENTS
1F2E	41E0 1DEA	3072	BAL	R14,WRITE1	PT130700
1F32	2781	3073	SIS	R8,1	PT130710
1F34	203A	3074	BNZS	LOOPXX	PRINT A BLANK
1F36	2404	3075	PRTEND	LIS R0,4	PT130720
1F38	4300 1D38	3076	B	DONE3	PT130730
		3077	*		PT130740
1F3C	000A	3078	FFFF	DC X'D0A'	PT130750
1F3E	4646 4646 2045 5252	3079	DC	C'FFFF ERRORS'	PT130760
1F46	4F52 5320				PT130770
1F4A	000A	3080	DC	X'D0A'	PT130780
1F4C	FFFF	3081	DCX	FFFF	PT130790
	0000 1F4D	3082	FFFFRR	EQU **-1	PT130800
1F4E	CD0A	3083	PRTER	DC X'D0A'	PT130810
1F50	4552 524F 5220	3084	DC	C'ERROR '	PT130820
1F56	2000	3085	DC	X'2000'	PT130830
1F58	3130	3086	TESTNO	DC X'3130'	PT130840
1F5A	3030	3087	ERRNO	DC X'3030'	PT130850
1F5C	000A	3088	NOERRA	DC X'D0A'	PT130860
1F5E	4E4F 2045 5252 4F52	3089	DC	C'NO ERROR'	PT130870
1F66	000A	3090	DC	X'D0A'	PT130880
1F68	FFFF	3091	DCX	FFFF	PT130890
	0000 1F69	3092	NOERRB	EQU **-1	PT130900
		3093	*		PT130910
		3094	*		PT130920
		3095	*****	*****	PT130930
		3096	*		PT130940
		3097	*	DATA CONSTANTS	PT130950
					PT130960
					PT130970

		3098	*	PT130980	
		3099	*****	PT130990	
		3100	*	PT131000	
1F6A	0000	3101	DC 0	PT131010	
1F6C	0000	3102	TABLE DC 0	PT131020	
1F6E	0000	3103	DC 0	PT131030	
1F70	0000	3104	DC 0	PT131040	
1F72	0000	3105	DC 0	PT131050	
1F74	0000	3106	DC 0	PT131060	
1F76	0000	3107	DC 0	PT131070	
1F78	0000	3108	TEMP DC 0	PT131080	
1F7A	0000	3109	TOTAL DC 0	PT131090	
1F7C	0000	3110	TOTERR DC 0	PT131100	
1F7E	0000	3111	TTYOFF DC 0	PT131110	
1F80	0000	3112	CPUNO DC 0	PT131120	
1F82	00	3113	M7DSWT DB 0	PT131130	
1F83	80	3114	NORM DB X'80'	PT131140	
		3115	*	PT131150	
		3116	*****	PT131160	
		3117	*	PT131170	
1F84	02	3118	OUTDEV DB 2	OUTDEV = 2 = TTY ADDRESS	PT131180
1F85	A4	3119	INCMND DB X'A4'	READ COMMAND FOR TTY	PT131190
1F86	A8	3120	OUTCMD DB X'A8'		PT131200
1F87	00	3121	DB *		PT131210
1F88	ABB9	3122	CRTOUT DCX ABB9		PT131220
1F8A	C8E4	3123	CONOUT DCX C8E4		PT131230
1F8C	0000	3124	CRTFLG DCX 0		PT131240
1F8E	0000	3125	FIRSTCHD DCX 0		PT131250
1F90	0000	3126	ERRIND DC 0	COPY ERRNO INTO CONSOLE IND.	PT131260
1F92	0000	3127	NXTST DC 0		PT131270
		3128	*		PT131280
1F94	0000	3129	ZERO DC 0		PT131290
1F96	0000	3130	DC 0		PT131300
1F98	FFFF	3131	ONE DC X'FFFF'		PT131310
1F9A	0000	3132	DC 0		PT131320
1F9C	5555	3133	FIVE DC X'5555'		PT131330
1F9E	0000	3134	DC 0		PT131340
1FA0	AAAA	3135	TEN DC X'AAAA'		PT131350
1FA2	0000	3136	DC 0		PT131360
		3137	*		PT131370
1FA4	00	3138	TITLE1 DB 13	CR	PT131380
1FA5	0A	3139	DB 10	LF	PT131390
1FA6	5331 3650 5431 5230	3140	DC C'S16PT1R08'		PT131400
1FAE	3820				
1FB0	0D0A	3141	DCX 0D0A		PT131410
1FB2	FFFF	3142	DCX FFFF		PT131420
1FB4	4350 5520	3143	DC C'CPU'		PT131430
1FB8	0D0A	3144	DCX 0D0A		PT131440
1FBA	2AFF	3145	DC X'2AFF'		PT131450
1FBC	FFFF	3146	DCX FFFF		PT131460
	0000 1FB0	3147	TITEND EQU *-1		PT131470
	0000 1FB0	3148	LNZB EQU *-1		PT131480
1FBE		3149	REGSAV DS 32		PT131490
		3150	*	CHKSUM	PT131500
		3151	*	(THE FOLLOWING CODE IS NOT PART OF THE TEST.)	PT131510

		3152	*		PT131520	
		3153	*		PT131530	
1FDE	2400	3154	\$CHKSUM	LIS R0,0	PUNCH M17 TAPE WITH CHECKSUM	PT131540
1FE0	9510	3155		EPSR R1,R0	SELECT REG. SET 0	PT131550
		3156	*			PT131560
1FE2	C810 0100	3157		LDAI R1,ORIGIN1	START	PT131570
1FE6	2421	3158		LIS R2,1	INCREMENT	PT131580
1FE8	C830 1FB0	3159		LDAI R3,LNZB	FINAL	PT131590
1FEC	2440	3160		LIS R4,0	CHECKSUM BYTE	PT131600
1FEE	D351 0000	3161	\$GEN	LB R5,0(R1)		PT131610
1FF2	0745	3162		XAR R4,R5		PT131620
1FF4	C110 1FEE	3163		BXLE R1,\$GEN		PT131630
1FF8	D240 0097	3164		STB R4,MN+3	CHECKSUM BYTE TO ROOT LOADER	PT131640
		3165	*			PT131650
1FFC	C810 0080	3166	\$TAPE	LHI R1,X'0080'		PT131660
2000	9E21	3167		OCR R2,R1	DISPLAY : NORMAL MODE	PT131670
2002	9444	3168		EXBR R4,R4		PT131680
2004	9824	3169		WHR R2,R4	CHECKSUM BYTE TO D1	PT131690
2006	9411	3170		EXBR R1,R1		PT131700
2008	9501	3171		EPSR R0,R1	HALT PROCESSOR.	PT131710
200A	D360 007A	3173	\$PUNCH	LB R6,X'7A'	GET BOUTDV (PUNCH) ADDRESS.	PT131730
200E	DE60 007B	3174		OC R6,X'7B'	START TAPE PUNCH	PT131740
2012	9060	3175		SSR R6,R0		PT131750
2014	2081	3176		BTBS 8,1		PT131760
2016	41F0 2058	3177		BAL R15,\$TAPL	PUNCH LEADER	PT131770
201A	9411	3178		EXBR R1,R1	(R1) = X'0080'	PT131780
201C	C830 00CF	3179		LHI R3,X'CF'		PT131790
2020	DA61 0000	3180	\$PNCH1	WD R6,0(R1)	PUNCH BOOT LOADER	PT131800
2024	9D60	3181		SSR R6,R0		PT131810
2026	2081	3182		BTBS 8,1		PT131820
2028	C110 2020	3183		BXLE R1,\$PNCH1		PT131830
202C	41F0 205E	3184		BAL R15,\$TAPL1	PUNCH ONE-FOLD GAP.	PT131840
		3185	*			PT131850
2030	D340 0097	3186		LB R4,MN+3	GET CHECKSUM BYTE	PT131860
2034	C810 0100	3187		LDAI R1,ORIGIN1	(NORMALLY X'A00')	PT131870
2038	C830 1F50	3188		LDAI R3,LNZB		PT131880
203C	D351 0000	3189	\$PNCH2	LB R5,0(R1)	PUNCH PROGRAM	PT131890
2040	0745	3190		XAR R4,R5		PT131900
2042	9A65	3191		WDR R6,R5		PT131910
2044	9401	3192		EXBR R0,R1		PT131920
2046	9820	3193		WHR R2,R0	DATA ADDRESS TO DISPLAY.	PT131930
2048	9D60	3194		SSR R6,R0		PT131940
204A	2081	3195		BTBS 8,1		PT131950
204C	C110 203C	3196		BXLE R1,\$PNCH2		PT131960
2050	41F0 2058	3197		BAL R15,\$TAPL	PUNCH TRAILER.	PT131970
2054	4300 1FFC	3198		B \$TAPE	DISPLAY CHECKSUM, HALT PROCESSOR.	PT131980
2058	C800 0100	3200	\$TAPL	LHI R0,256	TO PUNCH BLANK LEADER	PT132000
205C	2303	3201		BS \$TAPLP		PT132010
205E	C800 0055	3202	\$TAPL1	LHI R0,85	TO PUNCH 1-FOLD GAP	PT132020
2062	2701	3203	\$TAPLP	SIS R0,1		PT132030
2064	032F	3204		BNPR R15	RETURN	PT132040

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PART1

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2066	2430	3205	LIS	R3,0	PT132050
2068	9A63	3206	WDR	R6,R3	PT132060
206A	9D68	3207	SSR	R6,R8	PT132070
206C	2081	3208	BTBS	8,1	PT132080
206E	2206	3209	BS	\$TAPLP	PT132090
		3210 *			PT132100
	2070	3211	END		PT132110

PUNCH BLANK FRAME

CONTINUE.

ASSEMBLED BY CAL 03-066R05-00 (32-BIT)

START OPTIONS: SCR,CRO,T=16

NO CAL ERRORS
NO CAL WARNINGS
2 PASSES

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ERROR1	0000 1A1A	2585	2587	2589	2591	2608*
ERRCRF	0000 1E22	2964	2966	2968	2970	2973*
EXBR	0000 0DD2	1410*				
EXTINT	0000 1E08	101	2131	2960*		
FFFF	0000 1F3C	3043	3078*			
FFFFRR	0000 1F4D	3044	3082*			
FIRSTCMD	0000 1F8E	115	120	128	3125*	
FIVE	0000 1F9C	466	480	485	497	
FLPTNT	0000 1DFC	95	2954*			
IDFLAG	0000 1BA0	2590	2593	2618	2626	2714*
ILGINT	0000 1E00	97	2133	2781	2956*	
ILLEGAL	0000 14A8	2063	2065	2066*	2073	
IMPTOP	0000 000R					
INCMNU	0000 1F85	125	134	162	167	3119*
ININC1	0000 1226	1596	1620	1813*		
ININC2	0000 1228	1594	1619	1814*		
INITM	0000 1236	1469	1476	1821*		
IO	0000 0104	74*	116	121		
IO2	0000 01CA	131	139*			
IGTEST	0000 017C	116*				
LAUC	0000 0001					
LB	0000 0CFE	1334*				
LBR	0000 00B4	1397*				
LCS	0000 0570	517*				
LDWT	0000 00C6	67*	70			
LEADER	0000 00A0	51*	55			
LH	0000 04C6	450*				
LHI	0000 054A	501*				
LHR	0000 04AE	437*				
LIS	0000 0554	506*				
LM	0000 05F0	578*				
LNZB	0000 1FB0	47	3148*	3159	3188	
LOAD	0000 00AA	56*	64			
LOOP1	0000 0FB8	1594*	1603	1606		
LOOP2	0000 0FEC	1615*	1622	1624		
LOOP85	0000 0E5E	1472*	1475	1480		
LOOPXX	0000 1F20	3068*	3074			
LPSW	0000 02D0	234*				
M5001	0000 0114	86*				
M5002	0000 0130	93*				
M5003	0000 024A	184*				
M5004	0000 0A02	1129*				
M5005	0000 1310	1905*				
M5006	0000 14B6	2071*				
M7DSWT	0000 1F82	3113*				
MALFTN	0000 1E04	99	2958*			
MCHK2	0000 185C	2445*				
MH	0000 1882	2457*				
MHR	0000 1936	2516*				
MHU	0000 1960	2531*				
MHUR	0000 196E	2537*				
MINUSM	0000 122A	1729	1730	1732	1815*	
MLOOP1	0000 1862	2447*	2543			
MMNNMC	0000 1234	1820*				
MMNNNC	0000 1232	1758	1767	1788	1819*	

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		98	99	100	101	102	103	104	105	106	107	108	109	110
		114	115	116	117	119	120	121	122	153	159	170	171	176
		177	178	180	182	184	186	188	190	192	194	197	198	199
		201	204	205	206	207	209	210	228	229	230	231	232	233
		250	251	272	273	353	354	409	410	426	427	428	429	430
		431	435	438	443	477	554	555	556	557	558	559	561	565
		572	576	577	579	580	580	582	584	588	588	608	608	610
		612	614	616	618	621	622	624	626	627	629	630	632	633
		635	636	639	640	642	643	645	646	649	650	651	653	655
		657	659	721	722	723	724	725	726	728	733	736	738	741
		743	745	748	751	753	755	755	757	760	763	766	768	771
		774	776	778	780	780	783	785	787	789	791	793	800	802
		804	806	806	817	819	824	829	837	854	857	866	868	884
		885	887	890	894	899	904	911	915	919	936	940	944	949
		962	963	964	965	966	967	970	973	981	998	1023	1024	1027
		1032	1037	1054	1059	1083	1084	1100	1101	1102	1103	1104	1105	1107
		1109	1111	1112	1114	1114	1116	1119	1122	1126	1128	1135	1136	1199
		1200	1239	1240	1285	1286	1287	1288	1290	1290	1320	1321	1322	1323
		1324	1325	1327	1328	1329	1330	1331	1332	1333	1360	1363	1376	1399
		1442	1443	1444	1445	1446	1447	1450	1450	1455	1459	1459	1464	1483
		1483	1487	1490	1490	1548	1555	1555	1563	1584	1584	1599	1611	1618
		1629	1629	1634	1640	1641	1641	1670	1672	1677	1685	1692	1694	1699
		1750	1754	1754	1766	1770	1770	1786	1791	1799	1801	1802	1832	1833
		1834	1835	1836	1837	1847	1848	1849	1850	1851	1855	1856	1857	1858
		1861	1863	1866	1867	1908	1909	1930	1931	1932	1933	1934	1935	1959
		1960	1967	1974	1977	1982	1983	1999	2000	2013	2019	2023	2024	2030
		2031	2032	2033	2034	2035	2036	2067	2070	2071	2078	2079	2131	2132
		2133	2134	2144	2145	2146	2147	2148	2149	2230	2231	2267	2268	2352
		2353	2434	2435	2436	2437	2438	2439	2440	2441	2458	2463	2476	2482
		2498	2504	2517	2523	2532	2538	2557	2561	2564	2568	2578	2586	2599
		2615	2619	2621	2622	2632	2635	2726	2727	2728	2729	2730	2731	2732
		2733	2735	2737	2739	2748	2749	2750	2751	2769	2770	2781	2782	2786
		2787	2788	2792	2793	2830	2831	2832	2835	2835	2836	2837	2837	2838
		2862	2864	2868	2881	2887	2888	2891	2892	2896	2900	2904	2911	2914
		2925	2926	2928	2929	2931	2932	2934	2937	2938	2939	2941	2947	2991
		2995	2997	2999	3001	3002	3003	3005	3009	3010	3011	3012	3013	3015
		3016	3018	3019	3020	3021	3030	3031	3033	3059	3060	3062	3071	3075
	R1	0000 0001	3154	3155	3171	3175	3181	3192	3193	3194	3200	3202	3203	
			23*	46	56	57	59	64	124	125	126	128	133	134
			136	137	140	174	175	177	438	440	562	566	630	972
			997	1033	1039	1039	1048	1056	1057	1057	1065	1071	1109	1110
			1116	1118	1120	1120	1122	1125	1126	1131	1131	1133	1133	1331
			1333	1344	1341	1365	1398	1451	1451	1456	1460	1460	1465	1469
			1476	1531	1538	1585	1585	1598	1609	1616	1627	1627	1635	1643
			1659	1662	1663	1666	1667	1671	1672	1681	1682	1686	1689	1703
			1724	1726	1730	1735	1739	1742	1746	1749	1760	1779	1784	1792
			1852	1857	1859	1870	1902	1912	1913	1937	1946	1947	1948	1949
			1951	1952	1986	1987	1992	2039	2040	2040	2054	2055	2063	2455
			2474	2480	2496	2502	2514	2521	2529	2535	2558	2565	2580	2588
			2611	2633	2634	2743	2759	2759	2783	3155	3157	3161	3163	3167
			3170	3170	3171	3178	3178	3180	3183	3187	3189	3192	3196	
	R10	0000 0004	32*	456	457	460	463	468	485	488	497	498	502	503
			738	748	776	1306	1307	1309	1333	1337	1342	1350	1453	1473
			1478	1782	1888	2027	2037	2037	2042	2459	2464	2477	2478	2483
			2499	2500	2505	2506	2518	2519	2524	2525	2533	2539	2555	2564

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R11	0000 000B	2582	2600	2609	2612	2637	2961	1384	1388	1391	1398	1402	1783	1890	2029
		33*	523	527	1380	1381	1384	1388	1391	1398	1402	1783	1890	2029	
R12	0000 000C	2047	2047	2049	2059	2558	2565	2597	2616	2617	2961				
		34*	525	529	1385	1389	1393	1399	1405	1470	1474	1477	1482	1482	
		1499	1508	1521	1526	1530	1540	1554	1569	1578	1640	1656	1661	1680	
		1684	1702	1707	1715	1797	1892	2456	2456	2462	2462	2475	2475	2481	
		2481	2497	2497	2503	2503	2515	2515	2522	2522	2530	2530	2536	2536	
R13	0000 000D	2561	2576	2596	2598	2610	2613	2903	2910	2936	3070				
		35*	511	514	1386	1390	1395	1400	1407	1600	1605	1750	1766	1839	
		1841	1868	1871	1873	1875	1877	1879	1881	1883	1885	1887	1889	1891	
		1893	1894	1895	1897	1899	1903	1906	1910	1911	2586	2595	2612	2614	
R14	0000 000E	2848	2884	2916											
		36*	154	195	200	202	518	521	599	616	640	1471	1479	1601	
		1602	1713	1713	1714	1715	1796	2575	2575	2576	2588	2595	2596	2617	
		2618	2630	2636	2897	2898	2899	2901	2905	2906	2907	2908	2912	2913	
R15	0000 000F	2915	2927	2930	2933	2935	2945	2948	2992	2992	3072				
		37*	474	475	494	495	521	582	597	614	636	731	736	741	
		745	766	771	789	793	815	835	841	846	851	853	857	862	
		863	868	872	909	923	925	928	934	946	1898	2590	2847	2866	
		2883	2895	2902	2909	2925	2928	2931	2934	2954	2956	2958	2960	2963	
R2	0000 0002	2965	2967	2969	2972	2973	2974	3069	3177	3184	3197	3204			
		24*	41	45	60	66	127	138	141	142	143	144	149	161	
		162	163	167	168	170	172	174	212	213	440	441	563	567	
		574	633	977	978	1047	1048	1362	1367	1400	1452	1452	1457	1461	
		1461	1466	1478	1571	1575	1586	1586	1597	1607	1615	1625	1625	1636	
		1646	1658	1659	1669	1675	1687	1689	1699	1704	1708	1725	1785	1793	
		1872	2466	2466	2467	2472	2473	2490	2490	2491	2494	2495	2508	2508	
		2509	2512	2513	2547	2547	2548	2551	2552	2554	2571	2629	2629	2636	
		2840	2841	2851	2852	2872	2873	2875	2942	2943	2944	2947	3023	3024	
R3	0000 0003	3036	3037	3038	3045	3051	3052	3053	3055	3158	3167	3169	3193		
		25*	47	129	130	144	146	147	149	163	168	172	441	442	
		445	447	454	471	743	975	978	1050	1051	1292	1293	1297	1484	
		1493	1509	1512	1541	1552	1556	1565	1587	1587	1596	1598	1605	1616	
		1620	1623	1623	1637	1648	1648	1688	1697	1726	1727	1728	1729	1735	
		1736	1737	1742	1743	1744	1778	1840	1841	1842	1843	1852	1853	1854	
		1856	1874	1911	1939	1940	1944	1945	1953	1954	1968	1969	1971	1972	
		1974	1975	1984	1985	1990	1991	2073	2074	2076	2076	2447	2451	2455	
		2496	2529	2538	2549	2550	2552	2556	2563	2603	2606	2620	2621	2752	
		2753	2761	2762	2764	2765	2767	2767	2784	2785	2795	2796	2798	2798	
		2833	2834	2836	2873	2944	2975	2976	2994	3024	3026	3027	3032		
R4	0000 0004	3033	3053	3159	3179	3188	3205	3206							
		26*	49	50	51	53	61	63	152	153	155	156	442	443	
		483	491	601	605	817	819	822	824	827	829	832	837	848	
		851	863	920	923	926	928	931	934	936	938	940	940	982	
		985	988	989	1012	1015	1018	1020	1051	1063	1066	1074	1127	1128	
		1129	1181	1182	1184	1186	1188	1190	1192	1194	1197	1197	1201	1202	
		1204	1206	1208	1211	1214	1216	1218	1449	1510	1515	1522	1523	1532	
		1535	1570	1572	1588	1588	1594	1597	1602	1615	1619	1621	1621	1638	
		1651	1730	1736	1738	1751	1757	1759	1767	1776	1781	1790	1795	1859	
		1860	1861	1876	1901	1902	1904	1905	1907	1909	1938	1940	1941	1942	
		1985	1989	1991	2014	2018	2021	2026	2039	2043	2045	2050	2051	2054	
		2151	2154	2157	2160	2163	2166	2168	2170	2172	2174	2177	2179	2182	
		2185	2188	2191	2197	2199	2203	2205	2209	2212	2216	2218	2223	2225	
		2232	2234	2236	2240	2243	2247	2249	2253	2255	2260	2261	2265	2265	
		2354	2355	2364	2377	2389	2402	2409	2416	2448	2452	2461	2514	2535	

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RLL	0000 1796	2358*
RRL	0000 179C	2361*
SCH	0000 OFF0	1617*
SCHECK	0000 1A56	2477 2483 2499 2505 2518 2524 2629*
SCONT1	0000 18B8	2469 2471 2474*
SCONT2	0000 18FA	2493 2496*
SCONT3	0000 1932	2511 2514*
SFLAG	0000 1BA2	2467 2473 2491 2495 2509 2513 2630 2715*
SH	0000 0ED6	1518*
SHI	0000 0ECE	1514*
SHR	0000 0FD2	1604*
SINT	0000 13FE	1995*
SIS	0000 0F2C	1547*
SLA	0000 1548	2159*
SLHL	0000 0AF6	1146*
SLL	0000 153C	2153*
SLLS	0000 0AEE	1140*
SRA	0000 154E	2162*
SRHA	0000 0B0C	1155*
SRHL	0000 0AFC	1149*
SRL	0000 1542	2156*
SRLS	0000 0AF2	1143*
STB	0000 0D3E	1355*
STBR	0000 0D9C	1387*
STH	0000 05C0	564*
STM	0000 0664	625*
SVC	0000 12AA	1869*
SVC004	0000 1258	1841* 1844
SVC100	0000 1268	1847* 1914
SVC150	0000 129E	1864 1865*
SVC175	0000 12A2	1865 1866*
SVC200	0000 12A4	1862 1867*
SVC201	0000 12AA	1870*
SVC202	0000 12B0	1872*
SVC208	0000 12D4	1884*
SVC212	0000 12EC	1892*
SVC215	0000 12FE	1898*
SVCERR	0000 1E1A	2969*
SVCINT	0000 1304	1855 1901*
T1	0000 02D4	235 236*
T10A1	0000 1352	1940* 1943
T10A2	0000 135E	1944*
T10D	0000 13CE	1976 1982*
T10DEV	0000 1400	1949 1992 1997*
T10E	0000 140E	1988 2013*
T10E2	0000 1432	2020 2023*
T10END	0000 1516	2135*
T10G	0000 1440	2017 2022 2025 2027*
T10H	0000 1446	2030* 2077
T10ILG	0000 14B2	2032 2070*
T10INT	0000 13A2	1953 1964* 1968 1972 1982 1983 1990
T10J	0000 1474	2041 2045*
T10JJ	0000 1476	2044 2046*
T10K	0000 147A	2036 2047*
T10KK	0000 148C	2048 2054*

T13A	0000 1C0C	2754	2755*
T13B	0000 1C10	2755	2756*
T13BYT	0000 1C90	2744	2801*
T13D	0000 1BEA	2746*	
T13END	0000 1C8C	2800*	
T13F	0000 1C40	2768	2775*
T13HB	0000 1C54	2784*	
T13HC	0000 1C6A	2789	2790*
T13INT	0000 1C16	2752	2759*
T13K	0000 1C6E	2790	2791*
T13LST	0000 1CA5	2776	2822*
T13PRV	0000 1C10	2747	2757* 2764
T13R1	0000 1C12	2758*	
T13R2	0000 1C34	2763	2766 2769*
T13R3	0000 1C72	2760	2792* 2797 2799
T13SVC	0000 1C7E	2784	2795*
T1A	0000 02DC	236	238*
T1A2	0000 02E0	239*	241
T1AA	0000 02D8	237*	
T1B	0000 02E8	236	241*
T1C	0000 02F0	239	244*
T1D1	0000 0310	249	253*
T1D2	0000 0318	253	255*
T1D3	0000 0320	255	257*
T1D4	0000 0328	257	259*
T1D8	0000 032C	259	260*
T1D9	0000 0330	260	261*
T1E1	0000 0348	265	267*
T1E2	0000 0350	267	269*
T1E3	0000 0358	269	271*
T1E4	0000 0368	271	276*
T1END	0000 0488	412*	
T1ERR1	0000 02E4	240*	
T1ERR2	0000 0304	244	245 246 247 250* 254 256 258
T1ERR3	0000 035C	261	262 263 264 266 268 270 272*
T1ERR4	0000 040A	280	282 284 286 291 309 329 347 348 351 353*
T1ERR5	0000 047C	376	382 402 409*
T1F	0000 0392	293*	
T1F2	0000 03C0	316*	
T1F3	0000 03FC	331	346*
T1F4	0000 0408	340	352*
T1G	0000 0416	360*	
T1G2	0000 041A	352	362*
T1H	0000 044A	384	385*
T1H1	0000 0454	385	386 389*
T2	0000 04A6	432	433*
T2A	0000 04AA	433	435*
T2B	0000 04C6	448	451*
T2C	0000 04E2	458	460*
T2D	0000 04FC	469	471*
T2E	0000 0516	481	483*
T2END	0000 0592	530	532*
T2F	0000 0534	492	494*
T2G	0000 0554	504	507*
T2H	0000 0570	515	518*

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T5C	0000 096C	979	981*						
T5D	0000 0976	985*	988						
T5D2	0000 0992	981	995*						
T5D3	0000 09A6	993	1001*						
T5D4	0000 0980	1004*	1006						
T5D5	0000 09CA	1010	1012*						
T5E	0000 09F4	1022	1027*						
T5E1	0000 09E8	995	1029*						
T5E2	0000 0996	996*	1029						
T5END	0000 0A8A	1082	1086*						
T5ERR1	0000 0968	971	974	976	980*				
T5ERR2	0000 098E	986	990	992	994*				
T5ERR3	0000 09C6	1005	1008	1011*					
T5ERR4	0000 09E8	994	1011	1016	1021	1023*	1060		
T5ERR5	0000 0A20	1036	1038	1040	1043	1044*	1046	1049	1052
T5ERR6	0000 0A6E	1067	1072	1076*					
T5ERR7	0000 0A7E	1044	1076	1080	1083*				
T5F	0000 0A00	996	1032*						
T5F2	0000 099C	998*	1034						
T5G	0000 0A0C	999	1037*						
T5H1	0000 0A1A	1042*	1054						
T5H2	0000 0A1E	1043*	1055						
T5H3	0000 0A24	1045*	1063						
T5H4	0000 0A28	1046*	1064						
T5J1	0000 0A2A	1047*	1070						
T5J3	0000 0A38	1052*	1073						
T5K1	0000 0A3A	1041	1054*						
T5K2	0000 0A4C	1042	1062*						
T5K3	0000 0A5C	1045	1068*						
T5L	0000 0A64	1047	1072*						
T5M	0000 0A66	1050	1073*						
T5P	0000 0A70	1075	1077*						
T5Q	0000 09A2	1000*	1077						
T5Q2	0000 0A78	1000	1081*						
T5R5	0000 0A0A	1028	1031	1036*					
T5R7	0000 0A76	1080*	1081						
T6A1	0000 0AC8	1123	1125*						
T6B	0000 0AE0	1135*							
T6B2	0000 0B0C	1153	1156*						
T6B4	0000 0B22	1164*							
T6B6	0000 0B44	1175	1177*						
T6C	0000 0B50	1181*							
T6C3	0000 0B7A	1195	1197*						
T6D	0000 0B7E	1199*							
T6D2	0000 0BAC	1212	1214*						
T6E	0000 0BBE	1220*							
T6E2	0000 0BE4	1230	1232*						
T6END	0000 0CD0	1312	1313*						
T6F	0000 0BF6	1239*							
T6F3	0000 0C24	1252	1254*						
T6G	0000 0C3A	1261*							
T6G4	0000 0C5E	1271	1273*						
T6G8	0000 0C76	1281*							
T6GA	0000 0CCC	1303	1308	1310	1311*				
T6H	0000 0C82	1283	1285*						

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PROG= S16P2 ASSEMBLED BY CAL 03-066R05-00 (32-BIT)

1	CROSS	PT200010
2	WIDTH 120	PT200020
3	TARGT 16	PT200030
4	S16P2 PROG INTERDATA PROCESSOR TEST 06-106R08A13 PART 2	PT200040
5	*	PT200050
6	* COPYRIGHT INTERDATA, INC. (JULY 1977)	PT200060
7	*	PT200070
8	*	PT200080
0000 0000	9 R0 EQU 0	PT200090
0000 0001	10 R1 EQU 1	PT200100
0000 0002	11 R2 EQU 2	PT200110
0000 0003	12 R3 EQU 3	PT200120
0000 0004	13 R4 EQU 4	PT200130
0000 0005	14 R5 EQU 5	PT200140
0000 0006	15 R6 EQU 6	PT200150
0000 0007	16 R7 EQU 7	PT200160
0000 0008	17 R8 EQU 8	PT200170
0000 0009	18 R9 EQU 9	PT200180
0000 000A	19 R10 EQU 10	PT200190
0000 000B	20 R11 EQU 11	PT200200
0000 000C	21 R12 EQU 12	PT200210
0000 000D	22 R13 EQU 13	PT200220
0000 000E	23 R14 EQU 14	PT200230
0000 000F	24 R15 EQU 15	PT200240
0000R	25 *	PT200250
	26 ORG X'80'	PT200260
	27 *	PT200270
0080 2421	28 LIS R2,1	PT200280
0082 2303	29 BS BOOT	PT200290
0084 02DE	30 DC Z(PSWAVE)	PT200300
0086 1380	31 DC Z(DSAVE)	PT200310
0088 4020 0022	32 BOOT STH R2,X'22'	PT200320
008C C810 02D0	33 LHI R1,X'2D0'	PT200330
0090 C830 1590	34 LHI R3,LNZB	PT200340
0094 C860 0000	35 MN LHI R6,0	PT200350
0098 D340 0078	36 LB R4,X'78'	PT200360
009C DE40 0079	37 OC R4,X'79'	PT200370
00A0 9045	38 LEADER SSR R4,R5	PT200380
00A2 2091	39 BTBS 9,1	PT200390
00A4 9B45	40 RDR R4,R5	PT200400
00A6 0855	41 LDAR R5,R5	PT200410
00A8 2234	42 BZS LEADER	PT200420
00AA D251 0000	43 LOAD STB R5,0(R1)	PT200430
00AE D351 0000	44 LB R5,0(R1)	PT200440
00B2 0765	45 XAR R6,R5	PT200450
00B4 9481	46 EXBR R8,R1	PT200460
00B6 9828	47 WHR R2,R8	PT200470
00B8 9D45	48 SSR R4,R5	PT200480
00BA 2091	49 BTBS 9,1	PT200490
00BC 9B45	50 RDR R4,R5	PT200500
00BE C110 00AA	51 BXLE R1,LOAD	PT200510
00C2 9486	52 EXBR R8,R6	PT200520
00C4 9828	53 WHR R2,R8	PT200530

00C6	2478	54	LDWT	LIS R7,8	PT200540
00C8	917C	55		SLSS R7,12	PT200550
00CA	9557	56		EPSR R5,R7	PT200560
00CC	2203	57	BS	LDWT	PT200570
00CE		58		ORG X'2D0'	PT200580
0200	4300 02E0	59	ORIGIN1	B ENTRY1	PT200590
		60	*****		
02D4	0202	61	IO DCX 0202	IO INDICATOR	PT200610
02D6	0101	62	CRT DCX 0101	CRT VALUE	PT200620
02D8	0202	63	CONADR DCX 0202	CONSL	PT200630
02DA	0404	64	CAR DCX 0404	CAROUSEL VALUE	PT200640
02DC	1011	65	PASADR DCX 1011	PASLA ADDRESS REC/SND DEFAULT 1	PT200650
02DE	0000	66	PSWAVE DCX 0		PT200660
		67	*		PT200670
		68	*		PT200680
	0000 02E0	69	ENTRY1 EQU *		PT200690
02E0	C200 02E4	70	PART2 LPSW	PART2A	PT200700
02E4	0000	71	PART2A DC	0,PART2AA	PT200710
		72	*****		
	0000 02E8	73	PART2AA EQU *		PT200720
02E8	C800 F800	74	LHI R0,X'F800'		PT200730
02EC	4000 1580	75	STH R0,FIRSTCMD		PT200740
02F0	D300 02D4	76	IOTEST1 LB R0,IO		PT200750
02F4	C500 0004	77		CLHI R0,4	PT200760
02F8	2135	78		BNES CRTIO	PT200770
02FA	C800 F000	79		LHI R0,X'F000'	PT200780
02FE	4000 1580	80		STH R0,FIRSTCMD	PT200790
0302	D300 02D4	81	CRTIO LB R0,IO		PT200800
0306	C500 0002	82		CLHI R0,2	PT200810
030A	4330 0354	83		BE TTYIO	PT200820
030E	C800 B979	84		LHI R0,X'B979'	PT200830
0312	4000 1588	85		STH R0,\$C4	PT200840
0316	C800 6B6B	86		LHI R0,X'6B6B'	PT200850
031A	4000 158A	87		STH R0,\$58	PT200860
031E	C800 7979	88		LHI R0,X'7979'	PT200870
0322	4000 158C	89		STH R0,\$44	PT200880
0326	C800 7979	90		LHI R0,X'7979'	PT200890
032A	4000 158E	91		STH R0,\$66	PT200900
032E	D320 157A	92		LB R2,CRTOUT	PT200910
0332	D310 157B	93		LB R1,CRTOUT+1	PT200920
0336	D210 1579	94		STB R1,INCMND	PT200930
033A	D310 02DC	95		LB R1,PASADR	PT200940
033E	D210 1586	96		STB R1,INDEV	PT200950
0342	D310 02DD	97		LB R1,PASADR+1	PT200960
0346	DE10 1580	98		OC R1,FIRSTCMD	PT200970
034A	2531	99		LCS R3,1	PT200980
034C	4030 157E	100		STH R3,CRTFLG	PT200990
0350	4300 0392	101		B I02	PT201000
	0000 0354	102	TTYIO EQU *		PT201010
0354	C810 00A4	103		LHI R1,X'A4'	PT201020
0358	D210 1579	104		STB R1,INCMND	PT201030
035C	C800 C454	105		LHI R0,X'C454'	PT201040
0360	4000 1588	106		STH R0,\$C4	PT201050
0364	C800 5846	107		LHI R0,X'5846'	PT201060
					PT201070

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0368	4000 158A	108	STH	R0,\$58	PT201080	
036C	C800 4456	109	LHI	R0,X'4456'	PT201090	
0370	4000 158C	110	STH	R0,\$44	PT201100	
0374	C800 6664	111	LHI	R0,X'6664'	PT201110	
0378	4000 158E	112	STH	R0,\$66	PT201120	
037C	D310 0208	113	LB	R1,CONADR	PT201130	
0380	D210 1586	114	STB	R1,INDEV	PT201140	
0384	2410	115	LIS	R1,0	PT201150	
0386	4010 157E	116	STH	R1,CRTFLG	PT201160	
038A	D310 0208	117	LB	R1,CONADR	PT201170	
038E	D320 157C	118	LB	R2,CONOUT	PT201180	
	0000 0392	119	I02	EQU *	PT201190	
0392	D210 1585	120	STB	R1,OUTDEV	PT201200	
0396	D220 1578	121	STB	R2,OUTCMD	PT201210	
039A	D320 1585	122	PART2B	LB R2,OUTDEV	R2 = ADD. OF TTY PRINT	PT201220
039E	C8A0 152E	123	LHI	R10,TITLE2	PT201230	
03A2	C8B0 1547	124	LHI	R11,TITEND	PT201240	
03A6	DE20 1578	125	PART2C	OC R2,OUTCMD	PROCESSOR TEST PART 2	PT201250
03AA	9D23	126	PART2D	SSR R2,R3	PT201260	
03AC	2013	127	BTBS	1,3	TTY DEV. UNAVA. ?	PT201270
03AE	2082	128	BTBS	8,2	TTY BUSY ?	PT201280
03B0	C430 00FC	129	NHI	R3,X'FC'	PT201290	
03B4	C530 000C	130	CLHI	R3,X'0C'	PT201300	
03B8	2237	131	BES	PART2D	PT201310	
03BA	D30A 0000	132	LB	R0,0(R10)	PT201320	
03BE	41E0 140A	133	BAL	R14,WRITE1	PT201330	
03C2	26A1	134	AIS	R10,1	PT201340	
03C4	05AB	135	CLHR	R10,R11	PT201350	
		136	*		PT201360	
03C6	203E	137	BNES	PART2D	PT201370	
		138	*		PT201380	
03C8	D320 1586	139	LB	R2,INDEV	PT201390	
03CC	41E0 13F0	140	BAL	R14,READ1	PT201400	
03D0	D200 1576	141	STB	R0,CPUNO	PT201410	
03D4	41E0 13F0	142	BAL	R14,READ1	PT201420	
03D8	D200 1577	143	STB	R0,CPUNO+1	PT201430	
03DC	4800 1576	144	LH	R0,CPUNO	PT201440	
03E0	C500 3035	145	CLHI	R0,C'05'	PT201450	
03E4	2336	146	BES	MOD57	PT201460	
03E6	C500 373u	147	M5007	CLHI R0,C'70'	PT201470	
03EA	233C	148	BES	MOD578	PT201480	
03EC	C500 3830	149	CLHI	R0,C'80'	PT201490	
03F0	2339	150	M0D57	BES MOD578	PT201500	
03F2	C500 3835	151	CLHI	R0,C'85'	PT201510	
03F6	2336	152	BES	MOD578	PT201520	
03F8	C500 3734	153	CLHI	R0,C'74'	PT201530	
03FC	2333	154	BES	MOD578	PT201540	
03FE	C500 3744	155	CLHI	R0,C'7D'	PT201550	
0402	4330 0424	156	M0D578	BE IOTEST	PT201560	
0406	C500 3136	157	CLHI	R0,C'16'	TEST FOR MODEL 7/16 WITH DISPLAY	PT201570
040A	2234	158	BES	MOD578	PT201580	
040C	C500 3144	159	CLHI	R0,C'1D'	TEST FOR MODEL 7/16 WITHOUT DISPLAY	PT201590
0410	2237	160	BES	MOD578	PT201600	
0412	C500 3141	161	CLHI	R0,C'1A'	PT201610	
0416	223A	162	BES	MOD578	PT201620	

0418	C800 003F	163	CPUERR	LHI	R0,C'?'	PT201630
041C	41E0 140A	164		BAL	R14,WRITE1	PT201640
0420	4300 02E0	165		B	PART2	PT201650
		166	*			PT201660
0424	24F0	167	IOTEST	LIS	R15,0	PT201670
0426	40F0 152A	168		STH	R15,TEMP	PT201680
042A	41C0 141C	169		BAL	R12,CRLF	PT201690
042E	C800 0030	170		LHI	R0,C'0'	PT201700
0432	D200 1515	171		STB	R0,TESTNO+1	PT201710
		172	*			PT201720
	0000 0436	173	IOSTA	EQU	*	PT201730
0436	D320 1585	174		LB	R2,OUTDEV	PT201740
043A	DE20 1578	175		OC	R2,OUTCMD	PT201750
043E	D620 00B8	176		WB	R2,WBSTRT	1234567890 PT201760
0442	D320 1586	177		LB	R2,INDEV	PT201770
0446	DE20 1579	178		OC	R2,INCMND	PT201780
044A	9D23	179		SSR	R2,R3	PT201790
044C	2281	180		BFBS	8,1	PT201800
044E	9D23	181	IOA2	SSR	R2,R3	PT201810
0450	2081	182		BTBS	8,1	PT201820
0452	9B21	183		RDR	R2,R1	PT201830
0454	C410 007F	184		NHI	R1,X'7F'	PT201840
0458	C510 0031	185		CLHI	R1,X'31'	PT201850
045C	4230 05CE	186		BNE	IOERR1	PT201860
0460	DD20 152B	187	IOA4	SS	R2,TEMP+1	PT201870
0464	2082	188		BTBS	8,2	PT201880
0466	9D23	189		SSR	R2,R3	PT201890
0468	4530 152A	190		CLH	R3,TEMP	READ KEY 2 IN TEMP PT201900
046C	4230 05CC	191		BNE	IOERR2	PT201910
0470	DB20 152A	192		RD	R2,TEMP	PT201920
0474	4110 05DA	193		BAL	R1,PARITY	PT201930
0478	C800 3200	194	TERM1	LHI	R0,X'3200'	PT201940
047C	4500 152A	195		CLH	R0,TEMP	PT201950
0480	4230 05CA	196		BNE	IOERR3	PT201960
0484	DD20 152B	197	IOA6	SS	R2,TEMP+1	TTY STATUS IN TEMP PT201970
0488	2082	198		BTBS	8,2	PT201980
048A	4500 152A	199		CLH	R0,TEMP	PT201990
048E	4230 05C8	200		BNE	IOERR4	PT202000
0492	DB20 152B	201		RD	R2,TEMP+1	READ KEY 3 IN TEMP PT202010
0496	4110 05DA	202		BAL	R1,PARITY	PT202020
049A	C800 3233	203		LHI	R0,X'3233'	PT202030
049E	4500 152A	204		CLH	R0,TEMP	PT202040
04A2	4230 05C6	205		BNE	IOERR5	PT202050
04A6	9D23	206	IOA8	SSR	R2,R3	PTY STATUS IN R3 PT202060
04A8	2081	207		BTBS	8,1	PT202070
04AA	D920 152A	208		RH	R2,TEMP	READ KEY 4 TEMP PT202080
04AE	4110 05DA	209		BAL	R1,PARITY	PT202090
04B2	C800 0034	210		LHI	R0,X'34'	PT202100
04B6	D400 152A	211		CLB	R0,TEMP	PT202110
04BA	4230 05C4	212		BNE	IOERR6	PT202120
04BE	9D23	213	IOA10	SSR	R2,R3	PTY STATUS IN R3 PT202130
04C0	2081	214		BTBS	8,1	PT202140
04C2	D920	215		DC	X'D920'	READ KEY 5 IN TEMP (RH) STORE AT TEMP PT202150
04C4	1528	216		DC	Z(TEMP+1)	PT202160
04C6	4110 05DA	217		BAL	R1,PARITY	PT202170

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04CA	C800 0035	218	LHI	R0,X'35'	PT202180
04CE	D400 152B	219	CLB	R0,TEMP+1	PT202190
04D2	4230 05C2	220	BNE	IOERR7	PT202200
04D6	D1B0 10AA	221	LM	R11,BUFR0	R11 THRU R15 = 0 PT202210
04DA	D0B0 10F2	222	STM	R11,BUFR2	PT202220
04DE	C8B0 10F2	223	LHI	R11,BUFR2	PT202230
04E2	C8C0 10F6	224	LHI	R12,BUFR2+4	PT202240
04E6	972B	225	RBR	R2,R11	PT202250
04E8	4800 10F2	226	LH	R0,BUFR2	PT202260
04EC	C400 7F7F	227	NHI	R0,X'7F7F'	PT202270
04F0	4000 10F2	228	STH	R0,BUFR2	PT202280
04F4	4800 10F4	229	LH	R0,BUFR2+2	PT202290
04F8	C400 7F7F	230	NHI	R0,X'7F7F'	PT202300
04FC	4000 10F4	231	STH	R0,BUFR2+2	PT202310
0500	D300 10F6	232	LB	R0,BUFR2+4	PT202320
0504	C400 7F7F	233	NHI	R0,X'7F7F'	PT202330
0508	D200 10F6	234	STB	R0,BUFR2+4	PT202340
050C	C800 3637	235	LHI	R0,X'3637'	PT202350
0510	4500 10F2	236	CLH	R0,BUFR2	PT202360
0514	4230 05C0	237	BNE	IOERR8	PT202370
0518	C800 3839	238	LHI	R0,X'3839'	PT202380
051C	4500 10F4	239	CLH	R0,BUFR2+2	CHECK KEYS 8 , 9 PT202390
0520	4230 05C0	240	BNE	IOERR8	PT202400
0524	C800 0030	241	LHI	R0,X'30'	PT202410
0528	D400 10F6	242	CLB	R0,BUFR2+4	CHECK KEY 0 PT202420
052C	4230 05C0	243	BNE	IOERR8	PT202430
0530	41C0 141C	244	BAL	R12,CRLF	CR LF PT202440
		245 *			PT202450
0534	D320 1585	246	LB	R2,OUTDEV	PT202460
0538	C840 0DBC	247	LHI	R4,S26MSG	PT202470
053C	C850 0D07	248	LHI	R5,S26MSD	PRINT CHARACTERS DEPRESS KEYS CR LF PT202480
0540	DE20 1578	249	OC	R2,OUTCMD	1234567890 PT202490
0544	9624	250	WBR	R2,R4	PT202500
0546	D320 1586	251	LB	R2,INDEV	PT202510
054A	DE20 1579	252	OC	R2,INCMND	PT202520
054E	9D23	253	SSR	R2,R3	PT202530
0550	2281	254	BFBS	8,1	PT202540
0552	D720 10EE	255	RB	R2,BF2ST	READ 10 KEYS IN BUFR2 PT202550
0556	2458	256	LIS	R5,8	PT202560
	0000 0558	257	PARTY1	EQU *	PT202570
0558	4865 10F2	258	LH	R6,BUFR2(R5)	PT202580
055C	C460 7F7F	259	NHI	R6,X'7F7F'	PT202590
0560	4065 10F2	260	STH	R6,BUFR2(R5)	PT202600
0564	2752	261	SIS	R5,2	PT202610
0566	2217	262	BNMS	PARTY1	PT202620
0568	C800 3132	263	LHI	R0,X'3132'	PT202630
056C	4500 10F2	264	CLH	R0,BUFR2	PT202640
0570	4230 05BE	265	BNE	IOERR9	PT202650
0574	C800 3334	266	LHI	R0,X'3334'	PT202660
0578	4500 10F4	267	CLH	R0,BUFR2+2	PT202670
057C	4230 05BE	268	BNE	IOERR9	PT202680
0580	C800 3536	269	LHI	R0,X'3536'	PT202690
0584	4500 10F6	270	CLH	R0,BUFR2+4	PT202700
0588	4230 05BE	271	BNE	IOERR9	PT202710
058C	C800 3738	272	LHI	R0,X'3738'	PT202720

0590	4500 10F8	273	CLH	R0,BUFR2+6	PT202730
0594	4230 05BE	274	BNE	IOERR9	PT202740
0598	9D23	275	SSR	R2,R3	PT202750
059A	2081	276	BTBS	8,1	PT202760
059C	9924	277	RHR	R2,R4	PT202770
059E	C440 7F7F	278	NHI	R4,X'7F7F'	PT202780
05A2	C540 3939	279	CLHI	R4,X'3939'	PT202790
05A6	213B	280	BNES	IOERRA	PT202800
05A8	9D23	281	SSR	R2,R3	PT202810
05AA	2081	282	BTBS	8,1	PT202820
05AC	9924	283	RHR	R2,R4	PT202830
05AE	C440 7F7F	284	NHI	R4,X'7F7F'	PT202840
05B2	C540 3030	285	CLHI	R4,X'3030'	PT202850
05B6	2133	266	BNES	IOERRA	PT202860
05B8	4330 05E8	287	BE	RETRY	PT202870
05BC	26F1	288	IOERRA	AIS R15,1	PT202880
05BE	26F1	289	IOERR9	AIS R15,1	PT202890
05C0	26F1	290	IOERR8	AIS R15,1	PT202900
05C2	26F1	291	IOERR7	AIS R15,1	PT202910
05C4	26F1	292	IOERR6	AIS R15,1	PT202920
05C6	26F1	293	IOERR5	AIS R15,1	PT202930
05C8	26F1	294	IOERR4	AIS R15,1	PT202940
05CA	26F1	295	IOERR3	AIS R15,1	PT202950
05CC	26F1	296	IOERR2	AIS R15,1	PT202960
05CE	26F1	297	IOERR1	AIS R15,1	PT202970
05D0	2501	298	IOERR	LCS R0,1	PT202980
05D2	4000 1582	299	STH	R0,IOERHW	PT202990
05D6	4300 145C	300	B	ERROR	PT203000
	0000 05DA	301	PARITY	EQU *	PT203010
05DA	4800 152A	302	LH	R0,TEMP	PT203020
05DE	C400 7F7F	303	NHI	R0,X'7F7F'	PT203030
05E2	4000 152A	304	STH	R0,TEMP	PT203040
05E6	0301	305	BR	R1	PT203050
		306	*		PT203060
		307	*	FLPTNT = FLPT ARITHMETIC FAULT INTERRUPT	PT203070
		308	*		PT203080
		309	*	ILGINT = ILLEGAL INSTRUCTION INTERRUPT	PT203090
		310	*		PT203100
		311	*	MALFTN = MACHINE MALFUNCTION INTERRUPT	PT203110
		312	*		PT203120
		313	*	EXTINT = EXTERNAL INTERRUPT	PT203130
		314	*		PT203140
		315	*	DVDFLT = FIXED POINT DIVIDE FAULT INTERRUPT	PT203150
		316	*		PT203160
		317	*	CHANIO = CHANNEL I/O TERMINATION INTERRUPT	PT203170
		318	*		PT203180
		319	*	QVRFLO = TERMINATION QUEUE OVERFLOW INTERRUPT	PT203190
		320	*		PT203200
		321	*		PT203210
		322	*	SVCERR = INCORRECT SVC INTRPT	PT203220
		323	*		PT203230
		324	*	DEVERR = INCORRECT SERVICE POINTER USED OR	PT203240
		325	*	* = INCORRECT DEV. GENERATED INTRPT.	PT203250
		326	*		PT203260
		327	RETRY	BAL R12,CRLF	PT203270

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05EC	2430	328	LIS	R3,0		PT203280
05EE	4030 1582	329	STH	R3,IOERHW		PT203290
05F2	4030 002C	330	M5008	STH R3,X'2C'	NEW PSW FLPT ARITH. FAULT INTRPT.	PT203300
05F6	4030 0034	331	STH	R3,X'34'	NEW PSW ILLG. INSTR. INTRPT.	PT203310
05FA	4030 003C	332	STH	R3,X'3C'	NEW PSW MCHN. MALFNTN. INTRPT.	PT203320
05FE	4030 0044	333	STH	R3,X'44'	NEW PSW EXTERNAL INTRPT.	PT203330
0602	4030 004C	334	STH	R3,X'4C'	NEW PSW FXDPT. DIV. FAULT INTRPT.	PT203340
0606	4030 0086	335	STH	R3,X'86'	NEW PSW CHAN. I/O TERM. INTRPT.	PT203350
060A	4030 0090	336	M5009	STH R3,X'90'	NEW PSW TERM. Q OVERFLO. INTRPT	PT203360
		337 *				PT203370
		338 *				PT203380
060E	C810 1432	339	LHI	R1,ILGINIT	NEW PSW ADDRESS FOR	PT203390
0612	4010 0036	340	STH	R1,X'36'	ILLEGAL INSTR. INTRPT.	PT203400
0616	C810 1436	341	LHI	R1,MALFTN	NEW PSW ADDRESS FOR	PT203410
061A	4010 003E	342	STH	R1,X'3E'	MACHINE MALFUNCTION INTERRUPT	PT203420
061E	C810 143A	343	LHI	R1,EXTINT	NEW PSW ADDRESS FOR	PT203430
0622	4010 0046	344	STH	R1,X'46'	EXTERNAL INTERRUPT	PT203440
0626	C810 142E	345	LHI	R1,FLPTNT	NEW PSW ADDRESS FOR	PT203450
062A	4010 002E	346	STH	R1,X'2E'	FLPT ARITH. FAULT INTRPT.	PT203460
062E	C810 143E	347	LHI	R1,DVDFLT	NEW PSW ADDRESS FOR	PT203470
0632	4010 004E	348	STH	R1,X'4E'	FIXED PT. DIV. FAULT INTRPT.	PT203480
J636	C810 1592	349	LHI	R1,TABLE		PT203490
063A	4010 0080	350	STH	R1,X'80'		PT203500
063E	C810 1442	351	LHI	R1,CHANIO		PT203510
0642	4010 0086	352	STH	R1,X'88'		PT203520
0646	C810 1446	353	LHI	R1,QVRFL0		PT203530
064A	4010 0092	354	STH	R1,X'92'	NEW PSW ADDRESS FOR TERM. QUEUE OVERFLO INTRPT.	PT203540
		355 *				PT203550
		356 *				PT203560
064E	C800 10F2	357	LHI	R0,BUFR2		PT203570
0652	4000 0022	358	STH	R0,X'22'		PT203580
		359 *				PT203590
0656	C800 144A	360	LHI	R0,SVCERR		PT203600
065A	C840 009C	361	LHI	R4,X'9C'		PT203610
065E	4004 0000	362	RENTRO	STH R0,0(R4)		PT203620
0662	2642	363	AIS	R4,2		PT203630
0664	C540 00D0	364	CLHI	R4,X'D0'		PT203640
0668	2035	365	BNES	RENTRO		PT203650
		366 *				PT203660
066A	C800 144E	367	LHI	R0,DEVERR	DEVERR = ADDR. FOR	PT203670
066E	4004 0000	368	RENTR2	STH R0,0(R4)	STORE THIS ADR.	PT203680
0672	2642	369	AIS	R4,2	IN ALL SERVICE POINTERS	PT203690
0674	C540 02D0	370	CLHI	R4,X'2D0'		PT203700
0678	2035	371	BNES	RENTR2		PT203710
		372 *				PT203720
		373 *	RESET	THE TABLE		PT203730
		374 *				PT203740
067A	C800 0400	375	LHI	R0,X'400'		PT203750
067E	4000 1592	376	STH	R0,TABLE		PT203760
		377 *				PT203770
		378 *				PT203780
0682	D320 1585	379	LB	R2,OUTDEV		PT203790
0686	DE20 1578	380	OC	R2,OUTCMD		PT203800
068A	C840 1546	381	LHI	R4,SUBTST-2		PT203810
068E	C850 1557	382	LHI	R5,SUBTSTND		PT203820

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0692	9D23	383	RENTR1	SSR	R2,R3		PT203830
0694	2091	384		BTBS	9,1		PT203840
0696	9624	385		WBR	R2,R4		PT203850
0698	41E0 13F0	386		BAL	R14,READ1	R0 = KEY READ FROM TTY	PT203860
069C	C500 0030	387		CLHI	R0,X'30'	LOOK FOR A NUMERIC KEY	PT203870
06A0	2184	388		BLS	RENTR3	FROM 0 THROU 7	PT203880
06A2	C500 0038	389		CLHI	R0,X'38'		PT203890
06A6	2187	390		BLS	RENTR6		PT203900
06A8	C800 003F	391	RENTR3	LHI	R0,C'?'	PRINT ?	PT203910
06AC	41E0 140A	392		BAL	R14,WRITE1		PT203920
06B0	4300 05E8	393		B	RETRY		PT203930
06B4	D200 1515	394	RENTR6	STB	R0,TESTNO+1		PT203940
06B8	C400 000F	395		NHI	R0,15		PT203950
06BC	D200 1584	396		STB	R0,SUBTNO	SUBTNO = SUBTEST NO. STORED	PT203960
06C0	41E0 13F0	397		BAL	R14,READ1	R0 = KEY READ	PT203970
06C4	C500 000D	398		CLHI	R0,X'0D'		PT203980
06C8	4230 06A8	399		BNE	RENTR3		PT203990
06CC	240A	400		LIS	R0,10		PT204000
06CE	41E0 140A	401		BAL	R14,WRITE1		PT204010
06D2	D300 1584	402		LB	R0,SUBTNO		PT204020
06D6	9102	403		SLLS	R0,2		PT204030
06D8	C810 06E8	404		LHI	R1,RENTR8		PT204040
06DC	0A10	405		AHR	R1,R0		PT204050
06DE	C200 06E2	406		LPSW	*+4		PT204060
06E2	7C00	407	KPI01	DC	X'7C00',*+2		PT204070
06E4	06E6						
06E6	0301	408		BR	R1		PT204080
06E8	4300 02E0	409	RENTR8	B	PART2		PT204090
06EC	4300 0708	410		B	SUBT1		PT204100
06F0	4300 085E	411		B	SUBT2		PT204110
06F4	4300 0DD8	412		B	SUBT3		PT204120
06F8	4300 0F14	413		B	SUBT4		PT204130
06FC	4300 0F22	414		B	SUBT5		PT204140
0700	4300 1114	415		B	SUBT6		PT204150
0704	4300 12A6	416		B	SUBT7		PT204160
		417	*				PT204170
		418	*				PT204180
		419	*				PT204190
		420	*****				PT204200
		421	*				PT204210
		422	*	TEST INSTRUCTIONS	ACK AND ACKR		PT204220
		423	*				PT204230
	0000 0708	424	SUBT1	EQU	*		PT204240
0708	C200 070C	425		LPSW	SUB12		PT204250
070C	2C00	426	SUB12	DC	X'2C00',SUB13		PT204260
070E	0710						
	0000 0710	427	SUB13	EQU	*		PT204270
0710	C800 3231	428		LHI	R0,C'21'	PART2,SUBTEST1	PT204280
0714	4000 1514	429		STH	R0,TESTNO		PT204290
		430	*				PT204300
0718	2400	431		LIS	R0,0		PT204310
071A	2410	432		LIS	R1,0		PT204320
071C	9F01	433		ACKR	R0,R1		PT204330
071E	4340 0734	434		BFC	4,S1RA	ERROR IF OVERFLO = 0	PT204340
0722	0800	435		LHR	R0,R0		PT204350

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0724	2138	436	BNZS	S1RA	PT204360
0726	C510 0004	437	CLHI	R1,4	PT204370
072A	2135	438	BNES	S1RA	PT204380
072C	2400	439	LIS	R0,0	PT204390
072E	9F00	440	ACKR	R0,R0	PT204400
0730	4240 073A	441	BTC	4,S1P	ERROR IF OVERFLO = 0 PT204410
0734	24F1	442	S1RA	LIS R15,1	PT204420
0736	4300 145C	443	B	ERROR	PT204430
073A	C830 3035	444	S1P	LHI R3,C'05'	LOOK FOR MODEL 5 PT204440
073E	4530 1576	445	CLH	R3,CPUNO	PT204450
0742	2335	446	BES	S1P1	PT204460
0744	C500 0004	447	CLHI	R0,4	IS R0 = 4 = EX. (FALSE SINK) PT204470
0748	203A	448	BNES	S1RA	PT204480
074A	2303	449	BS	S1P2	PT204490
074C	0800	450	S1P1	LHR R0,R0	MODEL 5 + IS R0 = 0 ? PT204500
074E	203D	451	BNZS	S1RA	PT204510
0750	2500	452	S1P2	LCS R0,0	PT204520
0752	4000 152A	453	STH	R0,TEMP	PT204530
0756	0F00 152A	454	ACK	R0+TEMP	PT204540
075A	4340 0734	455	BFC	4,S1RA	PT204550
075E	0800	456	LHR	R0,R0	PT204560
0760	4230 0734	457	BNZ	S1RA	PT204570
0764	2404	458	LIS	R0,4	PT204580
0766	D400 152A	459	CLB	R0,TEMP	IS TEMP = 4 = EX. (FALSE SINK) PT204590
076A	4230 0734	460	BNE	S1RA	PT204600
076E	9F22	461	ACKR	R2,R2	PT204610
0770	9F22	462	ACKR	R2,R2	PT204620
0772	D320 1586	463	LB	R2,INDEV	PT204630
0776	D310 1588	464	LB	R1,SC4	LOAD COMMAND BYTE PT204640
077A	9E21	465	OCR	R2,R1	TTY IN READ MODE PT204650
077C	2500	466	LCS	R0,0	PT204660
077E	4000 0040	467	STH	R0,X'40'	OLD PSW EXT. INTRPT. PT204670
0782	2400	468	LIS	R0,0	PT204680
0784	4000 0044	469	STH	R0,X'44'	NEW PSW EXT. INTRPT. PT204690
0788	C830 07C6	470	LHI	R3,S1INT	PT204700
078C	4030 0046	471	STH	R3,X'46'	PT204710
0790	D310 1589	472	LB	R1,\$54	LOAD COMMAND BYTE PT204720
0794	9E21	473	OCR	R2,R1	TTY IN READ MODE PT204730
0796	4800 157E	474	LH	R0,CRTFLG	PT204740
079A	2332	475	BZS	S1M	PT204750
079C	9F00	476	ACKR	R0,R0	PT204760
079E	9D23	477	S1M	SSR R2,R3	R3 = TTY STATUS PT204770
07A0	2281	478	BFBS	8,1	WAIT UNTIL TTY BUSY PT204780
07A2	C200 07A6	479	LPSW	S1QQ	PT204790
07A6	4000	480	S1QQ	DC X'4000',*,+2	ENABLE EXT. INT. PT204800
07A8	07AA				
07AA	D310 158A	481	LB	R1,\$58	LOAD COMMAND BYTE PT204810
07AE	D320 1585	482	LB	R2,OUTDEV	PT204820
07B2	9E21	483	OCR	R2,R1	PT204830
07B4	9D23	484	SSR	R2,R3	PT204840
07B6	2081	485	BTBS	8,1	PT204850
07B8	DA20 1528	486	WD	R2,NULL	PT204860
07BC	41F0 14C0	487	BAL	R15,TSTBRK	PT204870
07C0	24F2	488	S1RB	LIS R15,2	PT204880
07C2	4300 145C	489	B	ERROR	PT204890

07C6	2500	490	S1INT	LCS	R0,0	PT204900
07C8	2510	491		LCS	R1,0	PT204910
07CA	9F01	492		ACKR	R0,R1	PT204920
07CC	4240 07C0	493		B0	S1RB	PT204930
07D0	0520	494		CLHR	R2,R0	IS R0 = R2 = TTY ADD.
07D2	213C	495		BNES	S1RB1	PT204940
07D4	2306	496	TERM2	BS	KPI02	PT204950
07D6	C510 0010	497		CLHI	R1,X'10'	PT204960
07DA	4230 07EA	498		BNE	S1RB1	PT204970
07DE	2309	499		BS	S1K	PT204980
07E0	0811	500	KPI02	LHR	R1,R1	PT204990
07E2	2337	501	KPI03	BZS	S1K	PT205000
07E4	C510 0008	502		CLHI	R1,8	PT205010
07E8	2334	503		BES	S1K	PT205020
07EA	24F3	504	S1RB1	LIS	R15,3	PT205030
07EC	4300 145C	505		B	ERROR	PT205040
07F0	4800 0040	506	S1K	LH	R0,X'40'	OLD PSW EXT. INTRPT.
07F4	C400 FFF0	507		NHI	R0,X'FFF0'	PT205060
07F8	C500 4000	508		CLHI	R0,X'4000'	PT205070
07FC	2039	509		BNES	S1RB1	PT205080
07FE	C840 1566	510	S1K.1	LHI	R4,PRBRK	PRINT
0802	C850 1573	511		LHI	R5,BRK	PRESS BRK
0806	D320 1585	512		LB	R2,OUTDEV	PT205110
080A	DE20 1578	513		OC	R2,OUTCMD	PT205120
080E	9624	514		WBR	R2,R4	PT205130
0810	C800 0838	515		LHI	R0,S1XINT	EXT. INT. ADR.
0814	4000 0046	516		STH	R0,X'46'	PT205150
0818	D310 1589	517		LB	R1,\$54	LOAD COMMAND BYTE
081C	D320 1586	518		LB	R2,INDEV	PT205170
0820	9E21	519		OCR	R2,R1	PT205180
0822	9D23	520	S1MM	SSR	R2,R3	PT205190
0824	2281	521		BFBS	8,1	PT205200
0826	C200 082A	522		LPSW	S1PP	PT205210
082A	4000	523	S1PP	DC	X'4000',*+2	PT205220
082C	082E					PT205230
082E	41F0 14B8	524		BAL	R15,TSTBRKC	PT205240
0832	24F4	525	S1R4	LIS	R15,4	PT205250
0834	4300 145C	526		B	ERROR	PT205260
		527	*			PT205270
0838	9F03	528	S1XINT	ACKR	R0,R3	PT205280
083A	9D25	529	S1T	SSR	R2,R5	PT205290
083C	C350 0020	530		THI	R5,X'20'	CHECK FOR BREAK KEY STATUS,,IF NOT
0840	4330 0832	531		BZ	S1R4	THEN PRINT ERROR 04
0844	0502	532		CLHR	R0,R2	PT205310
0846	203A	533		BNES	S1R4	PT205320
0848	C330 0020	534		THI	R3,X'20'	PT205330
084C	2230	535		BZS	S1R4	PT205340
084E	C8F0 085A	536		LHI	R15,S1END	PT205350
0852	40F0 1110	537		STH	R15,BUFR2+X'1E'	PT205360
0856	4300 14D8	538		B	TSTBRK12	PT205370
085A	4300 1494	539	S1END	B	NOERR	PT205380
		540			*****	PT205390
		541	*			PT205400
		542	*		THIS SUBJECT CHECKS THE	PT205410
		543	*			PT205420
						PT205430

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		544 *	LIST INSTRUCTIONS	AND	PT205440
		545 *			PT205450
		546 *	AUTOMATIC INPUT/OUTPUT CHANNEL		PT205460
		547 *			PT205470
		548 *	THIS SUBTEST WILL NOT WORK ON MODEL 74		PT205480
		549 *			PT205490
	0000 085E	550 SUBT2	EQU *		PT205500
085E	C880 0894	551 LHI	R11,T13A		PT205510
0862	C800 0400	552 S2	LHI R0,X'400'	SET UP THE LIST CALLED TABLE	PT205520
0866	4000 1592	553 STH	R0,TABLE	FOR A TOTAL OF 4 ENTRIES	PT205530
086A	2400	554 LIS	R0,0	ZERO OUT OTHER	PT205540
086C	2303	555 BS	SKIP		PT205550
086E	4030 1592	556 RESTORE	STH R3,TABLE		PT205560
0872	4000 1594	557 SKIP	STH R0,TABLE+2		PT205570
0876	4000 1594	558 STH	R0,TABLE+2		PT205580
087A	4000 1596	559 STH	R0,TABLE+4		PT205590
087E	4000 1598	560 STH	R0,TABLE+6		PT205600
0882	4000 159A	561 STH	R0,TABLE+8		PT205610
0886	4000 159C	562 STH	R0,TABLE+10		PT205620
		563 *			PT205630
088A	C200 088E	564 LPSW	T13		PT205640
088E	7C00	565 T13	DC X'7C00',T13B		PT205650
0890	0892				
0892	030B	566 T13B	BR R11		PT205660
		567 *			PT205670
0894	C800 145C	568 T13A	LHI R13,ERROR		PT205680
0898	24F1	569 LIS	R15,1		PT205690
089A	C800 0400	570 LHI	R0,X'400'	SET UP THE LIST CALLED TABLE	PT205700
089E	4000 1592	571 STH	R0,TABLE	FOR FOUR ENTRIES	PT205710
08A2	2400	572 LIS	R0,0	ZERO OTHER	PT205720
08A4	4000 1594	573 STH	R0,TABLE+2	CONTROL BYTES	PT205730
08A8	6730 1592	574 RBL	3,TABLE	LIST IS EMPTY	PT205740
08AC	034D	575 BFCR	4,R13	IS COND CODE V = 1	PT205750
08AE	6630 1592	576 RTL	R3,TABLE	YES	PT205760
08B2	034D	577 BFCR	4,R13	IS COND CODE V = 1	PT205770
08B4	2401	578 LIS	R0,1	YES, SET R0 TO 1	PT205780
08B6	6400 1592	579 ATL	R0,TABLE	SET TOP OF LIST = 1	PT205790
08BA	02F0	580 BTCR	X'F',R13	IS COND CODE C,V,G,L = 0	PT205800
08BC	2601	581 AIS	R0,1	R0 = 2 NOW	PT205810
08BE	6500 1592	582 ABL	R0,TABLE	ENTRY 2 = 2	PT205820
08C2	02F0	583 BTCR	X'F',R13	IS COND CODE C,V,G,L = 0	PT205830
08C4	2601	584 AIS	R0,1	R0 = 3 NOW	PT205840
08C6	6500 1592	585 ABL	R0,TABLE	ENTRY 3 = 3	PT205850
08CA	02FD	586 BTCR	X'F',R13	IS COND CODE C,V,G,L = 0	PT205860
08CC	2601	587 AIS	R0,1	R0 = 4 NOW	PT205870
08CE	6500 1592	588 ABL	R0,TABLE	ENTRY 4 = 4	PT205880
08D2	02FD	589 BTCR	X'F',R13	IS COND CODE C,V,G,L = 0	PT205890
		590 *			PT205900
08D4	D1C0 1596	591 CHEKTAB	LM R12,TABLE+4		PT205910
08D8	C5C0 0002	592 CLHI	R12,2		PT205920
08DC	213A	593 BNES	TAERR		PT205930
08DE	C500 0003	594 CLHI	R13,3		PT205940
08E2	2137	595 BNES	TAERR		PT205950
08E4	C5E0 0004	596 CLHI	R14,4		PT205960
08E8	2134	597 BNES	TAERR		PT205970

08EA	C5F0 0001	598	CLHI	R15,1	PT205980
08EE	2334	599	BES	CONTIN	PT205990
08F0	24F2	600	TAERR	LIS R15,X'2'	PT206000
08F2	4300 145C	601	B	ERROR	PT206010
		602	*		PT206020
		603	*	THE LIST IS NOW FULL , WITH FOUR ENTRIES	PT206030
		604	*		PT206040
		605	*	1.2.3.4 FROM TOP TO BOTTOM	PT206050
		606	*		PT206060
08F6	C8D0 145C	607	CONTIN	LHI R13,ERROR	PT206070
08FA	2601	608	AIS	R0,1	PT206080
08FC	6500 1592	609	ABL	R0,TABLE	PT206090
0900	034D	610	BFCR	X'4',R13	PT206100
0902	6400 1592	611	ATL	R0,TABLE	PT206110
0906	034D	612	BFCR	X'4',R13	PT206120
0908	6600 1592	613	RTL	R0,TABLE	PT206130
090C	032D	614	BFCR	X'2',R13	PT206140
090E	C500 0001	615	CLHI	R0,1	PT206150
0912	02FD	616	BTCR	X'F',R13	PT206160
0914	6700 1592	617	RBL	R0,TABLE	PT206170
0916	032D	618	BFCR	X'2',R13	PT206180
091A	C500 0004	619	CLHI	R0,4	PT206190
091E	02FD	620	BTCR	X'F',R13	PT206200
0920	6600 1592	621	RTL	R0,TABLE	PT206210
0924	032D	622	BFCR	2,R13	PT206220
0926	C500 0002	623	CLHI	R0,2	PT206230
092A	02FD	624	BTCR	X'F',R13	PT206240
092C	6700 1592	625	RBL	R0,TABLE	PT206250
0930	02FD	626	BTCR	X'F',R13	PT206260
0932	C500 0003	627	CLHI	R0,3	PT206270
0936	02FD	628	BTCR	X'F',R13	PT206280
		629	*		PT206290
		630	*	THE LIST IS NOW EMPTY	PT206300
		631	*		PT206310
0938	6700 1592	632	RBL	R0,TABLE	PT206320
093C	034D	633	BFCR	4,R13	PT206330
093E	6600 1592	634	RTL	R0,TABLE	PT206340
0942	034D	635	BFCR	4,R13	PT206350
0944	C8B0 0952	636	LHI	R11,CHRBL	PT206360
0948	2400	637	LIS	R0,0	PT206370
094A	C830 0400	638	LHI	R3,X'400'	PT206380
094E	4300 086E	639	B	RESTORE	PT206390
		640	*		PT206400
0952	2421	641	CHRBL	LIS R2,1	CHECK LIST WRAP CONDITION FOR RBL PT206410
0954	6420 1592	642	ATL	R2,TABLE	PT206420
0958	6720 1592	643	RBL	R2,TABLE	PT206430
095C	D310 1595	644	LB	R1,TABLE+3	PT206440
0960	C510 0003	645	CLHI	R1,3	PT206450
0964	2135	646	BNES	LIS400	PT206460
0966	C8B0 0978	647	LHI	R11,CHATL	PT206470
096A	4300 086E	648	B	RESTORE	PT206480
		649	*		PT206490
096E	24F3	650	LIS400	LIS R15,3	LIST WRAP ERROR ON RBL INSTRUCTION PT206500
0970	4300 145C	651	LIERR1	B	ERROR PT206510
0974	24F4	652	LIS401	LIS R15,4	LIST WRAP ERROR ON ATL INSTRUCTION PT206520

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0976	2203	653	BS	LIERR1		PT206530
		654 *				PT206540
0978	6420 1592	655	CHATL	ATL R2, TABLE	CHECK LIST WRAP CONDITION FOR ATL	PT206550
097C	D310 1594	656	LB	R1, TABLE+2		PT206560
0980	C510 0003	657	CLHI	R1,3		PT206570
0984	2038	658	BNES	LIS401		PT206580
0986	C8B0 0996	659	LHI	R11, CHRTL		PT206590
098A	C830 0402	660	LHI	R3, X'0402'		PT206600
098E	C800 0303	661	LHI	R0, X'0303'		PT206610
0992	4300 086E	662	B	RESTORE		PT206620
		663 *				PT206630
0996	6620 1592	664	CHRTL	RTL R2, TABLE	CHECK LIST WRAP CONDITION FOR RTL	PT206640
099A	D310 1594	665	LB	R1, TABLE+2		PT206650
099E	C510 0000	666	CLHI	R1,0		PT206660
09A2	2135	667	BNES	LIS040		PT206670
09A4	C8B0 09B6	668	LHI	R11, CHABL		PT206680
09A8	4300 086E	669	B	RESTORE		PT206690
		670 *				PT206700
09AC	24F5	671	LIS040	LIS R15,5	LIST WRAP ERROR ON RTL INSTRUCTION	PT206710
09AE	4300 145C	672	LIERR2	B ERROR		PT206720
09B2	24F6	673	LIS041	LIS R15,6	LIST WRAP ERROR ON ABL INSTRUCTION	PT206730
09B4	2203	674	BS	LIERR2		PT206740
		675 *				PT206750
09B6	6520 1592	676	CHABL	ABL R2, TABLE	CHECK LIST WRAP CONDITION FOR ABL	PT206760
09BA	D310 1595	677	LB	R1, TABLE+3		PT206770
09BE	C510 0000	678	CLHI	R1,0		PT206780
09C2	2036	679	BNES	LIS041	CONCLUSION OF LIST INSTRUCTION TEST	PT206790
		680 *				PT206800
09C4	C8A0 0400	681	LHI	R10, X'400'		PT206810
09C8	C8B0 0101	682	LHI	R11, X'0101'		PT206820
09CC	24C2	683	LIS	R12,2		PT206830
09CE	24D3	684	LIS	R13,3		PT206840
09D0	24E4	685	LIS	R14,4		PT206850
09D2	24F1	686	LIS	R15,1		PT206860
09D4	D0A0 1592	687	STM	R10, TABLE		PT206870
		688 *				PT206880
09D8	C800 3141	689	LHI	R0, C'1A'		PT206890
09DC	4500 1576	690	CLH	R0, CPUNO		PT206900
09E0	4330 1494	691	BE	NOERR		PT206910
		692 *				PT206920
		693 *		DMT NOT Q , CHAIN , CONTINUE		PT206930
		694 *				PT206940
09E4	C8C0 0A36	695	LHI	R12, S21G	CHAIN VALUE	PT206950
09E8	94D2	696	EXBR	R13, R2		PT206960
09EA	C8E0 A031	697	LHI	R14, X'A031'	1010, 0000, 0011, 0001	PT206970
09EE	24F0	698	LIS	R15,13		PT206980
09F0	D0C0 0D62	699	STM	R12, DMT-4		PT206990
09F4	D320 1585	700	LB	R2, OUTDEV	R2 = TTY ADDRESS	PT207000
09F8	0872	701	LHR	R7, R2	R1 = TTY ADDRESS	PT207010
09FA	9171	702	SLLS	R7,1		PT207020
09FC	CA70 00D0	703	AHI	R7, X'D0'	R1 = SERVICE POINTER FOR TTY	PT207030
0A00	C800 0D67	704	LHI	R0, DMT+1	STORE ADD. OF DMT+1	PT207040
0A04	4007 0000	705	STH	R0, 0(R7)	INTO THE SERVICE POINTER R1	PT207050
0A08	C200 0AAC	706	LPSW	S21C		PT207060
0AAC	7E00	707	S21C	DC X'7E00', S21D		PT207070

0A0E	0A10						
0A10	C840 0D9A	708	S21D	LHI	R4,S2BUF1		PT207080
0A14	2400	709		LIS	R0,0		PT207090
0A16	D350 158B	710		LB	R5,\$48	LOAD COMMAND BYTE	PT207100
0A1A	9E25	711		OCR	R2,R5	INTRPTS. ENABLED	PT207110
0A1C	9D23	712	S21E	SSR	R2,R3		PT207120
0A1E	2081	713		BTBS	8,1		PT207130
0A20	DA24 0000	714		WD	R2,0(R4)	WRITE TO TTY WITH INTERRUPTS	PT207140
0A24	2641	715		AIS	R4,1	ENABLED	PT207150
0A26	C540 0DA6	716		CLHI	R4,S2BUF1+12		PT207160
0A2A	2037	717		BNES	S21E		PT207170
		718	*				PT207180
0A2C	9D23	719	S21F	SSR	R2,R3		PT207190
0A2E	2081	720		BTBS	8,1		PT207200
0A30	24F7	721	S2R1	LIS	R15,7		PT207210
0A32	4300 145C	722		B	ERROR		PT207220
0A36	0000	723	S21G	DC	0	OLD PSW	PT207230
0A38	0000	724		DC	0	OLD PSW	PT207240
0A3A	0000	725		DC	0	NEW PSW	PT207250
0A3C	4800 0D68	726		LH	R0,DMT+2	COUNT MUST BE ZERO	PT207260
0A40	4230 0A30	727		BNZ	S2R1		PT207270
0A44	4800 0D66	728		LH	R0,DMT		PT207280
0A48	C500 2031	729		CLHI	R0,X'2031'		PT207290
0A4C	203E	730		BNES	S2R1		PT207300
0A4E	C8C0 0A36	731		LHI	R12,S21G		PT207310
0A52	45C7 0000	732		CLH	R12,0(R7)	CHAIN VALUE AT 0(R7)	PT207320
0A56	4230 0A30	733		BNE	S2R1		PT207330
0A5A	6700 1592	734		RBL	R0,TABLE		PT207340
0A5E	4340 0A30	735		BFC	4,S2R1		PT207350
0A62	9D23	736	S21H	SSR	R2,R3	NOT Q SO LIST MUST BE MT	PT207360
0A64	2081	737		BTBS	8,1	WAIT UNTIL THE LAST CHAR.	
		738	*			IS PRINTED ON THE TTY	PT207370
0A66	C800 0D73	739		LHI	R0,CCW1+1	RESTORE SERVICE POINTER	PT207380
0A6A	4007 0000	740		STH	R0,0(R7)		PT207390
		741	*				PT207400
		742	*			SET UP CCW1 TO PRINT 1234567890 AND CR,LF	PT207410
		743	*				PT207420
		744	*			NOT G , CHAIN , CONTINUE	PT207430
		745	*				PT207440
		746	S22	LHI	R10,S22D	CHAIN VALUE	PT207450
0A72	94B2	747		EX8R	R11,R2	R11 = TTY ADR. , 0	PT207460
0A74	C8C0 9431	748		LHI	R12,X'9431'	1001,0100,0011,0001	PT207470
0A78	C8D0 0D9A	749		LHI	R13,S2BUF1	Q	PT207480
0A7C	C8E0 0DA5	750		LHI	R14,S2BUF1+11		PT207490
0A80	D3F0 158B	751		LB	R15,\$48	LOAD COMMAND BYTE	PT207500
0A84	91F8	752		SLLS	R15,8		PT207510
0A86	C6F0 000A	753		OHI	R15,X'0A'		PT207520
0A8A	D0A0 0D6E	754		STM	R10,CCW1-4		PT207530
0A8E	C200 0A92	755		LPSW	S22B		PT207540
0A92	7E00	756	S22B	DC	X'7E00',S22A		PT207550
0A94	0A96						PT207560
0A96	E202 0000	757	S22A	SINT	0(R2)		PT207570
0A9A	41E0 1394	758		BAL	R14,CIDEL		PT207580
		759	*				PT207590
0A9E	24F8	760	S2R2	LIS	R15,8		PT207600

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0AA0	4300 145C	761	B	ERROR	PT207610
0AA4	0000	762	S22D	DC 0	PT207620
0AA6	0000	763		DC 0	PT207630
0AA8	0000	764		DC 0	PT207640
0AAA	4300 0AB2	765	TERM3	B S2D	PT207650
0AAE	C8B0 0210	766		LHI R11,X'210'	PT207660
	0000 0AB2	767	S2D	EQU *	PT207670
0AB2	45B0 0D70	768		CLH R11,CCW1-2	CHECK DEV.NO. AND STATUS PT207680
0AB6	203C	769		BNES S2R2	PT207690
0AB8	C800 5431	770		LHI R0,X'5431'	PT207700
0ABC	4500 0D72	771		CLH R0,CCW1	PT207710
0AC0	4230 0A9E	772		BNE S2R2	PT207720
0AC4	C8E0 0DA6	773		LHI R14,S2BUF1+12	PT207730
0AC8	45E0 0D74	774		CLH R14,CCW1+2	PT207740
0ACC	4230 0A9E	775		BNE S2R2	PT207750
0AD0	D320 1585	776		LB R2,OUTDEV	PT207760
0AD4	9D23	777	S22E	SSR R2,R3	PT207770
0AD6	2081	778		BTBS 8,1	PT207780
0AD8	6600 1592	779		RTL R0,TABLE	NO QUEUED SO LIST MUST BE MT PT207790
0ADC	4340 0A9E	780		BFC 4,S2R2	PT207800
		781	*		PT207810
		782	*	SET UP CCW1 TO PRINT 123456789 AND CR LF	PT207820
		783	*		PT207830
		784	*	QUEUE * NOT CHAIN * NOT CONTINUE	PT207840
		785	*		PT207850
0AE0	C800 0C73	786		LHI R0,CCW1+1	PT207860
0AE4	4007 0000	787		STH R0,0(R7)	R7 = X'D0' + 2(OUTDEV) PT207870
0AE8	C8A0 0B28	788	S23	LHI R10,S23D	CHAIN VALUE PT207880
		789	*	*	R11 = OUTDEV. , 0 PT207890
		790		LHI R12,X'9681'	1001,0110,1000,0001 PT207900
0AF0	C8D0 0D9A	791		LHI R13,S2BUF1	PT207910
0AF4	C8E0 0DA7	792		LHI R14,S2BUF1+13	PT207920
0AF8	D3F0 1586	793		LB R15,\$48	LOAD COMMAND BYTE PT207930
0AFC	91F8	794		SLLS R15,8	PT207940
0AFE	C6F0 00FF	795		OHI R15,X'FF'	PT207950
0B02	D0A0 0D6E	796		STM R10,CCW1-4	PT207960
0B06	C800 0B30	797		LHI R0,S23E	Q TERM. INTRPT. TO S23E PT207970
0B0A	4000 0086	798		STH R0,X'88'	PT207980
0B0E	4200 0000	799		NOP	PT207990
0B12	C200 0B16	800		LPSW S23A	PT208000
0B16	7E00	801	S23A	DC X'7E00',S23A2	PT208010
0B18	0B1A				
0B1A	E202 0000	802	S23A2	SINT 0(R2)	PT208020
0B1E	41E0 1394	803		BAL R14,CIDEL	PT208030
0B22	24F9	804	S2R3	LIS R15,9	PT208040
0B24	4300 145C	805		B ERROR	PT208050
0B28	0000	806	S23D	DC 0	PT208060
0B2A	0000	807		DC 0	PT208070
0B2C	0000	808		DC 0	PT208080
0B2E	2206	809		BS S2R3	PT208090
	0000 0B30	810	S23E	EQU *	PT208100
	0000 0B30	811	TERM4	EQU *	PT208110
0B30	2303	812		BS S23E1	PT208120
0B32	C8B0 0210	813		LHI R11,X'210'	PT208130
0B36	45B0 0D70	814	S23E1	CLH R11,CCW1-2	PT208140

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0B3A	203C	815	BNES	S2R3	PT208150	
0B3C	C800 5681	816	LHI	R0,X'5681'	PT208160	
0B40	4500 0072	817	CLH	R0,CCW1	PT208170	
0B44	4230 0B22	818	BNE	S2R3	PT208180	
0B48	C8E0 00A7	819	LHI	R14,S2BUF1+13	PT208190	
0B4C	45E0 0074	820	CLH	R14,CCW1+2	PT208200	
0B50	4230 0B22	821	BNE	S2R3	PT208210	
0B54	6700 1592	822	KBL	R0,TABLE	PT208220	
0B58	42F0 0B22	823	BTC	X'F',S2R3	PT208230	
0B5C	C500 0072	824	CLHI	R0,CCW1	PT208240	
0B60	4230 0B22	825	BNE	S2R3	PT208250	
0B64	4500 1596	826	CLH	R0,TABLE+4	PT208260	
0B68	4230 0B22	827	BNE	S2R3	PT208270	
0B6C	D320 1585	828	LB	R2,OUTDEV	PT208280	
0B70	9023	829	SSR	R2,R3	PT208290	
0B72	2081	830	BTBS	8,1	PT208300	
		831	*		PT208310	
		832	*	SET UP CCW1 TO PRINT	PT208320	
		833	*		PT208330	
		834	*	TOTAL CHAR. = 3	PT208340	
		835	*		PT208350	
		836	*	TERM. CHAR. = LF	PT208360	
		837	*		PT208370	
		838	*	QUEUE ,HI/LO = 1,CHAIN,CONTINUE	PT208380	
		839	*		PT208390	
0B74	C800 0073	840	S24	LHI R0,CCW1+1	PT208400	
0B78	4007 0000	841	STH	R0,0(R7)	PT208410	
		842	*		PT208420	
0B7C	C8A0 0BCE	843	LHI	R10,S24IN	PT208430	
0B80	9482	844	EXBR	R11,R2	PT208440	
0B82	C8C0 9731	845	LHI	R12,X'9731'	1001,0111,0011,0001	PT208450
0B86	C800 009A	846	LHI	R13,S2BUF1	STARTING ADDRESS	PT208460
0B8A	C8E0 0D9C	847	LHI	R14,S2BUF1+2	ENDING ADDRESS(OF NUM. 3)	PT208470
0B8E	D3F0 158B	848	LB	R15,\$48	LOAD COMMAND BYTE	PT208480
0B92	91F8	849	SLLS	R15,8	PT208490	
0B94	C6F0 000A	850	OHI	R15,X'0A'	PT208500	
0B98	D0A0 0D6E	851	STM	R10,CCW1-4	PT208510	
		852	*		PT208520	
0B9C	D360 158E	853	LB	R6,\$66	PT208530	
0BA0	D320 1586	854	LB	R2,INDEV	PT208540	
0BA4	9E26	855	OCR	R2,R6	PT208550	
0BA6	9D23	856	S24B	SSR R2,R3	PT208560	
0BA8	2281	857	BFBS	8,1	PT208570	
		858	*		PT208580	
0BAA	C800 0BD6	859	LHI	R0,S24D	PT208590	
0BAE	4000 0088	860	STH	R0,X'88'	PT208600	
0BB2	D320 1585	861	LB	R2,OUTDEV	PT208610	
0BB6	9F00	862	ACKR	R0,R0	PT208620	
0BBC	C200 0BBC	863	LPSW	S24P	PT208630	
0BBC	7E00	864	S24P	DC X'7E00',S24P4	PT208640	
0B8E	0BC0					
0BC0	E202 0000	865	S24P4	SINT 0(R2)	PT208650	
0BC4	41E0 1394	866	BAL	R14,CIDEL	PT208660	
0BC8	24FA	867	S2R4	LIS R15,X'A'	PT208670	
0BCA	4300 145C	868	B	ERROR	PT208680	

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0BCE	0000	869	S24IN	DC	0	PT208690	
0BD0	0000	870		DC	0	PT208700	
0BD2	0000	871		DC	0	PT208710	
0BD4	2206	872		BS	S2R4	PT208720	
0BD6	4600 0D70	873	S24D	LH	R0,CCW1-2	PT208730	
0BD8	4810 157E	874		LH	R1,CRTFLG	PT208740	
0BDE	233A	875		BZS	TERMS	PT208750	
0BE0	D310 1585	876		LB	R1,OUTDEV	PT208760	
0BE4	9118	877		SLLS	R1,8	PT208770	
0BE6	C610 0008	878		OHI	R1,X'8'	PT208780	
0BEA	0501	879		CLHR	R0,R1	PT208790	
0BEC	4230 0BC8	880		BNE	S2R4	PT208800	
0BF0	2305	881		BS	S25	PT208810	
0BF2	C500 0208	882	TERMS	CLHI	R0,X'208'	PT208820	
0BF6	4230 0BC8	883		BNE	S2R4	PT208830	
		884	*			PT208840	
		885	*	SET UP CCW1 TO PRINT ON TTY		PT208850	
		886	*			PT208860	
		887	*	KEEP TTY BUSY SO COMMAND IS ABORTED		PT208870	
		888	*			PT208880	
		889	*	KEEP THE LIST FULL SO ONE MORE ENTRY CAUSES OVERFLOW		PT208890	
		890	*			PT208900	
		891	*	TAKE TERMINATION QUEUE-OVERFLO INTERRUPT		PT208910	
		892	*			PT208920	
0BFA	C800 0404	893	S25	LHI	R0,X'404'	FILL UP THE LIST	PT208930
0BFE	4000 1592	894		STH	R0,TABLE		PT208940
0C02	C8A0 0C52	895		LHI	R10,S25INT		PT208950
0C06	D3B0 1585	896		LB	R11,OUTDEV	(DUMMY INDEX REGISTER)	PT208960
0C0A	C8C0 9731	897		LHI	R12,X'9731'	Q,CHN.,NO OUTCMND.	PT208970
0C0E	C8D0 0D9A	898		LHI	R13,S2BUF1		PT208980
0C12	C8E0 0DA6	899		LHI	R14,S2BUF1+12		PT208990
0C16	D3F0 1588	900		LB	R15,\$48	LOAD COMMAND BYTE	PT209000
0C1A	91F8	901		SLLS	R15,8		PT209010
0C1C	C6F0 000A	902		OHI	R15,X'0A'		PT209020
0C20	D0A0 0D72	903		STM	R10,CCW1		PT209030
0C24	D310 158C	904		LB	R1,\$44		PT209040
0C28	9E21	905		OCR	R2,R1		PT209050
0C2A	9D23	906	S25C	SSR	R2,R3	WAINT UNTIL TTY IS BUSY	PT209060
0C2C	2281	907		BFBS	8,1		PT209070
0C2E	C800 0C5E	908		LHI	R0,S25INK	Q OVERFLO ADD.	PT209080
0C32	4000 0092	909		STH	R0,X'92'		PT209090
0C36	C800 0D73	910		LHI	R0,CCW1+1		PT209100
0C3A	4007 0000	911		STH	R0,0(R7)		PT209110
0C3E	C200 0C42	912		LPSW	S25D		PT209120
0C42	7CJ0	913	S25D	DC	X'7C00',S25E		PT209130
0C44	0C46						
0C46	E202 0000	914	S25E	SINT	0(R2)		PT209140
0C4A	D310 158C	915		LB	R1,\$44	LOAD COMMAND BYTE	PT209150
0C4E	9E21	916		OCR	R2,R1		PT209160
0C50	2304	917		BS	S2R5		PT209170
0C52	0000	918	S25INT	DC	0		PT209180
0C54	0000	919		DC	0		PT209190
0C56	0000	920		DC	0		PT209200
0C58	24FB	921	S2R5	LIS	R15,X'B'		PT209210
0C5A	4300 145C	922		B	ERROR		PT209220

		923 *		PT209230
		924 *	QUEUE OVERFLO INTERRUPT DETECTED	PT209240
		925 *		PT209250
0C5E	C800 7C00	926 S25INK	LHI R0,X'7C00'	PT209260
0C62	4500 008C	927	CLH R0,X'8C'	PT209270
0C66	2037	928	BNES S2R5	PT209280
0C68	4800 0D70	929	LH R0,CCW1-2	PT209290
0C6C	C400 0008	930	NHI R0,8	PT209300
0C70	223C	931	BZS S2R5	PT209310
0C72	2410	932	LIS R1,0	RESET COND. CODE PT209320
0C74	9500	933	EPSR R0,R0	PT209330
0C76	203F	934	BNZS S2R5	PT209340
		935 *		PT209350
		936 *	RESTORE OVRFL0 ADD. FOR ERROR MESSAGE	PT209360
		937 *		PT209370
0C78	C800 0400	938	LHI R0,X'400'	PT209380
0C7C	4000 1592	939	STH R0,TABLE	RESET TABLE PT209390
0C80	C800 1446	940	LHI R0,QVRFLO	PT209400
0C84	4000 0092	941	STH R0,X'92'	PT209410
		942 *		PT209420
		943 *	SET UP CCW1 TO READ 10 KEYS FROM TTY KEYBOARD	PT209430
		944 *		PT209440
		945 *	NOT Q , CHAIN , CONTINUE	PT209450
		946 *		PT209460
	0000 0C88	947 S26	EQU *	PT209470
0C88	D320 1586	948	LB R2,INDEV	PT209480
0C8C	D180 10AA	949	LM R11,BUFR0	PT209490
0C90	D0B0 0DAC	950	STM R11,S2INBF	S2INBF = 0 PT209500
0C94	C800 0D73	951	LHI R0,CCW1+1	PT209510
0C98	4007 0000	952	STH R0,0(R7)	PT209520
0C9C	C8A0 0D1A	953	LHI R10,S26IN	CHAIN VALUE PT209530
0CA0	94B2	954	EXBR R11,R2	PT209540
0CA2	C8C0 84B1	955	LHI R12,X'84B1'	1000,0100,1011,0001 PT209550
0CA6	C8D0 00AC	956	LHI R13,S2INBF	PT209560
0CAA	C8E0 0DB5	957	LHI R14,S2NBFD	PT209570
0CAE	D3F0 158F	958	LB R15,\$64	LOAD COMMAND BYTE PT209580
0CB2	91F8	959	SLLS R15,8	PT209590
0CB4	C6F0 0030	960	OHI R15,X'30'	PT209600
0CB8	D0A0 0D6E	961	STM R10,CCW1-4	PT209610
0CBC	D320 1585	962	LB R2,OUTDEV	PT209620
0CC0	DE20 1578	963	OC R2,OUTCMD	PT209630
0CC4	C840 0DBC	964	LHI R4,S26MSG	PRINT CHARACTERS PT209640
0CC8	C850 0DD7	965	LHI R5,S26MSD	DEPRESS KEYS PT209650
JCCC	9D23	966 S26C	SSR R2,R3	1234567890 PT209660
0CCE	2081	967	BTBS 8,1	PT209670
0CD0	9624	968	WBR R2,R4	PT209680
0CD2	D320 1585	969	LB R2,OUTDEV	PT209690
0CD6	0872	970	LHR R7,R2	PT209700
0CD8	9171	971	SLLS R7,1	PT209710
0CDA	CA70 0000	972	AHI R7,X'D0'	PT209720
0CDE	C800 144E	973	LHI R0,DEVERR	PT209730
0CE2	4007 0000	974	STH R0,0(R7)	PT209740
0CE6	D320 1586	975	LB R2,INDEV	PT209750
0CEA	0872	976	LHR R7,R2	PT209760
0CEC	9171	977	SLLS R7,1	PT209770

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0CEE	CA70 0000	978	AHI	R7,X'00'	PT209780	
0CF2	C800 0D73	979	LHI	R0,CCW1+1	PT209790	
0CF6	4007 0000	980	STH	R0,0(R7)	PT209800	
0CFA	D310 158F	981	LB	R1,\$64	PT209810	
0CFE	9E21	982	OCR	R2,R1	PT209820	
0D00	9D23	983	S26D	SSR	R2,R3	PT209830
0D02	2281	984	BF8S	B,1	PT209840	
0D04	C200 0D08	985	LPSw	S26E	PT209850	
0D08	7C00	986	S26E	DC	X'7C00',S26F	PT209860
0D0A	0D0C					
0D0C	E202 0000	987	S26F	SINT	0(R2)	PT209870
0D10	41F0 14B6	988	BAL	R15,TSTBRKC	PT209880	
0D14	24FC	989	S2R6	LIS	R15,X'C'	PT209890
0D16	4300 145C	990	B	ERROR	PT209900	
		991	*		PT209910	
0D1A	0000	992	S26IN	DC	0	PT209920
0D1C	0000	993		DC	0	PT209930
0D1E	0000	994		DC	0	PT209940
0D20	D100 0DAC	995	LM	R0,S2INBF	PT209950	
0D24	C400 7F7F	996	NHI	R0,X'7F7F'	PT209960	
0D28	C500 3132	997	CLHI	R0,C'12'	PT209970	
0D2C	203C	998	BNES	S2R6	PT209980	
0D2E	C410 7F7F	999	NHI	R1,X'7F7F'	PT209990	
0D32	C510 3334	1000	CLHI	R1,C'34'	PT210000	
0D36	4230 0D14	1001	BNE	S2R6	PT210010	
0D3A	C420 7F7F	1002	NHI	R2,X'7F7F'	PT210020	
0D3E	C520 3536	1003	CLHI	R2,C'56'	PT210030	
0D42	4230 0D14	1004	BNE	S2R6	PT210040	
0D46	C430 7F7F	1005	NHI	R3,X'7F7F'	PT210050	
0D4A	C530 3738	1006	CLHI	R3,C'78'	PT210060	
0D4E	4230 0D14	1007	BNE	S2R6	PT210070	
0D52	C440 7F7F	1008	NHI	R4,X'7F7F'	PT210080	
0D56	C540 3930	1009	CLHI	R4,C'90'	PT210090	
0D5A	4230 0D14	1010	BNE	S2R6	PT210100	
0D5E	4300 1494	1011	B	NOERR	PT210110	
		1012	*		PT210120	
		1013	*		PT210130	
		1014	*	SUBTEST 2 DATA CONSTANTS	PT210140	
		1015	*		PT210150	
		1016	*		PT210160	
0D62	0000	1017	DC	0	CHAIN VALUE	PT210170
0D64	0000	1018	DC	0	DEV. = TTY , STATUS	PT210180
0D66	A0B1	1019	DMT	DC	X'A0B1'	PT210190
0D68	0000	1020	DC	0	TOTAL COUNT =	PT210200
0D6A	0000	1021	DC	0	DUMMY HW	PT210210
0D6C	0000	1022	DC	0	DUMMY	PT210220
0D6E	0000	1023	DC	0	CHAIN VALUE	PT210230
0D70	0000	1024	DC	0	DEV.NO. , FINAL STATUS	PT210240
0D72	0000	1025	CCW1	DC	C.C.WORD 1	PT210250
0D74	0000	1026	DC	0	START ADR.	PT210260
0D76	0000	1027	DC	0	END ADR.	PT210270
0D78	0000	1028	DC	0	CMND. BYTE , TERM.CHAR.	PT210280
0D7A	0000	1029	DC	0	DUMMY	PT210290
		1030	*			PT210300
0D7C	0000	1031	DC	0	CHAIN VALUE	PT210310

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0D7E	0000	1032	CCW2	DC	0	DEV. NO. , FINAL STATUS	PT210320
0D80	0000	1033		DC	0	C.C.WORD 2	PT210330
0D82	0000	1034		DC	0	START ADR.	PT210340
0D84	0000	1035		DC	0	END ADR.	PT210350
0D86	0000	1036		DC	0	CMND. BYTE , TERM. CHAR.	PT210360
0D88	0000	1037		DC	0	DUMMY	PT210370
		1038	*				PT210380
0D8A	0000	1039		DC	0	CHAIN VALUE	PT210390
0D8C	0000	1040		DC	0	DEV. NO. , STATUS	PT210400
0D8E	0000	1041	CCW3	DC	0	COMMAND WORD	PT210410
0D90	0000	1042		DC	0	STARTING ADDRESS	PT210420
0D92	0000	1043		DC	0	END ADDRESS	PT210430
0D94	0000	1044		DC	0	COMND. BYTE , TERM. CHAR.	PT210440
0D96	0000	1045		DC	0	DUMMY	PT210450
		1046	*				PT210460
0D98	4142	1047		DC	C'AB'		PT210470
0D9A	3132	1048	S28UF1	DC	C'12'		PT210480
0D9C	3334	1049		DC	C'34'		PT210490
0D9E	3536	1050		DC	C'56'		PT210500
0DA0	3738	1051		DC	C'78'		PT210510
0DA2	3930	1052		DC	C'90'		PT210520
0DA4	0D0A	1053		DC	X'D0A'		PT210530
0DA6	FFFF	1054		DCX	FFFF		PT210540
0DA8	4344	1055		DC	C'CD'		PT210550
		1056	*				PT210560
		1057	*				PT210570
0DAE	0000	1058		DC	0		PT210580
0DAF	0000	1059	S2INAF	DC	0		PT210590
0DAE	0000	1060		DC	0		PT210600
0DB0	0000	1061		DC	0		PT210610
0DB2	0000	1062		DC	0		PT210620
0DB4	0000	1063		DC	0		PT210630
	0000 0DB5	1064	S2NBFD	EQU	*-1		PT210640
0DB6	0000	1065		DC	0		PT210650
		1066	*				PT210660
0DB8	0DBC	1067	WBSTRT	DC	S26MSG		PT210670
0DBA	0DD7	1068		DC	S26MSD		PT210680
	0000 0DBC	1069	S26MSG	EQU	*		PT210690
0DBC	4445 5052 4553 5320	1070		DC	C'DEPRESS KEYS'		PT210700
0DC4	4B45 5953						
0DC8	0D0A	1071		DC	X'D0A'		PT210710
0DCA	3132 3334 3536 3738	1072		DC	C'1234567890'		PT210720
0DD2	3930						
0DD4	0D0A	1073		DC	X'D0A'		PT210730
0DD6	FFFF	1074		DCX	FFFF		PT210740
	0000 0DD7	1075	S26MSD	EQU	*-1		PT210750
		1076	*				PT210760
		1077	*****				PT210770
		1078	*				PT210780
		1079	*	TEST 3			PT210790
		1080	*				PT210800
		1081	*	THIS TEST EXERCISES THE BINARY DISPLAY PANEL			PT210810
		1082	*				PT210820
		1083	*				PT210830
0DD8	C800 0041	1084	SUBT3	LHI	R0,C'A'	PRINTA	PT210840

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0DDC	D320 1585	1085	LB	R2,OUTDEV	PT210850
0DE0	41E0 140A	1086	BAL	R14,WRITE1	PT210860
		1087 *			PT210870
0DE4	2411	1088 S31	LIS	R1,1	PT210880
0DE6	C880 0080	1089	LHI	R8,X*80'	PT210890
0DEA	9E18	1090	OCR	R1,R8	PT210900
0DEC	9D14	1091 S31A	SSR	R1,R4	PT210910
0DEE	9A14	1092	WDR	R1,R4	PT210920
0DF0	C890 0E02	1093	LHI	R9,S32	PT210930
0DF4	41E0 136E	1094	BAL	R14,BIDEL	PT210940
0DF8	DA10 0F12	1095	WD	R1,ZERO	PT210950
0DFC	41E0 136E	1096	BAL	R14,BIDEL	PT210960
0E00	220A	1097	BS	S31A	PT210970
		1098 *			PT210980
0E02	C800 0042	1099 S32	LHI	R0,C*B*	PT210990
0E06	41E0 140A	1100	BAL	R14,WRITE1	PT211000
0E0A	9914	1101 S32B	RHR	R1,R4	PT211010
0E0C	9814	1102	WHR	R1,R4	PT211020
0E0E	C890 0E20	1103	LHI	R9,S33	PT211030
0E12	41E0 136E	1104	BAL	R14,BIDEL	PT211040
0E16	D810 0F12	1105	WH	R1,ZERO	PT211050
0E1A	41E0 136E	1106	BAL	R14,BIDEL	PT211060
0E1E	220A	1107	BS	S32B	PT211070
		1108 *			PT211080
0E20	C800 0043	1109 S33	LHI	R0,C*C'	PT211090
0E24	41E0 140A	1110	BAL	R14,WRITE1	PT211100
0E28	C890 0040	1111 S33A	LHI	R9,X*40'	PT211110
0E2C	9E19	1112	OCR	R1,R9	PT211120
0E2E	9B14	1113	RDR	R1,R4	PT211130
0E30	9B15	1114	RDR	R1,R5	PT211140
0E32	9E19	1115	OCR	R1,R9	PT211150
0E34	9A14	1116	WDR	R1,R4	PT211160
0E36	9A15	1117	WDR	R1,R5	PT211170
0E38	9A14	1118	WDR	R1,R4	PT211180
0E3A	9A15	1119	WDR	R1,R5	PT211190
0E3C	C890 0E5E	1120	LHI	R9,S34	PT211200
0E40	41E0 136E	1121	BAL	R14,BIDEL	PT211210
0E44	C890 0040	1122	LHI	R9,X*40'	PT211220
0E48	9E19	1123	OCR	R1,R9	PT211230
0E4A	D810 0F12	1124	WH	R1,ZERO	PT211240
0E4E	D810 0F12	1125	WH	R1,ZERO	PT211250
0E52	C890 0E5E	1126	LHI	R9,S34	PT211260
0E56	41E0 136E	1127	BAL	R14,BIDEL	PT211270
0E5A	4300 0E28	1128	B	S33A	PT211280
		1129 *			PT211290
0E5E	C800 0044	1130 S34	LHI	R0,C*D'	PT211300
0E62	41E0 140A	1131	BAL	R14,WRITE1	PT211310
0E66	C890 0040	1132 S34A	LHI	R9,X*40'	PT211320
0E6A	9E19	1133	OCR	R1,R9	PT211330
0E6C	9B14	1134	RDR	R1,R4	PT211340
0E6E	9A14	1135	WDR	R1,R4	PT211350
0E70	C890 0E92	1136	LHI	R9,S35	PT211360
0E74	41E0 136E	1137	BAL	R14,BIDEL	PT211370
0E78	C890 0040	1138	LHI	R9,X*40'	PT211380
0E7C	9E19	1139	OCR	R1,R9	PT211390

0E7E	DA10 0F12	1140	WD	R1,ZERO	PT211400	
0E82	DA10 0F12	1141	WD	R1,ZERO	PT211410	
0E86	C890 0E92	1142	LHI	R9,S35	PT211420	
0E8A	41E0 136E	1143	BAL	R14,BIDEL	PT211430	
0E8E	4300 0E66	1144	B	S34A	PT211440	
		1145 *			PT211450	
0E92	C800 0045	1146 S35	LHI	R0,C'E'	PRINT E	PT211460
0E96	41E0 140A	1147	BAL	R14,WRITE1	PT211470	
0E9A	C890 0040	1148 S35A	LHI	R9,X'40'	PT211480	
0E9E	9E19	1149	OCR	R1,R9	CONSOLE IN INCRE. MODE	PT211490
0EA0	9914	1150	RHR	R1,R4	PT211500	
0EA2	9915	1151	RHR	R1,R5	PT211510	
0EA4	DE10 0009	1152	OC	R1,R9	PT211520	
0EA8	9814	1153	WHR	R1,R4	PT211530	
0EAA	9815	1154	WHR	R1,R5	PT211540	
0EAC	C890 0ECE	1155	LHI	R9,S36	PT211550	
0EB0	41E0 136E	1156	BAL	R14,BIDEL	PT211560	
0E84	C890 0040	1157	LHI	R9,X'40'	PT211570	
0EB8	9E19	1158	OCR	R1,R9	PT211580	
0EBA	C810 0F12	1159	WH	R1,ZERO	PT211590	
0E8E	D810 0F12	1160	WH	R1,ZERO	PT211600	
0EC2	C890 0ECE	1161	LHI	R9,S36	PT211610	
0EC6	41E0 136E	1162	BAL	R14,BIDEL	PT211620	
0ECA	4300 0E9A	1163	B	S35A	PT211630	
0ECE	C800 0046	1164 S36	LHI	R0,C'F'	PRINT F	PT211640
0ED2	41E0 140A	1165	BAL	R14,WRITE1	PT211650	
0ED6	C860 0F0E	1166 S36C	LHI	R6,S3BUF	PT211660	
0EDA	C870 0F11	1167	LHI	R7,S3BUF+3	PT211670	
0EDE	C680 0080	1168	LHI	R8,X'80'	PT211680	
0EE2	9E18	1169 S36B	OCR	R1,R8	CONSOLE IN NORMAL MODE	PT211690
0EE4	9716	1170	RBR	R1,R6	CONSOLE SWITCHES INTO S3BUF	PT211700
0EE6	9616	1171	WBR	R1,R6	PT211710	
0EE8	C890 0F0A	1172	LHI	R9,S3END	PT211720	
0EEC	41E0 136E	1173	BAL	R14,BIDEL	PT211730	
0EF0	C890 0040	1174	LHI	R9,X'40'	PT211740	
0EF4	9E19	1175	OCR	R1,R9	PT211750	
0EF6	D810 0F12	1176	WH	R1,ZERO	PT211760	
0EFA	D810 0F12	1177	WH	R1,ZERO	PT211770	
0EFE	C890 0F0A	1178	LHI	R9,S3END	PT211780	
0F02	41E0 136E	1179	BAL	R14,BIDEL	PT211790	
0F06	4300 0ED6	1180	B	S36C	PT211800	
		1181 *			PT211810	
0F0A	4300 05E8	1182 S3END	B	RETRY	PT211820	
0F0E	0000	1183 S3BUF	DC	0	PT211830	
0F10	0000	1184	DC	0	PT211840	
0F12	0000	1185 ZERO	DC	0	PT211850	
		1186 *****			PT211860	
	0000 0F14	1187 SUBT4	EGU	*	PT211870	
		1188 *	THIS SUBTEST CHECKS INITIALIZE/POWER FAIL/AUTO RESTART		PT211880	
		1189 *	MACHINE MALFUNCTION INTERRUPT IS DISABLED.		PT211890	
		1190 *			PT211900	
0F14	2400	1191	LIS	R0,0	PT211910	
0F16	4000 1112	1192	STH	R0,S4MM	S4MM = 0 : MMINT DISABLED	PT211920
0F1A	C200 0F1E	1193	LPSW	S4A	PT211930	
0F1E	5C00	1194 S4A	DC	X'5C00',S45B	PT211940	

0F20	0F30	1195	*	PT211950		
		1196	*	PT211960		
		1197	*****	PT211970		
	0000 0F22	1198	SUBT5 EQU *	PT211980		
		1199	* THIS SUBTEST CHECKS INITIALIZE/POWER FAIL/AUTO RESTART	PT211990		
		1200	* MACHINE MALFUNCTION INTERRUPT IS ENABLED.	PT212000		
		1201	*	PT212010		
		1202	* NOTE: THIS TEST CAN BE RUN ONLY IF PROCESSOR IS EQUIPPED	PT212020		
		1203	* WITH AUTO-RESTART.	PT212030		
		1204	*	PT212040		
0F22	2501	1205	LCS R0,1	PT212050		
0F24	4000 1112	1206	STH R0,S4MM	S4MM = FFFF : MMINT ENABLED.	PT212060	
0F28	C200 0F2C	1207	LPSW S5A	PT212070		
0F2C	7C00	1208	S5A DC X'7C00',S45B	PT212080		
0F2E	0F30	1209	*	PT212090		
		1210	*	PT212100		
		1211	*	PT212110		
0F30	C800 0FFC	1212	S45B LHI R0,S4INT	PT212120		
0F34	4000 003E	1213	STH R0,X'3E'	MMINT NEW PSW LOC	PT212130	
0F38	C800 10F2	1214	LHI R0,BUFR2	PT212140		
0F3C	4000 0022	1215	STH R0,X'22'	PPF REGISTER SAVE POINTER	PT212150	
0F40	D100 10AA	1216	LM R0,BUFR0	ALL REGS = 0	PT212160	
0F44	D000 10F2	1217	STM R0,BUFR2	INITIALIZE SAVE AREA	PT212170	
0F48	4000 0024	1218	STH R0,X'24'	CURRENT PSW PPF SAVE AREA	PT212180	
0F4C	4000 0026	1219	STH R0,X'26'	CURRENT PSW PPF SAVE AREA	PT212190	
0F50	4000 0038	1220	STH R0,X'38'	MMINT OLD PSW STATUS	PT212200	
0F54	4000 003A	1221	STH R0,X'3A'	MMINT OLD PSW LOC	PT212210	
0F58	4000 003C	1222	STH R0,X'3C'	MMINT NEW PSW STATUS	PT212220	
0F5C	D320 1585	1223	*	PT212230		
0F60	C840 1558	1224	S45C LB R2,OUTDEV	PT212240		
0F64	C850 1573	1225	LHI R4,PRESS	PT212250		
0F68	9624	1226	LHI R5,BRK	PT212260		
		1227	WBR R2,R4	'PRESS INIT PRESS BRK'	PT212270	
		1228	*	PT212280		
0F6A	D100 10CA	1229	LM R0,BUFR1	SET SINGLE BIT IN EACH REGISTER	PT212290	
0F6E	41F0 1052	1230	S4B BAL R15,CMPARE	CHECK REGISTERS	PT212300	
0F72	2334	1231	BES S4B4		PT212310	
		1232	*	PT212320		
0F74	24F1	1233	S4R1 LIS R15,1	REGISTERS CHANGED	*****	PT212330
0F76	4300 145C	1234	B ERROR		PT212340	
		1235	*	PT212350		
	0000 0F7A	1236	S4B4 EQU *		PT212360	
0F7A	D320 1586	1237	LB R2,INDEV		PT212370	
0F7E	9D20	1238	SSR R2,R0		PT212380	
0F80	C300 0020	1239	THI R0,X'20'		PT212390	
0F84	2134	1240	BNZS S4B6		PT212400	
0F86	2422	1241	LIS R2,2		PT212410	
0F88	2400	1242	LIS R0,0		PT212420	
0F8A	220E	1243	BS S4B	P	PT212430	
	0000 0F8C	1244	S4B6 EQU *		PT212440	
0F8C	D320 1586	1245	LB R2,INDEV		PT212450	
0F90	9D23	1246	SSR R2,R3		PT212460	
0F92	C8F0 0F9E	1247	LHI R15,S4B61		PT212470	

0F96	40F0 1110	1248	STH	R15,BUFR2+X'1E'	PT212480
0F9A	4300 14D8	1249	B	TSTBRK12	PT212490
0000	0F9E	1250	S4B61	EQU *	PT212500
		1251	*		PT212510
0F9E	D100 10F2	1252	LM	R0,BUFR2	WERE REGISTERS STORED ? PT212520
0FA2	2400	1253	LIS	R0,0	PT212530
0FA4	2422	1254	LIS	R2,2	(WORK REG) PT212540
0FA6	41F0 1052	1255	BAL	R15,CMPARE	PT212550
0FAA	2334	1256	BZS	S4C	IF CC = 0, COMPARE OK. PT212560
		1257	*		PT212570
0FAC	24F2	1258	S4R2	LIS R15,2	REGISTERS NOT STORED ***** PT212580
0FAE	4300 145C	1259	B	ERROR	PT212590
		1260	*		PT212600
0FB2	2404	1261	S4C	LIS R0,4	PT212610
0FB4	D400 1584	1262	CLB	R0,SUBTNO	PT212620
0FB8	213C	1263	BNES	S5D	PT212630
0FBA	4800 0024	1264	LH	R0,X'24'	PPF PSW STATUS PT212640
0FBE	C400 FFF0	1265	NHI	R0,X'FFF0'	PT212650
0FC2	C500 5C00	1266	CLHI	R0,X'5C00'	PT212660
0FC6	4330 1494	1267	S4END	BE NOERR	PT212670
		1268	*		PT212680
0FC8	24F3	1269	S4R3	LIS R15,3	PSW NOT STORED AT X'24' ***** PT212690
0FC C	4300 145C	1270	B	ERROR	PT212700
		1271	*		PT212710
0FD0	4800 104E	1272	S5D	LH R0,S5PSW1	PSW SEEN ON EPF PT212720
0FD4	C500 0001	1273	CLHI	R0,X'0001'	HAS L FLAG SET BY MICRO-CODE PT212730
0FD8	4230 1042	1274	BNE	S5R5	PT212740
		1275	*		PT212750
0FDC	4800 1050	1276	LH	R0,S5PSW2	PSW SEEN ON POWER RESTORE PT212760
0FE0	C500 0000	1277	CLHI	R0,X'0000'	HAS NO FLAGS SET. PT212770
0FE4	4230 1048	1278	BNE	S5R6	PT212780
		1279	*		PT212790
0FE8	4800 0038	1280	LH	R0,X'38'	PT212800
0FEC	C400 FFF0	1281	NHI	R0,X'FFF0'	PT212810
0FF0	C500 7C00	1282	CLHI	R0,X'7C00'	PT212820
0FF4	4230 0FCA	1283	BNE	S4R3	PT212830
0FF8	4300 1494	1284	SSEND	B NOERR	PT212840
		1285	*		PT212850
0FFC	9500	1286	S4INT	EPSR R0,R0	CAPTURE EPF NEW PSW PT212860
0FFE	4820 1112	1287	LH	R2,S4MM	WAS INTERRUPT ENABLED ? PT212870
1002	213A	1288	BNZS	S5INT1	BRANCH = YES. PT212880
		1289	*		PT212890
1004	24F4	1290	S4R4	LIS R15,4	MMINT TAKEN WHEN DISABLED. ***** FT212900
1006	2421	1291	LIS	R2,1	OR NOT TAKEN WHEN ENABLED. FT212910
1008	CA20 0001	1292	S4R4B	AHI R2,1	PT212920
100C	C520 0200	1293	CLHI	R2,X'200'	DELAY AT LEAST 1 MS. PT212930
1010	2034	1294	BNES	S4R4B	PT212940
1012	4300 145C	1295	B	ERROR	PT212950
		1296	*		PT212960
1016	4000 104E	1297	S5INT1	STH R0,S5PSW1	PSW SEEN ON EPF PT212970
101A	C800 102C	1298	LHI	R0,S5INT2	PT212980
101E	4000 003E	1299	STH	R0,X'3E'	MMINT NEW PSW LOC (FOR RESTORE) PT212990
1022	2400	1300	LIS	R0,0	PT213000
1024	C200 1028	1301	LPSW	S5B	PT213010
1028	7C00	1302	S5B	DC X'7C00',S4R4	PT213020

10AE	0000	1357	DC	0	PT213570
10B0	0000	1358	DC	0	PT213580
10B2	0000	1359	DC	0	PT213590
10B4	0000	1360	DC	0	PT213600
10B6	0000	1361	DC	0	PT213610
10B8	0000	1362	DC	0	PT213620
10BA	0000	1363	DC	0	PT213630
10BC	0000	1364	DC	0	PT213640
10BE	0000	1365	DC	0	PT213650
10C0	0000	1366	DC	0	PT213660
10C2	0000	1367	DC	0	PT213670
10C4	0000	1368	DC	0	PT213680
10C6	0000	1369	DC	0	PT213690
10C8	0000	1370	DC	0	PT213700
10CA	0000	1371	BUFR1	DC 0	PT213710
10CC	0001	1372	DC	1	PT213720
10CE	0002	1373	DC	2	PT213730
10D0	0004	1374	DC	4	PT213740
10D2	0008	1375	DC	8	PT213750
10D4	0010	1376	DC	16	PT213760
10D6	0020	1377	DC	32	PT213770
10D8	0040	1378	DC	64	PT213780
10DA	0080	1379	DC	128	PT213790
10DC	0100	1380	DC	X'100'	PT213800
10DE	0200	1381	DC	X'200'	PT213810
10E0	0400	1382	DC	X'400'	PT213820
10E2	0800	1383	DC	X'800'	PT213830
10E4	1000	1384	DC	X'1000'	PT213840
10E6	2000	1385	DC	X'2000'	PT213850
10E8	4000	1386	DC	X'4000'	PT213860
10EA	8000	1387	DC	X'8000'	PT213870
10EC	0000	1388	DC	0	PT213880
		1389	*		PT213890
		1390	*		PT213900
10EE	10F2	1391	BF2ST	DC BUFR2	PT213910
10F0	10F9	1392	DC	BUFR2+7	PT213920
10F2	0000	1393	BUFR2	DC 0	PT213930
10F4	0000	1394	DC	0	PT213940
10F6	0000	1395	DC	0	PT213950
10F8	0000	1396	DC	0	PT213960
10FA	0000	1397	DC	0	PT213970
10FC	0009	1398	DC	0	PT213980
10FE	0000	1399	DC	0	PT213990
1100	0000	1400	DC	0	PT214000
1102	0000	1401	DC	0	PT214010
1104	0000	1402	DC	0	PT214020
1106	0000	1403	DC	0	PT214030
1108	0000	1404	DC	0	PT214040
110A	0000	1405	DC	0	PT214050
110C	0000	1406	DC	0	PT214060
110E	0000	1407	DC	0	PT214070
1110	0000	1408	DC	0	PT214080
		1409	*		PT214090
1112	0000	1410	S4MM	DC 0	PT214100
		1411	*		PT214110

0000 1113	1412	S5MM	EQU	*-1	PT214120	
	1413	*			PT214130	
	1414	*****				PT214140
	1415	*			PT214150	
	1416	*	TEST	6	PT214160	
	1417	*			PT214170	
	1418	*	THIS TEST EXERCISES THE HEXIDECLIMAL DISPLAY PANEL			PT214180
	1419	*			PT214190	
1114 D320 1585	1420	SUBT6	LB	R2,OUTDEV	TEST FOR EXTENDED DISPLAY	PT214200
1118 C800 0041	1421		LHI	R0,C'A'	PRINT CHARACTER A	PT214210
111C 41E0 140A	1422		BAL	R14,WRITE1		PT214220
	1423	*			OUTPUT TO DISPLAY CONSOLE STATUS	PT214230
1120 2411	1424	S61	LIS	R1,1	R1 = 1 = CONSOLE ADR	PT214240
1122 C880 0080	1425		LHI	R8,X'80'	R8 = X'80' = NORMAL MODE	PT214250
1126 9E18	1426		OCR	R1,R8	NORMAL MODE	PT214260
1128 9D14	1427	S61A	SSR	R1,R4	R4 = CONSOLE STATUS	PT214270
112A 9A14	1428		WDR	R1,R4	DISPLAY CONSOLE STATUS, RT 2 HEX DIDGIT	PT214280
112C C890 1140	1429		LHI	R9,S62		PT214290
1130 41E0 1346	1430		BAL	R14,DELAY		PT214300
1134 2440	1431		LIS	R4,0		PT214310
1136 9A14	1432		WDR	R1,R4		PT214320
1138 41E0 1346	1433		BAL	R14,DELAY		PT214330
113C 4300 1120	1434		B	S61		PT214340
	1435	*				PT214350
	1436	*			OUTPUT TO DISPLAY	PT214360
	1437	*			ALL ZERO ALTERNATED WITH X'FFFF'	PT214370
	1438	*			TEST LAMPS	PT214380
1140 C800 0042	1439	S62	LHI	R0,C'B'	PRINT CHARACTER B	PT214390
1144 41E0 140A	1440		BAL	R14,WRITE1		PT214400
1148 C880 0040	1441		LHI	R8,X'40'	INCREMENTAL MODE	PT214410
114C 0700	1442	S62A	XHR	R0,R0	CLEAR R0	PT214420
114E 9E18	1443	S62B	OCR	R1,R8		PT214430
1150 9A10	1444		WDR	R1,R0	OUTPUT TO DISPLAY 1	PT214440
1152 9A10	1445		WDR	R1,R0	OUTPUT TO DISPLAY 2	PT214450
1154 9A10	1446		WDR	R1,R0	OUTPUT TO DISPLAY 3	PT214460
1156 9A10	1447		WDR	R1,R0	OUTPUT TO DISPLAY 4	PT214470
1158 9A10	1448		WDR	R1,R0	OUTPUT TO DISPLAY 5	PT214480
115A C890 1172	1449		LHI	R9,S63	NEXT TEST	PT214490
115E 41E0 1346	1450		BAL	R14,DELAY		PT214500
1162 C900 FFFF	1451	S62E	CHI	R0,X'FFFF'		PT214510
1166 4330 114C	1452		BE	S62A		PT214520
116A C800 FFFF	1453		LHI	R0,X'FFFF'		PT214530
116E 4300 114E	1454		B	S62B		PT214540
	1455	*			OUTPUT COUNTER TO DISPLAY	PT214550
	1456	*			TEST CONSOLE SHIFT REGISTERS	PT214560
	1457	*			PRINT CHARACTER C	PT214570
1172 C800 0043	1458	S63	LHI	R0,C'C'		PT214580
1176 41E0 140A	1459		BAL	R14,WRITE1		PT214590
117A C840 11E4	1460		LHI	R4,DISBUF	LOAD R4 & R5 WITH DISPLAY BUFFER	PT214600
117E C850 11E8	1461		LHI	R5,DISBUF+4	WITH LOWER AND UPER LIMITS	PT214610
1182 C800 1032	1462		LHI	R0,X'1032'	LOAD DATA INTO DISPLAY BUFFER	PT214620
1186 4000 11E4	1463		STH	R0,DISBUF		PT214630
118A C800 5476	1464		LHI	R0,X'5476'		PT214640
118E 4000 11E6	1465		STH	R0,DISBUF+2		PT214650
1192 C800 9800	1466		LHI	R0,X'9800'		PT214660

1196	4000 11E8	1467	STH	R0,DISBUF+4		PT214670	
119A	9E18	1468	S63A	OCR	R1,R8	PT214680	
119C	DA14 0000	1469	WD	R1,0(R4)	OUTPUT CMD TO RESET DISPLAY	PT214690	
11A0	DA14 0001	1470	WD	R1,1(R4)	OUTPUT DISPLAY 1	PT214700	
11A4	DA14 0002	1471	WD	R1,2(R4)	OUTPUT DISPLAY 2	PT214710	
11A8	DA14 0003	1472	WD	R1,3(R4)	OUTPUT DISPLAY 3	PT214720	
11AC	DA14 0004	1473	WD	R1,4(R4)	OUTPUT DISPLAY 4	PT214730	
11B0	C890 11EA	1474	LHI	R9,S64	NEXT TEST	PT214740	
11B4	41E0 1346	1475	BAL	R14,DELAY	WAIT FOR DELAY TIME OUT	PT214750	
11B8	C890 11C4	1476	S63C	LHI	R6,DISBUF	R6 = ADDRESS OF DISPLAY BUFFER	PT214760
11BC	D376 0000	1477	S63E	LB	R7,0(R6)	GET BYTE FROM BUFFER	PT214770
11C0	2671	1478	AIS	R7,1	ADD 1 TO RIGHT HEX DIDGIT	PT214780	
11C2	C470 000F	1479	NHI	R7,X'000F'	R7 = STRIPPED RIGHT HEX DIDGIT	PT214790	
11C6	D396 0000	1480	LB	R9,0(R6)	AGAIN GET BYTE FROM BUFF	PT214800	
11CA	CA90 0010	1481	AHI	R9,X'0010'	ADD 1 TO LEFT HEX DIDGIT	PT214810	
11CE	C490 00F0	1482	NHI	R9,X'00F0'	R9 = STRIPPED LEFT HEX DIDGIT	PT214820	
11D2	0679	1483	OHR	R7,R9	COMBINE RIGHT & LEFT HEX DIDGIT	PT214830	
11D4	D276 0000	1484	STB	R7,0(R6)	STORE UPDATEX HEX DIDGITS	PT214840	
11D8	2661	1485	AIS	R6,1	INDEX BUFFER TO NEXT BYTE	PT214850	
11DA	0956	1486	CHR	R5,R6	CHECK FOR BUFFER END	PT214860	
11DC	4380 11BC	1487	BNL	S63E	NO	PT214870	
11E0	4300 119A	1488	B	S63A	YES, GO OUTPUT BUFFER	PT214880	
11E4		1489	DISBUF	DS	DISPLAY BUFFER	PT214890	
		1490	*			PT214900	
		1491	*		OUTPUT TO DISPLAY IN NORMAL MODE	PT214910	
		1492	*			PT214920	
11EA	C800 0044	1493	S64	LHI	R0,C'D'	PRINT CHARACTER D	PT214930
11EE	41E0 140A	1494	BAL	R14,WRITE1		PT214940	
11F2	C880 0080	1495	LHI	R8,X'80'	NORMAL MODE	PT214950	
11F6	9E1A	1496	OCR	R1,R8		PT214960	
11F8	C870 5A5A	1497	LHI	R7,X'5A5A'	R7 & R6 = ALTERNATE LIGHT PATTERN	PT214970	
11FC	C860 A5A5	1498	LHI	R6,X'A5A5'		PT214980	
1200	9A17	1499	S64A	WDR	R1,R7	OUTPUT TO DISPLAY X'5A'	PT214990
1202	C890 122C	1500	LHI	R9,S65	NEXT TEST	PT215000	
1206	41E0 1346	1501	BAL	R14,DELAY	WAIT	PT215010	
120A	9A16	1502	WDR	R1,R6	OUTPUT TO DISPLAY X'5A'	PT215020	
120C	C890 122C	1503	LHI	R9,S65	NEXT TEST	PT215030	
1210	41E0 1346	1504	BAL	R14,DELAY	WAIT	PT215040	
1214	9817	1505	WHR	R1,R7	OUTPUT TO DISPLAY X'5A5A'	PT215050	
1216	C890 122C	1506	LHI	R9,S65	NEXT TEST	PT215060	
121A	41E0 1346	1507	BAL	R14,DELAY	WAIT	PT215070	
121E	9816	1508	WHR	R1,R6	OUTPUT TO DISPLAY X'A5A5'	PT215080	
1220	C890 122C	1509	LHI	R9,S65	NEXT TEST	PT215090	
1224	41E0 1346	1510	BAL	R14,DELAY	WAIT	PT215100	
1228	4300 1200	1511	B	S64A	NO BREAK KEY GO AGAIN	PT215110	
		1512	*			PT215120	
		1513	*		OUTPUT TO DISPLAY IN INCREMENTAL MODE	PT215130	
		1514	*			PT215140	
122C	C800 0045	1515	S65	LHI	R0,C'E'	PRINT CHARACTER E	PT215150
1230	41E0 140A	1516	BAL	R14,WRITE1		PT215160	
1234	C890 1288	1517	LHI	R9,S66	NEXT TEST	PT215170	
1238	C880 0040	1518	LHI	R8,X'40'	COMMAND FOR INCREMENTAL MODE	PT215180	
123C	9E18	1519	S65A	OCR	R1,R8		PT215190
123E	2450	1520	LIS	R5,0	LOOP COUNTER	PT215200	
1240	9A17	1521	S65B	WDR	R1,R7	OUT TO DISPLAY X'5A', TWO HEX DIDGITS	PT215210

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1242	41E0 1346	1522	BAL	R14,DELAY	AT A TIME	PT215220
1246	2651	1523	AIS	R5,1	INCREMENT LOOP COUNTER	PT215230
1248	C950 0005	1524	CHI	R5,X'05'	FIVE TIMES THROUGH LOOP	PT215240
124C	2036	1525	BNES	S65B	NO	PT215250
124E	2450	1526	LIS	R5,0	LOOP COUNTER	PT215260
1250	9E18	1527	OCR	R1,R8	OUTPUT CMT TO RESET DISPLAY	PT215270
1252	9A16	1528	S65C	WDR R1,R6	OUTPUT TO DISPLAY X'A5'	PT215280
1254	41E0 1346	1529	BAL	R14,DELAY	WAIT	PT215290
1258	2651	1530	AIS	R5,1	INCREMENT LOOP COUNTER	PT215300
125A	C950 0005	1531	CHI	R5,X'05'	5 TIMES THROUGH LOOP	PT215310
125E	2036	1532	BNES	S65C	NO	PT215320
1260	2450	1533	LIS	R5,0	LOOP COUNTER	PT215330
1262	9E18	1534	OCR	R1,R8	OUTPUT CMT TO RESET DISPLAY	PT215340
1264	9817	1535	S65D	WHR R1,R7	OUTPUT TO DISPLAY X'5A5A'	PT215350
1266	41E0 1346	1536	BAL	R14,DELAY	WAIT	PT215360
126A	2651	1537	AIS	R5,1	INCREMENT LOOP COUNTER	PT215370
126C	C950 0003	1538	CHI	R5,X'03'	3 TIMES THROUGH LOOP	PT215380
1270	2036	1539	BNES	S65D	NO	PT215390
1272	2450	1540	LIS	R5,0	LOOP COUNTER	PT215400
1274	9E18	1541	OCR	R1,R8	OUTPUT CMT TO RESET DISPLAY	PT215410
1276	9816	1542	S65E	WHR R1,R6	OUTPUT TO DISPLAY X'5A5A'	PT215420
1278	41E0 1346	1543	BAL	R14,DELAY	WAIT	PT215430
127C	2651	1544	AIS	R5,1	INCREMENT LOOP COUNTER	PT215440
127E	C950 0003	1545	CHI	R5,X'03'	3 TIMES THROUGH LOOP	PT215450
1282	2036	1546	BNES	S65E	NO	PT215460
1284	4300 123C	1547	B	S65A	NO BREAK KEY GO AGAIN	PT215470
		1548	*			PT215480
		1549	*		OUTPUT CONTENTS OF SWITCH REGISTER IS	PT215490
		1550	*		PRESNTED TO THE DISPLAY. THE SWITCH	PT215500
		1551	*		REGISTER IS UPDATED BY FIRST DEPRE-	PT215510
		1552	*		SSING 'DTA' & THEN HEX KEYS. BREAK	PT215520
		1553	*		POINT ENDS TEST	PT215530
1288	C800 0046	1554	S66	LHI R0,C'F'	PRINT CHARACTER F	PT215540
128C	41E0 140A	1555	BAL	R14,WRITE1		PT215550
1290	C880 0080	1556	LHI	R8,X'80'	COMMAND FOR NORMAL MODE	PT215560
1294	9E18	1557	S66A	OCR R1,R8		PT215570
1296	9914	1558	RHR	R1,R4	READ SWITCH REGISTER	PT215580
1298	9814	1559	WHR	R1,R4	OUTPUT TO DISPLAY CONTENTS OF SWITCH REPT	PT215590
129A	C8E0 1294	1560	LHI	R14,S66A		PT215600
129E	41F0 14C0	1561	BAL	R15,TSTBRK		PT215610
12A2	4300 05E8	1562	S66END	B RENTRY		PT215620
		1563	*			PT215630
		1564	*****			PT215640
		1565	*			PT215650
		1566	*	TEST 7		PT215660
		1567	*			PT215670
		1568	*	THIS TEST CHECKS FUNCTION ZERO (CONSOLE INTERRUPT) WITH		PT215680
		1569	*	INTERRUPTS ENABLED AND DISABLED.		PT215690
		1570	*			PT215700
12A6	C8E0 00C2	1571	SUBT7	LHI R14,X'D2'		PT215710
12AA	C8F0 12DE	1572	LHI	R15,FZ11		PT215720
12AE	40FE 0000	1573	STH	R15,0(R14)		PT215730
12B2	C200 12B6	1574	LPSW	FUNCO	ENABLE CONSOLE INTERRUPT	PT215740
12B6	7800	1575	FUNCO	DC X'7800',INRET1		PT215750
123c	12B4					

12BA	0755	1576	INRET1	XHR	R5,R5		PT215760
12BC	D310 1585	1577		LB	R1,OUTDEV		PT215770
12C0	C820 1326	1578		LHI	R2,FZERM	BEGINNING ADDRESS OF MESSAGE	PT215780
12C4	C830 1345	1579		LHI	R3,FZEND	ENDING ADDRESS OF MESSAGE	PT215790
12C8	DE10 1578	1580		OC	R1,OUTCMD		PT215800
12CC	9612	1581		WBR	R1,R2	PRINT: PRESS FUNC 0, PRESS BREAK KEY	PT215810
12CE	41F0 14B8	1582		BAL	R15,TSTBRKC		PT215820
		1583	*				PT215830
12D2	C550 0001	1584	FZ1	CLHI	R5,1	IF FLAG = 1, THEN INTERRUPT TAKEN	PT215840
12D6	2338	1585		BES	FUNC01	INTERRUPT TAKEN, CONTINUE TEST	PT215850
12D8	24F1	1586		LIS	R15,1	ERROR 2701	PT215860
12DA	4300 145C	1587		B	ERROR		PT215870
12DE	0000	1588	FZI1	DC	0		PT215880
12E0	0000	1589		DC	0		PT215890
12E2	7800	1590		DC	X'7800'		PT215900
12E4	2451	1591		LIS	R5,1		PT215910
12E6	41F0 14B8	1592		BAL	R15,TSTBRKC		PT215920
12EA	220C	1593		BS	FZ1		PT215930
		1594	*				PT215940
12EC	C6E0 00D2	1595	FUNC01	LHI	R14,X'D2'	STORE RETURN ADDRESS IN MEMORY	PT215950
12F0	C8F0 131A	1596		LHI	R15,FZI2		PT215960
12F4	40FE 0000	1597		STH	R15,0(R14)		PT215970
12F8	C200 12FC	1598		LPSW	FUNC0N	DISABLE CONSOLE INTERRUPT	PT215980
12FC	7000	1599	FUNC0N	DC	X'7000',INRET2		PT215990
12FE	1300						
1300	D310 1585	1600	INRET2	LB	R1,OUTDEV		PT216000
1304	C820 1326	1601		LHI	R2,FZERM	BEGINNING ADDRESS OF MESSAGE	PT216010
1308	C830 1345	1602		LHI	R3,FZEND	ENDING ADDRESS OF MESSAGE	PT216020
130C	DE10 1578	1603		OC	R1,OUTCMD		PT216030
1310	9612	1604		WBR	R1,R2	PRINT: PRESS FUNC 0, PRESS BREAK KFY	PT216040
1312	41F0 14B8	1605		BAL	R15,TSTBRKC		PT216050
		1606	*				PT216060
1316	4300 1494	1607	FZ2	B	NOERR		PT216070
		1608	*				PT216080
131A	0000	1609	FZI2	DC	0	INTERRUPT RETURN ROUTINE	PT216090
131C	0000	1610		DC	0		PT216100
131E	7000	1611		DC	X'7000'		PT216110
1320	24F2	1612		LIS	R15,2		PT216120
1322	4300 145C	1613		B	ERROR		PT216130
		1614	*				PT216140
		1615	*				PT216150
1326	5052 4553 5320 4655	1616	FZERM	DC	C'PRESS FUNC 0'	COMMON MESSAGE FOR TEST 6 AND 7	PT216160
132E	4E43 2030						
1332	0A0D	1617		DC	X'0A0D'		PT216170
1334	FFFF	1618		DC	X'FFFF'		PT216180
1336	5052 4553 5320 4252	1619		DC	C'PRESS BREAK'		PT216190
133E	4541 4B20						
1342	0A0D	1620		DC	X'0A0D'		PT216200
1344	FFFF	1621		DC	X'FFFF'		PT216210
	0000 1345	1622	FZEND	EQU	*-1	END OF COMMON MESSAGE	PT216220
		1623	*				PT216230
		1624	*				PT216240
		1625	*****			DELAY ROUTINE	PT216250
		1626	*				PT216260
		1627	*				PT216270

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1346	D000 13B0	1628	DELAY	STM	R0,DSAVE	SAVE ALL REGISTERS	PT216280
134A	C8A0 0000	1629		LHI	R10,X'0'	CLEAR REG 10	PT216290
134E	EAC0 000F	1630	DELAY1	RRL	R12,15	34.5 US PER INSTRUCTION	PT216300
1352	C8E0 1360	1631		LHI	R14,DELAY3		PT216310
1356	41F0 14C0	1632		BAL	R15,TSTBRK		PT216320
135A	D100 13B0	1633		LM	R0,DSAVE	RESTORE REGISTERS	PT216330
135E	0309	1634		BR	R9	BREAK POINT RECEIVED RETURN	PT216340
1360	26A1	1635	DELAY3	AIS	R10,1	1.5	PT216350
1362	C5A0 5FFF	1636	DELAY4	CLHI	R10,X'5FFF'	3.0	PT216360
1366	203C	1637		BNES	DELAY1	1.5	PT216370
		1638	*			47.5 US TOTAL TIME PER LOOP	PT216380
1368	D100 13B0	1639		LM	R0,DSAVE		PT216390
136C	030E	1640		BR	R14		PT216400
		1641	*				PT216410
136E	D000 13B0	1642	BIDEL	STM	R0,DSAVE		PT216420
1372	24A1	1643		LIS	R10,1		PT216430
1374	CAA0 0001	1644	BIDEL2	AHI	R10,X'1'		PT216440
1378	C8E0 1386	1645		LHI	R14,BIDEL3		PT216450
137C	41F0 14C0	1646		BAL	R15,TSTBRK		PT216460
1380	D100 13B0	1647		LM	R0,DSAVE		PT216470
1384	0309	1648		BR	R9		PT216480
1386	C5A0 1FFF	1649	BIDEL3	CLHI	R10,X'1FFF'		PT216490
138A	4230 1374	1650		BNE	BIDEL2		PT216500
138E	D100 13B0	1651		LM	R0,DSAVE		PT216510
1392	030E	1652		BR	R14		PT216520
		1653	*				PT216530
1394	D000 13B0	1654	CIDEL	STM	R0,DSAVE		PT216540
1398	24A0	1655		LIS	R10,0		PT216550
139A	C8C0 0014	1656	CIDEL1	LHI	R12,X'14'		PT214560
139E	27C1	1657	CIDEL2	SIS	R12,1		PT216570
13A0	2031	1658		BNZS	CIDEL2		PT216580
13A2	26A1	1659	CIDEL3	AIS	R10,1		PT216590
13A4	C5A0 7FFF	1660	CIDEL4	CLHI	R10,X'7FFF'		PT216600
13A8	2037	1661		BNES	CIDEL1		PT216610
13AA	D100 13B0	1662		LM	R0,DSAVE		PT216620
13AE	030E	1663		BR	R14		PT216630
		1664	*				PT216640
13B0		1665	DSAVE	DS	64	REGISTER SAVE AREA	PT216650
		1666	*				PT216660
		1667	*			SUBROUTINES	PT216670
		1668	*				PT216680
		1669	*****				PT216690
		1670	*				PT216700
	0000 13F0	1671	READ1	EQU	*		PT216710
13F0	D320 1586	1672		LB	R2,INDEV		PT216720
13F4	DE20 1579	1673		OC	R2,INCMND		PT216730
13F8	9B23	1674		RDR	R2,R3		PT216740
13FA	9D23	1675		SSR	R2,R3		PT216750
13FC	2281	1676		BFBS	8,1		PT216760
13FE	9D23	1677	READ3	SSR	R2,R3	R2 = 2 , R3 = TTY STATUS	PT216770
1400	2091	1678		BTBS	9,1		PT216780
1402	9B20	1679		RDR	R2,R0	READ THE KEY PRESSED IN R0	PT216790
1404	C400 007F	1680		NHI	R0,X'7F'	ZERO OUT THE PARITY BIT	PT216800
1408	030E	1681		BR	R14		PT216810
140A	D320 1585	1682	WRITE1	LB	R2,OUTDEV		PT216820

140E	DE20 1578	1683	OC	R2,OUTCMD	PT216830
1412	9D23	1684	WRITE3	SSR R2,R3	PT216840
1414	2011	1685	BTBS	1,1	PT216850
1416	2082	1686	BTBS	8,2	PT216860
1418	9A20	1687	WDR	R2,R0	PT216870
141A	030E	1688	BR	R14	PT216880
141C	C800 000D	1689	CRLF	LHI R0,13	PT216890
1420	41E0 140A	1690	BAL	R14,WRITE1	PT216900
1424	C800 00CA	1691	LHI	R0,10	PT216910
1428	41E0 140A	1692	BAL	R14,WRITE1	PT216920
142C	030C	1693	BR	R12	PT216930
		1694	*		PT216940
		1695	*		PT216950
142E	24F1	1696	FLPTNT	LIS R15,1	FLPT ARITH. FAULT INTRPT. PT216960
1430	230C	1697	BS	ERR2F	PT216970
1432	24F2	1698	ILGINT	LIS R15,2	ILL. INSTR. INTRPT. PT216980
1434	230A	1699	BS	ERR2F	PT216990
1436	24F3	1700	MALFTN	LIS R15,3	MACH. MALFTN. INTRPT. PT217000
1438	2308	1701	BS	ERR2F	PT217010
143A	24F4	1702	EXTINT	LIS R15,4	INTERNAL INTRPT. PT217020
143C	2306	1703	BS	ERR2F	PT217030
143E	24F5	1704	DVDFLT	LIS R15,5	FIXD. PT. DIV. FAULT INTRPT. PT217040
1440	2304	1705	BS	ERR2F	PT217050
1442	24F6	1706	CHANIO	LIS R15,6	THIS INTRPT. IS AN ERROR PT217060
1444	2302	1707	BS	ERR2F	PT217070
1446	24F7	1708	QVRFL0	LIS R15,7	THIS INTERRUPT IS AN ERROR PT217080
1448	2307	1709	ERR2F	BS	PT217090
144A	24F8	1710	SVCERR	LIS R15,8	PT217100
144C	2305	1711	BS	ERRFF	PT217110
144E	0000	1712	DEVERR	DC 0	PT217120
1450	0000	1713	DC	0	PT217130
1452	0000	1714	DC	0	PT217140
1454	24F9	1715	LIS	R15,9	PT217150
1456	C800 0046	1716	ERRFF	LHI R0,C'F'	PT217160
145A	230C	1717	BS	ERR2	PT217170
		1718	*		PT217180
145C	95DD	1719	ERROR	EPSR R13,R13	SAVE COND. CODE FOR SUBT. 4 PT217190
145E	2471	1720	LIS	R7,1	PT217200
1460	080F	1721	LHR	R0,R15	PT217210
1462	9108	1722	SLSL	R0,8	PT217220
1464	900C	1723	SRLS	R0,12	PT217230
1466	CA00 0030	1724	AHI	R0,X'30'	PT217240
146A	C500 003A	1725	CLHI	R0,X'3A'	PT217250
146E	2182	1726	BLS	ERR2	PT217260
1470	2607	1727	AIS	R0,7	PT217270
1472	D200 1516	1728	ERR2	STB R0,ERRNO	PT217280
1476	C4F0 000F	1729	NHI	R15,15	PT217290
147A	CAF0 0030	1730	AHI	R15,X'30'	PT217300
147E	C5F0 003A	1731	CLHI	R15,X'3A'	PT217310
1482	2182	1732	BLS	ERR4	PT217320
1484	26F7	1733	AIS	R15,7	PT217330
1486	D2F0 1517	1734	ERR4	STB R15,ERRNO+1	PT217340
		1735	*		PT217350
148A	C840 150A	1736	LHI	R4,ERRMSG	PT217360
148E	C850 1519	1737	LHI	R5,ERRMSG+15	PT217370

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1492	2306	1738	BS	PRTMSG	PT217380	
		1739	*		PT217390	
1494	2470	1740	NOERR	LIS R7,0	PT217400	
1496	C840 151C	1741	LHI	R4,NOER	PT217410	
149A	C850 1527	1742	LHI	R5,NOER+11	PT217420	
149E	D320 1585	1743	PRTMSG	L8 R2,OUTDEV	PT217430	
14A2	DE20 1578	1744	OC	R2,OUTCMD	PT217440	
14A6	9D23	1745	SSR	R2,R3	PT217450	
14A8	2091	1746	BTBS	9,1	PT217460	
14AA	9624	1747	WBR	R2,R4	PT217470	
14AC	4800 1582	1748	LH	R0,IOERHW	IF IOERHW = 0 , I/O ERR.	PT217480
14B0	4230 02E0	1749	BNZ	PART2	PT217490	
14B4	4300 05E8	1750	B	RETRY	PT217500	
		1751	*		PT217510	
	0000 14B8	1752	TSTBRKC	EQU *	PT217520	
14B8	2400	1753	LIS	R0,0	PT217530	
14BA	4000 1574	1754	STH	R0,OUTFLAG	PT217540	
14BE	2304	1755	BS	TTBRK	PT217550	
	0000 14C0	1756	TSTBRK	EQU *	PT217560	
14C0	2401	1757	LIS	R0,1	PT217570	
14C2	4000 1574	1758	STH	R0,OUTFLAG	PT217580	
14C6	D000 10F2	1759	TTBRK	STM R0,BUFR2	PT217590	
14CA	D320 1586	1760	LB	R2,INDEV	PT217600	
	0000 14CE	1761	TSTBRK1	EQU *	PT217610	
14CE	9D23	1762	SSR	R2,R3	SENSE STATUS	PT217620
14D0	C330 0020	1763	THI	R3,X'20'	BREAK KEY PRESSED	PT217630
14D4	4330 14FC	1764	BZ	TSTBRKB	PT217640	
	0000 14D8	1765	TSTBRK12	EQU *	PT217650	
14D8	4800 157E	1766	LH	R0,CRTFLG	IS IT PASALA	PT217660
14DC	2339	1767	BZS	TSTBRK11	PT217670	
14DE	C530 0024	1768	CLHI	R3,X'24'	PT217680	
14E2	203A	1769	BNES	TSTBRK1	PT217690	
14E4	9B24	1770	RDR	R2,R4	READ DUMMY CHARACTER	PT217700
14E6	9D23	1771	SSR	R2,R3	PT217710	
14E8	2281	1772	BFBS	8,1	PT217720	
14EA	0844	1773	LHR	R4,R4	PT217730	
14EC	2335	1774	BZS	TSTBRK2	PT217740	
	0000 14EE	1775	TSTBRK11	EQU *	PT217750	
14EE	9D23	1776	SSR	R2,R3	PT217760	
14F0	C330 0020	1777	THI	R3,X'20'	WAIT FOR BRK RELEASED	PT217770
14F4	203E	1778	BNZS	TSTBRK12	PT217780	
	0000 14F6	1779	TSTBRK2	EQU *	PT217790	
14F6	D100 10F2	1780	LM	R0,BUFR2	PT217800	
14FA	030F	1781	BR	R15	PT217810	
	0000 14FC	1782	TSTBRKB	EQU *	PT217820	
14FC	4800 1574	1783	LH	R0,OUTFLAG	PT217830	
1500	4330 14CE	1784	BZ	TSTBRK1	PT217840	
1504	D100 10F2	1785	LM	R0,BUFR2	PT217850	
1508	030E	1786	BR	R14	PT217860	
	1787	*****				PT217870
1788	*				PT217880	
1789	*	DATA CONSTANTS			PT217890	
1790	*				PT217900	
1791	*	*****			PT217910	
1792	*				PT217920	

150A	000A	1793	ERRMSG	DC	X'D0A'		PT217930
150C	4552 524F 5220	1794		DC	C'ERROR '		PT217940
1512	2000	1795		DC	X'2000'		PT217950
1514	3230	1796	TESTNO	DC	C'20'		PT217960
1516	0000	1797	ERRNO	DC	0		PT217970
1518	000A	1798		DC	X'D0A'		PT217980
151A	FFFF	1799		DCX	FFFF		PT217990
		1800	*				PT218000
151C	000A	1801	NOER	DC	X'D0A'		PT218010
151E	4E4F 2045 5252 4F52	1802		DC	C'NO ERROR'		PT218020
1526	000A	1803		DC	X'D0A'		PT218030
	0000 1528	1804	NULL	EQU	*		PT218040
1528	FFFF	1805		DCX	FFFF		PT218050
		1806	*				PT218060
152A	0000	1807	TEMP	DC	0		PT218070
152C	0000	1808		DC	0		PT218080
152E	000A	1809	TITLE2	DC	X'D0A'		PT218090
1530	5331 3650 5432 5230	1810		DC	C'S16PT2R08'		PT218100
1538	3820						
153A	000A	1811		DCX	000A		PT218110
153C	FFFF	1812		DCX	FFFF		PT218120
153E	4350 5520	1813		DC	C'CPU'		PT218130
1542	000A	1814		DCX	000A		PT218140
1544	2A	1815		DB	C'*'	*	PT218150
1546	FFFF	1816		DCX	FFFF		PT218160
	0000 1547	1817	TITEND	EQU	*-1		PT218170
1548	5355 4254 4553 5420	1818	SUBTST	DC	C'SUBTEST'		PT218180
1550	000A	1819		DC	X'D0A'		PT218190
1552	FFFF	1820		DCX	FFFF		PT218200
1554	2A20	1821		DC	C'*'		PT218210
1556	FFFF	1822		DCX	FFFF		PT218220
	0000 1557	1823	SUBTSTND	EQU	*-1		PT218230
		1824	*				PT218240
		1825	*				PT218250
		1826	*				PT218260
1558	5052 4553 5320 494E	1827	PRESS	DC	C'PRESS INIT'		PT218270
1560	4954						
1562	000A	1828		DC	X'D0A'		PT218280
1564	FFFF	1829		DCX	FFFF		PT218290
1566	5052 4553 5320 4252	1830	PRBRK	DC	C'PRESS BRK'		PT218300
156E	4B20						
1570	000A	1831		DC	X'D0A'		PT218310
1572	FFFF	1832		DCX	FFFF		PT218320
	0000 1573	1833	BRK	EQU	*-1		PT218330
		1834	*				PT218340
		1835	*				PT218350
1574		1836		ALIGN	2		PT218360
		1837	*				PT218370
1574	0000	1838	OUTFLAG	DC	0		PT218380
1576	0000	1839	CPUNO	DC	0		PT218390
1578	C8E4	1840	OUTCMD	DC	X'C8E4'		PT218400
	0000 1579	1841	INCMND	EQU	OUTCMD+1		PT218410
157A	ABB9	1842	CRTOUT	DCX	ABB9		PT218420
157C	C8E4	1843	CONOUT	DCX	C8E4		PT218430
157E	0000	1844	CRTFLG	DCX	0		PT218440

1580 0000	1845	FIRSTCMD	DCX	0	PT218450	
1582 0000	1846	IOERHW	DC	0	PT218460	
1584 00	1847	SUBTNO	DB	0	PT218470	
1585 02	1848	OUTDEV	DB	2	PT218480	
1586 02	1849	INDEV	DB	2	PT218490	
1587 00	1850	STATUS	DB	0	PT218500	
1588 00	1851	\$C4	DB	0	PT218510	
1589 00	1852	\$54	DB	0	PT218520	
158A 00	1853	\$58	DB	0	PT218530	
158B 00	1854	\$48	DB	0	PT218540	
158C 00	1855	\$44	DB	0	PT218550	
158D 00	1856	\$56	DB	0	PT218560	
158E 00	1857	\$66	DB	0	PT218570	
158F 00	1858	\$64	DB	0	PT218580	
1590 00	1859		DB	0	PT218590	
	1860	*			PT218600	
	0000 1590	1861	LNZB	EQU *-1	PT218610	
1592		1862		ALIGN 2	PT218620	
		1863	*		PT218630	
1592		1864	TABLE	DS 12	PT218640	
		1865	*		PT218650	
		1866	*	(THE FOLLOWING CODE IS NOT PART OF THE TEST.)	PT218660	
		1867	*		PT218670	
		1868	*		PT218680	
159E 2400	1869	\$CHKSUM	LIS	R0,0	PUNCH M17 TAPE WITH CHECKSUM	PT218690
15A0 9510	1870		EPSR	R1,R0	SELECT REG. SET 0	PT218700
	1871	*				PT218710
15A2 C810 0200	1872		LDAI	R1,ORIGIN1	START	PT218720
15A6 2421	1873		LIS	R2,1	INCREMENT	PT218730
15A8 C830 1590	1874		LDAI	R3,LNZB	FINAL	PT218740
15AC 2440	1875		LIS	R4,0	CHECKSUM BYTE	PT218750
15AE D351 0000	1876	\$GEN	LB	R5,0(R1)		PT218760
15B2 0745	1877		XAR	R4,R5		PT218770
15B4 C110 15AE	1878		BXLE	R1,\$GEN		PT218780
15B8 D240 0097	1879		STB	R4,MN+3	CHECKSUM BYTE TO BOOT LOADER	PT218790
	1880	*				PT218800
15BC C610 0080	1881	\$TAPE	LHI	R1,X'0080'		PT218810
15C0 9E21	1882		GCR	R2,R1	DISPLAY : NORMAL MODE	PT218820
15C2 9444	1883		EXBR	R4,R4		PT218830
15C4 9824	1884		WHR	R2,R4	CHECKSUM BYTE TO D1	PT218840
15C6 9411	1885		EXBR	R1,R1		PT218850
15C8 9501	1886		EPSR	R0,R1	HALT PROCESSOR.	PT218860
15CA D360 007A	1888	\$PUNCH	LB	R6,X'7A'	GET BOUTDV (PUNCH) ADDRESS.	PT218880
15CE DE60 007B	1889		OC	R6,X'7B'	START TAPE PUNCH	PT218890
15D2 9D60	1890		SSR	R6,R0		PT218900
15D4 2081	1891		BTBS	8,1		PT218910
15D6 41F0 1618	1892		BAL	R15,\$TAPL	PUNCH LEADER	PT218920
15DA 9411	1893		EXBR	R1,R1	(R1) = X'0080'	PT218930
15DC C830 00CF	1894		LHI	R3,X'CF'		PT218940
15E0 DA61 0000	1895	\$PNCH1	WD	R6,0(R1)	PUNCH BOOT LOADER	PT218950
15E4 9D60	1896		SSR	R6,R0		PT218960
15E6 2081	1897		BTBS	8,1		PT218970
15E8 C110 15E0	1898		BXLE	R1,\$PNCH1		PT218980

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15EC	41F0 161E	1899	BAL	R15,\$TAPL1	PUNCH ONE-FOLD GAP.	PT218990
		1900 *				PT219000
15F0	0340 0097	1901	LB	R4,MN+3	GET CHECKSUM BYTE	PT219010
15F4	C810 0200	1902	LDAI	R1,ORIGIN1	(NORMALLY X'A00')	PT219020
15F8	C830 1590	1903	LDAI	R3,LNZB		PT219030
15FC	D351 0000	1904 \$PNCH2	LB	R5,0(R1)	PUNCH PROGRAM	PT219040
1600	0745	1905	XAR	R4,R5		PT219050
1602	9A65	1906	WDR	R6,R5		PT219060
1604	9401	1907	EXBR	R0,R1		PT219070
1606	9620	1908	WHR	R2,R0	DATA ADDRESS TO DISPLAY.	PT219080
1608	9D60	1909	SSR	R6,R0		PT219090
160A	2081	1910	BTBS	8,1		PT219100
160C	C11J 15FC	1911	BXLE	R1,\$PNCH2		PT219110
1610	41F0 1618	1912	BAL	R15,\$TAPL	PUNCH TRAILER.	PT219120
1614	4300 15BC	1913	B	\$TAPE	DISPLAY CHECKSUM, HALT PROCESSOR.	PT219130
1618	C800 0100	1915 \$TAPL	LHI	R0,256	TO PUNCH BLANK LEADER	PT219150
161C	2303	1916	BS	\$TAPLP		PT219160
161E	C800 0055	1917 \$TAPL1	LHI	R0,85	TO PUNCH 1-FOLD GAP	PT219170
1622	2701	1918 \$TAPLP	SIS	R0,1		PT219180
1624	032F	1919	BNPR	R15	RETURN	PT219190
1626	2430	1920	LIS	R3,0		PT219200
1628	9A63	1921	WDR	R6,R3	PUNCH BLANK FRAME	PT219210
162A	9D69	1922	SSR	R6,R8		PT219220
162C	2081	1923	BTBS	8,1		PT219230
162E	2206	1924	BS	\$TAPLP	CONTINUE.	PT219240
		1925 *				PT219250
		1926		END		PT219260

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ASSEMBLED BY CAL 03-066R05-00 (32-BIT)

START OPTIONS: SCR,CRO,T=16

NO CAL ERRORS

NO CAL WARNINGS

2 PASSES

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R14	0000 000E	23*	133	140	142	164	386	392	397	401	596	685	697	750
		758	773	774	792	803	819	820	847	866	899	957	1086	1094
		1096	1100	1104	1106	1110	1121	1127	1131	1137	1143	1147	1156	1162
		1165	1173	1179	1352	1422	1430	1433	1440	1450	1459	1475	1494	1501
		1504	1507	1510	1516	1522	1529	1536	1543	1555	1560	1571	1573	1595
		1597	1631	1640	1645	1652	1663	1681	1688	1690	1692	1786		
R15	0000 000F	24*	167	168	288	290	291	292	293	294	295	296	297	
		442	487	488	504	524	525	536	537	569	598	600	650	652
		671	673	686	698	721	751	752	753	760	793	794	795	804
		848	849	850	867	900	901	902	921	958	959	960	988	989
		1230	1233	1247	1248	1255	1258	1269	1290	1314	1317	1325	1327	1329
		1331	1333	1335	1337	1339	1341	1343	1345	1347	1349	1351	1353	1561
		1572	1573	1582	1586	1592	1596	1597	1605	1612	1632	1646	1696	1698
		1700	1702	1704	1706	1708	1710	1715	1721	1729	1730	1731	1733	1734
		1781	1892	1899	1912	1919								
R2	0000 0002	11*	28	32	47	53	92	118	121	122	125	126	139	174
		175	176	177	178	179	181	183	187	189	192	197	201	206
		208	213	225	246	249	250	251	252	253	255	275	277	281
		283	379	380	383	385	461	461	462	462	463	465	473	477
		482	483	484	486	494	512	513	514	518	519	520	529	532
		641	642	643	655	664	676	696	700	701	711	712	714	719
		736	747	757	776	777	802	828	829	844	854	855	856	861
		865	905	906	914	916	948	954	962	963	966	968	969	970
		975	976	982	983	987	1002	1003	1085	1224	1227	1237	1238	1241
		1245	1246	1254	1287	1291	1292	1293	1311	1328	1420	1578	1581	1601
		1604	1672	1673	1674	1675	1677	1679	1682	1683	1684	1687	1743	1744
		1745	1747	1760	1762	1770	1771	1776	1873	1882	1884	1908		
R3	0000 0003	12*	34	99	100	126	129	130	179	181	189	190	206	213
		253	275	281	328	329	330	331	332	333	334	335	336	383
		444	445	470	471	477	484	520	528	534	556	576	638	660
		712	719	736	777	829	856	906	966	983	1005	1006	1246	1330
		1579	1602	1674	1675	1677	1684	1745	1762	1763	1768	1771	1776	1777
		1874	1894	1903	1920	1921								
R4	0000 0004	13*	36	37	38	40	48	50	247	250	277	278	279	283
		284	285	361	362	363	364	368	369	370	381	385	510	514
		708	714	715	716	964	968	1008	1009	1091	1092	1101	1102	1113
		1116	1118	1134	1135	1150	1153	1225	1227	1332	1427	1428	1431	1432
		1460	1469	1470	1471	1472	1473	1558	1559	1736	1741	1747	1770	1773
		1773	1875	1877	1879	1883	1883	1884	1901	1905				
R5	0000 0005	14*	38	40	41	41	43	44	45	48	50	56	248	256
		258	260	261	382	511	529	530	710	711	965	1114	1117	1119
		1151	1154	1226	1334	1461	1486	1520	1523	1524	1526	1530	1531	1533
		1537	1538	1540	1544	1545	1576	1576	1584	1591	1737	1742	1876	1877
		1904	1905	1906										
R6	0000 0006	15*	35	45	52	258	259	260	853	855	1166	1170	1171	1336
		1476	1477	1480	1484	1485	1486	1498	1502	1508	1528	1542	1888	1889
		1890	1895	1896	1906	1909	1921	1922						
R7	0000 0007	16*	54	55	56	701	702	703	705	732	740	787	841	911
		952	970	971	972	974	976	977	978	980	1167	1338	1477	1478
		1479	1483	1484	1497	1499	1505	1521	1535	1720	1740			
R8	0000 0008	17*	46	47	52	53	1089	1090	1168	1169	1340	1425	1426	1441
		1443	1468	1495	1496	1518	1519	1527	1534	1541	1556	1557	1922	
R9	0000 0009	18*	1093	1103	1111	1112	1115	1120	1122	1123	1126	1132	1133	1136
		1138	1139	1142	1148	1149	1152	1155	1157	1158	1161	1172	1174	1175
		1178	1342	1429	1449	1474	1480	1481	1482	1483	1500	1503	1506	1509

INTERDATA PROCESSOR TEST 06-106R08A13 PART 2

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READ1	0000 13F0	1517	1634	1648		397	1671*
READ3	0000 13FE	1677*					
RENTRO	0000 065E	362*	365				
RENTR1	0000 0692	383*					
RENTR2	0000 066E	368*	371				
RENTR3	0000 06A8	388	391*	399			
RENTRb	0000 06B4	390	394*				
REnTR8	0000 06E8	404	409*				
RENTTRY	0000 05E8	287	327*	393	1182	1562	1750
RESTORE	0000 086E	556*	639	648	662	669	
S1END	0000 085A	536	539*				
S1INT	0000 07C6	470	490*				
S1K	0000 07F0	499	501	503	506*		
S1K.1	0000 07FE	510*					
S1M	0000 079E	475	477*				
S1MM	0000 0822	520*					
S1P	0000 073A	441	444*				
S1P1	0000 074C	446	450*				
S1P2	0000 0750	449	452*				
S1PP	0000 082A	522	523*				
S1QQ	0000 07A6	479	480*				
S1R4	0000 0832	525*	531	533	535		
S1RA	0000 0734	434	436	438	442*	448	451
S1RB	0000 07C0	488*	493			455	457
S1R81	0000 07EA	495	498	504*	509		
S1T	0000 083A	529*					
S1XINT	0000 0838	515	528*				
S2	0000 0862	552*					
S21C	0000 0A0C	706	707*				
S21D	0000 0A10	707	708*				
S21E	0000 0A1C	712*	717				
S21F	0000 0A2C	719*					
S21G	0000 0A36	695	723*	731			
S21H	0000 0A62	736*					
S22	0000 0A6E	746*					
S22A	0000 0A96	756	757*				
S22B	0000 0A92	755	756*				
S22D	0000 0AA4	746	762*				
S22E	0000 0AD4	777*					
S23	0000 0AE8	788*					
S23A	0000 0B16	800	801*				
S23A2	0000 0B1A	801	802*				
S23D	0000 0B28	788	806*				
S23E	0000 0B30	797	810*				
S23E1	0000 0B36	812	814*				
S23F	0000 0B70	829*					
S24	0000 0B74	840*					
S24B	0000 0BA6	856*					
S24D	0000 0BD6	859	873*				
S24IN	0000 0BCE	843	869*				
S24P	0000 0BBC	863	864*				
S24P4	0000 0BC0	864	865*				
S25	0000 0BFA	881	893*				
S25C	0000 0C2A	906*					

S25D	0000 0C42	912	913*									
S25E	0000 0C46	913	914*									
S25INK	0000 0C5E	908	926*									
S25INT	0000 0C52	895	918*									
S26	0000 0C88	947*										
S26C	0000 0CCC	966*										
S26D	0000 0D00	983*										
S26E	0000 0D08	985	986*									
S26F	0000 0D0C	986	987*									
S26IN	0000 0D1A	953	992*									
S26MSD	0000 0D07	248	965 1068 1075*									
S26MSG	0000 0D5C	247	964 1067 1069*									
S2BUF1	0000 0D9A	708	716 749 750	773	791	792	819	846	847	898	899	1046*
S2D	0000 0A82	765	767*									
S2INBF	0000 0D4C	950	956	995	1059*							
S2NBFD	0000 0DB5	957	1064*									
S2R1	0000 0A30	721*	727	730	733	735						
S2R2	0000 0A9E	760*	769	772	775	780						
S2R3	0000 0B22	804*	809	815	818	821	823	825	827			
S2R4	0000 0HC8	867*	872	880	883							
S2R5	0000 0C58	917	921*	928	931	934						
S2R6	0000 0D14	989*	998	1001	1004	1007	1010					
S31	0000 0DE4	1088*										
S31A	0000 0DEC	1091*	1097									
S32	0000 0E02	1093	1099*									
S32B	0000 0E0A	1101*	1107									
S33	0000 0E20	1103	1109*									
S33A	0000 0E28	1111*	1128									
S34	0000 0E5E	1120	1126	1130*								
S34A	0000 0E66	1132*	1144									
S35	0000 0E92	1136	1142	1146*								
S35A	0000 0E9A	1148*	1163									
S36	0000 0ECE	1155	1161	1164*								
S36B	0000 0EE2	1169*										
S36C	0000 0ED6	1166*	1180									
S3BUF	0000 0F0E	1166	1167	1183*								
S3END	0000 0FOA	1172	1178	1182*								
S45B	0000 0F30	1194	1208	1212*								
S45C	0000 0F5C	1224*										
S4A	0000 0F1E	1193	1194*									
S4B	0000 0F6E	1230*	1243	1312								
S4B4	0000 0F7A	1231	1236*									
S4B6	0000 0F8C	1240	1244*									
S4B61	0000 0F9E	1247	1250*									
S4C	0000 0FB2	1256	1261*									
S4END	0000 0FC6	1267*										
S4INT	0000 0FFC	1212	1286*									
S4MM	0000 1112	1192	1206	1287	1410*							
S4R1	0000 0F74	1233*										
S4R2	0000 0FAC	1258*										
S4R3	0000 0FCA	1269*	1283									
S4R4	0000 1004	1290*	1302									
S4R4B	0000 1008	1292*	1294									
S5A	0000 0F2C	1207	1208*									
S5B	0000 1028	1301	1302*									

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TERM1	0000 0478	194*
TERM2	0000 07D4	496*
TERM3	0000 0AAA	765*
TERM4	0000 0B30	811*
TERM5	0000 0BF2	875 882*
TESTNO	0000 1514	171 394 429 1796*
TITEND	0000 1547	124 1817*
TITLE2	0000 152E	123 1809*
TSTBRK	0000 14C0	487 1561 1632 1646 1756*
TSTBRK1	0000 14CE	1761* 1769 1784
TSTBRK11	0000 14EE	1767 1775*
TSTBRK12	0000 14D8	538 1249 1765* 1778
TSTBRK2	0000 14F6	1774 1779*
TSTBRK8	0000 14FC	1764 1782*
TSTBRKC	0000 14B8	524 988 1582 1592 1605 1752*
TTBRK	0000 14C6	1755 1759*
TTYIO	0000 0354	83 102*
WBSTRT	0000 0D88	176 1067*
WRITE1	0000 140A	133 164 392 401 1086 1100 1110 1131 1147 1165 1422 1440 1459
wRITE3	0000 1412	1494 1516 1555 1682* 1690 1692
ZERO	0000 0F12	1095 1105 1124 1125 1140 1141 1159 1160 1176 1177 1185*

PROG= S16P3 ASSEMBLED BY CAL 03-066R05-00 (32-BIT)

		1	CROSS	PT300010	
		2	WIDTH 120	PT300020	
		3	TARGT 16	PT300030	
		4	S16P3 PROG INTERDATA PROCESSOR TEST 06-106R08M96	PART 3	PT300040
		5	*	PT300050	
		6	* COPYRIGHT INTERDATA, INC. (AUGUST 1977)	PT300060	
		7	*	PT300070	
		8	*	PT300080	
	0000 0000	9	R0 EQU 0	PT300090	
	0000 0001	10	R1 EQU 1	PT300100	
	0000 0002	11	R2 EQU 2	PT300110	
	0000 0003	12	R3 EQU 3	PT300120	
	0000 0004	13	R4 EQU 4	PT300130	
	0000 0005	14	R5 EQU 5	PT300140	
	0000 0006	15	R6 EQU 6	PT300150	
	0000 0007	16	R7 EQU 7	PT300160	
	0000 0008	17	R8 EQU 8	PT300170	
	0000 0009	18	R9 EQU 9	PT300180	
	0000 000A	19	R10 EQU 10	PT300190	
	0030 000B	20	R11 EQU 11	PT300200	
	0000 000C	21	R12 EQU 12	PT300210	
	0000 000D	22	R13 EQU 13	PT300220	
	0000 000E	23	R14 EQU 14	PT300230	
	0000 000F	24	R15 EQU 15	PT300240	
		25	*	PT300250	
	0000R	26	ORG X'80'	PT300260	
		27	*	PT300270	
	0080 2421	28	LIS R2,1	PT300280	
	0032 2303	29	BS BOOT	PT300290	
	0084 02DE	30	DC Z(PSWAVE)	PT300300	
	0086 0F05	31	DC Z(BUFR2)	PT300310	
	0088 4020 0022	32	BOOT STH R2,X'22'	PT300320	
	008C C810 02D0	33	LHI R1,X'2D0'	PT300330	
	0090 C830 1001	34	LHI R3,LNzb	PT300340	
	0094 C860 0000	35	MN LHI R6,0	PT300350	
	0098 D340 0078	36	LB R4,X'78'	PT300360	
	009C DE40 0079	37	OC R4,X'79'	PT300370	
	00A0 9D45	38	LEADER SSR R4,R5	PT300380	
	00A2 2081	39	BTBS 8,1	PT300390	
	00A4 9B45	40	RDR R4,R5	PT300400	
	00A6 0855	41	LDAR R5,R5	PT300410	
	00A8 2234	42	BZS LEADER	PT300420	
	00AA D251 0000	43	LOAD STB R5,0(R1)	PT300430	
	00AE D351 0000	44	LB R5,0(R1)	PT300440	
	00B2 0765	45	XAR R6,R5	PT300450	
	00B4 9481	46	EXBR R8,R1	PT300460	
	00B6 9628	47	WHR R2,R8	PT300470	
	00B8 9D45	48	SSR R4,R5	PT300480	
	00BA 2091	49	BTBS 9,1	PT300490	
	00BC 9B45	50	RDR R4,R5	PT300500	
	00BE C110 00AA	51	BXLE R1,LOAD	PT300510	
	00C2 9486	52	EXBR R8,R6	PT300520	
	00C4 9828	53	WHR R2,R8	PT300530	

00C6	2478	54	LDWT	LIS R7,8	PT300540	
00C8	917C	55		SLLS R7,12	PT300550	
00CA	9557	56		EPSR R5,R7	PT300560	
00CC	2203	57		BS LDWT	PT300570	
00CE		58		ORG X'2D0'	PT300580	
02D0	4300 02E0	59	ORIGIN1	B ENTRY1	PT300590	
		60	*****			PT300600
02D4	0202	61	IO	DCX 0202	IO INDICATOR	PT300610
02D6	0101	62	CRT	DCX 0101	CRT VALUE	PT300620
02D8	0202	63	CONAUR	DCX 0202	CONSL	PT300630
02DA	0404	64	CAR	DCX 0404	CAROUSEL VALUE	PT300640
02DC	1011	65	PASADR	DCX 1011	PASLA ADDRESS REC/SND DEFAULT 1	PT300650
02DE	0000	66	PSWAVE	DC 0	PSW STORAGE AREA	PT300660
		67	*			PT300670
		68	*			PT300680
	0000 02E0	69	ENTRY1	EQU *		PT300690
02E0	C200 02E4	70	PART2	LPSW PART2A		PT300700
02E4	0000	71	PART2A	DC 0,PART2AA		PT300710
		72	*****			PT300720
	0000 02E8	73	PART2AA	EQU *		PT300730
02E8	C800 F800	74		LHI R0,X'F800'		PT300740
02EC	4000 104A	75		STH R0,FIRSTCMD		PT300750
02F0	D300 02D4	76	IOTEST1	LB R0,IO		PT300760
02F4	C500 0004	77		CLHI R0,4		PT300770
02F8	2135	78		BNES CRTIO		PT300780
02FA	C800 F000	79		LHI R0,X'F000'		PT300790
02FE	4000 104A	80		STH R0,FIRSTCMD		PT300800
0302	D300 02D4	81	CRTIO	LB R0,IO		PT300810
0306	C500 0002	82		CLHI R0,2		PT300820
030A	4330 0354	83		BE TTYIO		PT300830
030E	C600 B979	84		LHI R0,X'B979'		PT300840
0312	4000 1052	85		STH R0,\$C4		PT300850
0316	C800 6B6B	86		LHI R0,X'6B6B'		PT300860
031A	4000 1054	87		STH R0,\$58		PT300870
031E	C800 7979	88		LHI R0,X'7979'		PT300880
0322	4000 1056	89		STH R0,\$44		PT300890
0326	C800 7979	90		LHI R0,X'7979'		PT300900
032A	4000 1058	91		STH R0,\$66		PT300910
032E	D320 1044	92		LB R2,CRTOUT		PT300920
0332	D310 1045	93		LB R1,CRTOUT+1		PT300930
0336	D210 1043	94		STB R1,INCMND		PT300940
033A	D310 02DC	95		LB R1,PASADR		PT300950
033E	D210 104F	96		STB R1,INDEV		PT300960
0342	D310 02DD	97		LB R1,PASADR+1		PT300970
0346	DE10 104A	98		OC R1,FIRSTCMD		PT300980
034A	2531	99		LCS R3,1		PT300990
034C	4030 1048	100		STH R3,CRTFLG		PT301000
0350	4300 0392	101		B I02		PT301010
	0000 0354	102	TTYIO	EQU *		PT301020
0354	C810 00A4	103		LHI R1,X'A4'		PT301030
0358	D210 1043	104		STB R1,INCMND		PT301040
035C	C800 C454	105		LHI R0,X'C454'		PT301050
0360	4000 1052	106		STH R0,\$C4		PT301060
0364	C800 5848	107		LHI R0,X'5848'		PT301070

0368	4000 1054	108	STH	R0,\$58	PT301080	
036C	C800 4456	109	LHI	R0,X'4456'	PT301090	
0370	4000 1056	110	STH	R0,\$44	PT301100	
0374	C800 6664	111	LHI	R0,X'6664'	PT301110	
0378	4000 1058	112	STH	R0,\$66	PT301120	
037C	D310 02D6	113	LB	R1,CONADR	PT301130	
0380	D210 104F	114	STB	R1,INDEV	PT301140	
0384	2410	115	LIS	R1,0	PT301150	
0386	4010 104E	116	STH	R1,CRTFLG	PT301160	
038A	D310 02D8	117	LB	R1,CONADR	PT301170	
038E	D320 1046	118	LB	R2,CONOUT	PT301180	
	0000 0392	119	I02	EQU *	PT301190	
0392	D210 104E	120	STB	R1,OUTDEV	PT301200	
0396	D220 1042	121	STB	R2,OUTCMD	PT301210	
039A	D320 104E	122	PART2B	LB R2,OUTDEV	R2 = ADD. OF TTY	PT301220
039E	C8A0 1026	123	LHI	R10,TITLE2	PRINT	PT301230
03A2	C880 103F	124	LHI	R11,TITEND	PT301240	
03A6	DE20 1042	125	PART2C	OC R2,OUTCMD	PROCESSOR TEST PART 2	PT301250
03AA	9U23	126	PART2D	SSR R2,R3	PT301260	
03AC	4210 03A6	127	BTC	1,PART2C	TTY DEV. UNAVA. ?	PT301270
03B0	4280 03AA	128	BTC	8,PART2D	TTY BUSY ?	PT301280
03B4	C430 00FC	129	NHI	R3,X'FC'	PT301290	
03B8	C530 000C	130	CLHI	R3,X'0C'	PT301300	
03BC	4330 03AA	131	BE	PART2D	PT301310	
03C0	D30A 0000	132	LB	R0,0(R10)	PT301320	
03C4	41E0 0F42	133	BAL	R14,WRITE1	PT301330	
03C8	26A1	134	AIS	R10,1	PT301340	
03CA	05A8	135	CLHR	R10,R11	PT301350	
		136	*		PT301360	
03CC	4230 03AA	137	BNE	PART2D	PT301370	
		138	*		PT301380	
03D0	0320 104F	139	LB	R2,INDEV	PT301390	
03D4	41E0 0F26	140	BAL	R14,READ1	PT301400	
03D8	D200 1040	141	STB	R0,CPUNO	PT301410	
03DC	41E0 0F26	142	BAL	R14,READ1	PT301420	
03E0	D200 1041	143	STB	R0,CPUNO+1	PT301430	
03E4	4800 1040	144	LH	R0,CPUNO	PT301440	
03E8	C500 3035	145	CLHI	R0,C'05'	PT301450	
03EC	2336	146	BES	MOD57	PT301460	
03EE	C500 3730	147	M5007	CLHI R0,C'70'	PT301470	
03F2	2336	148	BES	MOD578	PT301480	
03F4	C500 3830	149	CLHI	R0,C'80'	PT301490	
03F8	2333	150	M0D57	BES MOD578	PT301500	
03FA	C500 3835	151	CLHI	R0,C'85'	PT301510	
03FE	4330 040E	152	M0D578	BE RENTRY	PT301520	
0402	C800 003F	153	CPUERR	LHI R0,C'?'	PT301530	
0406	41E0 0F42	154	BAL	R14,WRITE1	PT301540	
040A	4300 02E0	155	S	PART2	PT301550	
		156	*		PT301560	
		157	*		PT301570	
		158	*	FLPTWT = FLPT ARITHMETIC FAULT INTERRUPT	PT301580	
		159	*		PT301590	
		160	*	ILGINT = ILLEGAL INSTRUCTION INTERRUPT	PT301600	
		161	*		PT301610	
		162	*	MALFTW = MACHINE MALFUNCTION INTERRUPT	PT301620	

163	*				PT301630
164	*	EXTINT	= EXTERNAL INTERRUPT		PT301640
165	*				PT301650
166	*	DVDFLT	= FIXED POINT DIVIDE FAULT INTERRUPT		PT301660
167	*				PT301670
168	*	CHANIO	= CHANNEL I/O TERMINATION INTERRUPT		PT301680
169	*				PT301690
170	*	QVRFLO	= TERMINATION QUEUE OVERFLOW INTERRUPT		PT301700
171	*				PT301710
172	*				PT301720
173	*	SVCERR	= INCORRECT SVC INTRPT		PT301730
174	*				PT301740
175	*	DEVERR	= INCORRECT SERVICE POINTER USED OR		PT301750
176	*	*	= INCORRECT DEV. GENERATED INTRPT.		PT301760
177	*				PT301770
040E	41C0 0F58	178	RETRY	BAL R12,CRLF	PT301780
0412	24F0	179	LIS	R15,0	PT301790
0414	40F0 1022	180	STH	R15,TEMP	PT301800
0418	2430	181	LIS	R3,0	PT301810
041A	4030 104C	182	STH	R3,IOERHW	PT301820
041E	4030 002C	183	M5008	STH R3,X'2C'	NEW PSW FLPT ARITH. FAULT INTRPT. PT301830
0422	4030 0034	184	STH	R3,X'34'	NEW PSW ILLG. INSTR. INTRPT. PT301840
0426	4030 003C	185	STH	R3,X'3C'	NEW PSW MCHN. MALFNTN. INTRPT. PT301850
042A	4030 0044	186	STH	R3,X'44'	NEW PSW EXTERNAL INTRPT. PT301860
042E	4030 004C	187	STH	R3,X'4C'	NEW PSW FXDPT. DIV. FAULT INTRPT. PT301870
0432	4030 0086	188	STH	R3,X'86'	NEW PSW CHAN. I/O TERM. INTRPT. PT301880
0436	4030 0090	189	M5009	STH R3,X'90'	NEW PSW TERM. Q OVERFLO. INTRPT PT301890
		190	*		PT301900
		191	*		PT301910
043A	C810 0F6E	192	LHI	R1,ILGINT	NEW PSW ADDRESS FOR PT301920
043E	4010 0036	193	STH	R1,X'36'	ILLEGAL INSTR. INTRPT. PT301930
0442	C810 0F72	194	LHI	R1,MALFTN	NEW PSW ADDRESS FOR PT301940
0446	4010 003E	195	STH	R1,X'3E'	MACHINE MALFUNCTION INTERRUPT PT301950
044A	C810 0F76	196	LHI	R1,EXTINT	NEW PSW ADDRESS FOR PT301960
044E	4010 0046	197	STH	R1,X'46'	EXTERNAL INTERRUPT PT301970
0452	C810 0F6A	198	LHI	R1,FLPTNT	NEW PSW ADDRESS FOR PT301980
0456	4010 002E	199	STH	R1,X'2E'	FLPT ARITH. FAULT INTRPT. PT301990
045A	C810 0F7A	200	LHI	R1,DVDFLT	NEW PSW ADDRESS FOR PT302000
045E	4010 004E	201	STH	R1,X'4E'	FIXED PT. DIV. FAULT INTRPT. PT302010
0462	C810 105A	202	LHI	R1,TABLE	PT302020
0466	4010 0080	203	STH	R1,X'80'	PT302030
046A	C810 0F7E	204	LHI	R1,CHANIO	PT302040
046E	4010 0088	205	STH	R1,X'88'	PT302050
0472	C810 0F82	206	LHI	R1,QVRFLO	PT302060
0476	4010 0092	207	STH	R1,X'92'	NEW PSW ADDRESS FOR PT302070
		208	*	TERM. QUEUE OVERFLO INTRPT.	
		209	*		PT302080
047A	C800 0F06	210	LHI	R0,BUFR2	PT302090
047E	4000 0022	211	STH	R0,X'22'	PT302100
		212	*		PT302110
0482	C800 0F86	213	LHI	R0,SVCERR	PT302120
0486	C840 009C	214	LHI	R4,X'9C'	PT302130
048A	4004 0000	215	RENTRO	STH R0,0(R4)	PT302140
048E	2642	216	AIS	R4,2	PT302150
0490	C540 00D0	217	CLHI	R4,X'D0'	PT302160
					PT302170

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0494	2035	218	BNES RENTR0	PT302180	
		219 *		PT302190	
0496	C800 0F8A	220	LHI R0,DEVERR	PT302200	
049A	4004 0000	221	RENTR2 STH R0,0(R4)	PT302210	
049E	2642	222	AIS R4,2	PT302220	
04A0	C540 02D0	223	CLHI R4,X'2D0'	PT302230	
04A4	2035	224	BNES RENTR2	PT302240	
		225 *		PT302250	
		226 *	RESET THE TABLE	PT302260	
		227 *		PT302270	
04A6	C800 0400	228	LHI R0,X'400'	PT302280	
04AA	4000 105A	229	STH R0,TABLE	PT302290	
		230 *		PT302300	
		231 *		PT302310	
04AE	C200 04B2	232	LPSW *+4	PT302320	
04B2	7C00	233	KPIO1 DC X'7C00',*+2	PT302330	
04B4	04B6	234	RENTR8 B SUBTO	PT302340	
04B6	4300 048A	235	*****	PT302350	
		236 *		PT302360	
		237 *	TEST PROGRAM FOR FLOATING POINT INSTRUCTIONS	PT302370	
		238 *	LE/LER	PT302380	
		239 *	STE	PT302390	
		240 *	AE/AER	PT302400	
		241 *	SE/SER	PT302410	
		242 *	ME/MER	PT302420	
		243 *	DE/DER	PT302430	
		244 *	CE/CER	PT302440	
		245 *		PT302450	
		246 *	GENERAL REGISTER ASSIGNMENT	PT302460	
0000 000F		247 TOT	EQU 15	PT302470	
0000 0005		248 GR5	EQU 5	PT302480	
0000 0006		249 GR6	EQU 6	PT302490	
0000 0007		250 GR7	EQU 7	PT302500	
0000 0008		251 GR8	EQU 8	PT302510	
0000 0009		252 GR9	EQU 9	PT302520	
0000 000A		253 GR10	EQU 10	PT302530	
0000 000B		254 GR11	EQU 11	PT302540	
0000 000C		255 GR12	EQU 12	PT302550	
0000 000D		256 PNT	EQU 13	PT302560	
0000 000E		257 GR14	EQU 14	PT302570	
0000 000F		258 GR15	EQU 15	PT302580	
0000 0000		259 DISABL	EQU 0	PT302590	
0000 0001		260 SWAP	EQU 1	PT302600	
		261 *		PT302610	
		262 *	LOAD STORE CHECK	PT302620	
04BA	24F1	263 SUBTO	LIS TOT,1	SET ERROR NUMBER=1	PT302630
04BC	C850 0B88	264 LDST	LHI GR5,ERROR1		PT302640
04C0	C860 0400	265	LHI GR6,X'400'		PT302650
04C4	4060 002C	266	STH GR6,X'2C'	SET FAULT PSW	PT302660
04C8	4050 002E	267	STH GR5,X'2E'	SET FAULT LOC	PT302670
04CC	9556	268	EPSR GR5,GR6	SET CURRENT PSW	PT302680
04CE	C800 7777	269	LHI R0,X'7777'	SET CC PRINT FLAG	PT302690
04D2	4000 0F06	270	STH R0,BUFR2		PT302700
04D6	6800 UC86	271	LE 0,LSD0	DATA0 TO REG. 0	PT302710

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04DA	42F0	0FA2	272	BTC	X'F',ERROR	EXPECTED CC=0	PT302720
04DE	4190	0FAA	273	BAL	GR9,COMP0	CHECK RESULT	PT302730
04E2	0C8A		274	DC	LSR0	ZERO RESULT	PT302740
04E4	26F1		275	AIS	TOT,1	SET ERROR NUMBER=2	PT302750
04E6	6800	0C8E	276	LE	0,LSD1	NORMALIZED	PT302760
04EA	4320	0FA2	277	BFC	2,ERROR	EXPECTED CC=2	PT302770
04EE	42D0	0FA2	278	BTC	X'D',ERROR		PT302780
04F2	4190	0FAA	279	BAL	GR9,COMP0	CHECK RESULT	PT302790
04F6	0C92		280	DC	LSR1		PT302800
04F8	26F1		281	AIS	TOT,1	SET ERROR NUMBER=3	PT302810
04FA	6820	0C9E	282	LE	2,LSD2	NEG. NORMALIZED	PT302820
04FE	4310	0FA2	283	BFC	1,ERROR	CC=1	PT302830
0502	42E0	0FA2	284	BTC	X'E',ERROR		PT302840
0506	4190	0B02	285	BAL	GR9,COMP2	CHECK	PT302850
050A	0C9A		286	DC	LSR2		PT302860
050C	26F1		287	AIS	TOT,1	SET ERROR NUMBER=4	PT302870
050E	6820	0C9E	288	LE	2,LSD3	POSITIVE NORMALIZED	PT302880
0512	4320	0FA2	289	BFC	2,ERROR	CC=2	PT302890
0516	42D0	0FA2	290	BTC	X'D',ERROR		PT302900
051A	4190	0B02	291	BAL	GR9,COMP2	CHECK	PT302910
051E	0CA2		292	DC	LSR3		PT302920
0520	2802		293	LER	0,2	R2 R3 TO R0 & R1	PT302930
0522	4320	0FA2	294	BFC	2,ERROR	CC=2	PT302940
0526	42D0	0FA2	295	BTC	X'D',ERROR		PT302950
052A	4190	0FAA	296	BAL	GR9,COMP0		PT302960
052E	0CA2		297	DC	LSR3	POSITIVE NORMALIZED	PT302970
0530	26F1		298	AIS	TOT,1	SET ERROR NUMBER=5	PT302980
0532	6840	0CA6	299	LE	4,LSD4	POSITIVE UNNORMALIZED	PT302990
0534	4320	0FA2	300	BFC	2,ERROR	CC=2	PT303000
053A	42D0	0FA2	301	BTC	X'D',ERROR		PT303010
053E	4190	0B0A	302	BAL	GR9,COMP4		PT303020
0542	0CAA		303	DC	LSR4		PT303030
0544	26F1		304	AIS	TOT,1	SET ERROR NUMBER=6	PT303040
0546	6840	0CAE	305	LE	4,LSD5	POSITIVE UNNORMALIZED	PT303050
054A	4320	0FA2	306	BFC	2,ERROR	CC=2	PT303060
054E	42D0	0FA2	307	BTC	X'D',ERROR		PT303070
0552	4190	0B0A	308	BAL	GR9,COMP4		PT303080
0556	0CB8		309	DC	LSR5		PT303090
0558	26F1		310	AIS	TOT,1	SET ERROR NUMBER=7	PT303100
055A	6860	0CB6	311	LE	6,LSD6	NEG. UNNORM.	PT303110
055E	4310	0FA2	312	BFC	1,ERROR	CC=1	PT303120
0562	42E0	0FA2	313	BTC	X'E',ERROR		PT303130
0566	4190	0B12	314	BAL	GR9,COMP6		PT303140
056A	0CBA		315	DC	LSR6		PT303150
056C	2846		316	LER	4,6	R6& R7 TO R4 &R5	PT303160
056E	4310	0FA2	317	BFC	1,ERROR		PT303170
0572	42E0	0FA2	318	BTC	X'E',ERROR		PT303180
0576	4190	0B0A	319	BAL	GR9,COMP4		PT303190
057A	0CBA		320	DC	LSR6		PT303200
057C	26F1		321	AIS	TOT,1	SET ERROR NUMBER=8	PT303210
057E	6860	0CBE	322	LE	6,LSD7	POS. UNNORM.	PT303220
0582	4320	0FA2	323	BFC	2,ERROR	CC=2	PT303230
0586	42D0	0FA2	324	BTC	X'D',ERROR		PT303240
058A	4190	0B12	325	BAL	GR9,COMP6		PT303250
058E	0CC2		326	DC	LSR7		PT303260

0590	26F1	327	AIS	TOT,1	SET ERROR NUMBER=9	PT303270
0592	6880 0CC6	328	LE	8,LSD8	NEG. UNNORM.	PT303280
0596	4310 OFA2	329	BFC	1,ERROR	CC=1	PT303290
059A	42E0 OFA2	330	BTC	X'E',ERROR		PT303300
059E	4190 0B1A	331	BAL	GR9,COMP8		PT303310
05A2	0CCA	332	DC	LSR8		PT303320
05A4	26F1	333	AIS	TOT,1	SET ERROR NUMBER=X'A'	PT303330
05A6	6880 OCCE	334	LE	8,LSD9	POS. ILLEG.ZERO	PT303340
05AA	42F0 OFA2	335	BTC	X'F',ERROR	CC=0	PT303350
05AE	4190 0B1A	336	BAL	GR9,COMP8		PT303360
05B2	0CD2	337	DC	LSR9		PT303370
05B4	26F1	338	AIS	TOT,1	SET ERROR NUMBER=X'B'	PT303380
05B6	68A0 OCD6	339	LE	10,LSD10	NEG. ILLEG.ZERO	PT303390
05BA	42F0 OFA2	340	BTC	X'F',ERROR	CC=0	PT303400
05BE	4190 0B22	341	BAL	GR9,COMP10		PT303410
05C2	0CDA	342	DC	LSR10		PT303420
05C4	C8A0 0B5A	343	LHI	GR10,FAULT1	SET FAULT PSW FOR	PT303430
05C8	40A0 002E	344	STH	GR10,X'2E'	OVERFLOW CHECK	PT303440
05CC	26F1	345	AIS	TOT,1	SET ERROR NUMBER=X'C'	PT303450
05CE	68A0 0CDE	346	LE	10,LSD11	UNDERFLOW EXPECTED	PT303460
05D2	4300 0BB8	347	T3B	B	ERROR1	PT303470
05D6	4340 OFA2	348	BFC	4,ERROR	CC=4	PT303480
05DA	42B0 OFA2	349	BTC	X'B',ERROR		PT303490
05DE	C570 05D2	350	CLHI	GR7,T3B	CHECK ADDRESS	PT303500
05E2	4230 0BB8	351	BNE	ERROR1		PT303510
05E6	4190 0B22	352	BAL	GR9,COMP10		PT303520
05EA	0CE2	353	DC	LSR11		PT303530
05EC	26F1	354	AIS	TOT,1	SET ERROR NUMBER=X'D'	PT303540
05EE	68C0 0CE6	355	LE	12,LSD12	UNDERFLOW EXPECTED	PT303550
05F2	4300 0BB8	356	T3C	B	ERROR1	PT303560
05F6	4340 OFA2	357	BFC	4,ERROR	CC= 4	PT303570
05FA	42B0 OFA2	358	BTC	X'B',ERROR		PT303580
05FE	C570 05F2	359	CLHI	GR7,T3C	CHECK ADDRESS	PT303590
0602	4230 0BB8	360	BNE	ERROR1		PT303600
0606	4190 0B2A	361	BAL	GR9,COMP12		PT303610
060A	0CEA	362	DC	LSR12		PT303620
060C	26F1	363	AIS	TOT,1	SET ERROR NUMBER=X'E'	PT303630
060E	68C0 0CEE	364	LE	12,LSD13	UNDERFLOW EXPECTED	PT303640
0612	4300 0BB8	365	T3D	B	ERROR1	PT303650
0616	4340 OFA2	366	BFC	4,ERROR		PT303660
061A	42B0 OFA2	367	BTC	X'B',ERROR		PT303670
061E	C570 0612	368	CLHI	GR7,T3D		PT303680
0622	4230 0BB8	369	BNE	ERROR1		PT303690
0626	4190 0B2A	370	BAL	GR9,COMP12		PT303700
062A	0CF2	371	DC	LSR13		PT303710
062C	28CC	372	LER	12.12	ZERO	PT303720
062E	42F0 OFA2	373	BTC	X'F',ERROR	CC=0	PT303730
0632	4190 0B2A	374	BAL	GR9,COMP12		PT303740
0636	0CF2	375	DC	LSR13		PT303750
0638	26F1	376	AIS	TOT,1	SET ERROR NUMBER=X'F'	PT303760
063A	0799	377	XHR	GR9,GR9		PT303770
063C	9579	378	EPSR	GR7,GR9	DISABLE FLOAT. PT FAULT. INTERRUPT	PT303780
063E	C870 0BB8	379	LHI	GR7,ERROR1	SET FLOAT. PT. FAULT	PT303790
0642	4070 002E	380	STH	GR7,X'2E'	NEW LOC	PT303800
0646	66E0 0CF6	381	LE	14,LSD14	UNDERFLOW OF NEG. OPERAND	PT303810

064A	4340	0FA2	382	BFC	4,ERROR		PT303820
064E	4280	0FA2	383	BTC	X'B',ERROR	CC=4	PT303830
0652	4190	0B32	384	BAL	GR9,COMP14		PT303840
0656	0CFA		385	DC	LSR14		PT303850
0658	68E0	0CFE	386	LE	14,LSD15	NEG. UNDERFLOW	PT303860
065C	4340	0FA2	387	BFC	4,ERROR	CC=4	PT303870
0660	4280	0FA2	388	BTC	X'B',ERROR		PT303880
0664	4190	0B32	389	BAL	GR9,COMP14		PT303890
0668	0D02		390	DC	LSR15		PT303900
066A	26F1		391	AIS	TOT,1	SET ERROR NUMBER=X'11'	PT303910
066C	68E0	0D06	392	LE	14,LSD16	NEG. UNDERFLOW	PT303920
0670	4340	0FA2	393	BFC	4,ERROR		PT303930
0674	4280	0FA2	394	BTC	X'B',ERROR		PT303940
0678	4190	0B32	395	BAL	GR9,COMP14		PT303950
067C	0D0A		396	DC	LSR16		PT303960
067E	4300	0682	397	B	ARITH	BRANCH TO 'ARITH'	PT303970
			398	*	ADD/SUBTRACT CHECK		PT303980
0682	0722		399	ARITH	XHR R2,R2		PT303990
0684	4020	002C	400	STH	R2,X'2C'	SET PSW FOR	PT304000
0688	C830	0C40	401	LHI	R3,FAULT	FLOATING POINT FAULT	PT304010
068C	4030	002E	402	STH	R3,X'2E'	INTERRUPT	PT304020
0690	C830	0400	403	LHI	R3,X'400'	ENABLE FLATING POINT	PT304030
0694	9523		404	EPSR	R2,R3	FAULT INTERRUPT	PT304040
0696	0711		405	XHR	SWAP,SWAP	REMOVE SWAP FLAG	PT304050
0698	0700		406	XHR	DISABL,DISABL	REMOVE DISABLE FLAG	PT304060
			407	*			PT304070
			408	*****			PT304080
			409	*			PT304090
069A	C850	0001	410	ADSUB	LHI GR5,1	INITIAL	PT304100
069E	C860	0001	411	LHI	GR6,1	INCREMENT	PT304110
06A2	C870	0006	412	LHI	GR7,6	FINAL (NUMBER OF OPERAND PAIRS)	PT304120
06A6	C800	0D0E	413	LHI	PNT,AS		PT304130
06AA	C8F0	0012	414	ASLOOP	LHI TOT,X'12'	SET ERROR NUMBER=X'12'	PT304140
06AE	686D	0000	415	LE	6,0(PNT)	FETCH A	PT304150
06B2	688D	0004	416	LE	8,4(PNT)	FETCH B	PT304160
06B6	48AD	0008	417	LH	GR10,8(PNT)	FETCH EXPECTED	PT304170
06BA	48BD	000A	418	LH	GR11,10(PNT)	(A+B)	PT304180
06BE	48CD	0010	419	LH	GR12,16(PNT)	FETCH EXPECTED CC	PT304190
06C2	68A0	0C80	420	LE	10,ZEROF		PT304200
06C6	2BA6		421	SER	10,6	GET (-A)	PT304210
06C8	68C0	0C80	422	LE	12,ZEROF		PT304220
06CC	2BC8		423	SER	12,8	GET (-B)	PT304230
06CE	2846		424	LER	4,6		PT304240
06D0	6A4D	0004	425	AE	4,4(PNT)	(A)+(B)	PT304250
06D4	4190	0B68	426	BAL	GR9,TEST	CHECK	PT304260
06D8	C8F0	0013	427	LHI	TOT,X'13'	SET ERROR NUMBER=X'13'	PT304270
06DC	2846		428	LER	4,6		PT304280
06DE	2B4C		429	SER	4,12	(A)-(-B)	PT304290
06E0	4190	0B68	430	BAL	GR9,TEST	CHECK	PT304300
06E4	C8F0	0014	431	LHI	TOT,X'14'	SET ERROR NUMBER=X'14'	PT304310
06E8	2848		432	LER	4,8		PT304320
06EA	6A4D	0000	433	AE	4,0(PNT)	(B)+(A)	PT304330
06EE	4190	0B68	434	BAL	GR9,TEST	CHECK	PT304340
06F2	C8F0	0015	435	LHI	TOT,X'15'	SET ERROR NUMBER=X'15'	PT304350
06F6	2848		436	LER	4,8		PT304360

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06F8	2B4A	437	SER	4,10	(B)-(-A)	PT304370
06FA	4190 0B68	438	BAL	GR9,TEST		PT304380
06FE	C8F0 0016	439	LHI	TOT,X'16'	SET ERROR NUMBER=X'16'	PT304390
0702	48CD 0016	440	LH	GR12,22(PNT)	FETCH EXPECTED CC FOR (-A-B)	PT304400
0706	47A0 0C7E	441	XH	GR10,NEG	GET (-A-B) IN GR10 AND GR11	PT304410
070A	284A	442	LER	4,10		PT304420
070C	2A4C	443	AER	4,12	(-A)+(-B)	PT304430
070E	4190 0B68	444	BAL	GR9,TEST	CHECK	PT304440
0712	C8F0 0017	445	LHI	TOT,X'17'	SET ERROR NUMBER=X'17'	PT304450
0716	284A	446	LER	4,10		PT304460
0718	6B4D 0004	447	SE	4,4(PNT)	(-A)-(B)	PT304470
071C	4190 0B68	448	BAL	GR9,TEST	CHECK	PT304480
0720	C8F0 0018	449	LHI	TOT,X'18'	SET ERROR NUMBER=X'18'	PT304490
0724	284C	450	LER	4,12		PT304500
0726	2A4A	451	AER	4,10	(-B)+(-A)	PT304510
0728	4190 0B68	452	BAL	GR9,TEST		PT304520
072C	C8F0 0019	453	LHI	TOT,X'19'	SET ERROR NUMBER=X'19'	PT304530
0730	284C	454	LER	4,12		PT304540
0732	6B4D 0000	455	SE	4,0(PNT)	(-B)-(A)	PT304550
0736	4190 0B68	456	BAL	GR9,TEST		PT304560
073A	C8F0 001A	457	LHI	TOT,X'1A'	SET ERROR NUMBER=X'1A'	PT304570
073E	48AD 000C	458	LH	GR10,12(PNT)	FETCH EXPECTED	PT304580
0742	48BD 000E	459	LH	GR11,14(PNT)	(A)-(B)	PT304590
0746	48CD 0012	460	LH	GR12,18(PNT)	FETCH EXPECTED CC	PT304600
074A	2846	461	LER	4,6		PT304610
074C	6B4D 0004	462	SE	4,4(PNT)	(A)-(B)	PT304620
0750	4190 0B68	463	BAL	GR9,TEST	CHECK	PT304630
0754	C8F0 001B	464	LHI	TOT,X'1B'	SET ERROR NUMBER=X'1B'	PT304640
0758	2846	465	LER	4,6		PT304650
075A	2A4C	466	AER	4,12	(A)+(-B)	PT304660
075C	4190 0B68	467	BAL	GR9,TEST	CHECK	PT304670
0760	C8F0 001C	468	LHI	TOT,X'1C'	SET ERROR NUMBER=X'1C'	PT304680
0764	284C	469	LER	4,12		PT304690
0766	6A4D 0000	470	AE	4,0(PNT)	(-B)+(A)	PT304700
076A	4190 0B68	471	BAL	GR9,TEST	CHECK	PT304710
076E	C8F0 001D	472	LHI	TOT,X'1D'	SET ERROR NUMBER=X'1D'	PT304720
0772	284C	473	LER	4,12		PT304730
0774	2B4A	474	SER	4,10	(-B)-(-A)	PT304740
0776	4190 0B68	475	BAL	GR9,TEST	CHECK	PT304750
077A	C8F0 001E	476	LHI	TOT,X'1E'	SET ERROR NUMBER=X'1E'	PT304760
077E	48CD 0014	477	LH	GR12,20(PNT)	FETCH EXPECTED CC FOR (B-A)	PT304770
0782	C5A0 0000	478	CLHI	GR10,0		PT304780
0786	2333	479	BES	ZRORST	DIFFERENCE IS ZERO	PT304790
0788	47A0 0C7E	480	XH	GR10,NEG	COMPLEMENT THE SIGN BIT	PT304800
078C	284A	481	ZRORST	LER	4,10	PT304810
078E	6A4D 0004	482	AE	4,4(PNT)	(-A)+(B)	PT304820
0792	4190 0B68	483	BAL	GR9,TEST	CHECK	PT304830
0796	C8F0 001F	484	LHI	TOT,X'1F'	SET ERROR NUMBER=X'1F'	PT304840
079A	284A	485	LER	4,10		PT304850
079C	2B4C	486	SER	4,12	(-A)-(-B)	PT304860
079E	4190 0B68	487	BAL	GR9,TEST	CHECK	PT304870
07A2	C8F0 0020	488	LHI	TOT,X'20'	SET ERROR NUMBER=X'20'	PT304880
07A6	2848	489	LER	4,8		PT304890
07A8	6B4D 0000	490	SE	4,0(PNT)	(B)-(A)	PT304900
07AC	4190 0B68	491	BAL	GR9,TEST		PT304910

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0780	C8F0 0021	492	LHI	TOT,X'21'	SET ERROR NUMBER=X'21'	PT304920
0784	2848	493	LER	4,8	(B)+(-A)	PT304930
0786	2A4A	494	AER	4,10	CHECK	PT304940
0788	4190 0B68	495	BAL	GR9,TEST	INCREMENT POINTER	PT304950
07BC	CAD0 0018	496	AHI	PNT,24		PT304960
07C0	C150 06AA	497	BXLE	GR5,ASLOOP		PT304970
07C4	0800	498	LHR	DISABL.DISABL	EXAMINE DISABLE FLAG	PT304980
07C6	4230 07D6	499	BNZ	ASOVER		PT304990
07CA	C830 0C84	500	LHI	DISABL.FLAG	DISABLE FLOATING	PT305000
07CE	0733	501	XHR	R3,R3	POINT FAULT	PT305010
07D0	9523	502	EPSR	R2,R3	INTERRUPT	PT305020
07D2	4300 069A	503	B	ADSUB		PT305030
07D6	0700	504	ASOVER	XHR DISABL.DISABL	ENABLE FLOATING	PT305040
07D8	C830 0400	505	LHI	R3,X'400'	POINT FAULT	PT305050
07DC	9523	506	EPSR	R2,R3	INTERRUPT	PT305060
07DE	4300 07E2	507	B	MULTI	BRANCH TO MULT. DIV. ROUTINE	PT305070
		508	*	MULTIPLY/DIVIDE CHECK		PT305080
07E2	2451	509	MULTI	LIS GR5,1	INITIAL	PT305090
07E4	2461	510	LIS	GR6,1	INCREMENT	PT305100
07E6	2478	511	LIS	GR7,8	FINAL	PT305110
07E8	C8D0 0D9E	512	LHI	PNT,MUL	OBTAIN POINTER TO DATA	PT305120
07EC	C8F0 0022	513	MLOOP	LHI TOT,X'22'	SET ERROR NUMBER=X'22'	PT305130
07F0	686D 0000	514	LE	6,0(PNT)	FETCH A	PT305140
07F4	688D 0004	515	LE	8,4(PNT)	FETCH B	PT305150
07F8	68A0 0C80	516	LE	10,ZEROF		PT305160
07FC	2BA6	517	SER	10,6	GET (-A)	PT305170
07FE	68C0 0C80	518	LE	12,ZEROF		PT305180
0802	2BC8	519	SER	12,8	GET (-B)	PT305190
0804	48AD 0008	520	LH	GR10,8(PNT)	FETCH EXPECTED VALUE OF	PT305200
0808	48BD 000A	521	LH	GR11,10(PNT)	(A*B)	PT305210
080C	48CD 000C	522	LH	GR12,12(PNT)	FETCH EXPECTED CC	PT305220
0810	2846	523	LER	4,6		PT305230
0812	6C4D 0004	524	ME	4,4(PNT)	GET (A)*(B)	PT305240
0816	4190 0B68	525	BAL	GR9,TEST		PT305250
081A	C8F0 0023	526	LHI	TOT,X'23'	SET ERROR NUMBER=X'23'	PT305260
081E	284C	527	LER	4,12	GET (-B)*(-A)	PT305270
0820	2C4A	528	MER	4,10		PT305280
0822	4190 0B68	529	BAL	GR9,TEST		PT305290
0826	C8F0 0024	530	LHI	TOT,X'24'	SET ERROR NUMBER=X'24'	PT305300
082A	48CD 000E	531	LH	GR12,14(PNT)	GET CC FOR -(A*B)	PT305310
082E	C5A0 0000	532	CLHI	GR10,0		PT305320
0832	2333	533	BES	ZR01	ZERO RESULT	PT305330
0834	47A0 0C7E	534	XH	GR10,NEG	COMPLEMENT THE SIGN BIT	PT305340
0838	284A	535	ZR01	LER	4,10	PT305350
083A	2C48	536	MER	4,8	GET (-A)*(B)	PT305360
083C	4190 0B68	537	BAL	GR9,TEST	CHECK	PT305370
0840	C8F0 0025	538	LHI	TOT,X'25'	SET ERROR NUMBER=X'25'	PT305380
0844	284C	539	LER	4,12		PT305390
0846	6C4D 0000	540	ME	4,0(PNT)	GET (-B)*(A)	PT305400
084A	4190 0B68	541	BAL	GR9,TEST	CHECK	PT305410
084E	CAD0 0010	542	AHI	PNT,16	INCREMENT POINTER	PT305420
0852	C150 07EC	543	BXLE	GR5,MLOOP		PT305430
0856	2451	544	DIVIDE	LIS GR5,1		PT305440
0858	2461	545	LIS	GR6,1		PT305450
085A	2478	546	LIS	GR7,8		PT305460

085C	C6D0 0E1E	547	LHI	PNT,DIV	FETCH POINTER TO DATA	PT305470	
0860	C8F0 0026	548	DLOOP	LHI TOT,X'26'	SET ERROR NUMBER=X'26'	PT305480	
0864	686D 0000	549	LE	6,0(PNT)	FETCH A	PT305490	
0868	688D 0004	550	LE	8,4(PNT)	FETCH B	PT305500	
086C	68A0 0C80	551	LE	10,ZEROF		PT305510	
0870	2BA6	552	SER	10,6	GET (-A)	PT305520	
0872	68C0 0C80	553	LE	12,ZEROF		PT305530	
0876	2BC8	554	SER	12,8	GET (-B)	PT305540	
0878	48AD 0008	555	LH	GR10,8(PNT)	FETCH EXPECTED	PT305550	
087C	48BD 000A	556	LH	GR11,10(PNT)	VALUE OF (A/B)	PT305560	
0880	48CD 000C	557	LH	GR12,12(PNT)	FETCH EXPECTED CC	PT305570	
0884	2846	558	LER	4,6		PT305580	
0886	604D 0004	559	DE	4,4(PNT)	GET (A)/(B)	PT305590	
088A	4190 0B68	560	BAL	GR9,TEST	CHECK	PT305600	
088E	C8F0 0027	561	LHI	TOT,X'27'	SET ERROR NUMBER=X'27'	PT305610	
0892	284A	562	LER	4,10		PT305620	
0894	2D4C	563	DER	4,12	GET (-A)/(-B)	PT305630	
0896	4190 0B68	564	BAL	GR9,TEST		PT305640	
089A	C8F0 0028	565	LHI	TOT,X'28'	SET ERROR NUMBER=X'28'	PT305650	
089E	48CD 000E	566	LH	GR12,14(PNT)	GET CC FOR -(A/B)	PT305660	
08A2	C5AU 300C	567	CLHI	GR10,0	IF(A/B) NOT ZERO	PT305670	
08A6	2333	568	BES	ZR02	COMPLEMENT THE	PT305680	
08A8	47A0 0C7E	569	XH	GR10,NEG	SIGN BIT	PT305690	
08AC	284A	570	ZR02	LER	4,10		PT305700
08AE	604D 0004	571	DE	4,4(PNT)	GET (-A)/(B)	PT305710	
08B2	4190 0B68	572	BAL	GR9,TEST	CHECK	PT305720	
08B6	C8F0 0029	573	LHI	TOT,X'29'	SET ERROR NUMBER=X'29'	PT305730	
08B8	2846	574	LER	4,6		PT305740	
08BC	2D4C	575	DER	4,12	GET (A)/(-B)	PT305750	
08BE	4190 0B68	576	BAL	GR9,TEST		PT305760	
08C2	CAD0 0010	577	AHI	PNT,16	INCREMENT THE POINTER	PT305770	
08C6	C150 0860	578	BXLE	GR5,DLOOP		PT305780	
08CA	24C2	579	*	CHECK FOR THE ACCURACY OF	THE ALGORITHMS USED	PT305790	
08CC	6840 0E9E	580	LIS	GR12,2	EXPECTED CC=2	PT305800	
08D0	6C40 0EA2	581	LE	4,MD1		PT305810	
08D4	C8F0 002A	582	ME	4,MD2	(MD1)*(MD2)	PT305820	
08D8	48A0 0E9E	583	LHI	TOT,X'2A'	SET ERROR NUMBER=X'2A'	PT305830	
08DC	48B0 0EA0	584	LH	GR10,MD1		PT305840	
08E0	6D40 0EA2	585	LH	GR11,MD1+2		PT305850	
08E4	4190 0B68	586	DE	4,MD2	(MD1)*(MD2)/(MD2)	PT305860	
08E8	C8F0 002B	587	BAL	GR9,TEST		PT305870	
08EC	48A0 0EB2	588	LHI	TOT,X'2B'	SET ERROR NUMBER=X'2B'	PT305880	
08F0	48B0 0EB4	589	LH	GR10,MD6		PT305890	
08F4	6840 0EAA	590	LH	GR11,MD6+2		PT305900	
08F8	6C40 0EAE	591	LE	4,MD4		PT305910	
08FC	4190 0B68	592	ME	4,MD5	GET (MD4)*(MD5)	PT305920	
0900	C8F0 002C	593	BAL	GR9,TEST		PT305930	
0904	48A0 0EAE	594	LHI	TOT,X'2C'	SET ERROR NUMBER=X'2C'	PT305940	
0908	48B0 0EB0	595	LH	GR10,MD5		PT305950	
090C	6D40 0EAA	596	LH	GR11,MD5+2		PT305960	
0910	4190 0B68	597	DE	4,MD4	OBTAIN (MD4)*(MD5)/(MD4)	PT305970	
0914	C8F0 002D	598	BAL	GR9,TEST	CHECK	PT305980	
0918	48A0 0EBE	599	LHI	TOT,X'2D'	SET ERROR NUMBER=X'2D'	PT305990	
091C	48B0 0ECU	600	LH	GR10,MD9		PT306000	
		601	LH	GR11,MD9+2		PT306010	

0920	6840 0EB6	602	LE	4,MD7	PT306020	
0924	6C40 0EBA	603	ME	4,MD8	PT306030	
0928	6C40 0EBE	604	ME	4,MD9	PT306040	
092C	6860 0EC2	605	LE	6,MD10	PT306050	
0930	6C60 0EC6	606	ME	6,MD11	PT306060	
0934	6C60 0ECA	607	ME	6,MD12	PT306070	
0938	2C46	608	MER	4,6	PT306080	
093A	6D40 0EB6	609	DE	4,MD7	PT306090	
093E	6D40 0EBA	610	DE	4,MD8	PT306100	
0942	6D40 0ECA	611	DE	4,MD12	PT306110	
0946	6D40 0EC6	612	DE	4,MD11	PT306120	
094A	6D40 0EC2	613	DE	4,MD10	PT306130	
094E	4190 0B68	614	BAL	GR9,TEST	PT306140	
0952	C8F0 002E	615	LHI	TOT,X'2E'	SET ERROR NUMBER=X'2E'	PT306150
0956	48A0 0ECE	616	LH	GR10,MD13	PT306160	
095A	48B0 0ED0	617	LH	GR11,MD13+2	PT306170	
095E	6840 0ECE	618	LE	4,MD13	PT306180	
0962	6D40 0ED2	619	DE	4,MD14	PT306190	
0966	6D40 0ED6	620	DE	4,MD15	PT306200	
096A	6D40 0EDA	621	DE	4,MD16	PT306210	
096E	6D40 0EDE	622	DE	4,MD17	PT306220	
0972	6D40 0EE2	623	DE	4,MD18	PT306230	
0976	6C40 0EE2	624	ME	4,MD18	PT306240	
097A	6C40 0EDE	625	ME	4,MD17	PT306250	
097E	6C40 0EDA	626	ME	4,MD16	PT306260	
0982	6C40 0ED6	627	ME	4,MD15	PT306270	
0986	6C40 0ED2	628	ME	4,MD14	PT306280	
098A	4190 0B68	629	BAL	GR9,TEST	PT306290	
098E	C8F0 002F	630	LHI	TOT,X'2F'	SET ERROR NUMBER=X'2F'	PT306300
		631 *	CHECK FOR DIVISION BY ZERO		PT306310	
0992	4820 1040	632	LH	R2,CPUNO	EXAMINE CPU MODEL NUMBER	PT306320
0996	C420 0800	633	NHI	R2,X'800'	PT306330	
099A	4230 09A4	634	BNZ	DV21	PT306340	
099E	24CD	635	LIS	GR12,X'D'	SET CONDITION CODE FOR MOD 5 OR 70	PT306350
09A0	4300 09A6	636	B	DV22	PT306360	
09A4	24CC	637	DVZ1	LIS	SET CONDITION CODE FOR MODEL 80	PT306370
09A6	6860 0EB2	638	DVZ2	LE	4,MD6	PT306380
09AA	48A0 0EB2	639	LH	GR10,MD6	PT306390	
09AE	48B0 0EB4	640	LH	GR11,MD6+2	PT306400	
09B2	2846	641	LER	4,6	PT306410	
09B4	6D40 0C80	642	DE	4,ZEROF	DIVIDE BY ZERO	PT306420
09B8	4190 0B68	643	BAL	GR9,TEST	CHECK	PT306430
09BC	C8F0 0030	644	LHI	TOT,X'30'	SET ERROR NUMBER=X'30'	PT306440
09C0	6840 0C80	645	LE	4,ZEROF	PT306450	
09C4	2B46	646	SER	4,6	GET (-MD6)	PT306460
09C6	47A0 0C7E	647	XH	GR10,NEG	COMPLEMENT THE SIGN BIT	PT306470
09CA	6D40 0C80	648	DE	4,ZEROF	PT306480	
09CE	4190 0B68	649	BAL	GR9,TEST	PT306490	
09D2	C8F0 0031	650	LHI	TOT,X'31'	SET ERROR NUMBER=X'31'	PT306500
09D6	6840 0C80	651	LE	4,ZEROF	PT306510	
09DA	24A0	652	LIS	GR10,0	PT306520	
09DC	24B0	653	LIS	GR11,0	PT306530	
09DE	6D40 0C80	654	DE	4,ZEROF	PT306540	
09E2	4190 0B68	655	BAL	GR9,TEST	PT306550	
09E6	0800	656	LHR	DISABL,DISABL	EXAMINE DISABLE FLAG	PT306560

09E8	4230	09F8	657	BNZ	MDOVER		PT306570
09EC	4800	0C84	658	LH	DISABL,FLAG	DISABLE FLOATING	PT306580
09F0	0733		659	XHR	R3,R3	POINT FAULT	PT306590
09F2	9523		660	EPSR	R2,R3	INTERRUPT	PT306600
09F4	4300	07E2	661	B	MULTI		PT306610
09F8	0700		662	MDOVER	XHR DISABL,DISABL	ENABLE FLOATING	PT306620
09FA	C830	0400	663	LHI	R3,X'400'	POINT FAULT	PT306630
09FE	9523		664	EPSR	R2,R3	INTERRUPT	PT306640
0A00	4300	0A04	665	B	COMPR	BRANCH TO FLOAT. COMPARE ROUTINE	PT306650
			666	*	COMPARE CHECK		PT306660
0A04	2451		667	COMPR	LIS GR5,1		PT306670
0A06	2461		668	LIS	GR6,1		PT306680
0A08	2474		669	LIS	GR7,4		PT306690
0A0A	C8D0	0EE6	670	LHI	PNT,COM		PT306700
0A0E	C8F0	0032	671	COLOOP	LHI TOT,X'32'	SET ERROR NUMBER=X'32'	PT306710
0A12	6860	0000	672	LE	6,0(PNT)	FETCH A	PT306720
0A16	6880	0004	673	LE	8,4(PNT)	FETCH B	PT306730
0A1A	68A0	0C80	674	LE	10,ZEROF		PT306740
0A1E	2BA6		675	SER	10,6	GET (-A)	PT306750
0A20	68C0	0C80	676	LE	12,ZEROF		PT306760
0A24	2BC8		677	SER	12,8	GET (-B)	PT306770
0A26	24C0		678	LIS	GR12,0	EXPECTED CC=0	PT306780
0A28	6960	0000	679	CE	6,0(PNT)		PT306790
0A2C	4190	0BA2	680	BAL	GR9,TCC	CHECK CC	PT306800
0A30	C8F0	0033	681	LHI	TOT,X'33'	SET ERROR NUMBER=X'33'	PT306810
0A34	29AA		682	CER	10,10		PT306820
0A36	4190	0BA2	683	BAL	GR9,TCC	CHECK CC	PT306830
0A3A	C8F0	0034	684	LHI	TOT,X'34'	SET ERROR NUMBER=X'34'	PT306840
0A3E	6980	0004	685	CE	8,4(PNT)		PT306850
0A42	4190	0BA2	686	BAL	GR9,TCC	CHECK CC	PT306860
0A46	C8F0	0035	687	LHI	TOT,X'35'	SET ERROR NUMBER=X'35'	PT306870
0A4A	29CC		688	CER	12,12		PT306880
0A4C	4190	0BA2	689	BAL	GR9,TCC	CHECK CC	PT306890
0A50	C8F0	0036	690	LHI	TOT,X'36'	SET ERROR NUMBER=X'36'	PT306900
0A54	24C2		691	LIS	GR12,2	EXPECTED CC=2	PT306910
0A56	6960	0004	692	CE	6,4(PNT)	A>B	PT306920
0A5A	4190	0BA2	693	BAL	GR9,TCC	CHECK CC	PT306930
0A5E	C8F0	0037	694	LHI	TOT,X'37'	SET ERROR NUMBER=X'37'	PT306940
0A62	296A		695	CER	6,10	A>-A	PT306950
0A64	4190	0BA2	696	BAL	GR9,TCC	CHECK	PT306960
0A68	C8F0	0038	697	LHI	TOT,X'38'	SET ERROR NUMBER=X'38'	PT306970
0A6C	296C		698	CER	6,12	A >-B	PT306980
0A6E	4190	0BA2	699	BAL	GR9,TCC	CHECK	PT306990
0A72	C8F0	0039	700	LHI	TOT,X'39'	SET ERROR NUMBER=X'39'	PT307000
0A76	298A		701	CER	8,10	B>-A	PT307010
0A78	4190	0BA2	702	BAL	GR9,TCC	CHECK	PT307020
0A7C	C8F0	003A	703	LHI	TOT,X'3A'	SET ERROR NUMBER=X'3A'	PT307030
0A80	6980	0C80	704	CE	8,ZEROF	CHECK IF B=0	PT307040
0A84	2133		705	BNES	COMPR1	IF NOT BRANCH TO COMPR1	PT307050
0A86	26F1		706	AIS	TOT,1	ERROR NUMBER=X'3B'	PT307060
0A88	2306		707	BS	COMPR2		PT307070
0A8A	298C		708	COMPR1	CER 8,12	B>-B	PT307080
0A8C	4190	0BA2	709	BAL	GR9,TCC	CHECK	PT307090
0A90	C8F0	003B	710	LHI	TOT,X'3B'	SET ERROR NUMBER=X'3B'	PT307100
0A94	29CA		711	COMPR2	CER 12,10	-B>-A	PT307110

0A96	4190 0BA2	712	BAL	GR9,TCC	CHECK	PT307120
0A9A	C8F0 003C	713	LHI	TOT,X'3C'	SET ERROR NUMBER=X'3C'	PT307130
0A9E	24C9	714	LIS	GR12,9	EXPECTED CC=9	PT307140
0AA0	29AC	715	CER	10,12	-A<-B	PT307150
0AA2	4190 0BA2	716	BAL	GR9,TCC	CHECK	PT307160
0AA6	C8F0 003D	717	LHI	TOT,X'3D'	SET ERROR NUMBER=X'3D'	PT307170
0AAA	69AD 0000	718	CE	10,0(PNT)	-A<A	PT307180
0AAE	4190 0BA2	719	BAL	GR9,TCC	CHECK	PT307190
0AB2	C8F0 003E	720	LHI	TOT,X'3E'	SET ERROR NUMBER=X'3E'	PT307200
0AB6	69AD 0004	721	CE	10,4(PNT)	-A<B	PT307210
0ABA	4190 0BA2	722	BAL	GR9,TCC	CHECK	PT307220
0ABE	C8F0 003F	723	LHI	TOT,X'3F'	SET ERROR NUMBER=X'3F'	PT307230
0AC2	698D 0000	724	CE	8,0(PNT)	-B<A	PT307240
0AC6	4190 0BA2	725	BAL	GR9,TCC		PT307250
0ACA	C8F0 0040	726	LHI	TOT,X'40'	SET ERROR NUMBER=X'40'	PT307260
0ACE	29C6	727	CER	12,6	-B<A	PT307270
0AD0	4190 0BA2	728	BAL	GR9,TCC		PT307280
0AD4	C8F0 0041	729	LHI	TOT,X'41'	SET ERROR NUMBER=X'41'	PT307290
0AD8	6980 0C80	730	CE	8,ZEROF	CHECK IF B=0	PT307300
0ADC	2133	731	BNES	COMPR3	IF NOT BRANCH TO COMPR3	PT307310
0ADE	26F1	732	AIS	TOT,1	INCREMENT ERROR NUMBER	PT307320
0AE0	2307	733	BS	COMPR4		PT307330
0AE2	69CD 0004	734	COMPR3	CE 12,4(PNT)	-B<B	PT307340
0AE6	4190 0BA2	735	BAL	GR9,TCC	CHECK CC	PT307350
0AEA	C8F0 0042	736	LHI	TOT,X'42'	SET ERROR NUMBER=X'42'	PT307360
0AEE	CAD0 0008	737	COMPR4	AHI PNT,8		PT307370
0AF2	C150 0A0E	738	BXLE	GR5,COLOOP		PT307380
0AF6	4300 0FD8	739	B	NOERR		PT307390
		740	*	SUBROUTINES		PT307400
		741	*			PT307410
		742	*	THESE SUBROUTINES STORE THE RESULT IN TEMP& AND TEMP+2		PT307420
0AFA	6000 1022	743	COMP0	STE 0,TEMP	THIS ROUTINE	PT307430
0AFE	4300 0B3A	744	B	COMPAR	STORES THE 32 BIT	PT307440
0B02	6020 1022	745	COMP2	STE 2,TEMP	RESULT IN 4 SUCCESSIVE	PT307450
0B06	4300 0B3A	746	B	COMPAR	BYTES IN MAIN MEMORY	PT307460
0B0A	6040 1022	747	COMP4	STE 4,TEMP		PT307470
0B0E	4300 0B3A	748	B	COMPAR		PT307480
0B12	6060 1022	749	COMP6	STE 6,TEMP		PT307490
0B16	4300 0B3A	750	B	COMPAR		PT307500
0B1A	6080 1022	751	COMP8	STE 8,TEMP		PT307510
0B1E	4300 0B3A	752	B	COMPAR		PT307520
0B22	60A0 1022	753	COMP10	STE 10,TEMP		PT307530
0B26	4300 0B3A	754	B	COMPAR		PT307540
0B2A	60C0 1022	755	COMP12	STE 12,TEMP		PT307550
0B2E	4300 0B3A	756	B	COMPAR		PT307560
0B32	60E0 1022	757	COMP14	STE 14,TEMP		PT307570
0B36	4300 0B3A	758	B	COMPAR		PT307580
		759	*	THIS ROUTINE COMPARES CALCULATED AND EXPECTED RESULTS		PT307590
0B3A	48C9 0000	760	COMPAR	LH GR12,0(GR9)		PT307600
0B3E	48AC 0000	761	LH	GR10,0(GR12)		PT307610
0B42	48BC 0002	762	LH	GR11,2(GR12)		PT307620
0B46	45A0 1022	763	CLH	GR10,TEMP	COMPARE	PT307630
0B4A	4230 0BC6	764	BNE	ERROR2		PT307640
0B4E	45B0 1024	765	CLH	GR11,TEMP+2		PT307650
0B52	4230 0BC6	766	BNE	ERROR2		PT307660

0B56	4309 0002	767	B 2(GR9)	PT307670	
		768 *	THIS ROUTINE IS ENTERED WHEN FLOAT. PT. FAULT	PT307680	
		769 *	INTERRUPT IS TAKEN	PT307690	
0B5A	4860 0028	770	FAULT1 LH GR6,X'28'	PT307700	
0B5E	4870 002A	771	LH GR7,X'2A'	PT307710	
0B62	9556	772	EPSR GR5,GR6	PT307720	
0B64	4307 0004	773	B 4(GR7)	PT307730	
		774 *	THIS ROUTINE COMPARES THE CALCULATED RESULT AND	PT307740	
		775 *	CONDITION CODE AGAINST THE EXPECTED RESULT AND CC	PT307750	
0B68	95EE	776	TEST EPSR GR14,GR14	PT307760	
0B6A	C4E0 000F	777	NHI GR14,X'F'	PT307770	
0B6E	05EC	778	CLHR GR14,GR12	PT307780	
0B70	4230 0BEE	779	BNZ ERROR3	PT307790	
0B74	0800	780	LHR DISABL,DISABL	EXAMINE DISABLE FLAG	PT307800
0B76	4230 0B8A	781	BnZ TEST1	IF SET BRANCH TO TEST1	PT307810
0B7A	C3C0 0004	782	THI GR12,X'4'	EXAMINE OVERFLOW BIT OF CC	PT307820
0B7E	4330 0B8A	783	BZ TEST1	IF RESET GO TO TEST1	PT307830
0B82	0811	784	LHR SWAP,SWAP	TEST WHETHER INT. WAS TAKEN	PT307840
0B84	4330 0BB8	785	BZ ERROR1	IF INT. NOT TAKEN THEN ERROR	PT307850
0B88	0711	786	XHR SWAP,SWAP	REMOVE SWAP FLAG	PT307860
0B8A	6040 1022	787	TEST1 STE 4,TEMP	STORE THE CALCULATED RESULT	PT307870
0B8E	45A0 1022	788	CLH GR10,TEMP	COMPARE	PT307880
0B92	4230 0BEE	789	BNE ERROR3		PT307890
0B96	45B0 1024	790	CLH GR11,TEMP+2		PT307900
0B9A	4230 0BEE	791	BNE ERROR3		PT307910
0B9E	4309 0000	792	B 0(GR9)	RETURN	PT307920
		793 *	THIS ROUTINE COMPARES CC OF CURRENT PSW AGAINST EXPECTED CC	PT307930	
0BA2	95EE	794	TCC EPSR GR14,GR14	OBTAIN CC FROM CURRENT PSW	PT307940
0BA4	C4E0 000F	795	NHI GR14,X'F'		PT307950
0BA8	05EC	796	CLHR GR14,GR12		PT307960
0BAA	4230 0C28	797	BNE ERROR4		PT307970
0BAE	0811	798	LHR SWAP,SWAP	EXAMINE SWAP FLAG	PT307980
0BB0	4230 0BB8	799	BNZ ERROR1	IF SET, BRANCH TO ERROR	PT307990
0BB4	4309 0000	800	B 0(GR9)		PT308000
		801 *	THIS SUBROUTINE IS ENTERED WHEN THE FLOATING POINT	PT308010	
		802 *	FAULT INTERRUPT IS NOT HANDLED CORRECTLY	PT308020	
0BB8	0700	803	ERROR1 XHR R0,R0	RESET CC PRINT FLAG	PT308030
0BBA	4000 0F06	804	STH R0,BUFR2		PT308040
0BBE	4000 0F08	805	STH R0,BUFR2+2	NO VALUES ARE TO BE PRINTED	PT308050
0BC2	4300 0FA2	806	B ERROR		PT308060
		807 **	THIS SUBROUTINE IS ENTERED WHEN THE ACTUAL VALUE AFTER LOAD	PT308070	
		808 *	AND STORE OPERATION DOES NOT MATCH THE EXPECTED VALUE	PT308080	
0BC6	0700	809	ERROR2 XHR R0,R0		PT308090
0BC6	2414	810	LIS R1,4		PT308100
0BCA	4000 0F06	811	STH R0,BUFR2	RESET CC PRINT FLAG	PT308110
0BCE	4010 0F08	812	STH R1,BUFR2+2	FOUR HALF WORDS ARE TO BE PRINTED	PT308120
0BD2	4800 1022	813	LH R0,TEMP		PT308130
0BD6	4810 1024	814	LH R1,TEMP+2		PT308140
0BDA	4000 0F0A	815	STH R0,BUFR2+4	ACTUAL #	PT308150
0BDE	4010 0F0C	816	STH R1,BUFR2+6	VALUE	PT308160
0BE2	40A0 0F0E	817	STH R10,BUFR2+8	EXPECTED	PT308170
0BE6	40B0 0F10	818	STH R11,BUFR2+10	VALUE	PT308180
0BEA	4300 0FA2	819	B ERROR		PT308190
		820 *	THIS SUBROUTINE IS ENTERED WHEN THE EXPECTED	PT308200	
		821 *	AND CALCULATED RESULTS OR THE EXPECTED AND ACTUAL	PT308210	

		822 *	CONDITION CODES DO NOT MATCH IN FLOATING POINT	PT308220	
		823 *	ADD,SUBTRACT, MULTIPLY OR DIVIDE OPERATION.	PT308230	
OBEE	0700	824 ERROR3	XHR R0,R0 STH R0,BUFR2	PT308240	
0BF0	4000 0F06	825	RESET CC PRINT FLAG	PT308250	
0BF4	C5F0 002A	826	CLHI R15,X'2A'	PT308260	
0BF8	2185	827	IF ERROR NUMBER	PT308270	
0BFA	C5F0 0032	828	BLS ERR4CO	IS FROM X'2A' TO X'32'	PT308280
0BFE	4280 0C60	829	CLHI R15,X'32'	BRANCH TO	PT308290
OC02	240A	830	BL ERRORS	ERRORS	PT308300
OC04	4000 0F08	831	LIS R0,10	TEN HALF WORD VALUES TO BE PRINTED	PT308310
OC08	6060 0F0A	832	STH R0,BUFR2+2	FIRST OPERAND	PT308320
OC0C	6080 0F0E	833	STE 6,BUFR2+4	SECOND OPERAND	PT308330
OC10	6040 0F12	834	STE 8,BUFR2+8	ACTUAL RESULT	PT308340
OC14	40A0 0F16	835	STE 4,BUFR2+12	EXPECTED	PT308350
OC18	40B0 0F18	836	STH R10,BUFR2+16	RESULT	PT308360
OC1C	40E0 0F1A	837	STH R11,BUFR2+18	ACTUAL CONDITION CODE	PT308370
OC20	40C0 0F1C	838	STH R14,BUFR2+20	EXPECTED CONDITION CODE	PT308380
OC24	4300 0FA2	839	STH R12,BUFR2+22	EXPECTED CONDITION CODE	PT308390
		840 *	B ERROR	PT308400	
		841 *	THIS SUBROUTINE IS ENTERED WHEN THE ACTUAL AND	PT308410	
		842 *	EXPECTED CONDITION CODES DONOT MATCH AFTER	PT308420	
		843	ERR4CO	A FLOATING POINT COMPARE OPERATION.	PT308430
OC28	0700	844	XHR R0,R0	RESET CC PRINT FLAG	PT308440
OC2A	4000 0F06	845	STH R0,BUFR2	TWO HALF WORD VALUES	PT308450
OC2E	2402	846	LIS R0,2	ARE TO BE PRINTED	PT308460
OC30	4000 0F08	847	STH R0,BUFR2+2	ACTUAL CONDITION CODE	PT308470
OC34	40E0 0F0A	848	STH R14,BUFR2+4	EXPECTED CONDITION CODE	PT308480
OC38	40C0 0F0C	849	STH R12,BUFR2+6	EXPECTED CONDITION CODE	PT308490
OC3C	4300 0FA2	850	B ERROR	PT308500	
		851 *	THIS ROUTINE CHECKS WHETHER OR NOT THE FLOAT. POINT	PT308510	
		852	FAULT	FAULT INTERRUPT TAKEN IS ERRONEOUS	PT308520
OC40	0800	853	LHR DISABL,DISABL	EXAMINE DISABLE FLAG	PT308530
OC42	4230 0BB8	854	BNZ ERROR1	IF SET, BRANCH TO ERROR	PT308540
OC46	C3C0 0004	855	THI GR12,X'4'	EXAMINE OVERFLOW BIT OF CC	PT308550
OC4A	4330 0BB8	856	BZ ERROR1	IF RESET, BRANCH TO ERROR	PT308560
OC4E	4810 0C84	857	LH SWAP,FLAG	PUT FLAG IN SWAP	PT308570
OC52	4830 0026	858	LH R3,X'28'	GET OLD PSW	PT308580
OC56	4840 002A	859	LH R4,X'2A'	GET OLD LOC	PT308590
OC5A	9513	860	EPSR R1,R3	SET NEW PSW TO OLD PSW VALUE	PT308600
OC5C	4304 0000	861	B 0(R4)	BRANCH TO OLD LOC VALUE	PT308610
OC60	2406	862	LIS R0,6	SIX HALF WORDS ARE TO BE PRINTED	PT308620
OC62	4000 0F08	863	STH R0,BUFR2+2	ACTUAL RESULT	PT308630
OC66	6040 0F0A	864	STE 4,BUFR2+4	EXPECTED	PT308640
OC6A	40A0 0F0E	865	STH R10,BUFR2+8	RESULT	PT308650
OC6E	40B0 0F10	866	STH R11,BUFR2+10	ACTUAL CONDITION CODE	PT308660
OC72	40E0 0F12	867	STH R14,BUFR2+12	EXPECTED CONDITION CODE	PT308670
OC76	40C0 0F14	868	STH R12,BUFR2+14	EXPECTED CONDITION CODE	PT308680
OC7A	4300 0FA2	869	B ERROR	CONSTANTS USED IN MAIN PROGRAM AND SUBROUTINES	PT308690
OC7E	8000	870	NEG DC X'8000'	DATA AND RESULT TABLE FOR LOAD/STORE CHECK	PT308700
OC80	0000	871	ZEROF DC 0,0	CC=0 AND	PT308710
OC82	0000	872	FLAG DC X'7777'	PT308720	
OC84	7777	873 *	DATA AND RESULT TABLE FOR LOAD/STORE CHECK	PT308730	
OC86	0000	874	LSD0 DC 0,0	PT308740	
OC88	0000				

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0C8A 0000	675 LSR0	DC 0,0	ZERO VALUE	PT308750
0C8C 0000	676 LSD1	DC X'0010',0	CC=2 AND	PT308760
0C8E 0010	677 LSR1	DC X'0010',0	POSITIVE NORMALIZED	PT308770
0C90 0000	678 LSD2	DC X'FF10',0	CC=1 AND	PT308780
0C92 0010	679 LSR2	DC X'FF10',0	NEGATIVE NORMALIZED	PT308790
0C94 0000	680 LSD3	DC X'7F10',0	CC=2	PT308800
0C96 FF10	681 LSR3	DC X'7F10',0	POS. NORM.	PT308810
0C98 0000	682 LSD4	DC X'0101',0	CC=2	PT308820
0C9A FF10	683 LSR4	DC X'0010',0	POS. UN.	PT308830
0C9C 0000	684 LSD5	DC X'4200',X'1000'	CC=2	PT308840
0CB0 1000	685 LSR5	DC X'4010',0	POS. UN.	PT308850
0CB2 4010	686 LSD6	DC X'F300',X'01FF'	CC=1	PT308860
0CB4 0000	687 LSR6	DC X'F01F',X'F000'	NEG. UN	PT308870
0CB6 F300	688 LSD7	DC X'4400',X'00F8'	CC=2	PT308880
0CB8 01FF	689 LSR7	DC X'40F8',0	POS. UN	PT308890
0CBA F01F	690 LSD8	DC X'C500',1	CC=1	PT308900
0CBC F000	691 LSR8	DC X'C010',0	NEG UN	PT308910
0CBE 4400	692 LSD9	DC X'4600',0	CC=0	PT308920
0CC0 00F3	693 LSR9	DC 0,0	POS. ZERO	PT308930
0CC2 40F8	694 LSD10	DC X'C600',0	CC=0	PT308940
0CC4 0000	695 LSR10	DC 0,0	NEG. ZERO	PT308950
0CC6 C500	696 LSD11	DC 1,0	CC=4	PT308960
0CC8 0001	697 LSR11	DC 0,0	POS. UNDERFLOW	PT308970
0CCA C010	698 LSD12	DC X'0100',X'1000'	CC=4	PT308980
0CCC 0000	699 LSR12	DC 0,0	UNDERFLOW	PT308990
0CCE 4600	700 LSD13	DC X'0300',X'0010'	CC=4 POS.	PT309000
0CD0 0000	701 LSR13	DC 0,0	UNDERFLOW	PT309010
0CD2 0000	702 LSD14	DC X'8008',0	CC =4	PT309020

0CF8	0000						
0CFA	0000	903	LSR14	DC	0,0	NEG. UNDERFLOW	PT309030
0CFC	0000						
0CFE	8200	904	LSD15	DC	X'8200',X'0800'	CC=4	PT309040
0D00	0800						
0D02	0000	905	LSR15	DC	0,0	NEG. UND. FLOW	PT309050
0D04	0000						
0D06	8400	906	LSD16	DC	X'8400',8	CC=4	PT309060
0D08	0009						
0D0A	0000	907	LSR16	DC	0,0	NEG. UNDERFLOW	PT309070
0D0C	0000						
0D0E	7EFF	908	*			DATA AND RESULT TABLE FOR ADD / SUBTRACT CHECK	PT309080
0D10	FFFF	909	AS	DC	X'7EFF',X'FFFF'	A	PT309090
0D12	7EFF	910		DC	X'7EFF',X'FFFF'	B	PT309100
0D14	FFFF						
0D16	7F1F	911		DC	X'7F1F',X'FFFF'	SUM	PT309110
0D18	FFFF						
0D1A	0000	912		DC	0,0	DIFFERENCE	PT309120
0D1C	0000						
0D1E	0002	913		DC	2	CC OF A+B	PT309130
0D20	0000	914		DC	0	CC OF A-B	PT309140
0D22	0000	915		DC	0	CC OF B-A	PT309150
0D24	0001	916		DC	1	CC OF -A-B	PT309160
0D26	7FFF	917		DC	X'7FFF',X'FFFF'		PT309170
0D28	FFFF						
0D2A	79FF	918		DC	X'79FF',X'FFFF'		PT309180
0D2C	FFFF						
0D2E	7FFF	919		DC	X'7FFF',X'FFFF'	SUM	PT309190
0D30	FFFF						
0D32	7FFF	920		DC	X'7FFF',X'FFFF'	DIFFERENCE	PT309200
0D34	FFFF						
0D36	0002	921		DC	2		PT309210
0D38	0002	922		DC	2		PT309220
0D3A	0001	923		DC	1		PT309230
0D3C	0001	924		DC	1		PT309240
0D3E	7FEF	925		DC	X'7FEF',X'FFFF'		PT309250
0D40	FFFF						
0D42	7A10	926		DC	X'7A10',X'0000'		PT309260
0D44	0000						
0D46	7FF0	927		DC	X'7FF0',X'0000'	SUM	PT309270
0D48	0000						
0D4A	7FEF	928		DC	X'7FEF',X'FFFF'	DIFFERENCE	PT309280
0D4C	FFFE						
0D4E	0002	929		DC	2		PT309290
0D50	0002	930		DC	2		PT309300
0D52	0001	931		DC	1		PT309310
0D54	0001	932		DC	1		PT309320
0D56	7FFF	933		DC	X'7FFF',X'FFFF'		PT309330
0D58	FFFF						
0D5A	7A10	934		DC	X'7A10',X'0000'		PT309340
0D5C	0000						
0D5E	7FFF	935		DC	X'7FFF',X'FFFF'	SUM	PT309350
0D60	FFFF						
0D62	7FFF	936		DC	X'7FFF',X'FFFF'	DIFFERENCE	PT309360

0D64	FFFE					
0D66	0006	937	DC	6	PT309370	
0D68	0002	938	DC	2	PT309380	
0D6A	0001	939	DC	1	PT309390	
0D6C	0005	940	DC	5	PT309400	
0D6E	0510	941	DC	X'0510',X'0000'	PT309410	
0D70	0000					
0D72	04FF	942	DC	X'04FF',X'FFFF'	PT309420	
0D74	FFFF					
0D76	051F	943	DC	X'051F',X'FFFF'	SUM	PT309430
0D78	FFFF					
0D7A	0010	944	DC	X'0010',X'0000'	DIFFERENCE	PT309440
0D7C	0000					
0D7E	0002	945	DC	2	PT309450	
0D80	0002	946	DC	2	PT309460	
0D82	0001	947	DC	1	PT309470	
0D84	0001	948	DC	1	PT309480	
0D86	0410	949	DC	X'0410',X'0000'	PT309490	
0D88	0000					
0D8A	03FF	950	DC	X'03FF',X'FFFF'	PT309500	
0D8C	FFFF					
0D8E	041F	951	DC	X'041F',X'FFFF'	PT309510	
0D90	FFFF					
0D92	0000	952	DC	X'0000',X'0000'	PT309520	
0D94	0000					
0D96	0002	953	DC	2	PT309530	
0D98	0004	954	DC	4	PT309540	
0D9A	0004	955	DC	4	PT309550	
0D9C	0001	956	DC	1	PT309560	
0D9E	4615	957	*	DATA AND RESULT TABLE FOR MULTIPLY CHECK	PT309570	
0DA0	FFFF	958	MUL	DC X'4615',X'FFFF'	A	PT309580
0DA2	0000	959	DC	0,0	B	PT309590
0DA4	0000					
0DA6	0000	960	DC	0,0	A*B	PT309600
0DA8	0000					
0DAA	0000	961	DC	0	CC FOR A*B	PT309610
0DAC	0000	962	DC	0	CC FOR -(A*B)	PT309620
0DAE	60FF	963	DC	X'60FF',X'FFFF'	NO NORMALIZATION.	PT309630
0DB0	FFFF					
0DB2	5FFF	964	DC	X'5FFF',X'FFFF'	NO UNDER FLOW	PT309640
0DB4	FFFF					
0DB6	7FFF	965	DC	X'7FFF',X'FFFE'	OR OVERFLOW, AND	PT309650
0DB8	FFFE					
0DBA	0002	966	DC	2	NO EFFECT OF ROUNDING	PT309660
0DBC	0001	967	DC	1		PT309670
0DBE	4078	968	DC	X'4078',X'8888'	NORMALIZATION IS REQUIRED	PT309680
0DC0	8888					
0DC2	0520	969	DC	X'0520',X'0000'	BUT NO OVERFLOW OR UNDERFLOW	PT309690
0DC4	0000					
0DC6	04F1	970	DC	X'04F1',X'1110'	AND NO EFFECT OF ROUNDING	PT309700
0DC8	1110					
0DCA	0002	971	DC	2		PT309710
0DCC	0001	972	DC	1		PT309720
0DCE	6010	973	DC	X'6010',X'0000'	EXPONENT OVERFLOW	PT309730

0DD0	0000						
0DD2	6010	974	DC	X'6010',X'0000'	OCCURS (ACTUALLY	PT309740	
0DD4	0000						
0DD6	7FFF	975	DC	X'7FFF',X'FFFF'	THE PRODUCT IS LESS	PT309750	
0DD8	FFFF						
0DDA	0006	976	DC	6	THAN THE GREATEST	PT309760	
0DDC	0005	977	DC	5	REPRESENTABLE NUMBER)	PT309770	
0DDE	01FF	978	DC	X'01FF',X'FFFF'	ROUNDING CHANGES THE	PT309780	
0DE0	FFFF						
0DE2	4030	979	DC	X'4030',X'0000'	MOST SIGNIFICANT HEX	PT309790	
0DE4	0000						
0DE6	0130	980	DC	X'0130',X'0000'	DIGIT OF FRACTION NO	PT309800	
0DE8	0000						
0DEA	0002	981	DC	2	NORMALIZATION AND NO	PT309810	
0DEC	0001	982	DC	1	OVERFLOW OR UNDERFLOW	PT309820	
0DEE	0673	983	DC	X'0673',X'2146'	EXponent UNDERFLOW	PT309830	
0DF0	2146						
0DF2	3984	984	DC	X'3984',X'673A'	OCCURS	PT309840	
0DF4	673A						
0DF6	0000	985	DC	0,0		PT309850	
0DF8	0000						
0DFA	0004	986	DC	4		PT309860	
0DFC	0004	987	DC	4		PT309870	
0DFF	07FF	988	DC	X'07FF',X'FFFF'	EXPONENT UNDERFLOW	PT309880	
0E00	FFFF						
0E02	3910	989	DC	X'3910',X'0000'	OCCURS BECAUSE OF	PT309890	
0E04	0000						
0E06	0000	990	DC	X'0000',X'0000'	NORMALIZATION	PT309900	
0E08	0000						
0E0A	0004	991	DC	4		PT309910	
0E0C	0004	992	DC	4		PT309920	
0E0E	07FF	993	DC	X'07FF',X'FFF0'	UNDERFLOW OCCURS BECAUSE	PT309930	
0E10	FFF0						
0E12	3910	994	DC	X'3910',X'0001'	NORMALIZATION IS DONE	PT309940	
0E14	0001						
0E16	0000	995	DC	0,0	BEFORE ROUNDING	PT309950	
0E18	0000						
0E1A	0004	996	DC	4		PT309960	
0E1C	0004	997	DC	4		PT309970	
0E1E	0000	998 *	DATA	AND RESULT TABLE FOR	DIVIDE CHECK	PT309980	
0E20	0000	999 DIV	DC	0,0	ZERO RESULT	PT309990	
0E22	0E25	1000	DC	X'0E25',X'FF24'		PT310000	
0E24	FF24						
0E26	0000	1001	DC	0,0	A/B	PT310010	
0E28	0000						
0E2A	0000	1002	DC	0	CC FOR A/B	PT310020	
0E2C	0000	1003	DC	0	CC FOR (-A/B)	PT310030	
0E2E	7FFF	1004	DC	X'7FFF',X'FFFF'	NO NORMALIZATION	PT310040	
0E30	FFFF						
0E32	60FF	1005	DC	X'60FF',X'FFFF'	BUT ROUNDING	PT310050	
0E34	FFFF						
0E36	5FFF	1006	DC	X'5FFF',X'FFFF'	EFFECT	PT310060	
0E38	FFFF						
0E3A	0002	1007	DC	2		PT310070	

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0E3C	0001	1008	DC	1		PT310080
0E3E	44FF	1009	DC	X'44FF',X'FFFF'	NORM. REQUIRED BUT	PT310090
0E40	FFFF					
0E42	0611	1010	DC	X'0611',X'1111'	NO ROUNDING	PT310100
0E44	1111					
0E46	7FF0	1011	DC	X'7FF0',X'0000'	EFFECT	PT310110
0E48	0000					
0E4A	0002	1012	DC	X'2'		PT310120
0E4C	0001	1013	DC	1		PT310130
0E4E	0912	1014	DC	X'0912',X'3456'	NORMALIZATION	PT310140
0E50	3456					
0E52	0311	1015	DC	X'0311',X'1111'	AND ROUNDING	PT310150
0E54	1111					
0E56	4711	1016	DC	X'4711',X'1111'	EFFECT	PT310160
0E58	1111					
0E5A	0002	1017	DC	2		PT310170
0E5C	0001	1018	DC	1		PT310180
0E5E	0642	1019	DC	X'0642',X'3216'	RESULT IS FLOATING	PT310190
0E60	3216					
0E62	0642	1020	DC	X'0642',X'3216'	POINT ONE	PT310200
0E64	3216					
0E66	4110	1021	DC	X'4110',X'0000'		PT310210
0E68	0000					
0E6A	0002	1022	DC	2		PT310220
0E6C	0001	1023	DC	1		PT310230
0E6E	4F12	1024	DC	X'4F12',X'3456'	NORMALIZATION	PT310240
0E70	3456					
0E72	1012	1025	DC	X'1012',X'3456'	CAUSES OVERFLOW	PT310250
0E74	3456					
0E76	7FFF	1026	DC	X'7FFF',X'FFFF'		PT310260
0E78	FFFF					
0E7A	0006	1027	DC	6		PT310270
0E7C	0005	1028	DC	5		PT310280
0E7E	2012	1029	DC	X'2012',X'3456'	EXPONENT	PT310290
0E80	3456					
0E82	6112	1030	DC	X'6112',X'3456'	UNDERFLOW OCCURS	PT310300
0E84	3456					
0E86	0000	1031	DC	X'0',X'0'	(ACTUAL QUOTIENT IS	PT310310
0E88	0000					
0E8A	0004	1032	DC	4	THE LOWEST REPRESENTABLE	PT310320
0E8C	0004	1033	DC	4	NUMBER)	PT310330
0E8E	0080	1034	DC	X'0080',0	EXPONENT	PT310340
0E90	0000					
0E92	7F80	1035	DC	X'7F80',0	UNDERFLOW	PT310350
0E94	0000					
0E96	0000	1036	DC	0,0	OCCURS	PT310360
0E98	0000					
0E9A	0004	1037	DC	4		PT310370
0E9C	0004	1038	DC	4		PT310380
0E9E	4288	1039	*		DATA AND RESULT TABLE FOR MULT./DIVIDE ACCURACY CHECK	PT310390
0EA0	8880	1040	MD1	DC	X'4288',X'8880'	PT310400
0EA2	4110	1041	MD2	DC	X'4110',X'0001'	PT310410
0EA4	0001					
0EA6	4288	1042	MD3	DC	X'4288',X'8889'	PT310420

0EA8	8889						
0EAA	4677	1043	MD4	DC	X'4677',X'7770'		PT310430
0EAC	7770						
0EAE	4010	1044	MD5	DC	X'4010',X'0001'		PT310440
0EB0	0001						
0EB2	4577	1045	MD6	DC	X'4577',X'7777'		PT310450
0EB4	7777						
0EB6	41A0	1046	MD7	DC	X'41A0',0		PT310460
0EB8	0000						
0EB9	41B0	1047	MD8	DC	X'41B0',0		PT310470
0EBC	0000						
0EBE	41C0	1048	MD9	DC	X'41C0',0		PT310480
0EC0	0000						
0EC2	41D0	1049	MD10	DC	X'41D0',0		PT310490
0EC4	0000						
0EC6	41E0	1050	MD11	DC	X'41E0',0		PT310500
0EC8	0000						
0ECA	41F0	1051	MD12	DC	X'41F0',0		PT310510
0ECC	0000						
0ECE	4178	1052	MD13	DC	X'4178',X'9ABC'		PT310520
0ED0	9ABC						
0ED2	4223	1053	MD14	DC	X'4223',X'4567'		PT310530
0ED4	4567						
0ED6	4398	1054	MD15	DC	X'4398',X'7654'		PT310540
0ED8	7654						
0EDA	4432	1055	MD16	DC	X'4432',X'5476'		PT310550
0EDC	5476						
0EDE	4522	1056	MD17	DC	X'4522',X'3344'		PT310560
0EE0	3344						
0EE2	4699	1057	MD18	DC	X'4699',X'FFFF'		PT310570
0EE4	FFFF						
0EE6	0010	1058	*		DATA AND RESULT TABLE FOR COMPARE CHECK		PT310580
0EE8	0001	1059	COM	DC	X'0010',1		PT310590
0EEA	0010	1060		DC	X'0010',0		PT310600
0EEC	0000						
0EEE	3FFF	1061		DC	X'3FFF',X'FFFF'		PT310610
0EFO	FFFF						
0EOF	3EFF	1062		DC	X'3EFF',X'FFFF'		PT310620
0EOF4	FFFF						
0EOF6	0210	1063		DC	X'0210',0		PT310630
0EOF8	0000						
0EFA	01FF	1064		DC	X'01FF',X'FFFF'		PT310640
0EFC	FFFF						
0EFE	0010	1065		DC	X'0010',X'0000'		PT310650
0F00	0000						
0F02	0000	1066		DC	0,0		PT310660
0F04	0000						
		1067			*****		PT310670
		1068	*				PT310680
		1069	*		STORAGE AREA		PT310690
		1070	*				PT310700
0F06	0000	1071	BUFR2	DCX	0		PT310710
0F08	0000	1072		DCX	0		PT310720
0F0A	0000	1073		DCX	0		PT310730

0F0C 0000	1074	DCX	0	PT310740
0F0E 0000	1075	DCX	0	PT310750
0F10 0000	1076	DCX	0	PT310760
0F12 0000	1077	DCX	0	PT310770
0F14 0000	1078	DCX	0	PT310780
0F16 0000	1079	DCX	0	PT310790
0F18 0000	1080	DCX	0	PT310800
0F1A 0000	1081	DCX	0	PT310810
0F1C 0000	1082	DCX	0	PT310820
0F1E 0000	1083	DCX	0	PT310830
0F20 0000	1084	DCX	0	PT310840
0F22 0030	1085	DCX	0	PT310850
0F24 0000	1086	DCX	0	PT310860
	1087 *			PT310870
	1088 ****			PT310880
	1089 * SUBROUTINES			PT310890
	1090 *			PT310900
	1091 ****			PT310910
	1092 *			PT310920
UF26 0000 0F26	1093 READ1 EQU *			PT310930
UF2A D320 104F	1094 LB R2,INDEV			PT310940
UF2A DE20 1043	1095 OC R2,INCMND			PT310950
UF2E 9B23	1096 RDR R2,R3			PT310960
UF30 9D23	1097 SSR R2,R3			PT310970
UF32 2281	1098 BFBS 8+1			PT310980
UF34 9D23	1099 READ3 SSR R2,R3	R2 = 2 , R3 = TTY STATUS		PT310990
UF36 4290 UF34	1100 BTC 9,READ3			PT311000
UF3A 9B20	1101 RDR R2,R0	READ THE KEY PRESSED IN R0		PT311010
UF3C C400 007F	1102 NHI R0,X*7F*	ZERO OUT THE PARITY BIT		PT311020
UF40 030E	1103 BR R14			PT311030
UF42 D320 104E	1104 WRITE1 LB R2,OUTDEV			PT311040
UF46 DE20 1042	1105 OC R2,OUTCMD			PT311050
UF4A 9D23	1106 WRITE3 SSR R2,R3			PT311060
UF4C 4210 UF42	1107 BTC 1,WRITE1			PT311070
UF50 4280 UF4A	1108 BTC 8,WRITE3			PT311080
UF54 9A20	1109 WDR R2,R0			PT311090
UF56 030E	1110 BR R14			PT311100
UF58 C800 0000	1111 CRLF LHI R0,13			PT311110
UF5C 41E0 UF42	1112 BAL R14,WRITE1			PT311120
UF60 C800 000A	1113 LHI R0,10			PT311130
UF64 41E0 UF42	1114 BAL R14,WRITE1			PT311140
UF68 030C	1115 BR R12			PT311150
	1116 *			PT311160
	1117 *			PT311170
UF6A 24F1	1118 FLPTNT LIS R15,1	FLPT ARITH. FAULT INTRPT.		PT311180
UF6C 230C	1119 BS ERR2F			PT311190
UF6E 24F2	1120 ILGINI LIS R15,2	ILL. INSTR. INTRPT.		PT311200
UF70 230A	1121 BS ERR2F			PT311210
UF72 24F3	1122 MALFTN LIS R15,3	MACH. MALFTN. INTRPT.		PT311220
UF74 2308	1123 BS ERR2F			PT311230
UF76 24F4	1124 EXTINT LIS R15,4	INTERNAL INTRPT.		PT311240
UF78 2306	1125 BS ERR2F			PT311250
UF7A 24F5	1126 UVDFLT LIS R15,5	FIXD. PT. DIV. FAULT INTRPT.		PT311260
UF7C 2304	1127 BS ERR2F			PT311270
UF7E 24F6	1128 CHANIO LIS R15,6	THIS INTRPT. IS AN ERROR		PT311280

0F80	2302	1129	BS	ERR2F	PT311290
0F82	24F7	1130	QVRFL0	LIS R15,7	PT311300
0F84	2307	1131	ERR2F	BS ERR2FF	PT311310
0F86	24F8	1132	SVCERR	LIS R15,8	PT311320
0F88	2305	1133		BS ERR2FF	PT311330
0F8A	0000	1134	DEVERR	DC 0	PT311340
0F8C	0000	1135		DC 0	PT311350
0F8E	0000	1136		DC 0	PT311360
0F90	24F9	1137		LIS R15,9	PT311370
0F92	C800 4630	1138	ERR2FF	LHI R0,C'F0'	PT311380
0F96	4000 100E	1139		STH R0,ERRNO	PT311390
0F9A	95D0	1140		EPSR R13,R13	PT311400
0F9C	2471	1141		LIS R7,1	PT311410
0F9E	4300 0FBA	1142		B ERR5	PT311420
		1143	*		PT311430
0FA2	95D0	1144	ERROR	EPSR R13,R13	SAVE CONDITION CODE PT311440
0FA4	2471	1145		LIS R7,1	PT311450
0FA6	080F	1146		LHR R0,R15	PT311460
0FA8	9108	1147		SLLS R0,8	PT311470
0FAA	900C	1148		SRLS R0,12	PT311480
0FAC	CA00 0030	1149		AHI R0,X'30'	PT311490
0FB0	C500 003A	1150		CLHI R0,X'3A'	PT311500
0FB4	2181	1151		BLS ERR2	PT311510
0FB6	D200 100E	1152	ERR2	STB R0,ERRNO	PT311520
0FBA	C4F0 000F	1153	ERR5	NHI R15,15	PT311530
0FBE	CAF0 0030	1154		AHI R15,X'30'	PT311540
0FC2	C5F0 003A	1155		CLHI R15,X'3A'	PT311550
0FC6	2182	1156		BLS ERR4	PT311560
0FC8	26F7	1157		AIS R15,7	PT311570
0FCA	D2F0 100F	1158	ERR4	STB R15,ERRNO+1	PT311580
		1159	*		PT311590
0FCE	C840 1004	1160		LHI R4,ERRMSG	PT311600
0FD2	C850 1013	1161		LHI R5,ERRMSG+15	PT311610
0FD6	2306	1162		BS PRTMSG	PT311620
		1163	*		PT311630
0FD8	2470	1164	NOERR	LIS R7,0	PT311640
0FDA	C840 1014	1165		LHI R4,NOER	PT311650
0FDE	C850 101F	1166		LHI R5,NOER+11	PT311660
0FE2	D320 104E	1167	PRTMSG	LB R2,OUTDEV	PT311670
0FE6	DE20 1042	1168		OC R2,OUTCMD	PT311680
0FEA	9D23	1169		SSR R2,R3	PT311690
0FEC	4290 0FE2	1170		BTC 9,PRTMSG	PT311700
0FF0	9624	1171		WBR R2,R4	PT311710
0FF2	4800 104C	1172		LH R0,IOERHW	IF IOERHW = 0 , I/O ERR. PT311720
0FF6	4230 02E0	1173		BNZ PART2	PT311730
0FFA	0877	1174		LHR R7,R7	PT311740
0FFC	4330 02E0	1175		BZ PART2	PT311750
1000	4300 1066	1176		B PRTS04	PT311760
		1177	*		PT311770
		1178	*		PT311780
		1179	*****	*****	PT311790
		1180	*		PT311800
		1181	*	DATA CONSTANTS	PT311810
		1182	*		PT311820
		1183	*		PT311830

		1184	*****				PT311840
		1185	*				PT311850
1034	0D0A	1186	ERRMSG	DC	X'D0A'	CR , LF	PT311860
1006	4552 524F 5220	1187		DC	C'ERROR '		PT311870
100C	3330	1188	TESTINO	DC	C'30'		PT311880
100E	0000	1189	ERRNO	DC	0		PT311890
1010	0D0A	1190		DC	X'D0A'	CR , LF	PT311900
1012	FFFF	1191		DCX	FFFF		PT311910
		1192	*				PT311920
1014	0D0A	1193	NOER	DC	X'D0A'	CR , LF	PT311930
1016	4E4F 2045 5252 4F52	1194		DC	C'NO ERROR'		PT311940
101E	0D0A	1195		DC	X'D0A'		PT311950
	0000 1020	1196	NULL	EQU	*		PT311960
1020	FFFF	1197		DCX	FFFF		PT311970
		1198	*				PT311980
1022	0000	1199	TEMP	DC	0		PT311990
1024	0000	1200		DC	0		PT312000
1026	0D0A	1201	TITLE2	DC	X'D0A'		PT312010
1028	5331 3650 5433 5230	1202		DC	C'S16PT3R08'		PT312020
1030	3820						
1032	0D0A	1203		DCX	0D0A		PT312030
1034	FFFF	1204		DCX	FFFF		PT312040
1036	4350 5520	1205		DC	C'CPU'		PT312050
103A	0D0A	1206		DCX	0D0A		PT312060
103C	2AFF	1207		DC	X'2AFF'		PT312070
103E	FFFF	1208		DCX	FFFF		PT312080
	0000 103F	1209	TITEND	EQU	*-1		PT312090
		1210	*				PT312100
		1211	*				PT312110
		1212	*				PT312120
		1213	*				PT312130
1040	0000	1214	CPUNO	DC	0		PT312140
1042	C8E4	1215	OUTCMD	DC	X'C8E4'		PT312150
	0000 1043	1216	INCMND	EQU	OUTCMD+1		PT312160
1044	ABB9	1217	CRTOUT	DCX	ABB9		PT312170
1046	C8E4	1218	CONOUT	DCX	C8E4		PT312180
1048	0000	1219	CRTFLG	DCX	0		PT312190
104A	0000	1220	FIRSTCMD	DCX	0		PT312200
104C	0000	1221	IOERHW	DC	0		PT312210
104E	02	1222	OUTDEV	DB	2	OUTDEV = 2 = TTY ADDRESS	PT312220
104F	02	1223	INDEV	DB	2		PT312230
1050	00	1224	STATUS	DB	0		PT312240
1051	00	1225		DB	*		PT312250
1052	00	1226	\$C4	DB	0		PT312260
1053	00	1227	\$54	DB	0		PT312270
1054	00	1228	\$58	DB	0		PT312280
1055	00	1229	\$48	DB	0		PT312290
1056	00	1230	\$44	DB	0		PT312300
1057	00	1231	\$56	DB	0		PT312310
1058	00	1232	\$66	DB	0		PT312320
1059	00	1233	\$64	DB	0		PT312330
		1234	*				PT312340
105A		1235	TABLE	DS	12		PT312350
		1236	*				PT312360
1066	41C0 0F58	1237	PRTSM4	BAL	R12,CRLF	CR AND LF	PT312370

106A	4800 0F06	1238	LH	R0,BUFR2	PT312380	
106E	2333	1239	BZS	PRTREG	PT312390	
1070	4300 02E0	1240	B	PART2	PT312400	
1074	4870 0F08	1241	PRTREG	LH R7,BUFR2+2	PT312410	
1078	4330 02E0	1242	BZ	PART2	PT312420	
107C	C880 0F0A	1243	LHI	R8,BUFR2+4	PT312430	
1080	48F8 0000	1244	AGAIN	LH R15,0(R8)	PT312440	
1084	41C0 109C	1245	BAL	R12,PRNTRF	PRINT A REG.	PT312450
1088	2771	1246	SIS	R7,1	PT312460	
108A	4330 02E0	1247	BZ	PART2	PT312470	
108E	C800 0020	1248	LHI	R0,X'20'	PT312480	
1092	41E0 0F42	1249	BAL	R14,WRITE1	PT312490	
1096	2682	1250	AIS	R8,2	PT312500	
1098	4300 1080	1251	B	AGAIN	PT312510	
		1252	*	PRINT CONTENTS OF REGISTER 15 , EXIT ON R12	PT312520	
109C	080F	1253	PRNTRF	LHR R0,R15 R15 = A B C D	PT312530	
109E	900C	1254	SRLS	R0,12	PT312540	
10A0	41E0 10BC	1255	BAL	R14,PRNTR0	PRINT A	PT312550
10A4	080F	1256	LHR	R0,R15	PT312560	
10A6	9008	1257	SRLS	R0,8	PT312570	
10A8	41E0 10BC	1258	BAL	R14,PRNTR0	PRINT B	PT312580
10AC	080F	1259	LHR	R0,R15	PT312590	
10AE	9004	1260	SRLS	R0,4	PT312600	
10B0	41E0 10BC	1261	BAL	R14,PRNTR0	PRINT C	PT312610
10B4	080F	1262	LHR	R0,R15	PT312620	
10B6	41E0 10BC	1263	BAL	R14,PRNTR0	PT312630	
10BA	030C	1264	BR	R12	PT312640	
10BC	C400 000F	1265	PRNTR0	NHI R0,15	PT312650	
10C0	CA00 0030	1266	AHI	R0,X'30'	PT312660	
10C4	C500 003A	1267	CLHI	R0,X'3A'	PT312670	
10C8	4280 0F42	1268	BL	WRITE1	PT312680	
10CC	2607	1269	AIS	R0,7	PT312690	
10CE	4300 0F42	1270	B	WRITE1	PT312700	
	0000 10D1	1271	LNZB	EQU *-1	PT312710	
		1272	*	CHKSUM	PT312720	
		1273	*	(THE FOLLOWING CODE IS NOT PART OF THE TEST.)	PT312730	
		1274	*		PT312740	
		1275	*		PT312750	
10D2	2400	1276	\$CHKSUM	LIS R0,0	PUNCH M17 TAPE WITH CHECKSUM	PT312760
10D4	9510	1277	EPSR	R1,R0	SELECT REG. SET 0	PT312770
		1278	*		PT312780	
10D6	C810 02D0	1279	LOAI	R1,ORIGIN1	START	PT312790
10DA	2421	1280	LIS	R2,1	INCREMENT	PT312800
10DC	C830 10D1	1281	LOAI	R3,LNZB	FINAL	PT312810
10E0	2440	1282	LIS	R4,0	CHECKSUM BYTE	PT312820
10E2	D351 0000	1283	\$GEN	LB R5,0(R1)	PT312830	
10E6	0745	1284	XAR	R4,R5	PT312840	
10E8	C110 10E2	1285	BXLE	R1,\$GEN	PT312850	
10EC	D240 0097	1286	STB	R4,MN+3	CHECKSUM BYTE TO ROOT LOADER	PT312860
		1287	*		PT312870	
10F0	C810 0080	1288	STAPE	LHI R1,X'0080'	PT312880	
10F4	9E21	1289	OCR	R2,R1	DISPLAY : NORMAL MODE	PT312890
10F6	9444	1290	EXBR	R4,R4	PT312900	
10F8	9824	1291	WHR	R2,R4	CHECKSUM BYTE TO D1	PT312910
10FA	9411	1292	EXBR	R1,R1	PT312920	

10FC	9501	1293	EPSR	R0,R1	HALT PROCESSOR.	PT312930
10FE	D360 007A	1295	\$PUNCH	LB R6,X'7A'	GET BOUTDV (PUNCH) ADDRESS.	PT312950
1102	DE60 007B	1296		OC R6,X'7B'	START TAPE PUNCH	PT312960
1106	9D6J	1297		SSR R6,R0		PT312970
1108	2081	1298		BTBS 8,1		PT312980
110A	41F0 114C	1299		BAL R15,\$TAPL	PUNCH LEADER	PT312990
110E	9411	1300		EXBR R1,R1	(R1) = X'0080'	PT313000
1110	C830 00CF	1301		LHI R3,X'CF'		PT313010
1114	DA61 0000	1302	\$PNCH1	WD R6,0(R1)	PUNCH BOOT LOADER	PT313020
1118	9060	1303		SSR R6,R0		PT313030
111A	2081	1304		BTBS 8,1		PT313040
111C	C110 1114	1305		BXLE R1,\$PNCH1		PT313050
1120	41F0 1152	1306		BAL R15,\$TAPL1	PUNCH ONE-FOLD GAP.	PT313060
		1307	*			PT313070
1124	D340 0097	1308		LB R4,MN+3	GET CHECKSUM BYTE	PT313080
1128	C810 02D0	1309		LDAI R1,ORIGIN1	(NORMALLY X'A00')	PT313090
112C	C830 1001	1310		LDAI R3,LNZB		PT313100
1130	D351 0000	1311	\$PNCH2	LB R5,0(R1)	PUNCH PROGRAM	PT313110
1134	0745	1312		XAR R4,R5		PT313120
1136	9A65	1313		WDR R6,R5		PT313130
1138	9401	1314		EXBR R0,R1		PT313140
113A	9820	1315		WHR R2,R0		PT313150
113C	9D60	1316		SSR R6,R0		PT313160
113E	2081	1317		BTBS 8,1		PT313170
1140	C110 1130	1318		BXLE R1,\$PNCH2		PT313180
1144	41F0 114C	1319		BAL R15,\$TAPL	PUNCH TRAILER.	PT313190
1148	4300 10F0	1320		B \$TAPE	DISPLAY CHECKSUM, HALT PROCESSOR.	PT313200
114C	C800 0100	1322	\$TAPL	LHI R0,256	TO PUNCH BLANK LEADER	PT313220
1150	2303	1323		BS \$TAPLP		PT313230
1152	C800 0055	1324	\$TAPL1	LHI R0,85	TO PUNCH 1-FOLD GAP	PT313240
1156	2701	1325	\$TAPLP	SIS R0,1		PT313250
1158	032F	1326		BNPR R15	RETURN	PT313260
115A	243J	1327		LIS R3,0		PT313270
115C	9A63	1328		WDR R6,R3	PUNCH BLANK FRAME	PT313280
115E	9D68	1329		SSR R6,R8		PT313290
1160	2081	1330		BTBS 8,1		PT313300
1162	2206	1331		BS \$TAPLP	CONTINUE.	PT313310
		1332		END		PT313320

ASSEMBLED BY CAL 03-066R05-00 (32-BIT)

START OPTIONS: SCR,CRO,T=16

NO CAL ERRORS
NO CAL WARNINGS
2 PASSES

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M5008	0000 041E	183*
M5009	0000 0436	189*
MALFTN	0000 0F72	194 1122*
MD01	0000 0E9E	581 584 585 1040*
MD10	0000 0EC2	605 613 1049*
MD11	0000 0EC6	606 612 1050*
MD12	0000 0ECA	607 611 1051*
MD13	0000 0ECE	616 617 618 1052*
MD14	0000 0ED2	619 628 1053*
MD15	0000 0ED6	620 627 1054*
MD16	0000 0EDA	621 626 1055*
MD17	0000 0EDE	622 625 1056*
MD18	0000 0EE2	623 624 1057*
MD2	0000 0EA2	582 586 1041*
MD3	0000 0EA6	1042*
MD4	0000 0EAA	591 597 1043*
MD5	0000 0EAE	592 595 596 1044*
MD6	0000 0EB2	589 590 638 639 640 1045*
MD7	0000 0EB6	602 609 1046*
MD8	0000 0EBA	603 610 1047*
MD9	0000 0EBE	600 601 604 1048*
MDOVER	0000 09F8	657 662*
MLOOP	0000 07EC	513* 543
MN	0000 0094	35* 1286 1308
MOD57	0000 03F8	146 150*
MOD578	0000 03FE	148 150 152*
MUL	0000 0D9E	512 958*
MULTI	0000 07E2	507 509* 661
NEG	0000 0C7E	441 480 534 569 647 870*
NOER	0000 1014	1165 1166 1193*
NOERR	0000 0FD8	739 1164*
NULL	0000 1020	1196*
ORIGIN1	0000 02D0	59* 1279 1309
OUTCMD	0000 1042	121 125 1105 1168 1215* 1216
OUTDEV	0000 104E	120 122 1104 1167 1222*
PART2	0000 02E0	70* 155 1173 1175 1240 1242 1247
PART2A	0000 02E4	70 71*
PART2AA	0000 02E8	71 73*
PART2B	0000 039A	122*
PART2C	0000 03A6	125* 127
PART2D	0000 03AA	126* 128 131 137
PASADR	0000 02DC	65* 95 97
PNT	0000 000D	256* 413 415 416 417 418 419 425 433 440 447 455 458 459 460 462 470 477 482 490 496 512 514 515 520 521 522 524 531 540 542 547 549 550 555 556 557 559 566 571 577 670 672 673 679 685 692 718 721 724 734 737
PRNTR0	0000 10BC	1255 1258 1261 1263 1265*
PRNTRF	0000 109C	1245 1253*
PRTMSG	0000 0FE2	1162 1167* 1170
PRTREG	0000 1074	1239 1241*
PRTS04	0000 1066	1176 1237*
PSWAVE	0000 02DE	30 66*
PURETOP	J000 0000R	
QVRFL0	0000 0F82	206 1130*
R0	0000 0000	9* 74 75 76 77 79 80 81 82 84 85 86 87

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			88	89	90	91	105	106	107	108	109	110	111	112	132
			141	143	144	145	147	149	151	153	210	211	213	215	220
			221	228	229	269	270	803	803	804	805	809	811	813	
			815	824	824	825	830	831	843	843	844	845	846	861	862
			1101	1102	1109	1111	1113	1138	1139	1146	1147	1148	1149	1150	1152
	R1	0000 0001	10*	33	43	44	46	51	93	94	95	96	97	98	103
			104	113	114	115	116	117	120	192	193	194	195	196	197
			198	199	200	201	202	203	204	205	206	207	810	812	814
			816	859	1277	1279	1283	1285	1288	1289	1292	1292	1293	1300	1300
			1302	1305	1309	1311	1314	1318							
	R10	0000 000A	19*	123	132	134	135	817	835	864					
	R11	0000 000B	20*	124	135	818	836	865							
	R12	0000 000C	21*	178	838	848	867	1115	1237	1245	1264				
	R13	0000 000D	22*	1140	1140	1144	1144								
	R14	0000 000E	23*	133	140	142	154	837	847	866	1103	1110	1112	1114	1249
			1255	1258	1261	1263									
	R15	0000 000F	24*	179	180	826	828	1118	1120	1122	1124	1126	1128	1130	1132
			1137	1146	1153	1154	1155	1157	1158	1244	1253	1256	1259	1262	1299
	R2	0000 0002	1306	1319	1326										
			11*	28	32	47	53	92	118	121	122	125	126	139	399
			399	400	404	502	506	632	633	660	664	1094	1095	1096	1097
			1099	1101	1104	1105	1106	1109	1167	1168	1169	1171	1280	1289	1291
	R3	0000 0003	1315												
			12*	34	99	100	126	129	130	181	182	183	184	185	186
			187	188	189	401	402	403	404	501	501	502	505	506	659
			659	660	663	664	857	859	1096	1097	1099	1106	1169	1281	1301
	R4	0000 0004	1310	1327	1328										
			13*	36	37	38	40	48	50	214	215	216	217	221	222
			223	858	860	1160	1165	1171	1282	1284	1286	1290	1290	1291	1308
	R5	0000 0005	1312												
			14*	38	40	41	41	43	44	45	48	50	56	1161	1166
			1283	1284	1311	1312	1313								
	R6	0000 0006	15*	35	45	52	1295	1296	1297	1302	1303	1313	1316	1328	1329
	R7	0000 0007	16*	54	55	56	1141	1145	1164	1174	1174	1241	1246		
	R8	0000 0008	17*	46	47	52	53	1243	1244	1250	1329				
	R9	0000 0009	18*												
	READY1	0000 0F26	140	142	1093*										
	READY3	0000 0F34	1099*	1100											
	RENTR0	0000 048A	215*	218											
	RENTR2	0000 049A	221*	224											
	RENTR8	0000 04B6	234*												
	RENTRY	0000 040E	152	178*											
	STATUS	0000 1050	1224*												
	SUBTO	0000 048A	234	263*											
	SVCERR	0000 0F86	213	1132*											
	SWAP	0000 0001	260*	405	405	784	784	786	786	798	798	856			
	T3B	0000 05D2	347*	350											
	T3C	0000 05F2	356*	359											
	T3D	0000 0612	365*	368											
	TABLE	0000 105A	202	229	1235*										
	TCC	0000 0BA2	680	683	686	689	693	696	699	702	709	712	716	719	722
			725	728	735	794*									
	TEMP	0000 1022	180	743	745	747	749	751	753	755	757	763	765	787	788

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