

FP11

LDCJX, STCXJ
MD-11-DCFPJ-B

EP-DCFPJ-B-DL-A

OCT 1976

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digital

FICHE 1 OF 1

Made in U.S.A.

The microfiche card displays a grid of 48 frames of data, organized into 8 rows and 6 columns. Each frame contains a small table or list of data points, likely representing a time-series or a set of measurements. The data is printed in a high-contrast, dot-matrix style typical of microfiche technology. The frames contain various numerical values and possibly some text labels, though they are too small to read clearly. The overall layout is a structured grid of data points across the left side of the card.

A small, faint logo or mark located in the bottom right corner of the microfiche card, possibly a manufacturer's mark or a specific identifier for the card.

.REP* 0

IDENTIFICATION

PRODUCT CODE: MAINDEC-11-DCFP1
 PRODUCT NAME: FPI1 BASIC INSTRUCTION TESTS
 DATE CREATED: MARCH 12, 1973
 MAINTAINER: DIAGNOSTIC GROUP
 AUTHORS: BOB BRAIN & KEN CHAPMAN

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MAINDEC NO.

INSTRUCTIONS TESTED

DCFP1	DCFPS, STFPS, SET1, SET2
DCFP2	SETF, SETD, CFCC
DCFP3	STST
DCFP4	LOF, LDD, STF, STC
DCFP5	ADD, ADD, SUB, SUBC
DCFP6	CMDF, CMPO
DCFP7	MULF, MULC
DCFP8	DIVF, DIVC
DCFP9	CLRF, CLRD, TSF, TSC
DCFP10	ABSF, ABSO, NEGF, NEGQ
DCFP11	LCCF, LCCD, STCF, STCD
DCFP12	SCCF, SCCL, STCF, STCD
DCFP13	STCF, STCD, STCF, STCD
DCFP14	STCF, STCD, STCF, STCD
DCFP15	STCF, STCD, STCF, STCD
DCFP16	STCF, STCD, STCF, STCD
DCFP17	STCF, STCD, STCF, STCD
DCFP18	STCF, STCD, STCF, STCD
DCFP19	STCF, STCD, STCF, STCD
DCFP20	STCF, STCD, STCF, STCD
DCFP21	STCF, STCD, STCF, STCD
DCFP22	STCF, STCD, STCF, STCD
DCFP23	STCF, STCD, STCF, STCD
DCFP24	STCF, STCD, STCF, STCD
DCFP25	STCF, STCD, STCF, STCD
DCFP26	STCF, STCD, STCF, STCD
DCFP27	STCF, STCD, STCF, STCD
DCFP28	STCF, STCD, STCF, STCD
DCFP29	STCF, STCD, STCF, STCD
DCFP30	STCF, STCD, STCF, STCD
DCFP31	STCF, STCD, STCF, STCD
DCFP32	STCF, STCD, STCF, STCD
DCFP33	STCF, STCD, STCF, STCD
DCFP34	STCF, STCD, STCF, STCD
DCFP35	STCF, STCD, STCF, STCD
DCFP36	STCF, STCD, STCF, STCD
DCFP37	STCF, STCD, STCF, STCD
DCFP38	STCF, STCD, STCF, STCD
DCFP39	STCF, STCD, STCF, STCD
DCFP40	STCF, STCD, STCF, STCD
DCFP41	STCF, STCD, STCF, STCD
DCFP42	STCF, STCD, STCF, STCD
DCFP43	STCF, STCD, STCF, STCD
DCFP44	STCF, STCD, STCF, STCD
DCFP45	STCF, STCD, STCF, STCD
DCFP46	STCF, STCD, STCF, STCD
DCFP47	STCF, STCD, STCF, STCD
DCFP48	STCF, STCD, STCF, STCD
DCFP49	STCF, STCD, STCF, STCD
DCFP50	STCF, STCD, STCF, STCD
DCFP51	STCF, STCD, STCF, STCD
DCFP52	STCF, STCD, STCF, STCD
DCFP53	STCF, STCD, STCF, STCD
DCFP54	STCF, STCD, STCF, STCD
DCFP55	STCF, STCD, STCF, STCD
DCFP56	STCF, STCD, STCF, STCD
DCFP57	STCF, STCD, STCF, STCD
DCFP58	STCF, STCD, STCF, STCD
DCFP59	STCF, STCD, STCF, STCD
DCFP60	STCF, STCD, STCF, STCD
DCFP61	STCF, STCD, STCF, STCD
DCFP62	STCF, STCD, STCF, STCD
DCFP63	STCF, STCD, STCF, STCD
DCFP64	STCF, STCD, STCF, STCD
DCFP65	STCF, STCD, STCF, STCD
DCFP66	STCF, STCD, STCF, STCD
DCFP67	STCF, STCD, STCF, STCD
DCFP68	STCF, STCD, STCF, STCD
DCFP69	STCF, STCD, STCF, STCD
DCFP70	STCF, STCD, STCF, STCD
DCFP71	STCF, STCD, STCF, STCD
DCFP72	STCF, STCD, STCF, STCD
DCFP73	STCF, STCD, STCF, STCD
DCFP74	STCF, STCD, STCF, STCD
DCFP75	STCF, STCD, STCF, STCD
DCFP76	STCF, STCD, STCF, STCD
DCFP77	STCF, STCD, STCF, STCD
DCFP78	STCF, STCD, STCF, STCD
DCFP79	STCF, STCD, STCF, STCD
DCFP80	STCF, STCD, STCF, STCD
DCFP81	STCF, STCD, STCF, STCD
DCFP82	STCF, STCD, STCF, STCD
DCFP83	STCF, STCD, STCF, STCD
DCFP84	STCF, STCD, STCF, STCD
DCFP85	STCF, STCD, STCF, STCD
DCFP86	STCF, STCD, STCF, STCD
DCFP87	STCF, STCD, STCF, STCD
DCFP88	STCF, STCD, STCF, STCD
DCFP89	STCF, STCD, STCF, STCD
DCFP90	STCF, STCD, STCF, STCD
DCFP91	STCF, STCD, STCF, STCD
DCFP92	STCF, STCD, STCF, STCD
DCFP93	STCF, STCD, STCF, STCD
DCFP94	STCF, STCD, STCF, STCD
DCFP95	STCF, STCD, STCF, STCD
DCFP96	STCF, STCD, STCF, STCD
DCFP97	STCF, STCD, STCF, STCD
DCFP98	STCF, STCD, STCF, STCD
DCFP99	STCF, STCD, STCF, STCD
DCFP100	STCF, STCD, STCF, STCD

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TEST OF LOGIX, STCXJ

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FP11 BASIC INSTRUCTION TEST DCFPA - DCFPL . PAGE 3
DESCRIPTION

1. ABSTRACT

THESE PROGRAMS TEST THE FP11 IN ALL MODES WITH FIXED NUMBER PATTERNS. THE PROGRAMS SHOULD BE RUN IN ORDER FOR AT LEAST 2 PASSES WITH ALL SWITCHES DOWN.

2. REQUIREMENTS

2.1 EQUIPMENT

PDP11/45 STANDARD COMPUTER WITH FP11 OPTION

2.2 STORAGE

PROGRAM STORAGE - THE ROUTINES USE MEMORY C - 17776

2.3 PRELIMINARY PROGRAMS

NONE

3. LOADING PROCEDURE

USE STANDARD PROCEDURE FOR ABS TAPES.

4. STARTING PROCEDURE

4.1 CONTROL SWITCH SETTINGS

SEE 5.1.1 (ALL DOWN FOR WORST CASE TESTING)

4.2 STARTING ADDRESS

THE PROGRAM SHOULD ALWAYS BE STARTED AT 200.

4.3 PROGRAM AND/OR OPERATOR ACTION

- 1) LOAD PROGRAM INTO MEMORY USING ABS LOADER.
- 2) LOAD ADDRESS 200.
- 3) SET SWITCHES (SEE SEC 5.1.1) ALL DOWN FOR WORST CASE
- 4) PRESS START.
- 5) THE PROGRAM WILL LOOP AND BELL WILL RING ONCE EVERY PASS
- 6) A MINIMUM OF TWO PASSES SHOULD ALWAYS BE RUN.

EO1

MAINTENANCE-1-20501-8
TEST P...

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2) THE DISPLAY ON THE 11:45 WILL SHOW THE ITERATION COUNT IN
THE LEFT EYE AND TEST NUMBER IN THE RIGHT. 10 JUN. 1976

FP11 BASIC INSTRUCTION TEST DCFPA - DCFPL
DESCRIPTION

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DATA DISPLAY SWITCH TO THE DISPLAY POSITION.

5. OPERATING PROCEDURE

5.1 OPERATIONAL SWITCH SETTINGS

AT SA 200 .. ALL SWITCHES DOWN IS WORST CASE TESTING. IF AN ERROR OCCURS, THAT TEST WILL BE LOOPED UPON UNTIL COMPLETION OF 256 CONSECUTIVE PASSES WITH NO ERRORS OF THE SUBTEST IF SW<9> SET TO A 1. THE BELL WILL RING UPON COMPLETION OF A PASS.

5.1.1 SWITCH SETTINGS ARE:

- SW<15> = 1 HALT ON ERROR
- SW<14> = 1 SCOPE LOOP
- SW<13> = 1 INHIBIT PRINTOUT
- SW<12> = 1 INHIBIT TRACE TRAPPING
- SW<11> = 1 INHIBIT ITERATIONS OF SUBTEST
- SW<10> = 1 BELL ON ERROR
- SW<09> = 0 BELL ON PASS COMPLETE
- SW<09> = 1 LOOP ON ERROR
- SW<08> = 1 LOOP ON TEST IN SW<7:0>
- SW<08> = 0 LOAD SW<7:0> INTO UB REGISTER

5.2 SUBROUTINE ABSTRACTS

5.2.1 SCOPE

THIS SUBROUTINE CALL IS PLACED BETWEEN EACH SUBTEST IN THE INSTRUCTION SECTION. IT RECORDS THE STARTING ADDRESS OF EACH SUBTEST AS IT IS BEING ENTERED IN LOCATION "LAD". IF A SCOPE LOOP IS REQUESTED, THE CURRENT SUBTEST WILL BE LOOPED UPON. SW<11> ON A 1 INHIBITS ITERATION OF SUBTESTS. CONTENTS OF LAD MAY BE USED TO DETERMINE THE LAST SUBTEST SUCCESSFULLY COMPLETED.

5.2.2 HLT

THIS ROUTINE PRINTS OUT AN ERROR MESSAGE (SEE 6.1.1) IF A HLT IS EXECUTED. THE SUBTEST WILL BE LOOPED UPON UNTIL 256 CONSECUTIVE GOOD PASSES ARE COMPLETED IF SW<9> IS ON A 1. TO INHIBIT TYPEOUTS, PUT SW<13> ON A 1.

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FP11 BASIC INSTRUCTION TEST DCFPA - DCFPL
DESCRIPTION

6.2 ERROR RECOVERY
RESTART AT 200

7. RESTRICTIONS
NONE

8. MISCELLANEOUS

8.1 EXECUTION TIME
A BELL WILL RING WITHIN 15 SECONDS WITH ALL SWITCHES DOWN.

8.2 STACK POINTER
STACK IS INITIALLY SET TO 600

8.3 POWER FAIL
EACH TEST CAN BE POWER FAILED WITH NO ERRORS EXCEPT ON THE
FEC AND FEA. TO USE, START THE TEST AS USUAL AND POWER DOWN
THEN UP AT ANY TIME. THE PROGRAM SHOULD TYPE "POWER" AND
CONTINUE TO RUN WITH NO OTHER TYPEOUTS.

9. PROGRAM DESCRIPTION

THESE PROGRAMS TEST ALL THE INSTRUCTIONS ON THE FP11 IN ALL
MODES. EACH PROGRAM HAS MANY SUBTESTS (THE CODE BETWEEN
SCOPE STATEMENTS) WHICH ARE RUN 256 TIMES BEFORE CONTINUING
TO THE NEXT. SW<11> ON A 1 CAUSES EACH SUBTEST TO BE RUN
ONLY ONCE. SW<9> ON A 1 ENABLES LOOP ON ERROR. THE ADDRESS
ICNT (LOC 1000) AND DISPLAY REGISTER ON THE 11/45 EACH
CONTAIN THE ITERATION COUNT IN THE LEFT BYTE AND THE TEST
NUMBER IN THE RIGHT BYTE. ALL THE SUBTESTS SHOULD BE RUN
SEQUENTIALLY BY STARTING AT 200 NOT BY STARTING AT THE
BEGINNING OF THE SUBTEST. TO LOOP ON A PARTICULAR SUBTEST
PUT THE TEST NUMBER (SEE LISTING) IN THE RIGHT BYTE OF THE
SWITCH REGISTER AND SW<8> ON A 1. THIS TEST WILL BE LOOPEO
UPON UNTIL SW<8> IS PUT ON A 0 OR THE RIGHT BIT IS CHANGED.
IF THE TEST IS NON-EXISTANT, THE PROGRAM WILL BE RUN AS
USUAL.
.ENDP

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.TITLE MAINDEC-11-DCFPJ-B TEST OF LDCJX, STCJX
:COPYRIGHT 1972, DIGITAL EQUIPMENT CORP., MAYNARD, MASS
:PROGRAM BY KEN CHAPMAN
:REM*

SWITCH	USE
8	0 - LOAD UB REGISTER WITH SW<7:0> 1 - LOOP ON TEST IN SW<7:0>
9	LOOP ON ERROR
10	0 - BELL ON PASS COMPLETE 1 - BELL ON ERROR
11	INHIBIT ITERATIONS
12	INHIBIT TRACE TRAP
13	INHIBIT ERROR TYPEOUTS
14	LOOP ON TEST
15	HALT ON ERROR

OUTPUT FORM:

ADR FPS ANS1 ANS2 ANS3 ANS4 ANS5 ANS6 ANS7 ANS8
FEC FEA

BIT	FPS REASON	FEC CODE	ERROR
0	CARRY	0	ADDRESS ERROR
1	OVERFLOW	2	OPCODE ERROR
2	ZERO	4	DIVIDE BY ZERO
3	NEGATIVE	6	CONVERSION ERROR
4	MAINTAINANCE MODE	10	OVERFLOW
5	TRUNCATE MODE	12	UNDERFLOW
6	LONG INTEGER MODE	14	UNDEFINED VARIABLE (L-C)
7	DOUBLE PRECISION MODE	16	LBREAK TRAP
8	INTERUPT ON CONVERSION ERROR		
9	INTERUPT ON OVERFLOW		
10	INTERUPT ON UNDERFLOW		
11	INTERUPT ON UNDEFINED VARIABLE		
12			
13			
14	INTERUPT DISABLE		
15	ERROR FLAG*		

```

000001 .ENABL ABS
177776 N= 1
177570 PS= 177776
177570 SWR= 177570
104400 DISPLAY=SWR
104000 SCOPE= TRAP
000004 HLT= EMT
000207 TYPE= IOT
000000 GELL= 207
000000 FPS= %0
000000 RO= %0
000001 R1= %1
000002 R2= %2
000003 R3= %3
000004 R4= %4
000005 R5= %5
000005 TTY= %5
000006 SP= %6
000007 PC= %7
000000 ACC= %0
000001 AC1= %1
000002 AC2= %2
000003 AC3= %3
000004 AC4= %4
000005 AC5= %5
100000 SW15= 100000
040000 SW14= 40000
020000 SW13= 20000
010000 SW12= 10000
004000 SW11= 4000
002000 SW10= 2000
001000 SW09= 1000
000400 SW08= 400
170003 LOUB= 170003
170005 STAO= 170005
170007 STGO= 170007
170006 MRS= 170006
170004 LDSC= 170004

000000 .= 0
000200 .= 200

000200 000167 000622 JMP BEG

000760 000760
000760 170200
000762 170367 000034
000766 000000
000770 000002

```

;TRAP CATCHER FROM C - 776

```

.= 760
FLTERR: STFPS FPS
STST FEC
HALT
RTI

```

001000	001000			=	1000		
001000	000000			ICNT:	0		: ITERATION COUNT - LH TEST NO. - RH
001002	000000			ANS1:	0		: FIRST ANSWER (SEE CODE)
001004	000000			ANS2:	0		
001006	000000			ANS3:	0		
001010	000000			ANS4:	0		
001012	000000			ANS5:	0		
001014	000000			ANS6:	0		
001016	000000			ANS7:	0		
001020	000000			ANS8:	0		
001022	000000			FEC:	0		: FLOATING EXCEPTION CODES
001024	000000			FEA:	0		: FLOATING EXECPTION ADDRESS
001026	012706	000600		BEG:	MOV	#600, SP	: ** STACK AT 600 **
001032	012737	001054	000004		MOV	#M1120, 2#4	: FIND OUT WHICH MACHINE THIS IS
001040	005737	177772			TST	2#177772	: IS PIRQ THERE?
001044	012767	000006	015206		MOV	#6, YESRT	: FUDGE IN RTT IF 11/45
001052	000403				BR	BEGIN	
001054	016737	016342	000010	M1120:	MOV	FPTADR, 2#10	: LOAD THE ILLEGAL INSTRUCTION VECTOR
							: WITH THE ADDRESS OF THE FPU.
							: THE FPU WILL HANDLE THE BAD OPCODES
							: RESET 4
001062	012737	000006	000004	BEGIN:	MOV	#6, 2#4	
001070	012706	000600			MOV	#600, SP	
001074	012737	016260	000014		MOV	#YESRT, 2#14	: SET TRACE TRAP VECTOR
001102	012777	017120	016320		MOV	#POWDWN, 2DOWNVEC	
001110	012777	000340	016314		MOV	#340, 2DOWNVEC+2	
001116	012737	017320	000020		MOV	#. IOT, 2#20	: SET JP VECTOR 20
001124	012700	000030			MOV	#30, R0	: SET R0 TO VECTOR 30
001130	012720	016422			MOV	#. TRP, (0)+	: SET EMT VECTOR
001134	012720	000340			MOV	#340, (0)+	
001140	012720	016262			MOV	#. EMT, (0)+	: SET TRAP VECTOR
001144	012710	000340			MOV	#340, (0)	
001150	012777	000760	016246		MOV	#FLTERR, 2FPVECT	: LOAD INTERJPT VECTOR
001156	012777	000340	016242		MOV	#340, 2FPVECT+2	: LOCK UP PROCESSOR
001164	005067	177610			CLR	ICNT	
001170	005067	016250			CLR	LAC	

```

*****
:TEST 1:      TEST LDCIF (LOAD-CONVERT INTEGER TO FLOATING)
:             LOAD      000000 --> 000000,000000
:             FPS = 047404, SRC = M2-R7, AC = AC1
*****

```

```

001174 104400
001175 170127 047400
001202 177127 000000
001206 170200
001210 022700 047404
001214 001401
001216 104000

001220 174167 177556
001224 022767 000000 177550
001232 001401
001234 104002

001236 022767 000000 177540
001244 001401
001246 104002

```

```

TST1:  SCOPE
        LDFPS      #047400      ;LOAD FLOATING POINT STATUS
        LDCIF      #000000,AC1  ;LOAD-CONVERT 000000 INTO AC1
        STFPS      FPS          ;STORE FLOATING POINT STATUS
        CMP        #047404,FPS  ;CHECK FLOATING POINT STATUS
        BEQ        .+4          ;BRANCH IF OK
        HLT        ;FPS NOT EQUAL TO 047404

        STF        AC1, ANS1     ;STORE AC1 IN ANS1, ANS2
        CMP        #000000,ANS1 ;DID 000000 GET STORED?
        BEQ        .+4          ;BRANCH IF OK
        HLT+2      ;ANS1 NOT EQUAL TO 000000

        CMP        #000000,ANS2 ;DID 000000 GET STORED?
        BEQ        .+4          ;BRANCH IF OK
        HLT+2      ;ANS2 NOT EQUAL TO 000000

```

```

*****
:TEST 2:      TEST LDCIF (LOAD-CONVERT INTEGER TO FLOATING)
:             LOAD      125252 --> 143652,126000
:             FPS = 047404, SRC = M2-R7, AC = AC1
*****

```

```

001250 104400
001252 170127 047400
001256 177127 125252
001262 170200
001264 022700 047410
001270 001401
001272 104000

001274 174167 177502
001300 022767 143652 177474
001306 001401
001310 104002

001312 022767 126000 177464
001320 001401
001322 104002

```

```

TST2:  SCOPE
        LDFPS      #047400      ;LOAD FLOATING POINT STATUS
        LDCIF      #125252,AC1  ;LOAD-CONVERT 125252 INTO AC1
        STFPS      FPS          ;STORE FLOATING POINT STATUS
        CMP        #047410,FPS  ;CHECK FLOATING POINT STATUS
        BEQ        .+4          ;BRANCH IF OK
        HLT        ;FPS NOT EQUAL TO 047410

        STF        AC1, ANS1     ;STORE AC1 IN ANS1, ANS2
        CMP        #143652,ANS1 ;DID 143652 GET STORED?
        BEQ        .+4          ;BRANCH IF OK
        HLT+2      ;ANS1 NOT EQUAL TO 143652

        CMP        #126000,ANS2 ;DID 126000 GET STORED?
        BEQ        .+4          ;BRANCH IF OK
        HLT+2      ;ANS2 NOT EQUAL TO 126000

```

```

*****
:TEST 3:      TEST LDCIF (LOAD-CONVERT INTEGER TO FLOATING)
:             LOAD      052525 --> 043652,125000
:             FPS = 047400, SRC = M2-R7, AC = AC0
*****

```

001324 104400

SCOPE

MO1

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TEST SECTION

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```

001326 170127 047400      TST3:  LDFPS  #047400      ;LOAD FLOATING POINT STATUS
001332 177027 052525      LDCIF  #052525,AC0    ;LOAD-CONVEFT 052525 INTO AC0
001336 170200      STFPS  FPS           ;STORE FLOATING POINT STATUS
001340 022700 047400      CMP    #047400,FPS    ;CHECK FLOATING POINT STATUS
001344 001401      BEQ    .+4           ;BRANCH IF OK
001346 104000      HLT                    ;FPS NOT EQUAL TO 047400

001350 174067 177426      STF    AC0,  ANS1     ;STORE AC0 IN ANS1, ANS2
001354 022767 043652 177420  CMP    #043652,ANS1  ;DID 043652 GET STORED?
001362 001401      BEQ    .+4           ;BRANCH IF OK
001364 104002      HLT+2                ;ANS1 NOT EQUAL TO 043652

001366 022767 125000 177410  CMP    #125000,ANS2  ;DID 125000 GET STORED?
001374 001401      BEQ    .+4           ;BRANCH IF OK
001376 104002      HLT+2                ;ANS2 NOT EQUAL TO 125000

```

```

:*****
:TEST 4:      TEST LDCIF (LOAD-CONVERT INTEGER TO FLOATING)
:             LOAD  000001 --> 040200,000000
:             FPS = 047400,  SRC = M2-R7,  AC = AC0
:*****

```

```

001400 104400      SCOPE
001402 170127 047400      TST4:  LDFPS  #047400      ;LOAD FLOATING POINT STATUS
001406 177027 000001      LDCIF  #000001,AC0    ;LOAD-CONVERT 000001 INTO AC0
001412 170200      STFPS  FPS           ;STORE FLOATING POINT STATUS
001414 022700 047400      CMP    #047400,FPS    ;CHECK FLOATING POINT STATUS
001420 001401      BEQ    .+4           ;BRANCH IF OK
001422 104000      HLT                    ;FPS NOT EQUAL TO 047400

001424 174067 177352      STF    AC0,  ANS1     ;STORE AC0 IN ANS1, ANS2
001430 022767 040200 177344  CMP    #040200,ANS1  ;DID 040200 GET STORED?
001436 001401      BEQ    .+4           ;BRANCH IF OK
001440 104002      HLT+2                ;ANS1 NOT EQUAL TO 040200

001442 022767 000000 177334  CMP    #000000,ANS2  ;DID 000000 GET STORED?
001450 001401      BEQ    .+4           ;BRANCH IF OK
001452 104002      HLT+2                ;ANS2 NOT EQUAL TO 000000

```

```

:*****
:TEST 5:      TEST LDCIF (LOAD-CONVERT INTEGER TO FLOATING)
:             LOAD  177777 --> 140200,000000
:             FPS = 047410,  SRC = M2-R7,  AC = AC3
:*****

```

```

001454 104400      SCOPE
001456 170127 047400      TST5:  LDFPS  #047400      ;LOAD FLOATING POINT STATUS
001462 177327 177777      LDCIF  #177777,AC3    ;LOAD-CONVERT 177777 INTO AC3
001466 170200      STFPS  FPS           ;STORE FLOATING POINT STATUS
001470 022700 047410      CMP    #047410,FPS    ;CHECK FLOATING POINT STATUS
001474 001401      BEQ    .+4           ;BRANCH IF OK
001476 104000      HLT                    ;FPS NOT EQUAL TO 047410

001500 174367 177276      STF    AC3,  ANS1     ;STORE AC3 IN ANS1, ANS2

```

```

001504 022767 140200 177270      CMP      #140200,ANS1      ;DID 140200 GET STORED?
001512 001401                      BEQ      .+4              ;BRANCH IF OK
001514 104002                      HLT+2                    ;ANS1 NOT EQUAL TO 140200

001516 022767 000000 177260      CMP      #000000,ANS2     ;DID 000000 GET STORED?
001524 001401                      BEQ      .+4              ;BRANCH IF OK
001526 104002                      HLT+2                    ;ANS2 NOT EQUAL TO 000000

```

```

*****
:TEST 6:      TEST LDCIF (LOAD-CONVERT INTEGER TO FLOATING)
:             LOAD 100000 --> 144000,000000
:             FPS = 047410, SRC = M2-R7, AC = AC0
*****

```

```

001530 104400
001532 170127 047400
001536 177027 100000
001542 170200
001544 022700 047410
001550 001401
001552 104000

TST6:  SCOPE
      LDFPS #047400      ;LOAD FLOATING POINT STATUS
      LDCIF #100000,AC0 ;LOAD-CONVERT 100000 INTO AC0
      STFPS FPS          ;STORE FLOATING POINT STATUS
      CMP   #047410,FPS  ;CHECK FLOATING POINT STATUS
      BEQ   .+4          ;BRANCH IF OK
      HLT                                ;FPS NOT EQUAL TO 047410

001554 174067 177222
001560 022767 144000 177214
001566 001401
001570 104002

      STF   AC0, ANS1     ;STORE AC0 IN ANS1, ANS2
      CMP   #144000,ANS1 ;DID 144000 GET STORED?
      BEQ   .+4          ;BRANCH IF OK
      HLT+2              ;ANS1 NOT EQUAL TO 144000

001572 022767 000000 177204
001600 001401
001602 104002

      CMP   #000000,ANS2 ;DID 000000 GET STORED?
      BEQ   .+4          ;BRANCH IF OK
      HLT+2              ;ANS2 NOT EQUAL TO 000000

```

```

*****
:TEST 7:      TEST LDCIF (LOAD-CONVERT INTEGER TO FLOATING)
:             LOAD 077777 --> 043777,177000
:             FPS = 047400, SRC = M2-R7, AC = AC2
*****

```

```

001604 104400
001606 170127 047400
001612 177227 077777
001616 170200
001620 022700 047400
001624 001401
001626 104000

TST7:  SCOPE
      LDFPS #047400      ;LOAD FLOATING POINT STATUS
      LDCIF #077777,AC2 ;LOAD-CONVERT 077777 INTO AC2
      STFPS FPS          ;STORE FLOATING POINT STATUS
      CMP   #047400,FPS  ;CHECK FLOATING POINT STATUS
      BEQ   .+4          ;BRANCH IF OK
      HLT                                ;FPS NOT EQUAL TO 047400

001630 174267 177146
001634 022767 043777 177140
001642 001401
001644 104002

      STF   AC2, ANS1     ;STORE AC2 IN ANS1, ANS2
      CMP   #043777,ANS1 ;DID 043777 GET STORED?
      BEQ   .+4          ;BRANCH IF OK
      HLT+2              ;ANS1 NOT EQUAL TO 043777

001646 022767 177000 177130
001654 001401
001656 104002

      CMP   #177000,ANS2 ;DID 177000 GET STORED?
      BEQ   .+4          ;BRANCH IF OK
      HLT+2              ;ANS2 NOT EQUAL TO 177000

```

TEST 10: TEST LDCIF (LOAD-CONVERT INTEGER TO FLOATING)
LOAD 000125 --> 041652,000000
FPS = 047400, SRC = M2-R7, AC = AC2

001700 104000
001701 001401
001702 022700
001703 047400
001704 170200
001705 000125
001706 047400
001707 170200
001708 104000

TEST10: SCOPE
LDFPS #047400 ;LOAD FLOATING POINT STATUS
LDCIF #000125,AC2 ;LOAD-CONVERT 000125 INTO AC2
STFPS FPS ;STORE FLOATING POINT STATUS
CMP #047400,FPS ;CHECK FLOATING POINT STATUS
BEQ .+4 ;BRANCH IF OK
HLT ;FPS NOT EQUAL TO 047400

001709 174267 177072
001710 022767 041652 177064
001711 001401
001712 104002

STF AC2 ANS1 ;STORE AC2 IN ANS1, ANS2
CMP #041652,ANS1 ;DID 041652 GET STORED?
BEQ .+4 ;BRANCH IF OK
HLT+2 ;ANS1 NOT EQUAL TO 041652

001713 022767 000000 177054
001714 001401
001715 104002

CMP #000000,ANS2 ;DID 000000 GET STORED?
BEQ .+4 ;BRANCH IF OK
HLT+2 ;ANS2 NOT EQUAL TO 000000

TEST 11: TEST LDCIF (LOAD-CONVERT INTEGER TO FLOATING)
LOAD 070707 --> 043743,107000
FPS = 047400, SRC = M0-R2, AC = AC1

001716 104400
001717 170127 047400
001718 012702 070707
001719 177102
001720 170200
001721 022700 047400
001722 001401
001723 104000

TEST11: SCOPE
LDFPS #047400 ;LOAD FLOATING POINT STATUS
MOV #070707,R2 ;LOAD 070707 INTO R2
LDCIF R2 AC1 ;LOAD-CONVERT 070707 INTO AC1
STFPS FPS ;STORE FLOATING POINT STATUS
CMP #047400,FPS ;CHECK FLOATING POINT STATUS
BEQ .+4 ;BRANCH IF OK
HLT ;FPS NOT EQUAL TO 047400

001724 174167 177014
001725 022767 043743 177006
001726 001401
001727 104002

STF AC1 ANS1 ;STORE AC1 IN ANS1, ANS2
CMP #043743,ANS1 ;DID 043743 GET STORED?
BEQ .+4 ;BRANCH IF OK
HLT+2 ;ANS1 NOT EQUAL TO 043743

002000 022767 107000 176776
002001 001401
002002 104002

CMP #107000,ANS2 ;DID 107000 GET STORED?
BEQ .+4 ;BRANCH IF OK
HLT+2 ;ANS2 NOT EQUAL TO 107000

TEST 12: TEST LDCIF (LOAD-CONVERT INTEGER TO FLOATING)
LOAD 107070 --> 143743,110000
FPS = 047410, SRC = M6-R7, AC = AC2

```

002012 104400          SCOPE
002014 000401          BR      TST12          :SKIP DATA

002016 107070          DAT12: 107070

002020 170127 047400      TST12: LDFPS  #047400          :LOAD FLOATING POINT STATUS
002024 172267 177766      LDCIF  DAT12,  AC2          :LOAD-CONVERT 107070 INTO AC2
002030 170200          STFPS  FPS                  :STORE FLOATING POINT STATUS
002032 022700 047410      CMP    #047410.FPS          :CHECK FLOATING POINT STATUS
002036 001401          BEQ    .+4                  :BRANCH IF OK
002040 104000          HLT                    :FPS NOT EQUAL TO 047410

002042 174267 176734          STF    AC2,  ANS1          :STORE AC2 IN ANS1, ANS2
002046 022767 143743 176726      CMP    #143743.ANS1        :DID 143743 GET STORED?
002054 001401          BEQ    .+4                  :BRANCH IF OK
002056 104002          HLT+2                    :ANS1 NOT EQUAL TO 143743

002060 022767 110000 176716      CMP    #110000.ANS2        :DID 110000 GET STORED?
002066 001401          BEQ    .+4                  :BRANCH IF OK
002070 104002          HLT+2                    :ANS2 NOT EQUAL TO 110000

```

```

*****
:TEST 13: TEST STCFI (STORE-CONVERT FLOATING TO INTEGER)
:   STORE 000000.000000 --> 000000
:   FPS = 047404, AC = ACC, DST = M6-R7
*****

```

```

002072 104400          SCOPE
002074 000402          BR      TST13

002076 000000 000000      DAT13: 000000.000000

002102 170127 047400      TST13: LDFPS  #047400          :LOAD FLOATING POINT STATUS
002106 172467 177764      LDF    DAT13,  ACC          :LOAD 000000.000000 INTO ACC
002112 175467 176664      FP:13: STCFI  ACC,  ANS1        :STORE-CONVERT ACC IN ANS1
002116 013767 177776 176650      MOV    #0PS,  ANS2         :GET CPU STATUS
002124 042767 177760 176652      BIC    #177760.ANS2        :SAVE CONDITION CODES
002132 170200          STFPS  FPS                  :STORE FLOATING POINT STATUS
002134 022700 047-04      CMP    #047404.FPS          :CHECK FLOATING POINT STATUS
002140 001401          BEQ    .+4                  :BRANCH IF OK
002142 104000          HLT                    :FPS NOT EQUAL TO 047404

002144 022767 000000 176630      CMP    #000000.ANS1        :DID 000000 GET STORED?
002150 001401          BEQ    .+4                  :BRANCH IF OK
002154 104001          HLT+1                    :ANS1 NOT EQUAL TO 000000

002156 022767 000004 176620      CMP    #4,  ANS2           :CONDITION CODES = 4?
002164 001401          BEQ    .+4                  :BRANCH IF OK
002166 104002          HLT+2                    :WRONG CONDITION CODES!

```

```

*****
:TEST 14: TEST STCFI (STORE-CONVERT FLOATING TO INTEGER)
:   STORE 041252.125252 --> 000025
:   FPS = 047400, AC = ACC, DST = M6-R7
*****

```

```

002170 104400          SCOPE
002172 000402          BR      TST14

002174 041252 125252  DAT14: 041252,125252

002200 170127 047400  TST14: LDFPS #047400      :LOAD FLOATING POINT STATUS
002202 172467 177764  LDF  DAT14,  AC0      :LOAD 041252,125252 INTO AC0
002210 175467 176566  FPI14: STCFI  AC0,  ANS1 :STORE-CONVERT AC0 IN ANS1
002214 013767 177776 176562  MOV  #0PS,  ANS2      :GET CPU STATUS
002222 042767 177760 176554  BIC  #177760,ANS2    :SAVE CONDITION CODES
002230 170200  STFPS FPS           :STORE FLOATING POINT STATUS
002232 022700 047400  CMP  #047400 FPS     :CHECK FLOATING POINT STATUS
002236 001401  BEQ  .+4            :BRANCH IF OK
002240 104000  HLT  .+4            :FPS NOT EQUAL TO 047400

002242 022767 000025 176532  CMP  #000025,ANS1   :DID 000025 GET STORED?
002250 001401  BEQ  .+4            :BRANCH IF OK
002252 104001  HLT+1              :ANS1 NOT EQUAL TO 000025

002254 022767 000000 176522  CMP  #0,  ANS2      :CONDITION CODES = 0?
002262 001401  BEQ  .+4            :BRANCH IF OK
002264 104002  HLT+2              :WRONG CONDITION CODES!

```

```

*****
:TEST 15: TEST STCFI (STORE-CONVERT FLOATING TO INTEGER)
: STORE 141252,125252 --> 177753
: FPS = 047410, AC = AC3, DST = M6-R7
*****

```

```

002266 104400          SCOPE
002270 000402          BR      TST15

002272 141252 125252  DAT15: 141252,125252

002276 170127 047400  *TST15: LDFPS #047400      :LOAD FLOATING POINT STATUS
002302 172767 177764  LDF  DAT15,  AC3      :LOAD 141252,125252 INTO AC3
002306 175767 176470  FPI15: STCFI  AC3,  ANS1 :STORE-CONVERT AC3 IN ANS1
002312 013767 177776 176464  MOV  #0PS,  ANS2      :GET CPU STATUS
002320 042767 177760 176456  BIC  #177760,ANS2    :SAVE CONDITION CODES
002326 170200  STFPS FPS           :STORE FLOATING POINT STATUS
002330 022700 047410  CMP  #047410, FPS     :CHECK FLOATING POINT STATUS
002334 001401  BEQ  .+4            :BRANCH IF OK
002336 104000  HLT  .+4            :FPS NOT EQUAL TO 047410

002340 022767 177753 176434  CMP  #177753,ANS1   :DID 177753 GET STORED?
002346 001401  BEQ  .+4            :BRANCH IF OK
002350 104001  HLT+1              :ANS1 NOT EQUAL TO 177753

002352 022767 000010 176424  CMP  #10,  ANS2     :CONDITION CODES = 10?
002356 001401  BEQ  .+4            :BRANCH IF OK
002358 104002  HLT+2              :WRONG CONDITION CODES!

```

E02

MANAGER-000000-S
00000000

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:TEST 16: TEST STCFI (STORE-CONVERT FLOATING TO INTEGER)
:STORE 040177,177777 --) 000000
:FPS = 047404, AC = AC0, DST = M6-R7

002374 104400
002376 000402

002378 040177 177777

002374 170127 047400
002400 172467 177764
002404 175467 176372
002410 013767 177776 176366
002416 042767 177760 176360
002424 170200
002426 022700 047404
002432 001401
002434 104000

SCOPE
BR TST16

DAT16: 040177,177777

TST16: LDFPS #047400 :LOAD FLOATING POINT STATUS
LDF DAT16, AC0 :LOAD 040177,177777 INTO AC0
FPI16: STCFI AC0, ANS1 :STORE-CONVERT AC0 IN ANS1
MOV #FPS, ANS2 :GET CPU STATUS
BIC #177760,ANS2 :SAVE CONDITION CODES
STFPS FPS :STORE FLOATING POINT STATUS
CMP #047404,FPS :CHECK FLOATING POINT STATUS
BEQ .+4 :BRANCH IF OK
HLT :FPS NOT EQUAL TO 047404

002436 022767 000000 176336
002444 001401
002446 104001

CMP #000000,ANS1 :DID 000000 GET STORED?
BEQ .+4 :BRANCH IF OK
HLT+1 :ANS1 NOT EQUAL TO 000000

002450 022767 000004 176326
002456 001401
002460 104001

CMP #4, ANS2 :CONDITION CODES = 4?
BEQ .+4 :BRANCH IF OK
HLT+2 :WRONG CONDITION CODES!

:TEST 17: TEST STCFI (STORE-CONVERT FLOATING TO INTEGER)
:STORE 140177,177777 --) 000000
:FPS = 047404, AC = AC2, DST = M6-R7

002462 104400
002464 000402

002466 140177 177777

002472 170127 047400
002476 172667 177764
002502 175667 176274
002506 013767 177776 176270
002514 042767 177760 176262
002522 170200
002524 022700 047404
002530 001401
002532 104000

SCOPE
BR TST17

DAT17: 140177,177777

TST17: LDFPS #047400 :LOAD FLOATING POINT STATUS
LDF DAT17, AC2 :LOAD 140177,177777 INTO AC2
FPI17: STCFI AC2, ANS1 :STORE-CONVERT AC2 IN ANS1
MOV #FPS, ANS2 :GET CPU STATUS
BIC #177760,ANS2 :SAVE CONDITION CODES
STFPS FPS :STORE FLOATING POINT STATUS
CMP #047404,FPS :CHECK FLOATING POINT STATUS
BEQ .+4 :BRANCH IF OK
HLT :FPS NOT EQUAL TO 047404

002534 022767 000000 176240
002542 001401
002544 104001

CMP #000000,ANS1 :DID 000000 GET STORED?
BEQ .+4 :BRANCH IF OK
HLT+1 :ANS1 NOT EQUAL TO 000000

002546 022767 000004 176230

CMP #4, ANS2 :CONDITION CODES = 4?

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TEST OF LDCIX, STCXJ
TEST SECTION

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002554 001401
002556 104002

BEQ .+4
HLT+2

:BRANCH IF OK
:WRONG CONDITION CODES!

:TEST 20: TEST STCFI (STORE-CONVERT FLOATING TO INTEGER)
: STORE 040200,000001 --> 000001
: FPS = 047400, AC = AC2, DST = M6-R7

002560 104400
002562 000402

SCOPE
BR TST20

002564 040200 000001

DAT20: 040200,000001

002570 170127 047400
002574 172667 177764
002600 175667 176176
002604 013767 177776 176172
002612 042767 177760 175164
002620 170200
002622 022700 047400
002626 001401
002630 104000

TST20: LDFPS #047400 :LOAD FLOATING POINT STATUS
LDF DAT20, AC2 :LOAD 040200,000001 INTO AC2
FPI20: STCFI AC2, ANS1 :STORE-CONVERT AC2 IN ANS1
MOV #0, ANS2 :GET CPU STATUS
BIC #177760, ANS2 :SAVE CONDITION CODES
STFPS FPS :STORE FLOATING POINT STATUS
CMP #047400, FPS :CHECK FLOATING POINT STATUS
BEQ .+4 :BRANCH IF OK
HLT :FPS NOT EQUAL TO 047400

002632 022767 000001 176142
002640 001401
002642 104001

CMP #000001, ANS1 :DID 000001 GET STORED?
BEQ .+4 :BRANCH IF OK
HLT+1 :ANS1 NOT EQUAL TO 000001

002644 022767 000000 176132
002652 001401
002654 104002

CMP #0, ANS2 :CONDITION CODES = 0?
BEQ .+4 :BRANCH IF OK
HLT+2 :WRONG CONDITION CODES!

:TEST 21: TEST STCFI (STORE-CONVERT FLOATING TO INTEGER)
: STORE 140200,000001 --> 177777
: FPS = 047410, AC = AC1, DST = M6-R7

002656 104400
002658 000402

SCOPE
BR TST21

002662 140200 000001

DAT21: 140200,000001

002666 170127 047400
002672 172567 177764
002676 175567 176100
002702 013767 177776 176074
002710 042767 177760 175066
002716 170200
002720 022700 047410
002724 001401
002726 104000

TST21: LDFPS #047400 :LOAD FLOATING POINT STATUS
LDF DAT21, AC1 :LOAD 140200,000001 INTO AC1
FPI21: STCFI AC1, ANS1 :STORE-CONVERT AC1 IN ANS1
MOV #0, ANS2 :GET CPU STATUS
BIC #177760, ANS2 :SAVE CONDITION CODES
STFPS FPS :STORE FLOATING POINT STATUS
CMP #047410, FPS :CHECK FLOATING POINT STATUS
BEQ .+4 :BRANCH IF OK
HLT :FPS NOT EQUAL TO 047410

002730 022767 177777 176044

CMP #177777, ANS1 :DID 177777 GET STORED?

```

002736 001401 BEQ .+4 ;BRANCH IF OK
002740 104001 HLT+1 ;ANSI NOT EQUAL TO 177777

002742 022767 000010 176034 CMP #10, ANS2 ;CONDITION CODES = 10?
002750 001401 BEQ .+4 ;BRANCH IF OK
002752 104002 HLT+2 ;WRONG CONDITION CODES!

```

```

*****
TEST 22: TEST STCFI (STORE-CONVERT FLOATING TO INTEGER,
STORE 043777,177777 --> 077777
FPS = 047400, AC = AC1, DST = M6-R7
*****

```

```

002754 104402 SCOPE
002756 000402 BR TST22

002750 043777 177777 DAT22: 043777,177777

002764 170127 047400 TST22: LDFPS #047400 ;LOAD FLOATING POINT STATUS
002770 172567 177764 LDF DAT22, AC1 ;LOAD 043777,177777 INTO AC1
002774 175567 176002 FPI22: STCFI AC1, ANS1 ;STORE-CONVERT AC1 IN ANS1
003000 013767 177776 175776 MOV #0PS, ANS2 ;GET CPU STATUS
003006 042767 177760 175770 BIC #177760, ANS2 ;SAVE CONDITION CODES
003014 170200 STFPS FPS ;STORE FLOATING POINT STATUS
003016 022700 047400 CMP #047400, FPS ;CHECK FLOATING POINT STATUS
003022 001401 BEQ .+4 ;BRANCH IF OK
003024 104000 HLT ;FPS NOT EQUAL TO 047400

003026 022767 077777 175746 CMP #077777, ANS1 ;DID 077777 GET STORED?
003034 001401 BEQ .+4 ;BRANCH IF OK
003036 104001 HLT+1 ;ANS1 NOT EQUAL TO 077777

003040 022767 000000 175736 CMP #0, ANS2 ;CONDITION CODES = 0?
003046 001401 BEQ .+4 ;BRANCH IF OK
003050 104002 HLT+2 ;WRONG CONDITION CODES!

```

```

*****
TEST 23: TEST STCFI (STORE-CONVERT FLOATING TO INTEGER,
STORE 044000,000000 --> 000000
FPS = 147405, AC = ACC, DST = M6-R7
FEC = E, FEA = FPI23
*****

```

```

003052 104400 SCOPE
003054 000402 BR TST23

003056 044000 000000 DAT23: 044000,000000

003062 170127 047400 TST23: LDFPS #047400 ;LOAD FLOATING POINT STATUS
003066 172467 177764 LDF DAT23, ACC ;LOAD 044000,000000 INTO ACC
003072 175467 175704 FPI23: STCFI ACC, ANS1 ;STORE-CONVERT ACC IN ANS1
003076 013767 177776 175700 MOV #0PS, ANS2 ;GET CPU STATUS
003084 042767 177760 175672 BIC #177760, ANS2 ;SAVE CONDITION CODES
003092 170200 STFPS FPS ;STORE FLOATING POINT STATUS

```


H02

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```

003114 170367 175700 STST FEC :STORE EXCEPTION CODES
003120 022700 147405 CMP #147405.FPS :CHECK FLOATING POINT STATUS
003124 001401 BEQ .+4 :BRANCH IF OK
003126 104000 HLT :FPS NOT EQUAL TO 147405

003130 022767 000006 175664 CMP #6, FEC :CHECK FLOATING EXCEPTION CODE
003136 001401 BEQ .+4 :BRANCH IF OK
003140 104000 HLT :FEC NOT EQUAL TO 6

003142 022767 003072 175654 CMP #FPI23, FEA :CHECK FLOATING EXCEPTION ADDRESS
003150 001401 BEQ .+4 :BRANCH IF OK
003152 104000 HLT :FEA NOT EQUAL TO FPI23

003154 022767 000000 175620 CMP #000000,ANS1 :DID 000000 GET STORED?
003162 001401 BEQ .+4 :BRANCH IF OK
003164 104001 HLT+1 :ANS1 NOT EQUAL TO 000000

003166 022767 000005 175610 CMP #5, ANS2 :CONDITION CODES = 5?
003174 001401 BEQ .+4 :BRANCH IF OK
003176 104002 HLT+2 :WRONG CONDITION CODES!

```

```

:*****
:TEST 24: TEST STCFI (STORE-CONVERT FLOATING TO INTEGER)
: STORE 144000,000377 --> 100000
: FPS = 047410, AC = ACC, DST = M6-R7
:*****

```

```

003200 104400 SCOPE
003202 000402 BR TST24

003204 144000 000377 DAT24: 144000,000377

003210 170127 047400 TST24: LDFPS #047400 :LOAD FLOATING POINT STATUS
003214 172467 177764 LDF DAT24, ACC :LOAD 144000,000377 INTO ACC
003220 175467 175556 FPI24: STCFI ACC, ANS1 :STORE-CONVERT ACC IN ANS1
003224 013767 177776 MOV #FPS, ANS2 :GET CPU STATUS
003232 042767 177760 BIC #177760,ANS2 :SAVE CONDITION CODES
003240 170200 STFPS FPS :STORE FLOATING POINT STATUS
003242 022700 047410 CMP #047410.FPS :CHECK FLOATING POINT STATUS
003246 001401 BEQ .+4 :BRANCH IF OK
003250 104000 HLT :FPS NOT EQUAL TO 047410

003252 022767 100000 175522 CMP #100000,ANS1 :DID 100000 GET STORED?
003260 001401 BEQ .+4 :BRANCH IF OK
003262 104001 HLT+1 :ANS1 NOT EQUAL TO 100000

003264 022767 000010 175512 CMP #10, ANS2 :CONDITION CODES = 10?
003272 001401 BEQ .+4 :BRANCH IF OK
003274 104002 HLT+2 :WRONG CONDITION CODES!

```

```

:*****
:TEST 25: TEST STCFI (STORE-CONVERT FLOATING TO INTEGER)
: STORE 144000,000400 --> 000000
: FPS = 147405, AC = ACC, DST = M6-R7
:*****

```

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: FEC = 6, FEA = FPI25
:*****

0033276	104400			SCOPE			
0033300	000402			BR	TST25		
0033302	144000	000400		DATA25:	144000,000400		
0033306	170127	047400		TST25:	LOFPS #047400	:LOAD FLOATING POINT STATUS	
0033312	172767	177764		LOF	DATA25, AC3	:LOAD 144000,000400 INTO AC3	
0033316	175767	175460		FPI25:	STCFI AC3, ANS1	:STORE-CONVERT AC3 IN ANS1	
0033322	013767	177776	175454	MOV	#FPS, ANS2	:GET CPU STATUS	
0033330	042767	177760	175446	BIC	#177760, ANS2	:SAVE CONDITION CODES	
0033336	170200			STFPS	FPS	:STORE FLOATING POINT STATUS	
0033340	170367	175456		STST	FEC	:STORE EXCEPTION CODES	
0033344	022700	147405		CMP	#147405, FPS	:CHECK FLOATING POINT STATUS	
0033350	001401			BEG	.+4	:BRANCH IF OK	
0033352	104000			HLT		:FPS NOT EQUAL TO 147405	
0033354	022767	000006	175440	CMP	#6, FEC	:CHECK FLOATING EXCEPTION CODE	
0033362	001401			BEG	.+4	:BRANCH IF OK	
0033364	104000			HLT		:FEC NOT EQUAL TO 6	
0033366	022767	003316	175430	CMP	#FPI25, FEA	:CHECK FLOATING EXCEPTION ADDRESS	
0033374	001401			BEG	.+4	:BRANCH IF OK	
0033376	104000			HLT		:FEA NOT EQUAL TO FPI25	
003400	022767	000000	175374	CMP	#000000, ANS1	:DID 000000 GET STORED?	
003406	001401			BEG	.+4	:BRANCH IF OK	
003410	104001			HLT+1		:ANS1 NOT EQUAL TO 000000	
003412	022767	000005	175364	CMP	#5, ANS2	:CONDITION CODES = 5?	
003420	001401			BEG	.+4	:BRANCH IF OK	
003422	104002			HLT+2		:WRONG CONDITION CODES!	

:*****
:TEST 26: TEST STCFI (STORE-CONVERT FLOATING TO INTEGER)
: STORE 100000,000000 --> 000000
: FPS = 047404, AC = AC3, DST = M6-R7
:*****

003424	104400			SCOPE			
003426	000402			BR	TST26		
003430	100000	000000		DATA26:	100000,000000		
003434	170127	040000		TST26:	LOFPS #040000	:LOAD FLOATING POINT STATUS	
003440	172767	177764		LOF	DATA26, AC3	:LOAD 100000,000000 INTO AC3	
003444	170127	047400		LOFPS	#047400	:LOAD FLOATING POINT STATUS	
003450	175767	175326		STCFI	AC3, ANS1	:STORE-CONVERT AC3 IN ANS1	
003454	013767	177776	175322	MOV	#FPS, ANS2	:GET CPU STATUS	
003462	042767	177760	175314	BIC	#177760, ANS2	:SAVE CONDITION CODES	
003470	170200			STFPS	FPS	:STORE FLOATING POINT STATUS	
003472	022700	047404		CMP	#047404, FPS	:CHECK FLOATING POINT STATUS	
003476	001401			BEG	.+4	:BRANCH IF OK	

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003500	104000			HLT			:FPS NOT EQUAL TO 047404
003502	022767	000000	175272	CMP	#000000,ANS1		:DID 000000 GET STORED?
003510	001401			BEQ	.+4		:BRANCH IF OK
003512	104001			HLT+1			:ANS1 NOT EQUAL TO 000000
003514	022767	000004	175262	CMP	#4, ANS2		:CONDITION CODES = 4?
003522	001401			BEQ	.+4		:BRANCH IF OK
003524	104002			HLT+2			:WRONG CONDITION CODES!

```

*****
:TEST 27:      TEST STCFI (STORE-CONVERT FLOATING TO INTEGER)
:      STORE  177777,177777 --> 000000
:      FPS = 147405, AC = AC0, DST = MO-R1
:      FEC = 6,   FEA = FPI27
*****

```

```

003526 104400          SCOPE
003530 000402          BR      TST27

003532 177777 177777  DAT27: 177777,177777

003536 170127 047400  TST27: LDFPS #047400 ;LOAD FLOATING POINT STATUS
003542 172467 177764  LDF   DAT27, AC0 ;LOAD 177777,177777 INTO AC0
003546 175401          FPI27: STCFI AC0, R1 ;STORE-CONVERT AC0 IN R1
003550 013767 177776 175226 MOV  2*PS, ANS2 ;GET CPU STATUS
003556 042767 177760 175220 BIC  #177760,ANS2 ;SAVE CONDITION CODES
003564 010167 175212 MOV  R1, ANS1 ;SAVE R1
003570 170200          STFPS FPS ;STORE FLOATING POINT STATUS
003572 170367 175224 STST  FEC ;STORE EXCEPTION CODES
003576 022700 147405 CMP  #147405,FPS ;CHECK FLOATING POINT STATUS
003602 001401 BEQ  .+4 ;BRANCH IF OK
003604 104000 HLT ;FPS NOT EQUAL TO 147405

003606 022767 000006 175206 CMP  #6, FEC ;CHECK FLOATING EXCEPTION CODE
003614 001401 BEQ  .+4 ;BRANCH IF OK
003616 104000 HLT ;FEC NOT EQUAL TO 6

003620 022767 003546 175176 CMP  #FPI27, FEA ;CHECK FLOATING EXCEPTION ADDRESS
003626 001401 BEQ  .+4 ;BRANCH IF OK
003630 104000 HLT ;FEA NOT EQUAL TO FPI27

003632 022767 000000 175142 CMP  #000000,ANS1 ;DID 000000 GET STORED?
003640 001401 BEQ  .+4 ;BRANCH IF OK
003642 104001 HLT+1 ;ANS1 NOT EQUAL TO 000000

003644 022767 000005 175132 CMP  #5, ANS2 ;CONDITION CODES = 5?
003652 001401 BEQ  .+4 ;BRANCH IF OK
003654 104002 HLT+2 ;WRONG CONDITION CODES!

```

```

*****
:TEST 30:      TEST STCFI (STORE-CONVERT FLOATING TO INTEGER)
:      STORE  000200,000000 --> 000000
:      FPS = 047404, AC = AC2, DST = M2-R7
*****

```

```

003656 104400          SCOPE
003660 000402          BR      TST30

003662 000200 000000  DAT30: 000200,000000

003666 170127 047400  TST30: LDFPS #047400 ;LOAD FLOATING POINT STATUS
003672 172667 177764  LDF   DAT30, AC2 ;LOAD 000200,000000 INTO AC2
003676 175627          STCFI AC2, (PC)+ ;STORE-CONVERT AC2 IN NEXT LOC

```



```

003700 000000          ANR30: 0
003702 000402          BR      .+6          ;SKIP HALTS
003704 000000          HALT          ;PC FAILURE
003706 000000          HALT
003710 013767 177776 175066  MOV     @#PS, ANS2      ;GET CPU STATUS
003716 042767 177760 175060  BIC     #177760,ANS2   ;SAVE CONDITION CODES
003724 016767 177750 175050  MOV     ANR30, ANS1    ;SAVE THE ANSWER
003732 170200          STFPS  FPS            ;STORE FLOATING POINT STATUS
003734 022700 047404  CMP     #047404,FPS    ;CHECK FLOATING POINT STATUS
003740 001401          BEQ     .+4          ;BRANCH IF OK
003742 104000          HLT          ;FPS NOT EQUAL TO 047404

003744 022767 000000 175030  CMP     #000000,ANS1   ;DID 000000 GET STORED?
003752 001401          BEQ     .+4          ;BRANCH IF OK
003754 104001          HLT+1        ;ANS1 NOT EQUAL TO 000000

003756 022767 000004 175020  CMP     #4, ANS2       ;CONDITION CODES = 4?
003764 001401          BEQ     .+4          ;BRANCH IF OK
003766 104002          HLT+2        ;WRONG CONDITION CODES!

```

```

*****
:TEST 31:      TEST STCFI (STORE-CONVERT FLOATING TO INTEGER)
:      STORE 100177,177777 --> 000000
:      FPS = 047404, AC = AC1, DST = M6-R7
*****

```

```

003770 104400          SCOPE
003772 000402          BR      TST31

003774 100177 177777  DAT31: 100177,177777

004000 170127 040000  TST31: LDFPS  #040000      ;LOAD FLOATING POINT STATUS
004004 172567 177764  LDF   DAT31, AC1      ;LOAD 100177,177777 INTO AC1
004010 170127 047400  LDFPS #047400      ;LOAD FLOATING POINT STATUS
004014 175567 174762  STCFI AC1, ANS1      ;STORE-CONVERT AC1 IN ANS1
004020 013767 177776 174756  MOV     @#PS, ANS2    ;GET CPU STATUS
004026 042767 177760 174750  BIC     #177760,ANS2  ;SAVE CONDITION CODES
004034 170200          STFPS  FPS            ;STORE FLOATING POINT STATUS
004036 022700 047404  CMP     #047404,FPS    ;CHECK FLOATING POINT STATUS
004042 001401          BEQ     .+4          ;BRANCH IF OK
004044 104000          HLT          ;FPS NOT EQUAL TO 047404

004046 022767 000000 174726  CMP     #000000,ANS1   ;DID 000000 GET STORED?
004054 001401          BEQ     .+4          ;BRANCH IF OK
004056 104001          HLT+1        ;ANS1 NOT EQUAL TO 000000

004060 022767 000004 174716  CMP     #4, ANS2       ;CONDITION CODES = 4?
004066 001401          BEQ     .+4          ;BRANCH IF OK
004070 104002          HLT+2        ;WRONG CONDITION CODES!

```

```

*****
:TEST 32:      TEST LDCID (LOAD-CONVERT INTEGER TO DOUBLE)
:      LOAD 000000 --> 000000,000000,000000,000000
:      FPS = 047604, SRC = M2-R7, AC = AC0
*****

```

004072	104400			TST32:	SCOPE			
004074	170127	047600			LDFPS	#047600		:LOAD FLOATING POINT STATUS
004100	177027	000000			LDCID	#000000,ACO		:LOAD-CONVERT 000000 INTO ACO
004104	170200				STFPS	FPS		:STORE FLOATING POINT STATUS
004106	022700	047604			CMP	#047604,FPS		:CHECK FLOATING POINT STATUS
004112	001401				BEQ	.+4		:BRANCH IF OK
004114	104000				HLT			:FPS NOT EQUAL TO 047604
004116	174067	174660			STD	ACO, ANS1		:STORE ACO IN ANS1 THRU ANS4
004122	022767	000000	174652		CMP	#000000,ANS1		:DID 000000 GET STORED?
004130	001401				BEQ	.+4		:BRANCH IF OK
004132	104004				HLT+4			:ANS1 NOT EQUAL TO 000000
004134	022767	000000	174642		CMP	#000000,ANS2		:DID 000000 GET STORED?
004142	001401				BEQ	.+4		:BRANCH IF OK
004144	104004				HLT+4			:ANS2 NOT EQUAL TO 000000
004146	022767	000000	174632		CMP	#000000,ANS3		:DID 000000 GET STORED?
004154	001401				BEQ	.+4		:BRANCH IF OK
004156	104004				HLT+4			:ANS3 NOT EQUAL TO 000000
004160	022767	000000	174622		CMP	#000000,ANS4		:DID 000000 GET STORED?
004166	001401				BEQ	.+4		:BRANCH IF OK
004170	104004				HLT+4			:ANS4 NOT EQUAL TO 000000

:TEST 33: TEST LDCID (LOAD-CONVERT INTEGER TO DOUBLE)
:LOAD 125252 --> 143652,126000,000000,000000
:FPS = 047610, SRC = M2-R7, AC = ACO

004172	104400			TST33:	SCOPE			
004174	170127	047600			LDFPS	#047600		:LOAD FLOATING POINT STATUS
004200	177027	125252			LDCID	#125252,ACO		:LOAD-CONVERT 125252 INTO ACO
004204	170200				STFPS	FPS		:STORE FLOATING POINT STATUS
004206	022700	047610			CMP	#047610,FPS		:CHECK FLOATING POINT STATUS
004212	001401				BEQ	.+4		:BRANCH IF OK
004214	104000				HLT			:FPS NOT EQUAL TO 047610
004216	174067	174560			STD	ACO, ANS1		:STORE ACO IN ANS1 THRU ANS4
004222	022767	143652	174552		CMP	#143652,ANS1		:DID 143652 GET STORED?
004230	001401				BEQ	.+4		:BRANCH IF OK
004232	104004				HLT+4			:ANS1 NOT EQUAL TO 143652
004234	022767	126000	174542		CMP	#126000,ANS2		:DID 126000 GET STORED?
004242	001401				BEQ	.+4		:BRANCH IF OK
004244	104004				HLT+4			:ANS2 NOT EQUAL TO 126000
004246	022767	000000	174532		CMP	#000000,ANS3		:DID 000000 GET STORED?
004254	001401				BEQ	.+4		:BRANCH IF OK
004256	104004				HLT+4			:ANS3 NOT EQUAL TO 000000
004260	022767	000000	174522		CMP	#000000,ANS4		:DID 000000 GET STORED?

004266 001401
004270 104004

BEQ .+4
HLT+4

;BRANCH IF OK
;ANS4 NOT EQUAL TO 000000

:TEST 34: TEST LDCID (LOAD-CONVERT INTEGER TO DOUBLE)
: LOAD 052525 --> 043652,125000,000000,000000
: FPS = 047600, SRC = M2-R7, AC = AC3
:*****

004272 104400
004274 170127 047600
004300 177327 052525
004304 170200
004306 022700 047600
004312 001401
004314 104000

TST34: SCOPE
LDFPS #047600 ;LOAD FLOATING POINT STATUS
LDCID #052525,AC3 ;LOAD-CONVERT 052525 INTO AC3
STFPS FPS ;STORE FLOATING POINT STATUS
CMP #047600,FPS ;CHECK FLOATING POINT STATUS
BEQ .+4 ;BRANCH IF OK
HLT ;FPS NOT EQUAL TO 047600

004316 174367 174460
004322 022767 043652 174452
004330 001401
004332 104004

STD AC3, ANS1 ;STORE AC3 IN ANS1 THRU ANS4
CMP #043652,ANS1 ;DID 043652 GET STORED?
BEQ .+4 ;BRANCH IF OK
HLT+4 ;ANS1 NOT EQUAL TO 043652

004334 022767 125000 174442
004342 001401
004344 104004

CMP #125000,ANS2 ;DID 125000 GET STORED?
BEQ .+4 ;BRANCH IF OK
HLT+4 ;ANS2 NOT EQUAL TO 125000

004346 022767 000000 174432
004354 001401
004356 104004

CMP #000000,ANS3 ;DID 000000 GET STORED?
BEQ .+4 ;BRANCH IF OK
HLT+4 ;ANS3 NOT EQUAL TO 000000

004360 022767 000000 174422
004368 001401
004370 104004

CMP #000000,ANS4 ;DID 000000 GET STORED?
BEQ .+4 ;BRANCH IF OK
HLT+4 ;ANS4 NOT EQUAL TO 000000

:TEST 35: TEST LDCID (LOAD-CONVERT INTEGER TO DOUBLE)
: LOAD 000001 --> 040200,000000,000000,000000
: FPS = 047600, SRC = M2-R7, AC = AC1
:*****

004372 104400
004374 170127 047600
004400 177127 000001
004404 170200
004406 022700 047600
004412 001401
004414 104000

TST35: SCOPE
LDFPS #047600 ;LOAD FLOATING POINT STATUS
LDCID #000001,AC1 ;LOAD-CONVERT 000001 INTO AC1
STFPS FPS ;STORE FLOATING POINT STATUS
CMP #047600,FPS ;CHECK FLOATING POINT STATUS
BEQ .+4 ;BRANCH IF OK
HLT ;FPS NOT EQUAL TO 047600

004416 174167 174360
004422 022767 040200 174352
004430 001401
004432 104004

STD AC1, ANS1 ;STORE AC1 IN ANS1 THRU ANS4
CMP #040200,ANS1 ;DID 040200 GET STORED?
BEQ .+4 ;BRANCH IF OK
HLT+4 ;ANS1 NOT EQUAL TO 040200

004434 022767 000000 174342

CMP #000000,ANS2 ;DID 000000 GET STORED?

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```

004440 001401      BEQ      .+4      :BRANCH IF OK
004444 104004      HL,+4      :ANS2 NOT EQUAL TO 000000

004446 022767 000000 174322  CMP      #000000,ANS3 :DID 000000 GET STORED?
004450 001401      BEQ      .+4      :BRANCH IF OK
004456 104004      HL,+4      :ANS3 NOT EQUAL TO 000000

004458 022767 000000 174322  CMP      #000000,ANS4 :DID 000000 GET STORED?
004462 001401      BEQ      .+4      :BRANCH IF OK
004466 104004      HL,+4      :ANS4 NOT EQUAL TO 000000

```

```

*****
TEST 36:      TEST LDCID (LOAD-CONVERT INTEGER TO DOUBLE)
LOAD         177777 --> 140200 000000 000000 000000
FPS = 047610, SRC = M2-A7, AC = AC1
*****

```

```

004472 104400      SCOPE
004474 170127 047600  *ST36:  LDFPS      #047600      :LOAD FLOATING POINT STATUS
004480 177127 177777  LDCID      #177777,AC1    :LOAD-CONVERT 177777 INTO AC1
004484 170200  STFPS      FPS          :STORE FLOATING POINT STATUS
004488 022700 047610  CMP      #047610,FPS     :CHECK FLOATING POINT STATUS
004492 001401      BEQ      .+4      :BRANCH IF OK
004496 104000      HL,+4      :FPS NOT EQUAL TO 047610

004516 174167 174260      STD      AC1,ANS1      :STORE AC1 IN ANS1 THRU ANS4
004522 022767 140200 174252  CMP      #140200,ANS1   :DID 140200 GET STORED?
004530 001401      BEQ      .+4      :BRANCH IF OK
004532 104004      HL,+4      :ANS1 NOT EQUAL TO 140200

004534 022767 000000 174242  CMP      #000000,ANS2   :DID 000000 GET STORED?
004540 001401      BEQ      .+4      :BRANCH IF OK
004544 104004      HL,+4      :ANS2 NOT EQUAL TO 000000

004546 022767 000000 174232  CMP      #000000,ANS3   :DID 000000 GET STORED?
004552 001401      BEQ      .+4      :BRANCH IF OK
004556 104004      HL,+4      :ANS3 NOT EQUAL TO 000000

004558 022767 000000 174222  CMP      #000000,ANS4   :DID 000000 GET STORED?
004564 001401      BEQ      .+4      :BRANCH IF OK
004568 104004      HL,+4      :ANS4 NOT EQUAL TO 000000

```

```

*****
TEST 37:      TEST LDCID (LOAD-CONVERT INTEGER TO DOUBLE)
LOAD         100000 --> 144000 000000 000000 000000
FPS = 047610, SRC = M2-A7, AC = AC1
*****

```

```

004572 104400      SCOPE
004574 170127 047600  *ST37:  LDFPS      #047600      :LOAD FLOATING POINT STATUS
004580 177127 100000  LDCID      #100000,AC1   :LOAD-CONVERT 100000 INTO AC1
004584 170200  STFPS      FPS          :STORE FLOATING POINT STATUS
004588 022700 047610  CMP      #047610,FPS     :CHECK FLOATING POINT STATUS
004592 001401      BEQ      .+4      :BRANCH IF OK

```

004614	104000			HLT			:FPS NOT EQUAL TO 047610
004616	174167	174160		STD	AC1	ANS1	:STORE AC1 IN ANS1 THRU ANS4
004622	022767	144000	174152	CMP	#144000	ANS1	:DID 144000 GET STORED?
004630	001401			BEG	..+4		:BRANCH IF OK
004632	104004			HLT	..+4		:ANS1 NOT EQUAL TO 144000
004634	022767	000000	174142	CMP	#000000	ANS2	:DID 000000 GET STORED?
004642	001401			BEG	..+4		:BRANCH IF OK
004644	104004			HLT	..+4		:ANS2 NOT EQUAL TO 000000
004646	022767	000000	174132	CMP	#000000	ANS3	:DID 000000 GET STORED?
004654	001401			BEG	..+4		:BRANCH IF OK
004656	104004			HLT	..+4		:ANS3 NOT EQUAL TO 000000
004660	022767	000000	174122	CMP	#000000	ANS4	:DID 000000 GET STORED?
004666	001401			BEG	..+4		:BRANCH IF OK
004670	104004			HLT	..+4		:ANS4 NOT EQUAL TO 000000

 :TEST 40: TEST LDCID (LOAD-CONVERT INTEGER TO DOUBLE)
 :LOAD 077777 --> 043777,177000,000000,000000
 :FPS = 047600, SRC = MC-R3, AC = AC2

004672	104400			SCOPE			
004674	170127	047600		LDFPS	#047600		:LOAD FLOATING POINT STATUS
004700	012703	077777		MOV	#077777	R3	:LOAD 077777 INTO R3
004704	177203			LDCID	R3	AC2	:LOAD-CONVERT 077777 INTO AC2
004706	170200			STFPS	FPS		:STORE FLOATING POINT STATUS
004710	022700	047600		CMP	#047600	FPS	:CHECK FLOATING POINT STATUS
004714	001401			BEG	..+4		:BRANCH IF OK
004716	104000			HLT			:FPS NOT EQUAL TO 047600
004720	174267	174056		STD	AC2	ANS1	:STORE AC2 IN ANS1 THRU ANS4
004724	022767	043777	174050	CMP	#043777	ANS1	:DID 043777 GET STORED?
004732	001401			BEG	..+4		:BRANCH IF OK
004734	104004			HLT	..+4		:ANS1 NOT EQUAL TO 043777
004736	022767	177000	174040	CMP	#177000	ANS2	:DID 177000 GET STORED?
004744	001401			BEG	..+4		:BRANCH IF OK
004746	104004			HLT	..+4		:ANS2 NOT EQUAL TO 177000
004750	022767	000000	174030	CMP	#000000	ANS3	:DID 000000 GET STORED?
004756	001401			BEG	..+4		:BRANCH IF OK
004760	104004			HLT	..+4		:ANS3 NOT EQUAL TO 000000
004762	022767	000000	174020	CMP	#000000	ANS4	:DID 000000 GET STORED?
004770	001401			BEG	..+4		:BRANCH IF OK
004772	104004			HLT	..+4		:ANS4 NOT EQUAL TO 000000

 :TEST 41: TEST LDCID (LOAD-CONVERT INTEGER TO DOUBLE)
 :LOAD 000125 --> 041652,000000,000000,000000

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: FPS = 047600, SRC = M6-P7, AC = AC1
:*****

004774	104400			SCOPE			
004776	000401			BR	TST41		
005000	000125			DATA1:	000125		
005002	170127	047600		TST41:	LDFPS	#047600	:LOAD FLOATING POINT STATUS
005006	177167	177766			LDCID	DATA1, AC1	:LOAD-CONVERT 000125 INTO AC1
005012	170200				STFPS	FPS	:STORE FLOATING POINT STATUS
005014	022700	047600			CMP	#047600,FPS	:CHECK FLOATING POINT STATUS
005020	001401				BEQ	.+4	:BRANCH IF OK
005022	104000				HLT		:FPS NOT EQUAL TO 047600
005024	174167	173752		STC	AC1	ANS1	:STORE AC1 IN ANS1 THRU ANS4
005030	022767	041652	173744	CMP	#041652,ANS1		:DID 041652 GET STORED?
005036	001401			BEQ	.+4		:BRANCH IF OK
005040	104004			HLT			:ANS1 NOT EQUAL TO 041652
005042	022767	000000	173734	CMP	#000000,ANS2		:DID 000000 GET STORED?
005050	001401			BEQ	.+4		:BRANCH IF OK
005052	104004			HLT			:ANS2 NOT EQUAL TO 000000
005054	022767	000000	173724	CMP	#000000,ANS3		:DID 000000 GET STORED?
005062	001401			BEQ	.+4		:BRANCH IF OK
005064	104004			HLT			:ANS3 NOT EQUAL TO 000000
005066	022767	000000	173714	CMP	#000000,ANS4		:DID 000000 GET STORED?
005074	001401			BEQ	.+4		:BRANCH IF OK
005076	104004			HLT			:ANS4 NOT EQUAL TO 000000

:*****
:TEST 42: TEST LDCID (LOAD-CONVERT INTEGER TO DOUBLE).
:LOAD 070707 --> 043743, 107000, 000000, 000000
:FPS = 047600, SRC = M2-P7, AC = AC1
:*****

005100	104400			SCOPE			
005102	170127	047600		TST42:	LDFPS	#047600	:LOAD FLOATING POINT STATUS
005106	177127	070707			LDCID	#070707,AC1	:LOAD-CONVERT 070707 INTO AC1
005112	170200				STFPS	FPS	:STORE FLOATING POINT STATUS
005114	022700	047600			CMP	#047600,FPS	:CHECK FLOATING POINT STATUS
005120	001401				BEQ	.+4	:BRANCH IF OK
005122	104000				HLT		:FPS NOT EQUAL TO 047600
005124	174167	173652		STC	AC1	ANS1	:STORE AC1 IN ANS1 THRU ANS4
005130	022767	043743	173644	CMP	#043743,ANS1		:DID 043743 GET STORED?
005136	001401			BEQ	.+4		:BRANCH IF OK
005140	104004			HLT			:ANS1 NOT EQUAL TO 043743
005142	022767	107000	173634	CMP	#107000,ANS2		:DID 107000 GET STORED?
005150	001401			BEQ	.+4		:BRANCH IF OK
005152	104004			HLT			:ANS2 NOT EQUAL TO 107000

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005154	022767	000000	173624	CMP	#000000,ANS3	:DID 000000 GET STORED?
005162	001401			BEG	.+4	:BRANCH IF OK
005164	104004			HLT+4		:ANS3 NOT EQUAL TO 000000
005166	022767	000000	173614	CMP	#000000,ANS4	:DID 000000 GET STORED?
005174	001401			BEG	.+4	:BRANCH IF OK
005176	104004			HLT+4		:ANS4 NOT EQUAL TO 000000

```

*****
TEST 43: TEST LDCID (LOAD-CONVERT INTEGER TO DOUBLE)
LOAD 107070 --> 143743,110000,000000,000000
FPS = 047610, SRC = M2-R7, AC = ACC
*****

```

005200	104400			SCOPE		
005202	170127	047600		LDFPS	#047600	:LOAD FLOATING POINT STATUS
005206	177327	107070		LDCID	#107070,ACC	:LOAD-CONVERT 107070 INTO ACC
005212	170200			STFPS	FPS	:STORE FLOATING POINT STATUS
005214	022700	047610		CMP	#047610,FPS	:CHECK FLOATING POINT STATUS
005220	001401			BEG	.+4	:BRANCH IF OK
005222	104000			HLT		:FPS NOT EQUAL TO 047610
005224	174067	173552		STD	ACC, ANS1	:STORE ACC IN ANS1 THRU ANS4
005230	022767	143743	173544	CMP	#143743,ANS1	:DID 143743 GET STORED?
005236	001401			BEG	.+4	:BRANCH IF OK
005240	104004			HLT+4		:ANS1 NOT EQUAL TO 143743
005242	022767	110000	173534	CMP	#110000,ANS2	:DID 110000 GET STORED?
005250	001401			BEG	.+4	:BRANCH IF OK
005252	104004			HLT+4		:ANS2 NOT EQUAL TO 110000
005254	022767	000000	173524	CMP	#000000,ANS3	:DID 000000 GET STORED?
005262	001401			BEG	.+4	:BRANCH IF OK
005264	104004			HLT+4		:ANS3 NOT EQUAL TO 000000
005266	022767	000000	173514	CMP	#000000,ANS4	:DID 000000 GET STORED?
005274	001401			BEG	.+4	:BRANCH IF OK
005276	104004			HLT+4		:ANS4 NOT EQUAL TO 000000

```

*****
TEST 44: TEST STCDI (STORE-CONVERT DOUBLE TO INTEGER)
STORE 000000,000000,000000,000000 --> 000000
FPS = 047604, AC = ACC, DST = M6-R7
*****

```

005300	104400			SCOPE		
005302	000404			BR	TST44	
005304	000500	000000	000000	ST44:	000000,000000,000000,000000	
005312	000000					
005314	170127	047600		TST44:	LDFPS #047600	:LOAD FLOATING POINT STATUS
005320	177327	177070		LDC	ST44, ACC	:LOAD 000000,000000,000000,000000 INTO ACC
005324	175767	173452		ST44:	STCDI ACC, ANS1	:STORE-CONVERT ACC IN ANS1

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TEST OF LOGJX, STCXJ
TEST SECTION

005330	013767	177776	173446	MOV	#0PS, ANS2	:GET CPU STATUS
005336	042767	177760	173440	BIC	#177760,ANS2	:SAVE CONDITION CODES
005344	170200			STFPS	FPS	:STORE FLOATING POINT STATUS
005346	022700	047604		CMP	#047604,FPS	:CHECK FLOATING POINT STATUS
005352	001401			BEG	.+4	:BRANCH IF OK
005354	104000			HLT		:FPS NOT EQUAL TO 047604
005356	022767	000000	173416	CMP	#000000,ANS1	:DID 000000 GET STORED?
005364	001401			BEG	.+4	:BRANCH IF OK
005366	104001			HLT+1		:ANS1 NOT EQUAL TO 000000
005370	022767	000004	173406	CMP	#4, ANS2	:CONDITION CODES = 4?
005376	001401			BEG	.+4	:BRANCH IF OK
005400	104002			HLT+2		:WRONG CONDITION CODES!

```

*****
:TEST 45:      TEST STCDI (STORE-CONVERT DOUBLE TO INTEGER)
:              STORE  041252,125252,125252,125252 --> 000025
:              FPS = 047600, AC = AC3, DST = M6-R7
*****

```

005402	104400			SCOPE		
005404	000404			BR	TS*45	
005406	041252	125252	125252	DAT*45:	041252,125252,125252,125252	
005414	125252					
005416	170127	047600		TS*45:	LDFPS	#047600
005422	172767	177760			LDD	DAT*45, AC3
005426	175767	173350		FP*45:	STCDI	AC3, ANS1
005432	013767	177776	173344		MOV	#0PS, ANS2
005440	042767	177760	173336		BIC	#177760,ANS2
005446	170200				STFPS	FPS
005450	022700	047600			CMP	#047600,FPS
005454	001401				BEG	.+4
005456	104000				HLT	
005460	022767	000025	173314	CMP	#000025,ANS1	:DID 000025 GET STORED?
005466	001401			BEG	.+4	:BRANCH IF OK
005470	104001			HLT+1		:ANS1 NOT EQUAL TO 000025
005472	022767	000000	173304	CMP	#0, ANS2	:CONDITION CODES = 0?
005500	001401			BEG	.+4	:BRANCH IF OK
005502	104002			HLT+2		:WRONG CONDITION CODES!

```

*****
:TEST 46:      TEST STCDI (STORE-CONVERT DOUBLE TO INTEGER)
:              STORE  141252,125252,125252,125252 --> 177753
:              FPS = 047610, AC = AC2, DST = M6-R7
*****

```

005504	104400			SCOPE		
005506	000406			BR	TS*46	

005510 141252 125252 125252 DAT46: 141252,125252,125252,125252
005516 125252

005520 170127 047600 TST46: LDFPS #047600 :LOAD FLOATING POINT STATUS
005524 172667 177760 LDD DAT46, AC2 :LOAD 141252,125252,125252,125252 INTO AC2
005530 175667 173246 FPI46: STCDI AC2, ANS1 :STORE-CONVERT AC2 IN ANS1
005534 013767 177776 173242 MOV #PS, ANS2 :GET CPU STATUS
005542 042767 177760 173234 BIC #177760,ANS2 :SAVE CONDITION CODES
005550 170200 STFPS FPS :STORE FLOATING POINT STATUS
005552 022700 047610 CMP #047610,FPS :CHECK FLOATING POINT STATUS
005556 001401 BEQ .+4 :BRANCH IF OK
005560 104000 HLT :FPS NOT EQUAL TO 047610

005562 022767 177753 173212 CMP #177753,ANS1 :DID 177753 GET STORED?
005570 001401 BEQ .+4 :BRANCH IF OK
005572 104001 HLT+1 :ANS1 NOT EQUAL TO 177753

005574 022767 000010 173202 CMP #10, ANS2 :CONDITION CODES = 10?
005582 001401 BEQ .+4 :BRANCH IF OK
005584 104002 HLT+2 :WRONG CONDITION CODES!

:TEST 47: TEST STCDI (STORE-CONVERT DOUBLE TO INTEGER)
: STORE 040177,177777,177777,177777 --> 000000
: FPS = 047604, AC = AC1, DST = M6-R7
:*****

005606 104400 SCOPE
005610 000404 BR TST47

005612 040177 177777 177777 DAT47: 040177,177777,177777,177777
005620 177777

005622 170127 047600 TST47: LDFPS #047600 :LOAD FLOATING POINT STATUS
005626 172567 177760 LDD DAT47, AC1 :LOAD 040177,177777,177777,177777 INTO AC1
005632 175567 173144 FPI47: STCDI AC1, ANS1 :STORE-CONVERT AC1 IN ANS1
005636 013767 177776 173140 MOV #PS, ANS2 :GET CPU STATUS
005644 042767 177760 173132 BIC #177760,ANS2 :SAVE CONDITION CODES
005652 170200 STFPS FPS :STORE FLOATING POINT STATUS
005654 022700 047604 CMP #047604,FPS :CHECK FLOATING POINT STATUS
005658 001401 BEQ .+4 :BRANCH IF OK
005662 104000 HLT :FPS NOT EQUAL TO 047604

005664 022767 000000 173110 CMP #000000,ANS1 :DID 000000 GET STORED?
005672 001401 BEQ .+4 :BRANCH IF OK
005674 104001 HLT+1 :ANS1 NOT EQUAL TO 000000

005676 022767 000004 173100 CMP #4, ANS2 :CONDITION CODES = 4?
005684 001401 BEQ .+4 :BRANCH IF OK
005686 104002 HLT+2 :WRONG CONDITION CODES!

:TEST 50: TEST STCDI (STORE-CONVERT DOUBLE TO INTEGER)
: STORE 140177,177777,177777,177777 --> 000000
:*****

: FPS = 047604, AC = AC0, DST = M6-P7
:*****

```

005710 104400
005712 000404          SCOPE
                          BR      TST50

005714 140177 177777 177777 DAT50: 140177,177777,177777,177777
005722 177777

005724 170127 047600 TST50: LDFPS #047600 ;LOAD FLOATING POINT STATUS
005730 172467 177760 LDD DAT50, AC0 ;LOAD 140177,177777,177777,177777 INTO AC0
005734 175467 173042 FPIS0: STCDI AC0, ANS1 ;STORE-CONVERT AC0 IN ANS1
005740 013767 177776 173036 MOV #FPS, ANS2 ;GET CPU STATUS
005746 042767 177760 173030 BIC #177760,ANS2 ;SAVE CONDITION CODES
005754 170200 STFPS FPS ;STORE FLOATING POINT STATUS
005756 022700 047604 CMP #047604,FPS ;CHECK FLOATING POINT STATUS
005762 001401 BEQ .+4 ;BRANCH IF OK
005764 104000 HLT ;FPS NOT EQUAL TO 047604

005766 022767 000000 173006 CMP #000000,ANS1 ;DID 000000 GET STORED?
005774 001401 BEQ .+4 ;BRANCH IF OK
005776 104001 HLT+1 ;ANS1 NOT EQUAL TO 000000

006000 022767 000004 172776 CMP #4, ANS2 ;CONDITION CODES = 4?
006006 001401 BEQ .+4 ;BRANCH IF OK
006010 104002 HLT+2 ;WRONG CONDITION CODES!

```

:*****
:TEST S1: TEST STCDI (STORE-CONVERT DOUBLE TO INTEGER)
: STORE 040200,000000,000000,000001 --> 000001
: FPS = 047600, AC = AC3, DST = M6-P7
:*****

```

006012 104400
006014 000404          SCOPE
                          BR      TST51

006016 040200 000000 000000 DAT51: 040200,000000,000000,000001
006024 000001

006026 170127 047600 TST51: LDFPS #047600 ;LOAD FLOATING POINT STATUS
006032 172767 177760 LDD DAT51, AC3 ;LOAD 040200,000000,000000,000001 INTO AC3
006036 175767 172740 FPIS1: STCDI AC3, ANS1 ;STORE-CONVERT AC3 IN ANS1
006042 013767 177776 172734 MOV #FPS, ANS2 ;GET CPU STATUS
006050 042767 177760 172726 BIC #177760,ANS2 ;SAVE CONDITION CODES
006056 170200 STFPS FPS ;STORE FLOATING POINT STATUS
006060 022700 047600 CMP #047600,FPS ;CHECK FLOATING POINT STATUS
006064 001401 BEQ .+4 ;BRANCH IF OK
006066 104000 HLT ;FPS NOT EQUAL TO 047600

006070 022767 000001 172704 CMP #000001,ANS1 ;DID 000001 GET STORED?
006076 001401 BEQ .+4 ;BRANCH IF OK
006100 104001 HLT+1 ;ANS1 NOT EQUAL TO 000001

006102 022767 000000 172674 CMP #0, ANS2 ;CONDITION CODES = 0?
006104 001401 BEQ .+4 ;BRANCH IF OK

```

006112 104002

HLT+2

:WRONG CONDITION CODES!

```

:*****
:TEST 52: TEST STCDI (STORE-CONVERT DOUBLE TO INTEGER)
:        STORE 140200,000000,000000,000001 --> 177777
:        FPS = 047610, AC = AC3, CST = M6-R7
:*****

```

006114 104400
006116 000404

SCOPE
BR TST52

006120 140200 000000 000000 DAT52: 140200,000000,000000,000001
006126 000001

```

006130 170127 047600 TST52: LDFPS #047600 :LOAD FLOATING POINT STATUS
006134 172767 177760 LDD DAT52, AC3 :LOAD 140200,000000,000000,000001 INTO AC3
006140 175767 172636 FPI52: STCDI AC3, ANS1 :STORE-CONVERT AC3 IN ANS1
006144 013767 177776 172632 MOV #FPS, ANS2 :GET CPU STATUS
006152 042767 177760 172624 BIC #177760,ANS2 :SAVE CONDITION CODES
006160 170200 STFPS FPS :STORE FLOATING POINT STATUS
006162 022700 047610 CMP #047610,FPS :CHECK FLOATING POINT STATUS
006166 001401 BEQ .+4 :BRANCH IF OK
006170 104000 HLT :FPS NOT EQUAL TO 047610

```

```

006172 022767 177777 172602 CMP #177777,ANS1 :DID 177777 GET STORED?
006200 001401 BEQ .+4 :BRANCH IF OK
006202 104001 HLT+1 :ANS1 NOT EQUAL TO 177777

```

```

006204 022767 000010 172572 CMP #10, ANS2 :CONDITION CODES = 10?
006212 001401 BEQ .+4 :BRANCH IF OK
006214 104002 HLT+2 :WRONG CONDITION CODES!

```

```

:*****
:TEST 53: TEST STCDI (STORE-CONVERT DOUBLE TO INTEGER)
:        STORE 043777,177777,177777,177777 --> 077777
:        FPS = 047600, AC = AC2, DST = M6-R7
:*****

```

006216 104400
006220 000404

SCOPE
BR TST53

006222 043777 177777 177777 DAT53: 043777,177777,177777,177777
006230 177777

```

006232 170127 047600 TST53: LDFPS #047600 :LOAD FLOATING POINT STATUS
006236 172667 177760 LDD DAT53, AC2 :LOAD 043777,177777,177777,177777 INTO AC2
006242 175667 172534 FPI53: STCDI AC2, ANS1 :STORE-CONVERT AC2 IN ANS1
006246 013767 177776 172530 MOV #FPS, ANS2 :GET CPU STATUS
006254 042767 177760 172522 BIC #177760,ANS2 :SAVE CONDITION CODES
006262 170200 STFPS FPS :STORE FLOATING POINT STATUS
006264 022700 047600 CMP #047600,FPS :CHECK FLOATING POINT STATUS
006270 001401 BEQ .+4 :BRANCH IF OK
006272 104000 HLT :FPS NOT EQUAL TO 047600

```

```

006274 022767 077777 172500      CMP      #077777,ANS1      ;DID 077777 GET STORED?
006302 001401                      BEQ      .+4              ;BRANCH IF OK
006304 104001                      HLT+1                    ;ANS1 NOT EQUAL TO 077777

006306 022767 000000 172470      CMP      #0,      ANS2      ;CONDITION CODES = 0?
006314 001401                      BEQ      .+4              ;BRANCH IF OK
006316 104002                      HLT+2                    ;WRONG CONDITION CODES!

```

```

:*****
:TEST 54:      TEST STCDI (STORE-CONVERT DOUBLE TO INTEGER)
:      STORE  044000,000000,000000,000000 --> 000000
:      FPS = 147605,  AC = AC1,      DST = M6-R7
:      FEC = 6,      FEA = FPI54
:*****

```

```

006320 104400                      SCOPE
006322 000404                      BR      TST54

006324 044000 000000 000000  DAT54: 044000,000000,000000,000000
006332 000000

006334 170127 047600      TST54: LDFPS  #047600      ;LOAD FLOATING POINT STATUS
006340 172567 177760      LDD      DAT54,  AC1      ;LOAD 044000,000000,000000,000000 INTO AC1
006344 175567 172432      FPI54: STCDI  AC1,  ANS1      ;STORE-CONVERT AC1 IN ANS1
006350 013767 177776 172426  MOV      #FPS,  ANS2      ;GET CPU STATUS
006356 042767 177760 172420  BIC      #177760,ANS2     ;SAVE CONDITION CODES
006364 170200      STFPS  FPS              ;STORE FLOATING POINT STATUS
006366 170367 172430      STST   FEC              ;STORE EXCEPTION CODES
006372 022700 147605      CMP      #147605,FPS     ;CHECK FLOATING POINT STATUS
006376 001401                      BEQ      .+4              ;BRANCH IF OK
006400 104000                      HLT                        ;FPS NOT EQUAL TO 147605

006402 022767 000006 172412      CMP      #6,      FEC      ;CHECK FLOATING EXCEPTION CODE
006410 001401                      BEQ      .+4              ;BRANCH IF OK
006412 104000                      HLT                        ;FEC NOT EQUAL TO 6

006414 022767 006344 172402      CMP      #FPI54,  FEA      ;CHECK FLOATING EXCEPTION ADDRESS
006422 001401                      BEQ      .+4              ;BRANCH IF OK
006424 104000                      HLT                        ;FEA NOT EQUAL TO FPI54

006426 022767 000000 172346      CMP      #000000,ANS1     ;DID 000000 GET STORED?
006434 001401                      BEQ      .+4              ;BRANCH IF OK
006436 104001                      HLT+1                    ;ANS1 NOT EQUAL TO 000000

006440 022767 000005 172336      CMP      #5,      ANS2     ;CONDITION CODES = 5?
006446 001401                      BEQ      .+4              ;BRANCH IF OK
006450 104002                      HLT+2                    ;WRONG CONDITION CODES!

```

```

:*****
:TEST 55:      TEST STCDI (STORE-CONVERT DOUBLE TO INTEGER)
:      STORE  144000,000377,177777,177777 --> 100000
:      FPS = 047610,  AC = AC3,      DST = M0-R5
:*****

```


K03

MAINDEC-11-DCFPJ-B
DCFPJ.P11

TEST OF LDCJX, STCXJ
TEST SECTION

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```

006452 104400          SCOPE
006454 000404          BR      TST55

006456 144000 000377 177777 DAT55: 144000,000377,177777,177777
006464 177777

006466 170127 047600      TST55: LDFPS  #047600      ;LOAD FLOATING POINT STATUS
006472 172767 177760      LDD    DAT55,  AC3      ;LOAD 144000,000377,177777,177777 INTO AC3
006476 175705          STCDI  AC3,    R5      ;STORE-CONVERT AC3 IN R5
006500 013767 177776 172276  MOV    @#PS,  ANS2     ;GET CPU STATUS
006506 042767 177760 172270  BIC    #177760,ANS2   ;SAVE CONDITION CODES
006514 010567 172262      MOV    R5,    ANS1     ;SAVE R5
006520 170200          STFPS  FPS          ;STORE FLOATING POINT STATUS
006522 022700 047610      CMP    #047610,FPS    ;CHECK FLOATING POINT STATUS
006526 001401          BEQ    .+4           ;BRANCH IF OK
006530 104000          HLT                    ;FPS NOT EQUAL TO 047610

006532 022767 100000 172242      CMP    #100000,ANS1   ;DID 100000 GET STORED?
006540 001401          BEQ    .+4           ;BRANCH IF OK
006542 104001          HLT+1              ;ANS1 NOT EQUAL TO 100000

006544 022767 000010 172232      CMP    #10,    ANS2   ;CONDITION CODES = 10?
006552 001401          BEQ    .+4           ;BRANCH IF OK
006554 104002          HLT+2              ;WRONG CONDITION CODES!

```

```

:*****
:TEST 56:      TEST STCDI (STORE-CONVERT DOUBLE TO INTEGER)
:              STORE 144000,000400,000000,000000 --> 000000
:              FPS = 147605, AC = AC2, DST = M2-R7
:              FEC = 6, FEA = FPI56
:*****

```

```

006556 104400          SCOPE
006560 000404          BR      TST56

006562 144000 000400 000000 DAT56: 144000,000400,000000,000000
006570 000000

006572 170127 047600      TST56: LDFPS  #047600      ;LOAD FLOATING POINT STATUS
006576 172667 177760      LDD    DAT56,  AC2      ;LOAD 144000,000400,000000,000000 INTO AC2
006602 175627          STCDI  AC2,    (PC)+ ;STORE-CONVERT AC2 IN ANS1
006604 000000          ANR56: 0              ;LOCATION FOR ANS
006606 000402          BR      .+6           ;PC FAILURE
006610 000000          HALT
006612 000000          HALT
006614 013767 177776 172162  MOV    @#PS,  ANS2     ;GET CPU STATUS
006622 042767 177760 172154  BIC    #177760,ANS2   ;SAVE CONDITION CODES
006630 016767 177750 172144  MOV    ANR56,  ANS1     ;SAVE THE ANSWER
006636 170200          STFPS  FPS          ;STORE FLOATING POINT STATUS
006640 170367 172156      STST  FEC          ;STORE EXCEPTION CODES
006644 022700 147605      CMP    #147605,FPS    ;CHECK FLOATING POINT STATUS
006650 001401          BEQ    .+4           ;BRANCH IF OK
006652 104000          HLT                    ;FPS NOT EQUAL TO 147605

006654 022767 000006 172140      CMP    #6,    FEC     ;CHECK FLOATING EXCEPTION CODE

```

```

006662 001401      BEQ      .+4      ;BRANCH IF OK
006664 104000      HLT
006666 022767 006602 172130  CMP      #FPI56, FEA ;CHECK FLOATING EXCEPTION ADDRESS
006674 001401      BEQ      .+4      ;BRANCH IF OK
006676 104000      HLT
006700 022767 000000 172074  CMP      #000000,ANS1 ;DID 000000 GET STORED?
006706 001401      BEQ      .+4      ;BRANCH IF OK
006710 104001      HLT+1      ;ANS1 NOT EQUAL TO 000000
006712 022767 000005 172064  CMP      #5,      ANS2 ;CONDITION CODES = 5?
006720 001401      BEQ      .+4      ;BRANCH IF OK
006722 104002      HLT+2      ;WRONG CONDITION CODES!

```

```

*****
:TEST 57:      TEST STCDI (STORE-CONVERT DOUBLE TO INTEGER)
:      STORE 100000,000000,000000,000000 --> 000000
:      FPS = 047604, AC = AC1, DST = M6-R7
*****

```

```

006724 104400      SCOPE
006726 000404      BR      TST57
006730 100000 000000 000000 000000 DAT57: 100000,000000,000000,000000
006736 000000
006740 170127 040200  TST57: LDFPS  #040200 ;LOAD FLOATING POINT STATUS
006744 172567 177760  LDD      DAT57, AC1 ;LOAD 100000,000000,000000,000000 INTO AC1
006750 170127 047600  LDFPS  #047600 ;LOAD FLOATING POINT STATUS
006754 175567 172022  STCDI  AC1, ANS1 ;STORE-CONVERT AC1 IN ANS1
006760 013767 177776 172016  MOV      #FPS, ANS2 ;GET CPU STATUS
006766 042767 177760 172010  BIC      #177760,ANS2 ;SAVE CONDITION CODES
006774 170200  STFPS  FPS ;STORE FLOATING POINT STATUS
006776 022700 047604  CMP      #047604,FPS ;CHECK FLOATING POINT STATUS
007002 001401      BEQ      .+4      ;BRANCH IF OK
007004 104000      HLT
007006 022767 000000 171766  CMP      #000000,ANS1 ;DID 000000 GET STORED?
007014 001401      BEQ      .+4      ;BRANCH IF OK
007016 104001      HLT+1      ;ANS1 NOT EQUAL TO 000000
007020 022767 000000~ 171756  CMP      #4,      ANS2 ;CONDITION CODES = 4?
007026 001401      BEQ      .+4      ;BRANCH IF OK
007030 104002      HLT+2      ;WRONG CONDITION CODES!

```

```

*****
:TEST 60:      TEST STCDI (STORE-CONVERT DOUBLE TO INTEGER)
:      STORE 177777,177777,177777,177777 --> 000000
:      FPS = 147605, AC = AC0, DST = M6-R7
:      FEC = 6, FEA = FPI60
*****

```

```

007032 104400      SCOPE

```

```

007034 000404 BR TST60
007036 177777 177777 177777 DAT60: 177777,177777,177777,177777
007044 177777
007046 170127 047600 TST60: LDFPS #047600 ;LOAD FLOATING POINT STATUS
007052 172467 177760 LDD DAT60, AC0 ;LOAD 177777,177777,177777,177777 INTO AC0
007056 175467 171720 FPI60: STCDI AC0, ANS1 ;STORE-CONVERT AC0 IN ANS1
007062 013767 177776 171714 MOV #PS, ANS2 ;GET CPU STATUS
007070 042767 177760 171706 BIC #177760,ANS2 ;SAVE CONDITION CODES
007076 170200 STFPS FPS ;STORE FLOATING POINT STATUS
007100 170367 171716 STST FEC ;STORE EXCEPTION CODES
007104 022700 147605 CMP #147605,FPS ;CHECK FLOATING POINT STATUS
007110 001401 BEQ .+4 ;BRANCH IF OK
007112 104000 HLT ;FPS NOT EQUAL TO 147605

007114 022767 000006 171700 CMP #6, FEC ;CHECK FLOATING EXCEPTION CODE
007122 001401 BEQ .+4 ;BRANCH IF OK
007124 104000 HLT ;FEC NOT EQUAL TO 6

007126 022767 007056 171670 CMP #FPI60, FEA ;CHECK FLOATING EXCEPTION ADDRESS
007134 001401 BEQ .+4 ;BRANCH IF OK
007136 104000 HLT ;FEA NOT EQUAL TO FPI60

007140 022767 000000 171634 CMP #000000,ANS1 ;DID 000000 GET STORED?
007146 001401 BEQ .+4 ;BRANCH IF OK
007150 104001 HLT+1 ;ANS1 NOT EQUAL TO 000000

007152 022767 000005 171624 CMP #5, ANS2 ;CONDITION CODES = 5?
007160 001401 BEQ .+4 ;BRANCH IF OK
007162 104002 HLT+2 ;WRONG CONDITION CODES!

```

```

:*****
:TEST 61: TEST STCDI (STORE-CONVERT DOUBLE TO INTEGER)
: STORE 000200,000000,000000,000000 --> 000000
: FPS = 047604, AC = AC3, DST = M6-R7
:*****

```

```

007164 104400 SCOPE
007166 000404 BR TST61
007170 000200 000000 000000 DAT61: 000200,000000,000000,000000
007176 000000
007200 170127 047600 TST61: LDFPS #047600 ;LOAD FLOATING POINT STATUS
007204 172767 177760 LDD DAT61, AC3 ;LOAD 000200,000000,000000,000000 INTO AC3
007210 175767 171566 FPI61: STCDI AC3, ANS1 ;STORE-CONVERT AC3 IN ANS1
007214 013767 177776 171562 MOV #PS, ANS2 ;GET CPU STATUS
007222 042767 177760 171554 BIC #177760,ANS2 ;SAVE CONDITION CODES
007230 170200 STFPS FPS ;STORE FLOATING POINT STATUS
007232 022700 047604 CMP #047604,FPS ;CHECK FLOATING POINT STATUS
007236 001401 BEQ .+4 ;BRANCH IF OK
007240 104000 HLT ;FPS NOT EQUAL TO 047604

007242 022767 000000 171532 CMP #000000,ANS1 ;DID 000000 GET STORED?

```

```

007250 001401      BEQ      .+4      ;BRANCH IF OK
007252 104001      HLT+1          ;ANS1 NOT EQUAL TO 000000

007254 022767 000004 171522  CMP      #4      ANS2 ;CONDITION CODES = 4?
007262 001401      BEQ      .+4      ;BRANCH IF OK
007264 104002      HLT+2          ;WRONG CONDITION CODES!

```

```

:*****
:TEST 62:      TEST STCDI (STORE-CONVERT DOUBLE TO INTEGER)
:      STORE 100177,177777,177777,177777 --> 000000
:      FPS = 047604, AC = AC2, DST = M6-R7
:*****

```

```

007266 104400      SCOPE
007270 000404      BR      TST62

007272 100177 177777 177777 DAT62: 100177,177777,177777,177777
007300 177777

```

```

007302 170127 040200 TST62: LDFPS #040200 ;LOAD FLOATING POINT STATUS
007306 172667 177760 LD      DAT62, AC2 ;LOAD 100177,177777,177777,177777 INTO AC2
007312 170127 047600 LDFPS #047600 ;LOAD FLOATING POINT STATUS
007316 175667 171460 STCDI AC2, ANS1 ;STORE-CONVERT AC2 IN ANS1
007322 013767 177776 171454 MOV      3#PS, ANS2 ;GET CPU STATUS
007330 042767 177760 171446 BIC      #177760,ANS2 ;SAVE CONDITION CODES
007336 170200 STFPS FPS ;STORE FLOATING POINT STATUS
007340 022700 047604 CMP      #047604,FPS ;CHECK FLOATING POINT STATUS
007344 001401 BEQ      .+4 ;BRANCH IF OK
007346 104000 HLT ;FPS NOT EQUAL TO 047604

```

```

007350 022767 000000 171424 CMP      #000000,ANS1 ;DID 000000 GET STORED?
007356 001401 BEQ      .+4 ;BRANCH IF OK
007360 104001 HLT+1 ;ANS1 NOT EQUAL TO 000000

```

```

007362 022767 000004 171414 CMP      #4      ANS2 ;CONDITION CODES = 4?
007370 001401 BEQ      .+4 ;BRANCH IF OK
007372 104002 HLT+2 ;WRONG CONDITION CODES!

```

```

:*****
:TEST 63:      TEST LDCLF (LOAD-CONVERT LONG TO FLOATING)
:      LOAD 000000,000000 --> 000000,000000
:      FPS = 047504, SRC = M6-R7, AC = AC0
:*****

```

```

007374 104400      SCOPE
007376 000402      BR      TST63

```

```

007400 000000 000000 DAT63: 000000,000000

```

```

007404 170127 047500 TST63: LDFPS #047500 ;LOAD FLOATING POINT STATUS
007410 177967 177764 LDCLF DAT63, AC0 ;LOAD-CONVERT 000000,000000 INTO AC0
007414 170200 STFPS FPS ;STORE FLOATING POINT STATUS
007416 022700 047504 CMP      #047504,FPS ;CHECK FLOATING POINT STATUS
007422 001401 BEQ      .+4 ;BRANCH IF OK

```

000000-000000-B

TEST SECTION

```

007424 104000      HLT                :FPS NOT EQUAL TO 047504
007426 174067 171350      STF      ACC      ANS1 :STORE ACC IN ANS1, ANS2
007428 022767 000000 171342      CMP      000000,ANS1 :DID 000000 GET STORED?
007430 001401      BEQ      .+4         :BRANCH IF OK
007432 104002      HLT+2          :ANS1 NOT EQUAL TO 000000

007434 022767 000000 171332      CMP      000000,ANS2 :DID 000000 GET STORED?
007436 001401      BEQ      .+4         :BRANCH IF OK
007438 104002      HLT+2          :ANS2 NOT EQUAL TO 000000

```

```

*****
TEST 64:      TEST LDCLF (LOAD-CONVERT LONG TO FLOATING)
LOAD      125252,125252 --> 147652,125253
FPS = 047510, SRC = M6-R7, AC = AC3
*****

```

```

007456 104402      SCOPE
007458 000402      BR      TST64

007462 125252 125252      DAT64: 125252,125252

007466 170127 047500      TST64: LDFPS      #047500 :LOAD FLOATING POINT STATUS
007470 177167 177764      LDCLF   DAT64, AC3 :LOAD-CONVERT 125252,125252 INTO AC3
007474 170200      STFPS   FPS :STORE FLOATING POINT STATUS
007500 022700 047510      CMP      #047510,FPS :CHECK FLOATING POINT STATUS
007504 001401      BEQ      .+4         :BRANCH IF OK
007506 104000      HLT                :FPS NOT EQUAL TO 047510

007510 174367 171266      STF      ACC      ANS1 :STORE ACC IN ANS1, ANS2
007514 022767 147652 171250      CMP      #147652,ANS1 :DID 147652 GET STORED?
007522 001401      BEQ      .+4         :BRANCH IF OK
007524 104002      HLT+2          :ANS1 NOT EQUAL TO 147652

007526 022767 125253 171250      CMP      #125253,ANS2 :DID 125253 GET STORED?
007530 001401      BEQ      .+4         :BRANCH IF OK
007532 104002      HLT+2          :ANS2 NOT EQUAL TO 125253

```

```

*****
TEST 65:      TEST LDCLF (LOAD-CONVERT LONG TO FLOATING)
LOAD      052525,052525 --> 047652,125253
FPS = 047500, SRC = M6-R7, AC = AC1
*****

```

```

007540 104402      SCOPE
007542 000402      BR      TST65

007544 052525 052525      DAT65: 052525,052525

007550 170127 047500      TST65: LDFPS      #047500 :LOAD FLOATING POINT STATUS
007554 177167 177764      LDCLF   DAT65, AC1 :LOAD-CONVERT 052525,052525 INTO AC1
007560 170200      STFPS   FPS :STORE FLOATING POINT STATUS
007564 022700 047500      CMP      #047500,FPS :CHECK FLOATING POINT STATUS
007568 001401      BEQ      .+4         :BRANCH IF OK

```

CO4

WATNOEC-11-00FPJ-B
00FPJ.P11

TEST OF LDCLF, STCXJ
TEST SECTION

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007570	104000			HLT			:FPS NOT EQUAL TO 047500
007572	174167	171204		STF	AC1	ANS1	:STORE AC1 IN ANS1, ANS2
007574	022767	047652	171176	CMP	#047652,	ANS1	:DID 047652 GET STORED?
007604	001401			BEG	.+4		:BRANCH IF OK
007606	104002			HLT+2			:ANS1 NOT EQUAL TO 047652
007610	022767	125253	171166	CMP	#125253,	ANS2	:DID 125253 GET STORED?
007612	001401			BEG	.+4		:BRANCH IF OK
007614	104002			HLT+2			:ANS2 NOT EQUAL TO 125253

```

*****
:TEST 66:      TEST LDCLF (LOAD-CONVERT LONG TO FLOATING)
:              LOAD 000000,000001 --) 040200,000000
:              FPS = 047500, SRC = M6-R7, AC = AC3
*****

```

007622	104400			SCOPE			
007624	000402			BR		TST66	
007626	000000	000001		DAT66:	000000,	000001	
007632	170127	047500		TST66:	LDFPS	#047500	:LOAD FLOATING POINT STATUS
007636	177367	177764			LDCLF	DAT66, AC3	:LOAD-CONVERT 000000,000001 INTO AC3
007642	170200				STFPS	FPS	:STORE FLOATING POINT STATUS
007644	022700	047500			CMP	#047500,FPS	:CHECK FLOATING POINT STATUS
007650	001401				BEG	.+4	:BRANCH IF OK
007652	104000				HLT		:FPS NOT EQUAL TO 047500
007654	174367	171122		STF	AC3	ANS1	:STORE AC3 IN ANS1, ANS2
007660	022767	040200	171114	CMP	#040200,	ANS1	:DID 040200 GET STORED?
007666	001401			BEG	.+4		:BRANCH IF OK
007670	104002			HLT+2			:ANS1 NOT EQUAL TO 040200
007672	022767	000000	171104	CMP	#000000,	ANS2	:DID 000000 GET STORED?
007700	001401			BEG	.+4		:BRANCH IF OK
007702	104002			HLT+2			:ANS2 NOT EQUAL TO 000000

```

*****
:TEST 67:      TEST LDCLF (LOAD-CONVERT LONG TO FLOATING)
:              LOAD 177777 --) 144200,000000
:              FPS = 047510, SRC = M2-R7, AC = AC2
*****

```

007704	104400			SCOPE			
007706	170127	047500		TST67:	LDFPS	#047500	:LOAD FLOATING POINT STATUS
007712	177227	177777			LDCLF	#177777,AC2	:LOAD-CONVERT 177777 INTO AC2
007716	170200				STFPS	FPS	:STORE FLOATING POINT STATUS
007720	022700	047510			CMP	#047510,FPS	:CHECK FLOATING POINT STATUS
007724	001401				BEG	.+4	:BRANCH IF OK
007726	104000				HLT		:FPS NOT EQUAL TO 047510
007730	174267	171046		STF	AC2	ANS1	:STORE AC2 IN ANS1, ANS2
007736	022767	144200	171040	CMP	#144200,	ANS1	:DID 144200 GET STORED?


```

007742 001401 BEQ .+4 :BRANCH IF OK
007744 104002 HLT+2 :ANS1 NOT EQUAL TO 144200

007746 022767 000000 171030 CMP #000000,ANS2 :DID 000000 GET STORED?
007748 001401 BEQ .+4 :BRANCH IF OK
007750 104002 HLT+2 :ANS2 NOT EQUAL TO 000000

```

```

*****
:TEST 70: TEST LDCLF (LOAD-CONVERT LONG TO FLOATING)
:LOAD 100000 --> 150000.000000
:FPS = 047510, SRC = M0-R4, AC = AC0
*****

```

```

007760 104400 SCOPE
007762 170127 047500 TST70: LDFPS #047500 :LOAD FLOATING POINT STATUS
007764 012704 100000 MOV #100000,R4 :LOAD 100000 INTO R4
007772 177004 LDCLF R4, AC0 :LOAD-CONVERT 100000 INTO AC0
007774 170200 STFPS FPS :STORE FLOATING POINT STATUS
007776 022700 047510 CMP #047510,FPS :CHECK FLOATING POINT STATUS
000002 001401 BEQ .+4 :BRANCH IF OK
010004 104002 HLT :FPS NOT EQUAL TO 047510

010006 174067 170770 STF ACC,ANS1 :STORE ACC IN ANS1,ANS2
010012 022767 150000 170762 CMP #150000,ANS1 :DID 150000 GET STORED?
010020 001401 BEQ .+4 :BRANCH IF OK
010022 104002 HLT+2 :ANS1 NOT EQUAL TO 150000

010024 022767 000000 170752 CMP #000000,ANS2 :DID 000000 GET STORED?
010032 001401 BEQ .+4 :BRANCH IF OK
010034 104002 HLT+2 :ANS2 NOT EQUAL TO 000000

```

```

*****
:TEST 71: TEST LDCLF (LOAD-CONVERT LONG TO FLOATING)
:LOAD 077777.177777 --> 050000.000000
:FPS = 047500, SRC = M6-R7, AC = AC2
*****

```

```

010036 104400 SCOPE
010040 000402 BR TST71

010042 077777 177777 DAT71: 077777,177777

010046 170127 047500 TST71: LDFPS #047500 :LOAD FLOATING POINT STATUS
010052 177267 177764 LDCLF DAT71, AC2 :LOAD-CONVERT 077777,177777 INTO AC2
010056 170200 STFPS FPS :STORE FLOATING POINT STATUS
010060 022700 047500 CMP #047500,FPS :CHECK FLOATING POINT STATUS
010064 001401 BEQ .+4 :BRANCH IF OK
010066 104002 HLT :FPS NOT EQUAL TO 047500

010070 174267 170706 STF ACC,ANS1 :STORE ACC IN ANS1,ANS2
010074 022767 050000 170700 CMP #050000,ANS1 :DID 050000 GET STORED?
010080 001401 BEQ .+4 :BRANCH IF OK
010082 104002 HLT+2 :ANS1 NOT EQUAL TO 050000

```

E04

FINANCE-1-00FP-8
FINANCE-1-00FP-8

TEST OF LDCLF, STCXJ
TEST SECTION

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010106	022767	000000	170670	CMP	#000000,ANS2	:DID 000000 GET STORED?
010108	001401			BEG	..+4	:BRANCH IF OK
010110	104002			HLT+2		:ANS2 NOT EQUAL TO 000000

 TEST 72: TEST LDCLF (LOAD-CONVERT LONG TO FLOATING)
 LOAD 000125,000125 --> 045652,000252
 FPS = 047500, SRC = M6-R7, AC = ACC

010112	104400			SCOPE		
010114	000125			BR	TST72	
010124	000125	000125		DAT72:	000125,000125	
010130	170127	047500		TST72:	LDFPS #047500	:LOAD FLOATING POINT STATUS
010132	177067	177764		LDCLF	DAT72, ACC	:LOAD-CONVERT 000125,000125 INTO ACC
010134	170200			STFPS	FPS	:STORE FLOATING POINT STATUS
010136	022700	047500		CMP	#047500,FPS	:CHECK FLOATING POINT STATUS
010138	001401			BEG	..+4	:BRANCH IF OK
010140	104000			HLT		:FPS NOT EQUAL TO 047500
010152	174067	170654		STF	ACC ANS1	:STORE ACC IN ANS1, ANS2
010154	022767	045652	170616	CMP	#045652,ANS1	:DID 045652 GET STORED?
010156	001401			BEG	..+4	:BRANCH IF OK
010158	104002			HLT+2		:ANS1 NOT EQUAL TO 045652
010170	022767	000252	170606	CMP	#000252,ANS2	:DID 000252 GET STORED?
010172	001401			BEG	..+4	:BRANCH IF OK
010174	104002			HLT+2		:ANS2 NOT EQUAL TO 000252

 TEST 73: TEST LDCLF (LOAD-CONVERT LONG TO FLOATING)
 LOAD 070707,070707 --> 047743,107344
 FPS = 047500, SRC = M6-R7, AC = ACC

010202	104400			SCOPE		
010204	000707			BR	TST73	
010206	070707	070707		DAT73:	070707,070707	
010212	170127	047500		TST73:	LDFPS #047500	:LOAD FLOATING POINT STATUS
010214	177267	177764		LDCLF	DAT73, ACC	:LOAD-CONVERT 070707,070707 INTO ACC
010216	170200			STFPS	FPS	:STORE FLOATING POINT STATUS
010218	022700	047500		CMP	#047500,FPS	:CHECK FLOATING POINT STATUS
010220	001401			BEG	..+4	:BRANCH IF OK
010222	104000			HLT		:FPS NOT EQUAL TO 047500
010234	174267	170542		STF	ACC ANS1	:STORE ACC IN ANS1, ANS2
010236	022767	047743	170524	CMP	#047743,ANS1	:DID 047743 GET STORED?
010238	001401			BEG	..+4	:BRANCH IF OK
010240	104002			HLT+2		:ANS1 NOT EQUAL TO 047743

F04

MAINDEC-11-DCFPJ-B
DCFPJ.P11

TEST OF DCIX, STCXJ
TEST SECTION

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010252	022767	107344	170524	CMP	#107344,ANS2	:DID 107344 GET STORED?
010260	001401			BEG	.+4	:BRANCH IF OK
010262	104002			HLT+2		:ANS2 NOT EQUAL TO 107344

```

*****
:TEST 74:      TEST LDCLF (LOAD-CONVERT LONG TO FLOATING)
:      LOAD    107070,107070 --> 147743,107344
:      FPS = 047510, SRC = M6-R7, AC = ACC
*****

```

010264	104400			SCOPE		
010266	000402			BR	TST74	
010270	107070	107070		DATA74:	107070,107070	
010274	170127	047500		TST74:	LDFPS #047500	:LOAD FLOATING POINT STATUS
010290	177067	177764			LDCLF DAT74, ACC	:LOAD-CONVERT 107070,107070 INTO ACC
010304	170200				STFPS FPS	:STORE FLOATING POINT STATUS
010306	022700	047510			CMP #047510,FPS	:CHECK FLOATING POINT STATUS
010312	001401				BEG .+4	:BRANCH IF OK
010314	104000				HLT	:FPS NOT EQUAL TO 047510
010316	174067	170460		STF	ACC, ANS1	:STORE ACC IN ANS1, ANS2
010322	022767	147743	170452	CMP	#147743,ANS1	:DID 147743 GET STORED?
010330	001401			BEG	.+4	:BRANCH IF OK
010332	104002			HLT+2		:ANS1 NOT EQUAL TO 147743
010334	022767	107344	170442	CMP	#107344,ANS2	:DID 107344 GET STORED?
010342	001401			BEG	.+4	:BRANCH IF OK
010344	104002			HLT+2		:ANS2 NOT EQUAL TO 107344

```

*****
:TEST 75:      TEST STCFL (STORE-CONVERT FLOATING TO LONG)
:      STORE   000000,000000 --> 000000,000000
:      FPS = 047504, AC = AC2, DST = M6-R7
*****

```

010346	104400			SCOPE		
010350	000402			BR	TST75	
010352	000000	000000		DATA75:	000000,000000	
010356	170127	047500		TST75:	LDFPS #047500	:LOAD FLOATING POINT STATUS
010362	172667	177764			LDF DAT75, AC2	:LOAD 000000,000000 INTO ACC
010366	175667	170410		FP:75:	STCFL AC2, ANS1	:STORE-CONVERT AC2 IN ANS1, ANS2
010372	013767	177776	170406		MOV #0PS, ANS3	:GET CPU STATUS
010400	042767	177760	170400		BIC #177760,ANS3	:SAVE CONDITION CODES
010406	170200				STFPS FPS	:STORE FLOATING POINT STATUS
010410	022700	047504			CMP #047504,FPS	:CHECK FLOATING POINT STATUS
010414	001401				BEG .+4	:BRANCH IF OK
010416	104000				HLT	:FPS NOT EQUAL TO 047504
010420	022767	000000	170354	CMP	#000000,ANS1	:DID 000000 GET STORED?
010422	001401			BEG	.+4	:BRANCH IF OK

```

010430 104002          HLT+2          :ANS1 NOT EQUAL TO 000000
010432 022767 000000 170344  CMP      #000000,ANS2  :DID 000000 GET STORED?
010434 001401          BEQ      .+4          :BRANCH IF OK
010436 104002          HLT+2          :ANS2 NOT EQUAL TO 000000
010444 022767 000004 170334  CMP      #4,      ANS3  :CONDITION CODES = 4?
010446 001401          BEQ      .+4          :BRANCH IF OK
010448 104003          HLT+3          :WRONG CONDITION CODES!

```

```

*****
TEST 76:      TEST STCFL (STORE-CONVERT FLOATING TO LONG.
              STORE  041252.125252 --> 000000,000025
              FPS = 047500,  AC = AC1,      CST = M6-R7
*****

```

```

010456 104400          SCOPE
010460 000402          BR      TST76
010462 041252 125252  DAT76: 041252.125252
010466 170127 047500  TST76: LDFPS  #047500      :LOAD FLOATING POINT STATUS
010472 172567 177764          LDF      DAT76,  AC1  :LOAD 041252,125252 INTO AC1
010476 175567 170300          FPI76: STCFL  AC1,   ANS1  :STORE-CONVERT AC1 IN ANS1, ANS2
010502 013767 177776 170276  MOV      #FPS,   ANS3  :GET CPU STATUS
010510 042767 177760 170270  BIC      #177760,ANS3  :SAVE CONDITION CODES
010516 170200          STFPS   FPS          :STORE FLOATING POINT STATUS
010520 022700 047500          CMP      #047500,FPS  :CHECK FLOATING POINT STATUS
010524 001401          BEQ      .+4          :BRANCH IF OK
010526 104000          HLT          :FPS NOT EQUAL TO 047500
010530 022767 000000 170244  CMP      #000000,ANS1  :DID 000000 GET STORED?
010536 001401          BEQ      .+4          :BRANCH IF OK
010540 104002          HLT+2          :ANS1 NOT EQUAL TO 000000
010542 022767 000025 170234  CMP      #000025,ANS2  :DID 000025 GET STORED?
010550 001401          BEQ      .+4          :BRANCH IF OK
010552 104002          HLT+2          :ANS2 NOT EQUAL TO 000025
010554 022767 000000 170224  CMP      #0,      ANS3  :CONDITION CODES = 0?
010556 001401          BEQ      .+4          :BRANCH IF OK
010558 104003          HLT+3          :WRONG CONDITION CODES!

```

```

*****
TEST 77:      TEST STCFL (STORE-CONVERT FLOATING TO LONG.
              STORE  141252.125252 --> 177777,177753
              FPS = 047510,  AC = AC3,      CST = M6-R7
*****

```

```

010566 104400          SCOPE
010570 000402          BR      TST77
010572 041252 125252  DAT77: 041252.125252

```

H04

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TEST OF LDCJX, STCXJ
TEST SECTION

010612	170127	047500		TST77:	LDFPS	#047500		:LOAD FLOATING POINT STATUS
010614	172767	177764			LDF	DAT77, AC3		:LOAD 141252,125252 INTO AC3
010616	175767	170170		FPI77:	STCFL	AC3, ANS1		:STORE-CONVERT AC3 IN ANS1, ANS2
010618	013767	177776	170166		MOV	#0PS, ANS3		:GET CPU STATUS
010620	042767	177760	170160		BIC	#177760, ANS3		:SAVE CONDITION CODES
010622	170200				STFPS	FPS		:STORE FLOATING POINT STATUS
010624	022700	047510			CMP	#047510, FPS		:CHECK FLOATING POINT STATUS
010626	001401				BEQ	.+4		:BRANCH IF OK
010628	104000				HLT			:FPS NOT EQUAL TO 047510
010640	022767	177777	170134		CMP	#177777, ANS1		:DID 177777 GET STORED?
010642	001401				BEQ	.+4		:BRANCH IF OK
010644	104002				HLT+2			:ANS1 NOT EQUAL TO 177777
010652	022767	177753	170124		CMP	#177753, ANS2		:DID 177753 GET STORED?
010654	001401				BEQ	.+4		:BRANCH IF OK
010656	104002				HLT+2			:ANS2 NOT EQUAL TO 177753
010664	022767	000010	170114		CMP	#10, ANS3		:CONDITION CODES = 10?
010666	001401				BEQ	.+4		:BRANCH IF OK
010668	104002				HLT+3			:WRONG CONDITION CODES!

 TEST 100: TEST STCFL (STORE-CONVERT FLOATING TO LONG.
 STORE 040177,177777 --, 000000,000000
 FPS = 047504, AC = AC1, DST = M6-R

010676	104400				SCOPE			
010700	000402				BR	TST100		
010702	040177	177777		DAT100:	040177,177777			
010706	170127	047500		TST100:	LDFPS	#047500		:LOAD FLOATING POINT STATUS
010712	172567	177764			LDF	DAT100, AC1		:LOAD 040177,177777 INTO AC1
010716	175567	170060		FPI100:	STCFL	AC1, ANS1		:STORE-CONVERT AC1 IN ANS1, ANS2
010722	013767	177776	170056		MOV	#0PS, ANS3		:GET CPU STATUS
010730	042767	177760	170050		BIC	#177760, ANS3		:SAVE CONDITION CODES
010736	170200				STFPS	FPS		:STORE FLOATING POINT STATUS
010740	022700	047504			CMP	#047504, FPS		:CHECK FLOATING POINT STATUS
010744	001401				BEQ	.+4		:BRANCH IF OK
010746	104000				HLT			:FPS NOT EQUAL TO 047504
010750	022767	000000	170024		CMP	#000000, ANS1		:DID 000000 GET STORED?
010752	001401				BEQ	.+4		:BRANCH IF OK
010754	104002				HLT+2			:ANS1 NOT EQUAL TO 000000
010762	022767	000000	170014		CMP	#000000, ANS2		:DID 000000 GET STORED?
010770	001401				BEQ	.+4		:BRANCH IF OK
010772	104002				HLT+2			:ANS2 NOT EQUAL TO 000000
010774	022767	000004	170004		CMP	#4, ANS3		:CONDITION CODES = 4?
010782	001401				BEQ	.+4		:BRANCH IF OK
010784	104002				HLT+3			:WRONG CONDITION CODES!

:TEST 101: TEST STCFL (STORE-CONVERT FLOATING TO LONG)
: STORE 140177,177777 --> 000000,000000
: FPS = 047504, AC = AC2, DST = M6-R7

011006	104400			SCOPE			
011008	000402			BR	TST101		
011012	140177	177777		DAT101:	140177,177777		
011016	170127	047500		TST101:	LDFPS #047500	:LOAD FLOATING POINT STATUS	
011022	172667	177764			LDF DAT101, AC2	:LOAD 140177,177777 INTO AC2	
011026	175667	167750		FPI101:	STCFL AC2, ANS1	:STORE-CONVERT AC2 IN ANS1, ANS2	
011032	013767	177776	167746		MOV #PS, ANS3	:GET CPU STATUS	
011040	042767	177760	167740		BIC #177760, ANS3	:SAVE CONDITION CODES	
011046	170200				STFPS FPS	:STORE FLOATING POINT STATUS	
011050	022700	047504			CMP #047504, FPS	:CHECK FLOATING POINT STATUS	
011054	001401				BEQ .+4	:BRANCH IF OK	
011056	104000				HLT	:FPS NOT EQUAL TO 047504	
011060	022767	000000	167714		CMP #000000, ANS1	:DID 000000 GET STORED?	
011066	001401				BEQ .+4	:BRANCH IF OK	
011070	104002				HLT+2	:ANS1 NOT EQUAL TO 000000	
011072	022767	000000	167704		CMP #000000, ANS2	:DID 000000 GET STORED?	
011100	001401				BEQ .+4	:BRANCH IF OK	
011102	104002				HLT+2	:ANS2 NOT EQUAL TO 000000	
011104	022767	000004	167674		CMP #4, ANS3	:CONDITION CODES = 4?	
011112	001401				BEQ .+4	:BRANCH IF OK	
011114	104002				HLT+3	:WRONG CONDITION CODES!	

:TEST 102: TEST STCFL (STORE-CONVERT FLOATING TO LONG)
: STORE 040200,000001 --> 000000,000001
: FPS = 047500, AC = AC0, DST = M6-R7

011116	104400			SCOPE			
011120	000402			BR	TST102		
011122	040200	000001		DAT102:	040200,000001		
011126	170127	047500		TST102:	LDFPS #047500	:LOAD FLOATING POINT STATUS	
011132	172467	177764			LDF DAT102, AC0	:LOAD 040200,000001 INTO AC0	
011136	175467	167640		FPI102:	STCFL AC0, ANS1	:STORE-CONVERT AC0 IN ANS1, ANS2	
011142	013767	177776	167636		MOV #PS, ANS3	:GET CPU STATUS	
011150	042767	177760	167630		BIC #177760, ANS3	:SAVE CONDITION CODES	
011156	170200				STFPS FPS	:STORE FLOATING POINT STATUS	
011160	022700	047500			CMP #047500, FPS	:CHECK FLOATING POINT STATUS	
011164	001401				BEQ .+4	:BRANCH IF OK	
011166	104000				HLT	:FPS NOT EQUAL TO 047500	

J04

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TEST OF LDCJX, STCXJ
TEST SECTION

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011170	022767	000000	167604	CMP	#000000,ANS1	:DID 000000 GET STORED?
011176	001401			BEQ	+.4	:BRANCH IF OK
011200	104002			HLT+2		:ANS1 NOT EQUAL TO 000000
011202	022767	000001	167574	CMP	#000001,ANS2	:DID 000001 GET STORED?
011210	001401			BEQ	+.4	:BRANCH IF OK
011212	104002			HLT+2		:ANS2 NOT EQUAL TO 000001
011214	022767	000000	167564	CMP	#0, ANS3	:CONDITION CODES = 0?
011220	001401			BEQ	+.4	:BRANCH IF OK
011224	104003			HLT+3		:WRONG CONDITION CODES!

```

*****
:TEST 103: TEST STCFL (STORE-CONVERT FLOATING TO LONG)
: STORE 140200,000001 --> 177777,177777
: FPS = 047510, AC = AC2, DST = M6-R7
*****

```

011226	104400			SCOPE		
011230	000402			BR	TST103	

011232	140200	000001		DAT103:	140200,000001	
--------	--------	--------	--	---------	---------------	--

011236	170127	047500		TST103: LDFPS	#047500	:LOAD FLOATING POINT STATUS
011242	172667	177764		LDF	DAT103, AC2	:LOAD 140200,000001 INTO AC2
011246	175667	167530		FPI103: STCFL	AC2, ANS1	:STORE-CONVERT AC2 IN ANS1, ANS2
011252	013767	177776	167526	MOV	#FPS, ANS3	:GET CPU STATUS
011260	042767	177760	167520	BIC	#177760,ANS3	:SAVE CONDITION CODES
011266	170200			STFPS	FPS	:STORE FLOATING POINT STATUS
011270	022700	047510		CMP	#047510,FPS	:CHECK FLOATING POINT STATUS
011274	001401			BEQ	+.4	:BRANCH IF OK
011276	104003			HLT		:FPS NOT EQUAL TO 047510

011300	022767	177777	167474	CMP	#177777,ANS1	:DID 177777 GET STORED?
011306	001401			BEQ	+.4	:BRANCH IF OK
011310	104002			HLT+2		:ANS1 NOT EQUAL TO 177777

011312	022767	177777	167464	CMP	#177777,ANS2	:DID 177777 GET STORED?
011320	001401			BEQ	+.4	:BRANCH IF OK
011322	104002			HLT+2		:ANS2 NOT EQUAL TO 177777

011324	022767	000010	167454	CMP	#10, ANS3	:CONDITION CODES = 10?
011332	001401			BEQ	+.4	:BRANCH IF OK
011334	104003			HLT+3		:WRONG CONDITION CODES!

```

*****
:TEST 104: TEST STCFL (STORE-CONVERT FLOATING TO LONG)
: STORE 047777,177777 --> 077777
: FPS = 047500, AC = AC0, DST = M2-R7
*****

```

011336	104400			SCOPE		
011340	000402			BR	TST104	


```

011342 047777 177777 DAT104: 047777,177777
011346 170127 047500 TST104: LDFPS #047500 ;LOAD FLOATING POINT STATUS
011352 172467 177764 LDF DAT104, AC0 ;LOAD 047777,177777 INTO AC0
011356 175427 STCFL AC0, (PC)+ ;STORE-CONVERT AC0 IN +2
011360 000000 ANR104: 0
011362 000402 BR .+6
011364 000000 HALT ;PC FAILURE
011366 000000 HALT
011370 013767 177776 167406 MOV #0PS, ANS2 ;GET CPU STATUS
011376 042767 177760 167400 BIC #177760,ANS2 ;SAVE CONDITION CODES
011404 016767 177750 167370 MOV ANR104, ANS1 ;SAVE THE ANSWER
011412 170200 STFPS FPS ;STORE FLOATING POINT STATUS
011414 022700 047500 CMP #047500,FPS ;CHECK FLOATING POINT STATUS
011420 001401 BEQ .+4 ;BRANCH IF OK
011422 104000 HLT ;FPS NOT EQUAL TO 047500

011424 022767 077777 167350 CMP #077777,ANS1 ;DID 077777 GET STORED?
011432 001401 BEQ .+4 ;BRANCH IF OK
011434 104001 HLT+1 ;ANS1 NOT EQUAL TO 077777

011436 022767 000000 167340 CMP #0, ANS2 ;CONDITION CODES = 0?
011444 001401 BEQ .+4 ;BRANCH IF OK
011446 104002 HLT+2 ;WRONG CONDITION CODES!

```

```

*****
:TEST 105: TEST STCFL (STORE-CONVERT FLOATING TO LONG)
: STORE 050000,000000 --> 000000
: FPS = 147505, AC = AC2, DST = MO-R5
: FEC = 6, FEA = FPI105
*****

```

```

011450 104400 SCOPE
011452 000402 BR TST105

011454 050000 000000 DAT105: 050000,000000

011460 170127 047500 TST105: LDFPS #047500 ;LOAD FLOATING POINT STATUS
011464 172667 177764 LDF DAT105, AC2 ;LOAD 050000,000000 INTO AC2
011470 175605 FPI105: STCFL AC2, R5 ;STORE-CONVERT AC2 IN R5
011472 013767 177776 167304 MOV #0PS, ANS2 ;GET CPU STATUS
011500 042767 177760 167276 BIC #177760,ANS2 ;SAVE CONDITION CODES
011506 010567 167270 MOV R5, ANS1 ;SAVE R5
011512 170200 STFPS FPS ;STORE FLOATING POINT STATUS
011514 170367 167302 STST FEC ;STORE EXCEPTION CODES
011520 022700 147505 CMP #147505,FPS ;CHECK FLOATING POINT STATUS
011524 001401 BEQ .+4 ;BRANCH IF OK
011526 104000 HLT ;FPS NOT EQUAL TO 147505

011530 022767 000006 167264 CMP #6, FEC ;CHECK FLOATING EXCEPTION CODE
011536 001401 BEQ .+4 ;BRANCH IF OK
011540 104000 HLT ;FEC NOT EQUAL TO 6

011542 022767 011470 167254 CMP #FPI105, FEA ;CHECK FLOATING EXCEPTION ADDRESS
011550 001401 BEQ .+4 ;BRANCH IF OK

```

```

C11552 104000 HLT ;FEA NOT EQUAL TO FPI105
C11554 022767 000000 167220 CMP #000000,ANS1 ;DID 000000 GET STORED?
011562 001401 BEQ .+4 ;BRANCH IF OK
011564 104001 HLT+1 ;ANS1 NOT EQUAL TO 000000
011566 022767 000005 167210 CMP #5, ANS2 ;CONDITION CODES = 5?
011574 001401 BEQ .+4 ;BRANCH IF OK
011576 104002 HLT+2 ;WRONG CONDITION CODES!

```

```

:*****
:TEST 106: TEST STCFL (STORE-CONVERT FLOATING TO LONG)
: STORE 150000,000000 --> 100000,000000
: FPS = 047510, AC = AC2, DST = M6-R7
:*****

```

```

011600 104400 SCOPE
011602 000402 BR TST106
011604 150000 000000 DAT106: 150000,000000
C11610 170127 047500 TST106: LDFPS #047500 ;LOAD FLOATING POINT STATUS
011614 172667 177764 LDF DAT106, AC2 ;LOAD 150000,000000 INTO AC2
011620 175667 167156 FPI106: STCFL AC2, ANS1 ;STORE-CONVERT AC2 IN ANS1, ANS2
011624 013767 177776 167154 MOV #PS, ANS3 ;GET CPU STATUS
011632 042767 177760 167146 BIC #177760,ANS3 ;SAVE CONDITION CODES
011640 170200 STFPS FPS ;STORE FLOATING POINT STATUS
011642 022700 047510 CMP #047510,FPS ;CHECK FLOATING POINT STATUS
011646 001401 BEQ .+4 ;BRANCH IF OK
011650 104000 HLT ;FPS NOT EQUAL TO 047510
011652 022767 100000 167122 CMP #100000,ANS1 ;DID 100000 GET STORED?
011660 001401 BEQ .+4 ;BRANCH IF OK
011662 104002 HLT+2 ;ANS1 NOT EQUAL TO 100000
011664 022767 000000 167112 CMP #000000,ANS2 ;DID 000000 GET STORED?
011672 001401 BEQ .+4 ;BRANCH IF OK
011674 104002 HLT+2 ;ANS2 NOT EQUAL TO 000000
C11676 022767 000010 167102 CMP #10, ANS3 ;CONDITION CODES = 10?
C11704 001401 BEQ .+4 ;BRANCH IF OK
011706 104003 HLT+3 ;WRONG CONDITION CODES!

```

```

:*****
:TEST 107: TEST STCFL (STORE-CONVERT FLOATING TO LONG)
: STORE 150000,000001 --> 000000,000000
: FPS = 147505, AC = AC1, DST = M6-R7
: FEC = 6, FEA = FPI107
:*****

```

```

C11710 104400 SCOPE
011712 000402 BR TST107
011714 150000 000001 DAT107: 150000,000001

```

```

011720 170127 047500          TST107: LDFPS #047500          ;LOAD FLOATING POINT STATUS
011724 172567 177764          LDF DAT107, AC1          ;LOAD 150000,00000! INTO AC1
011730 175567 167046          FPI107: STCFL AC1, ANS1  ;STORE-CONVERT AC1 IN ANS1, ANS2
011734 013767 177776 167044  MOV 2#PS, ANS3          ;GET CPU STATUS
011742 042767 177760 167036  BIC #177760, ANS3       ;SAVE CONDITION CODES
011750 170200          STFPS FPS              ;STORE FLOATING POINT STATUS
011752 170367 167044          STST FEC              ;STORE EXCEPTION CODES
011756 022700 147505          CMP #147505, FPS       ;CHECK FLOATING POINT STATUS
011762 001401          BEQ .+4              ;BRANCH IF OK
011764 104000          HLT                  ;FPS NOT EQUAL TO 147505

011766 022767 000006 167026  CMP #6, FEC           ;CHECK FLOATING EXCEPTION CODE
011774 001401          BEQ .+4              ;BRANCH IF OK
011776 104000          HLT                  ;FEC NOT EQUAL TO 6

012000 022767 011730 167016  CMP #FPI107, FEA      ;CHECK FLOATING EXCEPTION ADDRESS
012006 001401          BEQ .+4              ;BRANCH IF OK
012010 104000          HLT                  ;FEA NOT EQUAL TO FPI107

012012 022767 000000 166762  CMP #000000, ANS1     ;DID 000000 GET STORED?
012020 001401          BEQ .+4              ;BRANCH IF OK
012022 104002          HLT+2              ;ANS1 NOT EQUAL TO 000000

012024 022767 000000 166752  CMP #000000, ANS2     ;DID 000000 GET STORED?
012032 001401          BEQ .+4              ;BRANCH IF OK
012034 104002          HLT+2              ;ANS2 NOT EQUAL TO 000000

012036 022767 000005 166742  CMP #5, ANS3          ;CONDITION CODES = 5?
012044 001401          BEQ .+4              ;BRANCH IF OK
012046 104003          HLT+3              ;WRONG CONDITION CODES!

```

```

;*****
;TEST 110: TEST STCFL (STORE-CONVERT FLOATING TO LONG)
;STORE 100000,000000 --> 000000,000000
;FPS = 047504, AC = ACO, DST = M6-R7
;*****

```

```

012050 104400          SCOPE
012052 000402          BR TST110

012054 100000 000000          DAT110: 100000,000000

012060 170127 040000          TST110: LDFPS #040000          ;LOAD FLOATING POINT STATUS
012064 172467 177764          LDF DAT110, ACO        ;LOAD 100000,000000 INTO ACO
012070 170127 047500          LDFPS #047500          ;LOAD FLOATING POINT STATUS
012074 175467 166702          STCFL ACO, ANS1       ;STORE-CONVERT ACO IN ANS1, ANS2
012100 013767 177776 166700  MOV 2#PS, ANS3          ;GET CPU STATUS
012106 042767 177760 166672  BIC #177760, ANS3       ;SAVE CONDITION CODES
012114 170200          STFPS FPS              ;STORE FLOATING POINT STATUS
012116 022700 047504          CMP #047504, FPS       ;CHECK FLOATING POINT STATUS
012122 001401          BEQ .+4              ;BRANCH IF OK
012124 104000          HLT                  ;FPS NOT EQUAL TO 047504

012126 022767 000000 166646  CMP #000000, ANS1     ;DID 000000 GET STORED?

```

```

012134 001401      BEQ      .+4      ;BRANCH IF OK
012136 104002      HLT+2      ;ANS1 NOT EQUAL TO 000000

012140 022767 000000 166636  CMP      #000000,ANS2 ;DID 000000 GET STORED?
012146 001401      BEQ      .+4      ;BRANCH IF OK
012150 104002      HLT+2      ;ANS2 NOT EQUAL TO 000000

012152 022767 000004 166626  CMP      #4,      ANS3 ;CONDITION CODES = 4?
012160 001401      BEQ      .+4      ;BRANCH IF OK
012162 104003      HLT+3      ;WRONG CONDITION CODES!

```

```

*****
:TEST 111:      TEST STCFL (STORE-CONVERT FLOATING TO LONG)
:      STORE 177777,177777 --> 000000,000000
:      FPS = 147505, AC = AC3,      DST = M6-R7
:      FEC = 6,      FEA = FPI111
*****

```

```

012164 104400      SCOPE
012166 000402      BR      TST111

012170 177777 177777  DAT111: 177777,177777

012171 170127 047500  TST111: LDFPS  #047500      ;LOAD FLOATING POINT STATUS
012200 172767 177764      LDF      DAT111, AC3 ;LOAD 177777,177777 INTO AC3
012204 175767 166572      FPI111: STCFL  AC3, ANS1 ;STORE-CONVERT AC3 IN ANS1, ANS2
012210 013767 177776 166570  MOV      @#PS, ANS3 ;GET CPU STATUS
012216 042767 177760 166562  BIC      #177760,ANS3 ;SAVE CONDITION CODES
012224 170200      STFPS  FPS ;STORE FLOATING POINT STATUS
012226 170367 166570      STST  FEC ;STORE EXCEPTION CODES
012232 022700 147505      CMP      #147505,FPS ;CHECK FLOATING POINT STATUS
012236 001401      BEQ      .+4      ;BRANCH IF OK
012240 104000      HLT ;FPS NOT EQUAL TO 147505

012242 022767 000006 166552  CMP      #6,      FEC ;CHECK FLOATING EXCEPTION CODE
012250 001401      BEQ      .+4      ;BRANCH IF OK
012252 104000      HLT ;FEC NOT EQUAL TO 6

012254 022767 012204 166542  CMP      #FPI111, FEA ;CHECK FLOATING EXCEPTION ADDRESS
012262 001401      BEQ      .+4      ;BRANCH IF OK
012264 104000      HLT ;FEA NOT EQUAL TO FPI111

012266 022767 000000 166506  CMP      #000000,ANS1 ;DID 000000 GET STORED?
012274 001401      BEQ      .+4      ;BRANCH IF OK
012276 104002      HLT+2 ;ANS1 NOT EQUAL TO 000000

012300 022767 000000 166476  CMP      #000000,ANS2 ;DID 000000 GET STORED?
012306 001401      BEQ      .+4      ;BRANCH IF OK
012310 104002      HLT+2 ;ANS2 NOT EQUAL TO 000000

012312 022767 000005 166466  CMP      #5,      ANS3 ;CONDITION CODES = 5?
012320 001401      BEQ      .+4      ;BRANCH IF OK
012322 104003      HLT+3 ;WRONG CONDITION CODES!

```

```

*****
TEST 112: TEST STCFL (STORE-CONVERT FLOATING TO LONG)
          STORE 000200,000000 --> 000000,000000
          FPS = 047504, AC = AC2, DST = M6-R7
*****

```

```

012332 000200 000000
012334 170127 047500
012335 172667 177764
012336 175667 166432
012337 013767 177776 166432
012338 042767 177760 166432
012339 170200
012340 022700 047504
012341 001401
012342 104000
012376 022767 000000 166376
012377 001401
012406 104002
012410 022767 000000 166356
012416 001401
012420 104002
012422 022767 000004 166356
012423 001401
012432 104003

```

```

SCOPE
BR TST112
DAT112: 000200,000000
TST112: LOFPS 0047500 :LOAD FLOATING POINT STATUS
          LDF DAT112, AC2 :LOAD 000200,000000 INTO AC2
          STCFL AC2, ANS1 :STORE-CONVERT AC2 IN ANS1, ANS2
          MOV 00PS, ANS3 :GET CPU STATUS
          BIC 0177760, ANS3 :SAVE CONDITION CODES
          STFPS FPS :STORE FLOATING POINT STATUS
          CMB 0047504, FPS :CHECK FLOATING POINT STATUS
          BEQ .+4 :BRANCH IF OK
          TLT+2 :FPS NOT EQUAL TO 047504
          CMB 000000, ANS1 :DID 000000 GET STORED?
          BEQ .+4 :BRANCH IF OK
          TLT+2 :ANS1 NOT EQUAL TO 000000
          CMB 000000, ANS2 :DID 000000 GET STORED?
          BEQ .+4 :BRANCH IF OK
          TLT+2 :ANS2 NOT EQUAL TO 000000
          CMB 04, ANS3 :CONDITION CODES = 4?
          BEQ .+4 :BRANCH IF OK
          TLT+3 :WRONG CONDITION CODES!

```

```

*****
TEST 113: TEST STCFL (STORE-CONVERT FLOATING TO LONG)
          STORE 100177,177777 --> 000000,000000
          FPS = 047504, AC = AC2, DST = M6-R7
*****

```

```

012434 104400
012436 000402
012440 100177 177777
012444 170127 040000
012445 172667 177764
012454 170127 047500
012460 175667 166316
012464 013767 177776 166314
012472 042767 177760 166306
012473 170200
012474 022700 047504
012475 001401
012476 104000

```

```

SCOPE
BR TST113
DAT113: 100177,177777
TST113: LOFPS 0040000 :LOAD FLOATING POINT STATUS
          LDF DAT113, AC2 :LOAD 100177,177777 INTO AC2
          LOFPS 0047500 :LOAD FLOATING POINT STATUS
          STCFL AC2, ANS1 :STORE-CONVERT AC2 IN ANS1, ANS2
          MOV 00PS, ANS3 :GET CPU STATUS
          BIC 0177760, ANS3 :SAVE CONDITION CODES
          STFPS FPS :STORE FLOATING POINT STATUS
          CMB 0047504, FPS :CHECK FLOATING POINT STATUS
          BEQ .+4 :BRANCH IF OK
          TLT+2 :FPS NOT EQUAL TO 047504

```

```

01:25:10 022767 000000 166262    CMP      #000000,ANS1    :DID 000000 GET STORED?
01:25:12 001401    BEG      .+4            :BRANCH IF OK
01:25:14 104004    HLT+2          :ANS1 NOT EQUAL TO 000000

01:25:24 022767 000000 166252    CMP      #000000,ANS2    :DID 000000 GET STORED?
01:25:26 001401    BEG      .+4            :BRANCH IF OK
01:25:28 104004    HLT+2          :ANS2 NOT EQUAL TO 000000

01:25:38 022767 000004 166242    CMP      #4,      ANS3    :CONDITION CODES = 4?
01:25:40 001401    BEG      .+4            :BRANCH IF OK
01:25:42 104004    HLT+3          :WRONG CONCITION CODES!

```

```

*****
:TEST 11:      TEST LDCLD (LOAD-CONVERT LONG TO DOUBLE)
:      LOAD    000000,000000 --> 000000,000000,000000,000000
:      FPS = 047704,   SRC = M6-R7,   AC = AC1
*****

```

```

01:25:50 104400    SCOPE
01:25:52 000402    BR      TEST114

01:25:54 000000 000000 000000 000000 000000 000000
DA*114: 000000,000000

01:25:56 170127 047700 047700 :LOAD FLOATING POINT STATUS
01:25:58 177167 177764 177764 :LDCLD  DAT:114, AC1 :LOAD-CONVERT 000000,000000 INTO AC1
01:26:00 170200 047704 047704 :STFPS  FPS :STORE FLOATING POINT STATUS
01:26:02 022700 047704 047704 :CMP     #047704,FPS :CHECK FLOATING POINT STATUS
01:26:04 001401    BEG      .+4            :BRANCH IF OK
01:26:06 104000    HLT      :FPS NOT EQUAL TO 047704

01:26:08 174167 166174 166166 :STC     AC1,      ANS1    :STORE AC1 IN ANS1 THRU ANS4
01:26:10 022767 000000 166166 :CMP     #000000,ANS1    :DID 000000 GET STORED?
01:26:12 001401    BEG      .+4            :BRANCH IF OK
01:26:14 104004    HLT+4          :ANS1 NOT EQUAL TO 000000

01:26:20 022767 000000 166156 :CMP     #000000,ANS2    :DID 000000 GET STORED?
01:26:22 001401    BEG      .+4            :BRANCH IF OK
01:26:24 104004    HLT+4          :ANS2 NOT EQUAL TO 000000

01:26:30 022767 000000 166146 :CMP     #000000,ANS3    :DID 000000 GET STORED?
01:26:32 001401    BEG      .+4            :BRANCH IF OK
01:26:34 104004    HLT+4          :ANS3 NOT EQUAL TO 000000

01:26:40 022767 000000 166136 :CMP     #000000,ANS4    :DID 000000 GET STORED?
01:26:42 001401    BEG      .+4            :BRANCH IF OK
01:26:44 104004    HLT+4          :ANS4 NOT EQUAL TO 000000

```

```

*****
:TEST 115:     TEST LDCLD (LOAD-CONVERT LONG TO DOUBLE)
:      LOAD    125252,125252 --> 147652,125252,126000,000000
:      FPS = 047710,   SRC = M6-R7,   AC = AC0
*****

```

```

01:26:56 104400    SCOPE

```

MANAGER: -DCFB-B

TEST OF DATA STORE

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```

012660 000402 BR TST115
012662 125252 125252 DAT115: 125252,125252
012666 170127 047700 *TST115: LDFPS #047700 :LOAD FLOATING POINT STATUS
012668 177764 177764 LDCLO DAT115, ACC :LOAD-CONVERT 125252,125252 INTO ACC
012670 022700 STFPS FPS :STORE FLOATING POINT STATUS
012672 001401 CMP #047710, FPS :CHECK FLOATING POINT STATUS
012674 104004 BEQ .+4 :BRANCH IF OK
012676 174367 166066 STD ACC, ANS1 :STORE ACC IN ANS1 THRU ANS4
012678 022767 147652 166060 CMP #147652, ANS1 :DID 147652 GET STORED?
012680 001401 BEQ .+4 :BRANCH IF OK
012682 104004 HL +4 :ANS1 NOT EQUAL TO 147652
012684 022767 125252 166050 CMP #125252, ANS2 :DID 125252 GET STORED?
012686 001401 BEQ .+4 :BRANCH IF OK
012688 104004 HL +4 :ANS2 NOT EQUAL TO 125252
012690 022767 126000 166040 CMP #126000, ANS3 :DID 126000 GET STORED?
012692 001401 BEQ .+4 :BRANCH IF OK
012694 104004 HL +4 :ANS3 NOT EQUAL TO 126000
012696 022767 000000 166030 CMP #000000, ANS4 :DID 000000 GET STORED?
012698 001401 BEQ .+4 :BRANCH IF OK
012700 104004 HL +4 :ANS4 NOT EQUAL TO 000000

```

```

*****
TEST 116: TEST LDCLO (LOAD-CONVERT LONG TO DOUBLE,
LOAD 052525,052525 --, 047652,125252,125000,000000
FPS = 047700, SRC = 16-R7, AC = ACC
*****

```

```

012764 104400 SCOPE
012766 000402 BR TST116
012770 052525 052525 DAT116: 052525,052525
012774 170127 047700 *TST116: LDFPS #047700 :LOAD FLOATING POINT STATUS
013000 177367 177764 LDCLO DAT116, ACC :LOAD-CONVERT 052525,052525 INTO ACC
013004 170200 STFPS FPS :STORE FLOATING POINT STATUS
013006 022700 CMP #047700, FPS :CHECK FLOATING POINT STATUS
013012 001401 BEQ .+4 :BRANCH IF OK
013014 104004 HL +4 :FPS NOT EQUAL TO 047700
013016 174367 165760 STD ACC, ANS1 :STORE ACC IN ANS1 THRU ANS4
013022 022767 047652 165752 CMP #047652, ANS1 :DID 047652 GET STORED?
013030 001401 BEQ .+4 :BRANCH IF OK
013032 104004 HL +4 :ANS1 NOT EQUAL TO 047652
013034 022767 125252 165742 CMP #125252, ANS2 :DID 125252 GET STORED?
013040 001401 BEQ .+4 :BRANCH IF OK
013042 104004 HL +4 :ANS2 NOT EQUAL TO 125252

```

E05

TEST SECTION

TEST OF LDCLD, STCLD

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013046	022767	125000	165732	CMP	#125000,ANS3	:DID 125000 GET STORED?
013054	001401			BEG	.+4	:BRANCH IF OK
013056	104004			HLT+4		:ANS3 NOT EQUAL TO 125000
013060	022767	000000	165722	CMP	#000000,ANS4	:DID 000000 GET STORED?
013066	001401			BEG	.+4	:BRANCH IF OK
013071	104004			HLT+4		:ANS4 NOT EQUAL TO 000000

```

*****
TEST 117: TEST LDCLD (LOAD-CONVERT LONG TO DOUBLE)
          LUMU 000000,000001 --> 040200,000000,000000,000000
          FPS = 047700, SRC = M6-R7, AC = AC2
*****

```

013072	104400			SCOPE		
013074	000402			BR	TST117	
013076	000000	000001		DATA117:	000000,000001	
013102	170127	047700		TST117: LD FPS	#047700	:LOAD FLOATING POINT STATUS
013106	177267	177764		LDCLD	DATA117, AC2	:LOAD-CONVERT 000000 000001 INTO AC2
013112	173200			ST FPS	FPS	:STORE FLOATING POINT STATUS
013114	022700	047700		BEG	#047700,FPS	:CHECK FLOATING POINT STATUS
013120	001401			BEG	.+4	:BRANCH IF OK
013126	104004			HLT+4		:FPS NOT EQUAL TO 047700
013134	174267	165652		STO	AC2, ANS1	:STORE AC2 IN ANS1 THRU ANS4
013136	022767	040200	165644	CMP	#040200,ANS1	:DID 040200 GET STORED?
013138	001401			BEG	.+4	:BRANCH IF OK
013140	104004			HLT+4		:ANS1 NOT EQUAL TO 040200
013142	022767	000000	165634	CMP	#000000,ANS2	:DID 000000 GET STORED?
013150	001401			BEG	.+4	:BRANCH IF OK
013152	104004			HLT+4		:ANS2 NOT EQUAL TO 000000
013154	022767	000000	165624	CMP	#000000,ANS3	:DID 000000 GET STORED?
013162	001401			BEG	.+4	:BRANCH IF OK
013164	104004			HLT+4		:ANS3 NOT EQUAL TO 000000
013166	022767	000000	165614	CMP	#000000,ANS4	:DID 000000 GET STORED?
013174	001401			BEG	.+4	:BRANCH IF OK
013176	104004			HLT+4		:ANS4 NOT EQUAL TO 000000

```

*****
TEST 120: TEST LDCLD (LOAD-CONVERT LONG TO DOUBLE)
          LOAD 177777,177777 --> 140200,000000,000000,000000
          FPS = 047710, SRC = M6-R7, AC = AC1
*****

```

013200	104400			SCOPE		
013202	000402			BR	TST120	
013204	177777	177777		DATA120:	177777,177777	

F05

MANAGER-11-00F01-B
TEST SECTION

TEST OF LDCXJ, STCXJ
TEST SECTION

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```

013210 170127 047700 *ST120: LDFPS #047700 :LOAD FLOATING POINT STATUS
013214 177167 177764 LDCLD DAT120, AC1 :LOAD-CONVERT 177777,177777 INTO AC1
013220 170200 STFPS FPS :STORE FLOATING POINT STATUS
013222 022700 047710 CMP #047710, FPS :CHECK FLOATING POINT STATUS
013226 001401 BEQ .+4 :BRANCH IF OK
013230 104000 HLT :FPS NOT EQUAL TO 047710

013232 174167 165544 STC AC1, ANS1 :STORE AC1 IN ANS1 THRU ANS4
013236 022767 140200 165536 CMP #140200, ANS1 :DID 140200 GET STORED?
013244 001401 BEQ .+4 :BRANCH IF OK
013246 104004 HLT+4 :ANS1 NOT EQUAL TO 140200

013250 022767 000000 165526 CMP #000000, ANS2 :DID 000000 GET STORED?
013256 001401 BEQ .+4 :BRANCH IF OK
013260 104004 HLT+4 :ANS2 NOT EQUAL TO 000000

013262 022767 000000 165516 CMP #000000, ANS3 :DID 000000 GET STORED?
013270 001401 BEQ .+4 :BRANCH IF OK
013272 104004 HLT+4 :ANS3 NOT EQUAL TO 000000

013274 022767 000000 165506 CMP #000000, ANS4 :DID 000000 GET STORED?
013282 001401 BEQ .+4 :BRANCH IF OK
013284 104004 HLT+4 :ANS4 NOT EQUAL TO 000000

```

```

*****
:TEST 121: TEST LDCLD (LOAD-CONVERT LONG TO DOUBLE)
: LOAD 100000,000000 --> 150000,000000,000000,000000
: FPS = 047710, SRC = M6-R7, AC = ACC
*****

```

```

013306 104400 SCOPE
013310 000402 BR TST121

013312 100000 000000 DAT121: 100000,000000

013316 170127 047700 TST121: LDFPS #047700 :LOAD FLOATING POINT STATUS
013322 177067 177764 LDCLD DAT121, ACC :LOAD-CONVERT 100000,000000 INTO ACC
013326 170200 STFPS FPS :STORE FLOATING POINT STATUS
013330 022700 047710 CMP #047710, FPS :CHECK FLOATING POINT STATUS
013334 001401 BEQ .+4 :BRANCH IF OK
013336 104000 HLT :FPS NOT EQUAL TO 047710

013340 174067 165436 STC ACC, ANS1 :STORE ACC IN ANS1 THRU ANS4
013344 022767 150000 165430 CMP #150000, ANS1 :DID 150000 GET STORED?
013352 001401 BEQ .+4 :BRANCH IF OK
013354 104004 HLT+4 :ANS1 NOT EQUAL TO 150000

013356 022767 000000 165420 CMP #000000, ANS2 :DID 000000 GET STORED?
013364 001401 BEQ .+4 :BRANCH IF OK
013366 104004 HLT+4 :ANS2 NOT EQUAL TO 000000

013370 022767 000000 165410 CMP #000000, ANS3 :DID 000000 GET STORED?
013376 001401 BEQ .+4 :BRANCH IF OK
013380 104004 HLT+4 :ANS3 NOT EQUAL TO 000000

```

```

013430 022767 000000 165400      CMP      #000000,ANS4      :DID 000000 GET STORED?
013432 001401                      BEQ                      :BRANCH IF OK
013434 104004                      HLT+4                    :ANS4 NOT EQUAL TO 000000

```

```

*****
:TEST 122:      TEST LDCLD (LOAD-CONVERT LONG TO DOUBLE)
:              LOAD      077777,177777 --> 047777,177777,177000,000000
:              FPS = 047700, SRC = M6-R7, AC = AC3
*****

```

```

013436 104400      SCOPE
013438 000400      SR      TST122

013440 077777 177777      DAT122: 077777,177777

013442 170127 047700      TST122: LDFPS      #047700      :LOAD FLOATING POINT STATUS
013444 177367 177764      LDCLD      DAT122, AC3      :LOAD-CONVERT 077777,177777 INTO AC3
013446 170200      STFPS      FPS              :STORE FLOATING POINT STATUS
013448 022700 047700      CMP      #047700,FPS      :CHECK FLOATING POINT STATUS
013450 001401                      BEQ                      :BRANCH IF OK
013452 104004                      HLT+4                    :FPS NOT EQUAL TO 047700

013454 174367 165330      STD      AC3, ANS1          :STORE AC3 IN ANS1 THRU ANS4
013456 022767 047777 165322      CMP      #047777,ANS1      :DID 047777 GET STORED?
013458 001401                      BEQ                      :BRANCH IF OK
013460 104004                      HLT+4                    :ANS1 NOT EQUAL TO 047777

013462 022767 177777 165312      CMP      #177777,ANS2      :DID 177777 GET STORED?
013464 001401                      BEQ                      :BRANCH IF OK
013466 104004                      HLT+4                    :ANS2 NOT EQUAL TO 177777

013468 022767 177000 165302      CMP      #177000,ANS3      :DID 177000 GET STORED?
013470 001401                      BEQ                      :BRANCH IF OK
013472 104004                      HLT+4                    :ANS3 NOT EQUAL TO 177000

013474 022767 000000 165272      CMP      #000000,ANS4      :DID 000000 GET STORED?
013476 001401                      BEQ                      :BRANCH IF OK
013478 104004                      HLT+4                    :ANS4 NOT EQUAL TO 000000

```

```

*****
:TEST 123:      TEST LDCLD (LOAD-CONVERT LONG TO DOUBLE)
:              LOAD      000125 --> 045652,000000,000000,000000
:              FPS = 047700, SC = M2-R7, AC = AC2
*****

```

```

013520 104400      SCOPE
013522 170127 047700      TST123: LDFPS      #047700      :LOAD FLOATING POINT STATUS
013524 177227 000125      LDCLD      000125,AC2      :LOAD-CONVERT 000125 INTO AC2
013526 170200      STFPS      FPS              :STORE FLOATING POINT STATUS
013528 022700 047700      CMP      #047700,FPS      :CHECK FLOATING POINT STATUS
013530 001401                      BEQ                      :BRANCH IF OK
013532 104004                      HLT+4                    :FPS NOT EQUAL TO 047700

013534 174267 165230      STD      AC2, ANS1          :STORE AC2 IN ANS1 THRU ANS4

```

H05

TEST OF DCJX, STCXJ
TEST SECTION

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013552	022767	045652	165222	CMP	#045652,ANS1	:DID 045652 GET STORED?
013560	001401			BEG	.+4	:BRANCH IF OK
013562	104004			HLT+4		:ANS1 NOT EQUAL TO 045652
013564	022767	000000	165212	CMP	#000000,ANS2	:DID 000000 GET STORED?
013572	001401			BEG	.+4	:BRANCH IF OK
013574	104004			HLT+4		:ANS2 NOT EQUAL TO 000000
013576	022767	000000	165202	CMP	#000000,ANS3	:DID 000000 GET STORED?
013604	001401			BEG	.+4	:BRANCH IF OK
013606	104004			HLT+4		:ANS3 NOT EQUAL TO 000000
013610	022767	000000	165172	CMP	#000000,ANS4	:DID 000000 GET STORED?
013616	001401			BEG	.+4	:BRANCH IF OK
013620	104004			HLT+4		:ANS4 NOT EQUAL TO 000000

 TEST 124: TEST LDCLD (LOAD-CONVERT LONG TO DOUBLE)
 LOAD 070707 --> 047743, 107000, 000000, 000000
 FPS = 047700, SRC = M0-R1, AC = AC1

013622	104400			SCOPE		
013624	170127	047700		LDFPS	#047700	:LOAD FLOATING POINT STATUS
013630	012701	070707		MOV	#070707,R1	:LOAD 070707 INTO R1
013634	177101			LDCLD	R1 AC1	:LOAD-CONVERT 070707 INTO AC1
013636	170200			STFPS	FPS	:STORE FLOATING POINT STATUS
013640	022700	047700		CMP	#047700,FPS	:CHECK FLOATING POINT STATUS
013644	001401			BEG	.+4	:BRANCH IF OK
013646	104000			HLT		:FPS NOT EQUAL TO 047700
013650	174167	165126		STD	AC1 ANS1	:STORE AC1 IN ANS1 THRU ANS4
013654	022767	047743	165120	CMP	#047743,ANS1	:DID 047743 GET STORED?
013662	001401			BEG	.+4	:BRANCH IF OK
013664	104004			HLT+4		:ANS1 NOT EQUAL TO 047743
013666	022767	107000	165110	CMP	#107000,ANS2	:DID 107000 GET STORED?
013674	001401			BEG	.+4	:BRANCH IF OK
013676	104004			HLT+4		:ANS2 NOT EQUAL TO 107000
013700	022767	000000	165100	CMP	#000000,ANS3	:DID 000000 GET STORED?
013706	001401			BEG	.+4	:BRANCH IF OK
013710	104004			HLT+4		:ANS3 NOT EQUAL TO 000000
013712	022767	000000	165070	CMP	#000000,ANS4	:DID 000000 GET STORED?
013720	001401			BEG	.+4	:BRANCH IF OK
013722	104004			HLT+4		:ANS4 NOT EQUAL TO 000000

 TEST 125: TEST LDCLD (LOAD-CONVERT LONG TO DOUBLE)
 LDCLD 107070,107070 --> 147743,107343,110000,000000
 FPS = 047710, SRC = M6-R7, AC = AC3

CHANGES-1-DCFPJ-B
DCFPJ.B11

TEST OF DCJX, STCXJ
TEST SECTION

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013724 104400
013726 000402

SCOPE
BR TST125

013730 107070 107070

DAT125: 107070,107070

013734 170127 047700
013740 177367 177764
013744 170200
013746 022700 047710
013752 001401
013754 104000

*ST125: LDFPS #047700
LOCLD DAT125, AC3
STFPS FPS
CMP #047710,FPS
SEQ .+4
HLT

:LOAD FLOATING POINT STATUS
:LOAD-CONVERT 107070,107070 INTO AC3
:STORE FLOATING POINT STATUS
:CHECK FLOATING POINT STATUS
:BRANCH IF OK
:FPS NOT EQUAL TO 047710

013756 174367 165020
013762 022767 147743 165012
013770 001401
013772 104004

STD AC3, ANS1
CMP #147743,ANS1
BEQ .+4
HLT+4

:STORE AC3 IN ANS1 THRU ANS4
:DID 147743 GET STORED?
:BRANCH IF OK
:ANS1 NOT EQUAL TO 147743

013774 022767 107343 165002
014002 001401
014004 104004

CMP #107343,ANS2
BEQ .+4
HLT+4

:DID 107343 GET STORED?
:BRANCH IF OK
:ANS2 NOT EQUAL TO 107343

014006 022767 110000 164772
014014 001401
014016 104004

CMP #110000,ANS3
BEQ .+4
HLT+4

:DID 110000 GET STORED?
:BRANCH IF OK
:ANS3 NOT EQUAL TO 110000

014020 022767 000000 164762
014026 001401
014030 104004

CMP #000000,ANS4
SEQ .+4
HLT+4

:DID 000000 GET STORED?
:BRANCH IF OK
:ANS4 NOT EQUAL TO 000000

:TEST 126: TEST STCDL (STORE-CONVERT DOUBLE TO LONG)
:STORE 000000,000000,000000,000000 --> 000000,000000
:FPS = 047704, AC = AC2, DST = M6-R7

014032 104400
014034 000404

SCOPE
BR TST126

014036 000000 000000 000000
014044 000000 DAT126: 000000,000000,000000,000000

014046 170127 047700
014052 172667 177760
014056 175667 164720
014062 013767 177776 164716
014070 042767 177760 164710
014076 170200
014100 022700 047704
014104 001401
014106 104000

*ST126: LDFPS #047700
LDD DAT126, AC2
STCDL AC2, ANS1
MOV #FPS, ANS3
BIC #177760,ANS3
STFPS FPS
CMP #047704,FPS
BEQ .+4
HLT

:LOAD FLOATING POINT STATUS
:LOAD 000000,000000,000000,000000 INTO AC2
:STORE-CONVERT AC2 IN ANS1, ANS2
:GET CPU STATUS
:SAVE CONDITION CODES
:STORE FLOATING POINT STATUS
:CHECK FLOATING POINT STATUS
:BRANCH IF OK
:FPS NOT EQUAL TO 047704

014110 022767 000000 164664
014116 001401
014120 104002

CMP #000000,ANS1
BEQ .+4
HLT+2

:DID 000000 GET STORED?
:BRANCH IF OK
:ANS1 NOT EQUAL TO 000000

```

014122 022767 000000 164654    CMP    #000000,ANS2    ;DID 000000 GET STORED?
014130 001401                BEQ    .+4              ;BRANCH IF OK
014132 104002                HLT+2                    ;ANS2 NOT EQUAL TO 000000

014134 022767 000004 164644    CMP    #4,    ANS3      ;CONDITION CODES = 4?
014142 001401                BEQ    .+4              ;BRANCH IF OK
014144 104003                HLT+3                    ;WRONG CONDITION CODES!

```

```

:*****
:TEST 127:    TEST STCDL (STORE-CONVERT DOUBLE TO LONG)
:             STORE  041252,125252,125252,125252 --> 000000
:             FPS = 047700,    AC = AC1,    DST = M2-R7
:*****

```

```

014146 104400                SCOPE
014150 000404                BR    TST127

014152 041252 125252 125252  DAT127: 041252,125252,125252,125252
014160 125252

014162 170127 047700    TST127: LDFPS    #047700    ;LOAD FLOATING POINT STATUS
014166 172567 177760    LDD    DAT127, AC1    ;LOAD 041252,125252,125252,125252 INTO AC1
014172 175527                STCDL  AC1,    (PC)+  ;STORE-CONVERT AC1 IN .+2
014174 000000                ANR127: 0
014176 000402                BR    .+6
014200 000000                HALT                    ;PC FAILURE
014202 000000                HALT
014204 013767 177776 164572    MOV    #FPS,    ANS2    ;GET CPU STATUS
014212 042767 177760 164564    BIC    #177760,ANS2    ;SAVE CONDITION CODES
014220 016767 177750 164554    MOV    ANR127, ANS1    ;SAVE THE ANSWER
014226 170200                STFPS                    ;STORE FLOATING POINT STATUS
014230 022700 047700    CMP    #047700,FPS    ;CHECK FLOATING POINT STATUS
014234 001401                BEQ    .+4              ;BRANCH IF OK
014236 104000                HLT                    ;FPS NOT EQUAL TO 047700

014240 022767 000000 164534    CMP    #000000,ANS1    ;DID 000000 GET STORED?
014246 001401                BEQ    .+4              ;BRANCH IF OK
014250 104001                HLT+1                    ;ANS1 NOT EQUAL TO 000000

014252 022767 000000 164524    CMP    #0,    ANS2      ;CONDITION CODES = 0?
014260 001401                BEQ    .+4              ;BRANCH IF OK
014262 104002                HLT+2                    ;WRONG CONDITION CODES!

```

```

:*****
:TEST 130:    TEST STCDL (STORE-CONVERT DOUBLE TO LONG)
:             STORE  141252,125252,125252,125252 --> 177777
:             FPS = 047710,    AC = AC3,    DST = M0-R0
:*****

```

```

014264 104400                SCOPE
014266 000404                BR    TST130

014270 141252 125252 125252  DAT130: 141252,125252,125252,125252
014276 125252

```

K05

MAINDEC-11-DCFPJ-B
DCFPJ.P11

TEST OF LDCJX, STCXJ
TEST SECTION

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```

014300 170127 047700          TST130: LDFPS      #047700          ;LOAD FLOATING POINT STATUS
014304 172767 177760          LDD      DAT130, AC3      ;LOAD 141252,125252,125252,125252 INTO AC3
014310 175700          STCDL   AC3,      RO      ;STORE-CONVERT AC3 IN RO
014312 013767 177776 164464  MOV     @#PS,     ANS2    ;GET CPU STATUS
014320 042767 177760 164456  BIC     #177760, ANS2    ;SAVE CONDITION CODES
014326 010067 164450          MOV     RO,      ANS1    ;SAVE RO
014332 170200          STFPS   FPS          ;STORE FLOATING POINT STATUS
014334 022700 047710          CMP     #047710, FPS     ;CHECK FLOATING POINT STATUS
014340 001401          BEQ     .+4          ;BRANCH IF OK
014342 104000          HLT                    ;FPS NOT EQUAL TO 047710

014344 022767 177777 164430  CMP     #177777, ANS1    ;DID 177777 GET STORED?
014352 001401          BEQ     .+4          ;BRANCH IF OK
014354 104001          HLT+1                ;ANS1 NOT EQUAL TO 177777

014356 022767 000010 164420  CMP     #10,      ANS2    ;CONDITION CODES = 10?
014364 001401          BEQ     .+4          ;BRANCH IF OK
014366 104002          HLT+2                ;WRONG CONDITION CODES!

```

```

:*****
:TEST 131:      TEST STCDL (STORE-CONVERT DOUBLE TO LONG)
:              STORE 040177,177777,177777,177777 --> 000000,000000
:              FPS = 047704, AC = AC2, DST = M6-R7
:*****

```

```

014370 104400          SCOPE
014372 000404          BR      TST131

014374 040177 177777 177777  DAT131: 040177,177777,177777,177777
014402 177777

```

```

014404 170127 047700          TST131: LDFPS      #047700          ;LOAD FLOATING POINT STATUS
014410 172667 177760          LDD     DAT131, AC2      ;LOAD 040177,177777,177777,177777 INTO AC2
014414 175667 164362          STCDL  AC2,      ANS1    ;STORE-CONVERT AC2 IN ANS1, ANS2
014420 013767 177776 164360  MOV     @#PS,     ANS3    ;GET CPU STATUS
014426 042767 177760 164352  BIC     #177760, ANS3    ;SAVE CONDITION CODES
014434 170200          STFPS   FPS          ;STORE FLOATING POINT STATUS
014436 022700 047704          CMP     #047704, FPS     ;CHECK FLOATING POINT STATUS
014442 001401          BEQ     .+4          ;BRANCH IF OK
014444 104000          HLT                    ;FPS NOT EQUAL TO 047704

014446 022767 000000 164326  CMP     #000000, ANS1    ;DID 000000 GET STORED?
014454 001401          BEQ     .+4          ;BRANCH IF OK
014456 104002          HLT+2                ;ANS1 NOT EQUAL TO 000000

014460 022767 000000 164316  CMP     #000000, ANS2    ;DID 000000 GET STORED?
014466 001401          BEQ     .+4          ;BRANCH IF OK
014470 104002          HLT+2                ;ANS2 NOT EQUAL TO 000000

014472 022767 000004 164306  CMP     #4,      ANS3    ;CONDITION CODES = 4?
014500 001401          BEQ     .+4          ;BRANCH IF OK
014502 104003          HLT+3                ;WRONG CONDITION CODES!

```

```

*****
:TEST 132: TEST STCDL (STORE-CONVERT DOUBLE TO LONG)
: STORE 140177,177777,177777,177777 --> 000000,000000
: FPS = 047704, AC = AC0, DST = M6-R7
*****

```

014504 104400
014506 000404

SCOPE
BR TST132

014510 140177 177777 177777 DAT132: 140177,177777,177777,177777
014516 177777

014520 170127 047700 TST132: LDFPS #047700 ;LOAD FLOATING POINT STATUS
014524 172467 177760 LDD DAT132, AC0 ;LOAD 140177,177777,177777,177777 INTO AC0
014530 175467 164246 STCDL AC0, ANS1 ;STORE-CONVERT AC0 IN ANS1, ANS2
014534 013767 177776 164244 MOV @#PS, ANS3 ;GET CPU STATUS
014542 042767 177760 164236 BIC #177760,ANS3 ;SAVE CONDITION CODES
014550 170200 STFPS FPS ;STORE FLOATING POINT STATUS
014552 022700 047704 CMP #047704,FPS ;CHECK FLOATING POINT STATUS
014556 001401 BEQ .+4 ;BRANCH IF OK
014560 104000 HLT ;FPS NOT EQUAL TO 047704

014562 022767 000000 164212 CMP #000000,ANS1 ;DID 000000 GET STORED?
014570 001401 BEQ .+4 ;BRANCH IF OK
014572 104002 HLT+2 ;ANS1 NOT EQUAL TO 000000

014574 022767 000000 164202 CMP #000000,ANS2 ;DID 000000 GET STORED?
014602 001401 BEQ .+4 ;BRANCH IF OK
014604 104002 HLT+2 ;ANS2 NOT EQUAL TO 000000

014606 022767 000004 164172 CMP #4, ANS3 ;CONDITION CODES = 4?
014614 001401 BEQ .+4 ;BRANCH IF OK
014616 104003 HLT+3 ;WRONG CONDITION CODES!

```

*****
:TEST 133: TEST STCDL (STORE-CONVERT DOUBLE TO LONG)
: STORE 040200,000001,000001,000001 --> 000000,000001
: FPS = 047700, AC = AC3, DST = M6-R7
*****

```

014620 104400
014622 000404

SCOPE
BR TST133

014624 040200 000001 000001 DAT133: 040200,000001,000001,000001
014632 000001

014634 170127 047700 TST133: LDFPS #047700 ;LOAD FLOATING POINT STATUS
014640 172767 177760 LDD DAT133, AC3 ;LOAD 040200,000001,000001,000001 INTO AC3
014644 175767 164132 STCDL AC3, ANS1 ;STORE-CONVERT AC3 IN ANS1, ANS2
014650 013767 177776 164130 MOV @#PS, ANS3 ;GET CPU STATUS
014656 042767 177760 164122 BIC #177760,ANS3 ;SAVE CONDITION CODES
014664 170200 STFPS FPS ;STORE FLOATING POINT STATUS
014666 022700 047700 CMP #047700,FPS ;CHECK FLOATING POINT STATUS
014672 001401 BEQ .+4 ;BRANCH IF OK
014674 104000 HLT ;FPS NOT EQUAL TO 047700

MOS

MAINDEC-11-CCFPJ-B
CCFPJ.P11

TEST OF LDCJX, STCXJ
TEST SECTION

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```

014676 022767 000000 164076    CMP    #000000,ANS1    ;DID 000000 GET STORED?
014704 001401    BEQ    .+4            ;BRANCH IF OK
014706 104002    HLT+2                ;ANS1 NOT EQUAL TO 000000

014710 022767 000001 164066    CMP    #000001,ANS2    ;DID 000001 GET STORED?
014716 001401    BEQ    .+4            ;BRANCH IF OK
014720 104002    HLT+2                ;ANS2 NOT EQUAL TO 000001

014722 022767 000000 164056    CMP    #0,    ANS3     ;CONDITION CODES = 0?
014730 001401    BEQ    .+4            ;BRANCH IF OK
014732 104003    HLT+3                ;WRONG CONDITION CODES!

```

```

:*****
:TEST 134:    TEST STCDL (STORE-CONVERT DOUBLE TO LONG)
:             STORE 140200,000001,000001,000001 --> 177777,177777
:             FPS = 047710,    AC = AC1,    DST = M6-R7
:*****

```

```

014734 104400    SCOPE
014736 000404    BR    TST134

014740 140200 000001 000001 DAT134: 140200,000001,000001,000001
014746 000001

014750 170127 047700    TST134: LDFPS    #047700    ;LOAD FLOATING POINT STATUS
014754 172567 177760    LDD    DAT134, AC1    ;LOAD 140200,000001,000001,000001 INTO AC1
014760 175567 164015    STCDL AC1,    ANS1    ;STORE-CONVERT AC1 IN ANS1, ANS2
014764 013767 177776 164014    MOV    2#PS,    ANS3    ;GET CPU STATUS
014772 042767 177760 164006    BIC    #177760,ANS3    ;SAVE CONDITION CODES
015000 170200    STFPS    FPS    ;STORE FLOATING POINT STATUS
015002 022700 047710    CMP    #047710,FPS    ;CHECK FLOATING POINT STATUS
015006 001401    BEQ    .+4            ;BRANCH IF OK
015010 104000    HLT                ;FPS NOT EQUAL TO 047710

015012 022767 177777 163762    CMP    #177777,ANS1    ;DID 177777 GET STORED?
015020 001401    BEQ    .+4            ;BRANCH IF OK
015022 104002    HLT+2                ;ANS1 NOT EQUAL TO 177777

015024 022767 177777 163752    CMP    #177777,ANS2    ;DID 177777 GET STORED?
015032 001401    BEQ    .+4            ;BRANCH IF OK
015034 104002    HLT+2                ;ANS2 NOT EQUAL TO 177777

015036 022767 000010 163742    CMP    #10,    ANS3     ;CONDITION CODES = 10?
015044 001401    BEQ    .+4            ;BRANCH IF OK
015046 104003    HLT+3                ;WRONG CONDITION CODES!

```

```

:*****
:TEST 135:    TEST STCDL (STORE-CONVERT DOUBLE TO LONG)
:             STORE 047777,177777,177777,177777 --> 077777,177777
:             FPS = 047700,    AC = ACC,    DST = M6-R7
:*****

```

```

015050 104400    SCCPE

```



```

015052 000404 BR TST135
015054 047777 177777 177777 DAT135: 047777,177777,177777,177777
015062 177777

015064 170127 047700 TST135: LDFPS #047700 ;LOAD FLOATING POINT STATUS
015070 172467 177760 LDD DAT135, AC0 ;LOAD 047777,177777,177777,177777 INTO AC0
015074 175467 163702 STCDL AC0, ANS1 ;STORE-CONVERT AC0 IN ANS1, ANS2
015100 013767 177776 163700 MOV @#PS, ANS3 ;GET CPU STATUS
015106 042767 177760 163672 BIC #177760,ANS3 ;SAVE CONDITION CODES
015114 170200 STFPS FPS ;STORE FLOATING POINT STATUS
015116 022700 047700 CMP #047700,FPS ;CHECK FLOATING POINT STATUS
015122 001401 BEQ .+4 ;BRANCH IF OK
015124 104000 HLT ;FPS NOT EQUAL TO 047700

015126 022767 077777 163546 CMP #077777,ANS1 ;DID 077777 GET STORED?
015134 001401 BEQ .+4 ;BRANCH IF OK
015136 104002 HLT+2 ;ANS1 NOT EQUAL TO 077777

015140 022767 177777 163536 CMP #177777,ANS2 ;DID 177777 GET STORED?
015146 001401 BEQ .+4 ;BRANCH IF OK
015150 104002 HLT+2 ;ANS2 NOT EQUAL TO 177777

015152 022767 000000 163626 CMP #0, ANS3 ;CONDITION CODES = 0?
015160 001401 BEQ .+4 ;BRANCH IF OK
015162 104003 HLT+3 ;WRONG CONDITION CODES!

```

```

*****
;TEST 136: TEST STCDL (STORE-CONVERT DOUBLE TO LONG)
;STORE 050000,000000,000000,000000 --> 000000,000000
;FPS = 147705, AC = AC2, DST = M6-R7
*****

```

```

015164 104400 SCOPE
015166 000404 BR TST136

015170 050000 000000 000000 DAT136: 050000,000000,000000,000000
015176 000000

015200 170127 047700 TST136: LDFPS #047700 ;LOAD FLOATING POINT STATUS
015204 172667 177760 LDD DAT135, AC2 ;LOAD 050000,000000,000000,000000 INTO AC2
015210 175667 163566 STCDL AC2, ANS1 ;STORE-CONVERT AC2 IN ANS1, ANS2
015214 013767 177776 163566 MOV @#PS, ANS3 ;GET CPU STATUS
015222 042767 177760 163566 BIC #177760,ANS3 ;SAVE CONDITION CODES
015230 170200 STFPS FPS ;STORE FLOATING POINT STATUS
015232 170367 163564 STST FEC ;STORE EXCEPTION CODES
015236 022700 147705 CMP #147705,FPS ;CHECK FLOATING POINT STATUS
015242 001401 BEQ .+4 ;BRANCH IF OK
015244 104000 HLT ;FPS NOT EQUAL TO 147705

015246 022767 000006 163546 CMP #6, FEC ;CHECK FLOATING EXCEPTION CODE
015254 001401 BEQ .+4 ;BRANCH IF OK
015256 104000 HLT ;FEC NOT EQUAL TO 6

015260 022767 000000 163514 CMP #000000,ANS1 ;DID 000000 GET STORED?

```

MIPS OF ... STORE

... ..

....
.....
.....

..... :63524

BEG
ALT+2 .+4

:BRANCH IF OK
:ANS1 NOT EQUAL TO 000000

....
.....
.....

..... :63474

BEG
ALT+3 .+4 ANS3

:CONDITION CODES = 5?
:BRANCH IF OK
:WRONG CONDITION CODES!

TEST 137: TEST STCDL (STORE-CONVERT DOUBLE TO LONG)
STORE 150000.000000,000377,177777 --, 100000.000000
FPS = 047710, AC = ACC, DST = M6-R7

....
.....

SCOPE
BR *ST137

....
.....

000000 000377 CAT137: 150000.000000,000377,177777

....
.....
.....
.....
.....
.....

047700
.....
.....
.....
047710

*ST137: LOAD FPS
CAT137, ACC
ANS1
ANS2
ANS3
FPS
047710, FPS
.*4

:LOAD FLOATING POINT STATUS
:LOAD 150000,000000,000377,177777 INTO ACC
:STORE-CONVERT ACC IN ANS1, ANS2
:GET CPU STATUS
:SAVE CONDITION CODES
:STORE FLOATING POINT STATUS
:CHECK FLOATING POINT STATUS
:BRANCH IF OK
:FPS NOT EQUAL TO 047710

....
.....
.....

..... :63400

BEG
ALT+2 .+4 ANS1

:DID 100000 GET STORED?
:BRANCH IF OK
:ANS1 NOT EQUAL TO 100000

....
.....
.....

..... :63370

BEG
ALT+2 .+4 ANS2

:DID 000000 GET STORED?
:BRANCH IF OK
:ANS2 NOT EQUAL TO 000000

....
.....
.....

..... :63360

BEG
ALT+3 .+4 ANS3

:CONDITION CODES = 10?
:BRANCH IF OK
:WRONG CONDITION CODES!

TEST 140: TEST STCDL (STORE-CONVERT DOUBLE TO LONG)
STORE 150000.000000,000400,000000 --, 000000.000000
FPS = 147205, AC = ACC, DST = M6-R7

....
.....

SCOPE
BR *ST140

TEST OF COX, STCX
SECTION

01:5579 022767 000000 000400 047140: 150000,000000,000400,000000
01:5580 000000

01:5581 022767 000000 163216 *57140: LDFPS 0047700 :LOAD FLOATING POINT STATUS
01:5582 000000 :LDD 047140, AC3 :LOAD 150000,000000,000400,000000 INTO AC3
01:5583 000000 :STCDL AC3, ANS1 :STORE-CONVERT AC3 IN ANS1, ANS2
01:5584 000000 :MOV 08PS, ANS3 :GET CPU STATUS
01:5585 000000 :SUBRT 0177760, ANS3 :SAVE CONDITION CODES
01:5586 000000 :STFPS :STORE FLOATING POINT STATUS
01:5587 000000 :STEC :STORE EXCEPTION CODES
01:5588 000000 :SUBRT 0147705, FPS :CHECK FLOATING POINT STATUS
01:5589 000000 :BR 4 :BRANCH IF OK
01:5590 000000 :FPS NOT EQUAL TO 147705

01:5591 022767 000000 163200 :CHECK FLOATING EXCEPTION CODE
01:5592 000000 :BR 4 :BRANCH IF OK
01:5593 000000 :FEC NOT EQUAL TO 6

01:5594 022767 000000 163246 :DID 000000 GET STORED?
01:5595 000000 :BR 4 :BRANCH IF OK
01:5596 000000 :ANS1 NOT EQUAL TO 000000

01:5597 022767 000000 163236 :DID 000000 GET STORED?
01:5598 000000 :BR 4 :BRANCH IF OK
01:5599 000000 :ANS2 NOT EQUAL TO 000000

01:5600 022767 000000 163226 :CONDITION CODES = 5?
01:5601 000000 :BR 4 :BRANCH IF OK
01:5602 000000 :WRONG CONDITION CODES!

TEST 141: TEST STCDL (STORE-CONVERT DOUBLE TO LONG
STORE 100000,000000,000000,000000 --, 000000,000000
FPS = 047704, AC = AC1, DST = 16-R7

01:5603 104400
01:5604 000404
BR TST141

01:5605 100000 000000 000000 047141: 100000,000000,000000,000000
01:5606 000000

01:5607 170127 040200 *57141: LDFPS 0040200 :LOAD FLOATING POINT STATUS
01:5608 172567 177760 :LDD 047141, AC1 :LOAD 100000,000000,000000,000000 INTO AC1
01:5609 170127 047700 :LDFPS 0047700 :LOAD FLOATING POINT STATUS
01:5610 175567 163162 :STCDL AC1, ANS1 :STORE-CONVERT AC1 IN ANS1, ANS2
01:5611 013767 177776 :MOV 08PS, ANS3 :GET CPU STATUS
01:5612 042767 177760 :SUBRT 0177760, ANS3 :SAVE CONDITION CODES
01:5613 170200 :STFPS :STORE FLOATING POINT STATUS
01:5614 022700 047704 :STEC :STORE EXCEPTION CODES
01:5615 000400 :SUBRT 0047704, FPS :CHECK FLOATING POINT STATUS
01:5616 104000 :BR 4 :BRANCH IF OK
01:5617 000000 :FPS NOT EQUAL TO 047704

01:5618 022767 000000 163126 :DID 000000 GET STORED?
01:5619 000000 :BR 4 :BRANCH IF OK
01:5620 000000 :ANS1 NOT EQUAL TO 000000

TEST OF COPY STONJ
TEST SECTION

TEST OF COPY STONJ
TEST SECTION

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```

01:57:03 022767 000000 163116      CMP      #000000,ANS2      :DID 000000 GET STORED?
01:57:04 022767 000000 163117      BEQ      .+4                :BRANCH IF OK
01:57:05 022767 000000 163118      HLT+2                :ANS2 NOT EQUAL TO 000000

01:57:06 022767 000004 163106      CMP      #4,ANS3          :CONDITION CODES = 4?
01:57:07 022767 000004 163107      BEQ      .+4                :BRANCH IF OK
01:57:08 022767 000004 163108      HLT+3                :WRONG CONDITION CODES!

```

```

*****
:TEST 142: TEST STCDL (STORE-CONVERT DOUBLE TO LONG)
:STORE 177777,177777,177777,177777 --> 000000,000000
:FPS = 147705, AC = AC3, DST = M6-R7
*****

```

```

01:57:09 022767 000400      SCOPE
01:57:10 000400      BR      TEST142

01:57:11 177777 177777 177777 DAT142: 177777,177777,177777,177777
01:57:16 177777

01:57:20 170127 047700      TEST142: LDFPS      #047700      :LOAD FLOATING POINT STATUS
01:57:21 172767 177760      LD      DAT142,AC3      :LOAD 177777,177777,177777,177777 INTO AC3
01:57:22 175767 163046      STCDL   AC3,ANS1       :STORE-CONVERT AC3 IN ANS1,ANS2
01:57:23 013767 177776      MOV     #0PS,ANS3      :GET CPU STATUS
01:57:24 042767 177760      BIC     #177760,ANS3   :SAVE CONDITION CODES
01:57:25 170200      STFPS   FPS            :STORE FLOATING POINT STATUS
01:57:26 170367 163044      STST    FEC           :STORE EXCEPTION CODES
01:57:27 022700 147705      CMB     #147705,FPS    :CHECK FLOATING POINT STATUS
01:57:28 001401      BEQ     .+4            :BRANCH IF OK
01:57:29 104000      HLT+2                :FPS NOT EQUAL TO 147705

01:57:30 022767 000006 163026      CMP     #6,FEC         :CHECK FLOATING EXCEPTION CODE
01:57:31 001401      BEQ     .+4            :BRANCH IF OK
01:57:32 104000      HLT+2                :FEC NOT EQUAL TO 6

01:60:00 022767 000000 162774      CMP     #000000,ANS1   :DID 000000 GET STORED?
01:60:01 001401      BEQ     .+4            :BRANCH IF OK
01:60:02 104000      HLT+2                :ANS1 NOT EQUAL TO 000000

01:60:12 022767 000000 162764      CMP     #000000,ANS2   :DID 000000 GET STORED?
01:60:13 001401      BEQ     .+4            :BRANCH IF OK
01:60:14 104000      HLT+2                :ANS2 NOT EQUAL TO 000000

01:60:24 022767 000005 162754      CMP     #5,ANS3        :CONDITION CODES = 5?
01:60:25 001401      BEQ     .+4            :BRANCH IF OK
01:60:26 104000      HLT+3                :WRONG CONDITION CODES!

```

```

*****
:TEST 143: TEST STCDL (STORE-CONVERT DOUBLE TO LONG)
:STORE 100177,177777,177777,177777 --> 000000,000000
:FPS = 047704, AC = AC3, DST = M6-R7
*****

```

01:60:33 104000

SCOPE

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TEST OF LCFPS, STCXJ
TEST SECTION

016042 000404

BR TST143

016042 100177 177777 177777 DAT143: 100177,177777,177777,177777
016050 177777

016052 170127 043200
016055 172767 177760
016060 170127 047700
016065 175767 162710
016070 013767 177776 162706
016075 042767 177760 162700
016080 170200
016085 022700 047704
016090 001401
016096 104000

TST143: LCFPS 0040200
LDD DAT143 AC3
LCFPS 0047700
STCDL AC3 ANS1
MOV 00PS ANS3
BIC 0177760,ANS3
STFPS FPS
CMP 0047704,FPS
BEQ .+4
HLT

:LOAD FLOATING POINT STATUS
:LOAD 100177,177777,177777,177777 :4% AC3
:LOAD FLOATING POINT STATUS
:STORE-CONVERT AC3 IN ANS1, ANS2
:GET CPU STATUS
:SAVE CONDITION CODES
:STORE FLOATING POINT STATUS
:CHECK FLOATING POINT STATUS
:BRANCH IF OK
:FPS NOT EQUAL TO 047704

016120 022767 000000 162654
016126 001401
016130 104002

CMP 000000,ANS1
BEQ .+4
HL +2

:DID 000000 GET STORED?
:BRANCH IF OK
:ANS1 NOT EQUAL TO 000000

016132 022767 000000 162644
016140 001401
016142 104002

CMP 000000,ANS2
BEQ .+4
HL +2

:DID 000000 GET STORED?
:BRANCH IF OK
:ANS2 NOT EQUAL TO 000000

016144 022767 000004 162634
016150 001401
016152 104002

CMP 04, ANS3
BEQ .+4
HL +2

:CONDITION CODES = 4?
:BRANCH IF OK
:WRONG CONDITION CODES!

F06

TEST OF LDUBX STCXJ
SELL AND SCOPE ROUTINE

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Address	Hex	Label	Op	Op2	Op3	Op4	Comment
016260	000002		RTI				35: RETURN TO PROGRAM FROM TRAP
016262	032737	000400	177570	.EMT:	BIT	#SW08,2#SWR	:KILL LDUB OR LOOP ON SPEC. TEST
016270	001404				BEQ	IS	
016272	123767	177570	162500		CMPB	2#SWR,ICNT	:ON RIGHT TEST? *SW7-C*
016300	001437				BEQ	OVER	
016302	113703	177570		13:	MOVB	2#SWR,R3	:GET UB BITS
016306	170003				LDUB		
016310	032737	040000	177570		BIT	#SW14,2#SWR	:LOOP ON TEST
016316	001026				BNE	KIT	
016320	032737	004000	177570		BIT	#SW11,2#SWR	:KILL ITERATIONS
016326	001012				BNE	SAVLAD	
016330	105767	162445			TSTB	ICNT+1	
016334	001404				BEQ	2\$	:BRANCH IF FIRST
016336	126767	001106	162435		CMPB	TIMES,ICNT+1	:DONE?
016344	001013				BNE	KIT	:BRANCH IF NOT
016346	112767	000001	162425	2\$:	MOVB	#1,ICNT+1	:FIRST ITERATION
016354	105267	162420		SAVLAD:	INCB	ICNT	:COUNT TEST NUMBERS
016360	011667	001060			MOV	(6) LAD	:SAVE LOOP ADDRESS
016364	016737	162410	177570		MOV	ICNT,2#DISPLAY	:DISPLAY TEST NO. AND ITERATION COUNT
016372	000002				RTI		:RETURN
016374	105267	162401		KIT:	INCB	ICNT+1	
016400	016737	162374	177570	OVER:	MOV	ICNT,3#DISPLAY	:SET UP DISPLAY
016406	005767	001032			TST	LAD	:FIRST ONE?
016412	001760				BEQ	SAVLAD	
016418	016716	001024			MOV	LAD,(6)	:PUDGE RETURN ADDRESS
016424	000002				RTI		:FINISH UP

```

0016400 032737 002000 177570 .TRP: BIT      #SW10,2#SWR      :BELL ON ERROR?
0016402 001405          BEQ      IS              :NO - SKIP
0016404 012767 000207 001000          MOV      #BELL,TYPE  :TYPE A BELL
0016406 000004 017440          TYPE     .TYPE
0016408 004767 000406          JSR      PC,ERROR    :COUNT THE NUMBER OF ERRORS
0016410 010446          MOV      R4,-(6)
0016412 032737 020000 177570          BIT      #SW13,2#SWR :SKIP TYPEOUT IF SET
0016414 001072          BNE     4$
0016416 000004 017406          TYPE     RETURN
0016418 016646 000002          MOV      2(6),-(6)   :PUT ADDRESS OF INSTRUCTION ON STACK
0016420 162716 000002          SUB     #2,(6)
0016422 011605          MOV     (6),TTY      :TYPE (6) IN OCTAL
0016500 004767 000212          JSR     %7,PRINTR   :TYPE LEADING ZERO'S
0016502 000004 017414          TYPE     SPACE+3
0016510 010005          MOV     R0,TTY      :TYPE R0 IN OCTAL
0016512 004767 000200          JSR     %7,PRINTR   :TYPE LEADING ZERO'S
0016514 000004 017415          TYPE     SPACE+4
0016522 012703 001002          MOV     #ANS1,R3    :ADDRESS OF DATA
0016524 113604          MOVVB  2(6)+,R4     :AMOUNT OF DATA IN TABLE
0016530 001426          BEQ     3$
0016532 100016          BP     2$
0016534 016667 000006 162240          MOV     6(6),ANS1
0016536 016667 000010 162234          MOV     10(6),ANS2
0016538 016667 000012 162230          MOV     12(6),ANS3
0016540 016667 000014 162224          MOV     14(6),ANS4
0016542 042704 177600          BZC    #177600,R4  :CLEAR SIGN
0016544 000004 017415          TYPE     SPACE+4
0016546 012305          MOV     (3)+,TTY    :TYPE (3) + IN OCTAL
0016548 004767 000114          JSR     %7,PRINTR   :TYPE LEADING ZERO'S
0016550 005304          DEC     R4
0016552 001371          BNE     2$
0016554 005700          TST    FPS
0016556 100016          BP     4$
0016558 000004 017411          TYPE     SPACE
0016560 170367 162200          STC    FEC
0016562 016705 162174          MOV     FEC,TTY     :TYPE FEC IN OCTAL
0016564 004767 000064          JSR     %7,PRINTR   :TYPE LEADING ZERO'S
0016566 000004 017414          TYPE     SPACE+3
0016568 016705 162162          MOV     FEA,TTY     :TYPE FEA IN OCTAL
0016570 004767 00005C          JSR     %7,PRINTR   :TYPE LEADING ZERO'S
0016572 012604          MOV     (6)+,R4
0016574 005737 177570          TST    2#SWR
0016576 100001          BPL    .+4
0016578 000000          HALT
0016580 032737 001000 177570          BIT      #SW09,2#SWR :CHECK FOR INHIBIT LOOP ON ERROR
0016582 001001          BNE     .+4
0016584 000002          RPT    1
0016586 105067 162103          CLAB  ICNT+1
0016588 032737 000400 177570          BIT      #SW08,2#SWR :CHECK FOR LOAD MICROBREAK
0016590 001233          BNE     K11
0016592 000000          MOV     2#SWR,R3
0016594 000000          BR     K11
0016596          :LOOP ON TEST UNTIL NO ERRORS

```

H06

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TEST OF LOCIX, STCXJ
OCTAL DUMP OF A WORD

```
000001 000130 PRINTR: MOVB #1,R4S ;SET ZERO FILL SWITCH
000402 BR ;+6
005067 000122 PRINTS: CLR R4S ;SUPPRESS LEADING ZERO'S
112767 177772 000115 MOVB #6,R4S+1 ;SET COUNT
010446 MOV R4,R4S+1 ;SAVE R4
012704 017044 MOV #35,R4 ;SET POINTER TO FIRST ASCII CHAR.
105014 CLRB ;CLEAR FIRST BYTE
000405 BR ;ROTATE FIRST BIT
105014 :S: CLRB ;CLEAR BYTE OF CHARACTER
006105 ROL ;ROTATE BIT INTO C
106114 ROLB ;PACK IT
006105 ROL ;ROTATE BIT INTO C
106114 ROLB ;PACK IT
006105 :E: ROL ;ROTATE BIT INTO C
106114 ROLB ;PACK IT
016770 105714 1STB ;
016772 001402 BEQ ;+6
016774 105267 000054 INCB ;+6
017000 105767 000050 1STB ;+6
017004 001402 BEQ ;+6
017006 152724 000060 B1SB ;+6
017012 105267 000037 INCB ;+6
017016 001355 BNE ;S
017030 022704 017044 CMP #35,R4 ;REPEAT
017024 001002 BNE ;+6
017026 112724 000060 MOVB #0,R4+1 ;
017032 105014 CLRB ;(4)
017034 000004 017044 TYPE ;35
017040 012604 MOV #6)+,R4 ;RESTORE R4
017042 000207 RTS ;PC

017044 000004 :S: .BLKW 4
017054 000000 :E: 0

017056 005267 000364 ERROR: INC ERRORS ;COUNT ERRORS
017062 132737 000001 000041 BITB #1,2041 ;AUTO MODE?
017070 001412 BEQ ;S ;NO!
017072 022767 000010 000346 CMP #10,ERRORS ;TOO MANY?
017100 001006 BNE ;S ;NOT YET
017102 013700 000042 MOV #2042,R0 ;GET ADDRESS
017106 001403 BEQ ;S ;FORGET IT IF ZERO
017110 005037 000042 CLRB ;TAP 42
017114 004710 MOV #0,R0 ;CALL THE MONITOR
017118 000207 :E: ;RETURN
```


MANDEC - - - - -
POWER DOWN AND UP ROUTINES

TEST OF LDCIX, STCXJ MACY11 27.732) 17-SEP-76 10:47 PAGE 73

```

017214 000306 POWDOWN: MOV #ILLUP, @UPVEC :SET FOR FAST UP
000340 000302 MOV #340, @UPVEC+2 :PRIC:7
STFPS -(6) :GET THE FPS
SETD :
STD ACC, -(6) :SAVE AC'S
STD AC1, -(6)
STD AC2, -(6)
STD AC3, -(6)
LDD AC4, ACC
STD AC0, -(6)
LDD AC5, ACC
STD AC0, -(6)
MOV R0, -(6) :SAVE REGISTERS
MOV R1, -(6)
MOV R2, -(6)
MOV R3, -(6)
MOV R4, -(6)
MOV R5, -(6)
MOV SP, SAVE6 :SAVE SP
000220 000226 MOV #POWUP, @UPVEC :SET UP VECTOR
017200 012777 017210 000226 MOV #POWUP, @UPVEC :SET UP VECTOR
017206 000000 HALT

017210 016706 000204 POWUP: MOV SAVE6, SP :GET SP
017214 005001 CLR R1 :WAIT LOOP FOR THE TTY
017216 005201 IS: INC R1
017220 001376 BNE IS
017222 012605 MOV (6)+, R5 :GET THE REGISTERS
017224 012604 MOV (6)+, R4
017226 012603 MOV (6)+, R3
017230 012602 MOV (6)+, R2
017232 012601 MOV (6)+, R1
017234 012600 MOV (6)+, R0
017236 170011 SETD :
017240 172426 LDD (6)+, ACC :RESTORE THE AC'S
017242 174005 STD ACC, AC5
017244 172426 LDD (6)+, ACC
017246 174004 STD ACC, AC4
017250 172726 LDD (6)+, AC3
017252 172626 LDD (6)+, AC2
017254 172526 LDD (6)+, AC1
017256 172426 LDD (6)+, ACC
017260 170126 LDFPS (6)+ :RESTORE FPS
017263 012777 017120 000140 MOV #POWDOWN, @DOWNVEC :SET UP THE POWER DOWN VECTOR
017270 012777 000340 000134 MOV #340, @DOWNVEC+2
017276 000004 017302 TYPE ..+2 :.ASCIZ <15><12>"POWER"
017312 000002 RTN

017314 000000 ILLUP: HALT
017316 000076 SP --2
:THE POWER UP SEQUENCE WAS STARTED
:BEFORE THE POWER DOWN WAS COMPLETE

```

```

017320 010546          .IOT:  MOV      TTY-(6)      :SAVE TTY
017322 017605 000002  MOV      2(6),TTY    :GET ADDRESS TO BE TYPED
017326 105715          IS:   TSTB     (TTY)      :TERMINATOR?
017330 001406          BEQ      2$          :
017332 112537 177566  MOVB    (TTY)+2,177566 :LOAD AND TYPE THE CHARACTER
017336 105737 177564  TSTB    2,177564     :IS THE PRINTER READY?
017342 100375          BPL      .-4        :
017344 000770          BR       1$          :GET THE NEXT CHARACTER
017346 017646 000002  ES:   MOV      2(6),-(6) :GET ADDRESS TO BE TYPED
017352 062766 000002 000004  ADD      2,4(6)      :ADD 2 TO THE ADDRESS
017360 022666 000002  CMP     (6)+,2(6)    :IS IT .+2?
017364 001006          BNE     3$          :NO
017366 062705 000002  ADD     2,TTY        :ADD 2 TO THE ADDRESS
017372 042705 000001  BIC     1,TTY        :BACK UP TO AN EVEN BYTE
017376 010566 000002  MOV     TTY,2(6)     :RESTORE ADDRESS
017402 012605          3$:   MOV     (6)+,TTY  :RESTORE TTY
017404 000002          RTI                    :RETURN

017406 005015          000  RETURN: .ASCIZ  <15><12>  :RETURN AND LINEFEED
017411          015 020012 020040 SPACE: .ASCIZ  <15><12>  :RETURN AND 3 SPACES
017416          000

017420 017420          .EVEN
017420 000000          SAVE6: 0
017422 172160          FPTADR: 172160      :FLOATING POINT ADDRESS ON THE 11 20
017424 000244 000246  FPVECT: 244,246    :FLOATING POINT VECTOR ADDRESS
017430 000024 000026  DWNVEC: 24,26     :POWER DOWN VECTOR ADDRESS
017434 000024 000026  UPVEC:  24,26     :POWER UP VECTOR ADDRESS
017440 000000          .TYPE: 0
017442 000000          TRPB:  0
017444 000000          LAD:   0           :LOOP ADDRESS
017446 000000          ERRORS: 0         :ERROR COUNT
017450 000377          TIMES: 277       :ITERATION COUNT
017450 000001          .END

```

ACC	=:000000	391*	517*	523	541*	547	589*	595	718*	719	748*	749	808*	809
		959*	960	998*	999	1100*	1101	1202*	1208	1234*	1240	1495*	1501	1655*
		1657	1932*	1933	2034*	2040	2167*	2173	2223*	2229	2279*	2285	2477*	2478
		2545*	2546	2699*	2701	2883*	2889	3027*	3033	3339*	3340	3444*	3445	3513*
		3520	3841	3845*	3846	3847*	3848	3870*	3871	3872*	3873	3877*		
ACC	=:000001	392*	469*	475	493*	499	662*	658	898*	899	928*	929	1175*	1177
		1298*	1304	1330*	1336	1362*	1368	1431*	1437	1463*	1469	1625*	1626	1781*
		1782	1899*	1901	2090*	2096	2341*	2342	2409*	2410	2656*	2657	2847*	2853
		2991*	2997	3128*	3134	3236*	3237	3409*	3410	3593*	3595	3842	3876*	
ACC	=:000002	393*	613*	619	637*	643	690*	696	838*	839	862*	869	1140*	1141
		1395*	1401	1594*	1595	1749*	1750	1854*	1855	2003*	2005	2142*	2148	2195*
		2201	2251*	2257	2307*	2308	2443*	2444	2511*	2512	2561*	2582	2621*	2622
		2778*	2779	2812*	2814	2955*	2961	3095*	3101	3201*	3202	3304*	3305	3479*
		3480	3843	3875*										
ACC	=:000003	394*	565*	571	778*	779	1029*	1030	1068*	1070	1266*	1272	1522*	1523
		1563*	1554	1687*	1688	1718*	1719	1821*	1822	1972*	1973	2062*	2068	2110*
		2124	2375*	2376	2735*	2736	2919*	2925	3063*	3069	3164*	3170	3272*	3273
		3374*	3375	3554*	3555	3629*	3630	3668*	3670	3844	3874*			
ACC	=:000004	395*	3845	3873*										
ACS	=:000005	396*	3847	3871*										
ANR104	011360	2547*	2553											
ANR127	014174	3238*	3244											
ANR30	003700	1142*	1148											
ANR56	006604	1856*	1862											
ANS1	001002	425*	475*	476	499*	500	523*	524	547*	548	571*	572	595*	596
		619*	620	643*	644	668*	669	696*	697	719*	727	749*	757	779*
		787	809*	817	839*	847	869*	877	899*	907	929*	937	960*	977
		999*	1007	1030*	1047	1070*	1078	1104*	1119	1148*	1154	1177*	1185	1209*
		1209	1240*	1241	1272*	1273	1304*	1305	1336*	1337	1368*	1369	1401*	1402
		1437*	1438	1469*	1470	1501*	1502	1533*	1541	1564*	1572	1595*	1603	1626*
		1634	1657*	1665	1688*	1696	1719*	1727	1750*	1758	1782*	1799	1825*	1831
		1862*	1877	1901*	1909	1933*	1950	1973*	1981	2005*	2013	2040*	2041	2068*
		2069	2096*	2097	2124*	2125	2148*	2149	2173*	2174	2201*	2202	2229*	2230
		2257*	2258	2285*	2286	2308*	2316	2342*	2350	2376*	2384	2410*	2418	2444*
		2452	2478*	2486	2512*	2520	2553*	2559	2585*	2600	2622*	2630	2657*	2674
		2701*	2709	2736*	2753	2779*	2787	2814*	2822	2853*	2854	2889*	2890	2925*
		2926	2961*	2962	2997*	2998	3033*	3034	3069*	3070	3101*	3102	3134*	3135
		3170*	3171	3202*	3210	3244*	3250	3276*	3282	3305*	3313	3340*	3348	3375*
		3383	3410*	3418	3445*	3453	3480*	3493	3520*	3528	3555*	3568	3595*	3603
		3630*	3643	3670*	3678	3757	3761*							
ANS2	001004	426*	480	504	528	552	576	600	624	648	673	701	720*	721*
		731	750*	751*	761	780*	791	791	810*	811*	821	840*	841*	851
		870*	871*	881	900*	901*	911	930*	931*	941	961*	962*	981	1000*
		1001*	1011	1031*	1032*	1051	1071*	1072*	1082	1102*	1103*	1123	1145*	1147*
		1158	1178*	1179*	1189	1213	1245	1277	1309	1341	1373	1406	1442	1474
		1506	1534*	1535*	1545	1565*	1566*	1576	1596*	1597*	1607	1627*	1628*	1638
		1658*	1659*	1669	1689*	1690*	1700	1720*	1721*	1731	1751*	1752*	1762	1783*
		1784*	1803	1823*	1824*	1835	1860*	1861*	1881	1902*	1903*	1913	1934*	1935*
		1954	1974*	1975*	1985	2006*	2007*	2017	2045	2073	2101	2129	2153	2178
		2206	2234	2262	2290	2320	2354	2388	2422	2456	2490	2524	2551*	2552*
		2563	2583*	2584*	2604	2634	2678	2713	2757	2791	2826	2858	2894	2930
		2966	3002	3038	3074	3106	3139	3175	3214	3242*	3243*	3254	3274*	3275*
		3286	3317	3352	3387	3422	3457	3497	3532	3572	3607	3647	3682	3762*
ANS3	001006	427*	1217	1249	1281	1313	1345	1377	1410	1446	1478	1510	2309*	2310*
		2324	2343*	2344*	2358	2377*	2378*	2392	2411*	2412*	2426	2445*	2446*	2450*
		2473*	2493*	2494	2513*	2514*	2528	2523*	2524*	2538	2558*	2559*	2562	2563*

FPI14 003210
FPI15 002306
FPI16 002404
FPI17 002502
FPI20 002600
FPI21 002676
FPI22 002774
FPI23 003072
FPI24 003220
FPI25 003316
FPI27 003546
FPI44 005324
FPI45 005426
FPI46 005530
FPI47 005632
FPI50 005734
FPI51 006036
FPI52 006140
FPI53 006242
FPI54 006344
FPI56 006602
FPI60 007056
FPI61 007210
FPI75 010366
FPI76 010476
FPI77 010606
FPS =%000000

749#
779#
809#
839#
869#
899#
929#
960# 973
999#
1030# 1043
1101# 1115
1533#
1564#
1595#
1626#
1657#
1688#
1719#
1750#
1782# 1795
1855# 1873
1933# 1946
1973#
2308#
2342#
2376#

381#	418*	470*	471	494*	495	518*	519	542*	543	566*	567	590*
591	614*	615	638*	639	663*	664	691*	692	722*	723	752*	753
782*	783	812*	813	842*	843	872*	873	902*	903	932*	933	963*
965	1002*	1003	1033*	1035	1073*	1074	1105*	1107	1149*	1150	1180*	1181
1203*	1204	1235*	1236	1267*	1268	1299*	1300	1331*	1332	1363*	1364	1396*
1397	1432*	1433	1464*	1465	1496*	1497	1536*	1537	1567*	1568	1598*	1599
1629*	1630	1660*	1661	1691*	1692	1722*	1723	1753*	1754	1785*	1787	1826*
1827	1863*	1865	1904*	1905	1936*	1938	1976*	1977	2008*	2009	2035*	2036
2063*	2064	2091*	2092	2119*	2120	2143*	2144	2168*	2169	2196*	2197	2224*
2225	2252*	2253	2280*	2281	2311*	2312	2345*	2346	2379*	2380	2413*	2414
2447*	2448	2481*	2482	2515*	2516	2554*	2555	2586*	2588	2625*	2626	2660*
2662	2704*	2705	2739*	2741	2782*	2783	2817*	2818	2848*	2849	2884*	2885
2920*	2921	2956*	2957	2992*	2993	3026*	3029	3064*	3065	3096*	3097	3129*
3130	3165*	3166	3205*	3206	3245*	3246	3277*	3279	3308*	3309	3343*	3344
3378*	3379	3413*	3414	3448*	3449	3483*	3495	3523*	3524	3559*	3560	3598*
3599	3633*	3635	3673*	3674	3771							
442	3909#											
456*	457*	3910#										
378#	473	478	482	497	502	506	521	526	530	545	550	554
569	574	578	593	598	602	617	622	626	641	646	650	666
671	675	694	699	703	725	729	733	755	759	763	785	789
793	815	819	823	845	849	853	875	879	883	905	909	913
925	939	943	967	971	975	979	983	1005	1009	1013	1037	1041
1045	1049	1053	1076	1080	1084	1109	1113	1117	1121	1125	1152	1156
1160	1183	1187	1191	1206	1211	1215	1219	1223	1238	1243	1247	1251
1255	1270	1275	1279	1283	1287	1302	1307	1311	1315	1319	1334	1339
1342	1347	1351	1366	1371	1375	1379	1383	1399	1404	1408	1412	1416
1435	1440	1444	1448	1452	1467	1472	1476	1480	1484	1499	1504	1508
1512	1516	1539	1543	1547	1570	1574	1578	1601	1605	1609	1632	1636
1640	1663	1667	1671	1694	1698	1702	1725	1729	1733*	1756	1760	1764

FPTADR 017422
FPVECT 017424
HLT = 104000

דפדפן - ריפוי
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 דפדפן - ריפוי
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 דפדפן - ריפוי
 12:45

ההודעה הזאת היא לטובת המערכת ולטובת המנהל
 והיא אינה מהווה תעודת מחויבות או אישור
 על אף שהיא מכילה פרטים אישיים.
 מס' תעודת זהות: 1234567890
 כתובת: תל אביב-יפו, רחוב המדע 123
 טלפון: 03-12345678
 תאריך: 17.09.1976

TABLE --- USER SYMBOLS

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TABLE --- USER SYMBOLS

TABLE --- USER SYMBOLS

MACY1: 27 (732) STOCKS INDEX OF REFERENCE TABLE -- USER SYMBOLS

Symbol	Description	Value	Symbol	Description	Value
330	330	...	...
331	331	...	...
332	332	...	...
333	333	...	...
334	334	...	...
335	335	...	...
336	336	...	...
337	337	...	...
338	338	...	...
339	339	...	...
340	340	...	...
341	341	...	...
342	342	...	...
343	343	...	...
344	344	...	...
345	345	...	...
346	346	...	...
347	347	...	...
348	348	...	...
349	349	...	...
350	350	...	...

MACY 11 27 (732) STOCKS PERMANENT SYMBOLS TABLE OF REFERENCE

4500	1000	3784	3785	3786	3789	3815	3817	3831	3862	3891
5550	1000	3740	3747	3746	3770	3803	3817	3831	3862	3891
6500	1000	3722	3727	3746	3770	3803	3817	3831	3862	3891
7500	1000	3722	3727	3746	3770	3803	3817	3831	3862	3891
8500	1000	3722	3727	3746	3770	3803	3817	3831	3862	3891
9500	1000	3722	3727	3746	3770	3803	3817	3831	3862	3891
10500	1000	3722	3727	3746	3770	3803	3817	3831	3862	3891
11500	1000	3722	3727	3746	3770	3803	3817	3831	3862	3891
12500	1000	3722	3727	3746	3770	3803	3817	3831	3862	3891
13500	1000	3722	3727	3746	3770	3803	3817	3831	3862	3891
14500	1000	3722	3727	3746	3770	3803	3817	3831	3862	3891
15500	1000	3722	3727	3746	3770	3803	3817	3831	3862	3891
16500	1000	3722	3727	3746	3770	3803	3817	3831	3862	3891
17500	1000	3722	3727	3746	3770	3803	3817	3831	3862	3891
18500	1000	3722	3727	3746	3770	3803	3817	3831	3862	3891
19500	1000	3722	3727	3746	3770	3803	3817	3831	3862	3891
20500	1000	3722	3727	3746	3770	3803	3817	3831	3862	3891
21500	1000	3722	3727	3746	3770	3803	3817	3831	3862	3891
22500	1000	3722	3727	3746	3770	3803	3817	3831	3862	3891
23500	1000	3722	3727	3746	3770	3803	3817	3831	3862	3891
24500	1000	3722	3727	3746	3770	3803	3817	3831	3862	3891
25500	1000	3722	3727	3746	3770	3803	3817	3831	3862	3891
26500	1000	3722	3727	3746	3770	3803	3817	3831	3862	3891
27500	1000	3722	3727	3746	3770	3803	3817	3831	3862	3891
28500	1000	3722	3727	3746	3770	3803	3817	3831	3862	3891
29500	1000	3722	3727	3746	3770	3803	3817	3831	3862	3891
30500	1000	3722	3727	3746	3770	3803	3817	3831	3862	3891
31500	1000	3722	3727	3746	3770	3803	3817	3831	3862	3891
32500	1000	3722	3727	3746	3770	3803	3817	3831	3862	3891
33500	1000	3722	3727	3746	3770	3803	3817	3831	3862	3891
34500	1000	3722	3727	3746	3770	3803	3817	3831	3862	3891
35500	1000	3722	3727	3746	3770	3803	3817	3831	3862	3891
36500	1000	3722	3727	3746	3770	3803	3817	3831	3862	3891
37500	1000	3722	3727	3746	3770	3803	3817	3831	3862	3891
38500	1000	3722	3727	3746	3770	3803	3817	3831	3862	3891
39500	1000	3722	3727	3746	3770	3803	3817	3831	3862	3891
40500	1000	3722	3727	3746	3770	3803	3817	3831	3862	3891

1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000

TEST OF CROSS REFERENCE TABLE -- PERMANENT SYMBOLS

MACY 11 27 (732)

1599	1603	1607	1630	1634	1638	1661	1665	1669	1692	1696	1700	1704	1708	1712	1716	1720	1724	1728	1732	1736	1740	1744	1748	1752	1756	1760	1764	1768	1772	1776	1780	1784	1788	1792	1796	1800	1804	1808	1812	1816	1820	1824	1828	1832	1836	1840	1844	1848	1852	1856	1860	1864	1868	1872	1876	1880	1884	1888	1892	1896	1900	1904	1908	1912	1916	1920	1924	1928	1932	1936	1940	1944	1948	1952	1956	1960	1964	1968	1972	1976	1980	1984	1988	1992	1996	2000	2004	2008	2012	2016	2020	2024	2028	2032	2036	2040	2044	2048	2052	2056	2060	2064	2068	2072	2076	2080	2084	2088	2092	2096	2100	2104	2108	2112	2116	2120	2124	2128	2132	2136	2140	2144	2148	2152	2156	2160	2164	2168	2172	2176	2180	2184	2188	2192	2196	2200	2204	2208	2212	2216	2220	2224	2228	2232	2236	2240	2244	2248	2252	2256	2260	2264	2268	2272	2276	2280	2284	2288	2292	2296	2300	2304	2308	2312	2316	2320	2324	2328	2332	2336	2340	2344	2348	2352	2356	2360	2364	2368	2372	2376	2380	2384	2388	2392	2396	2400	2404	2408	2412	2416	2420	2424	2428	2432	2436	2440	2444	2448	2452	2456	2460	2464	2468	2472	2476	2480	2484	2488	2492	2496	2500	2504	2508	2512	2516	2520	2524	2528	2532	2536	2540	2544	2548	2552	2556	2560	2564	2568	2572	2576	2580	2584	2588	2592	2596	2600	2604	2608	2612	2616	2620	2624	2628	2632	2636	2640	2644	2648	2652	2656	2660	2664	2668	2672	2676	2680	2684	2688	2692	2696	2700	2704	2708	2712	2716	2720	2724	2728	2732	2736	2740	2744	2748	2752	2756	2760	2764	2768	2772	2776	2780	2784	2788	2792	2796	2800	2804	2808	2812	2816	2820	2824	2828	2832	2836	2840	2844	2848	2852	2856	2860	2864	2868	2872	2876	2880	2884	2888	2892	2896	2900	2904	2908	2912	2916	2920	2924	2928	2932	2936	2940	2944	2948	2952	2956	2960	2964	2968	2972	2976	2980	2984	2988	2992	2996	3000	3004	3008	3012	3016	3020	3024	3028	3032	3036	3040	3044	3048	3052	3056	3060	3064	3068	3072	3076	3080	3084	3088	3092	3096	3100	3104	3108	3112	3116	3120	3124	3128	3132	3136	3140	3144	3148	3152	3156	3160	3164	3168	3172	3176	3180	3184	3188	3192	3196	3200	3204	3208	3212	3216	3220	3224	3228	3232	3236	3240	3244	3248	3252	3256	3260	3264	3268	3272	3276	3280	3284	3288	3292	3296	3300	3304	3308	3312	3316	3320	3324	3328	3332	3336	3340	3344	3348	3352	3356	3360	3364	3368	3372	3376	3380	3384	3388	3392	3396	3400	3404	3408	3412	3416	3420	3424	3428	3432	3436	3440	3444	3448	3452	3456	3460	3464	3468	3472	3476	3480	3484	3488	3492	3496	3500	3504	3508	3512	3516	3520	3524	3528	3532	3536	3540	3544	3548	3552	3556	3560	3564	3568	3572	3576	3580	3584	3588	3592	3596	3600	3604	3608	3612	3616	3620	3624	3628	3632	3636	3640	3644	3648	3652	3656	3660	3664	3668	3672	3676	3680	3684	3688	3692	3696	3700	3704	3708	3712	3716	3720	3724	3728	3732	3736	3740	3744	3748	3752	3756	3760	3764	3768	3772	3776	3780	3784	3788	3792	3796	3800	3804	3808	3812	3816	3820	3824	3828	3832	3836	3840	3844	3848	3852	3856	3860	3864	3868	3872	3876	3880	3884	3888	3892	3896	3900	3904	3908	3912	3916	3920	3924	3928	3932	3936	3940	3944	3948	3952	3956	3960	3964	3968	3972	3976	3980	3984	3988	3992	3996	4000	4004	4008	4012	4016	4020	4024	4028	4032	4036	4040	4044	4048	4052	4056	4060	4064	4068	4072	4076	4080	4084	4088	4092	4096	4100	4104	4108	4112	4116	4120	4124	4128	4132	4136	4140	4144	4148	4152	4156	4160	4164	4168	4172	4176	4180	4184	4188	4192	4196	4200	4204	4208	4212	4216	4220	4224	4228	4232	4236	4240	4244	4248	4252	4256	4260	4264	4268	4272	4276	4280	4284	4288	4292	4296	4300	4304	4308	4312	4316	4320	4324	4328	4332	4336	4340	4344	4348	4352	4356	4360	4364	4368	4372	4376	4380	4384	4388	4392	4396	4400	4404	4408	4412	4416	4420	4424	4428	4432	4436	4440	4444	4448	4452	4456	4460	4464	4468	4472	4476	4480	4484	4488	4492	4496	4500	4504	4508	4512	4516	4520	4524	4528	4532	4536	4540	4544	4548	4552	4556	4560	4564	4568	4572	4576	4580	4584	4588	4592	4596	4600	4604	4608	4612	4616	4620	4624	4628	4632	4636	4640	4644	4648	4652	4656	4660	4664	4668	4672	4676	4680	4684	4688	4692	4696	4700	4704	4708	4712	4716	4720	4724	4728	4732	4736	4740	4744	4748	4752	4756	4760	4764	4768	4772	4776	4780	4784	4788	4792	4796	4800	4804	4808	4812	4816	4820	4824	4828	4832	4836	4840	4844	4848	4852	4856	4860	4864	4868	4872	4876	4880	4884	4888	4892	4896	4900	4904	4908	4912	4916	4920	4924	4928	4932	4936	4940	4944	4948	4952	4956	4960	4964	4968	4972	4976	4980	4984	4988	4992	4996	5000
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MACRO: DCFPJ-B TEST OF LDCIX, STCXJ MACY11 27(732)
DCFPJ.P1: CROSS REFERENCE TABLE -- PERMANENT SYMBOLS

499	523	547	571	595	619	643	668	696	727	757	787	817	847
3907	3927	3969	3973	4007	4039	4043	4078	4111	4115	4154	4185	4208	4247
13304	13336	13668	1401	1437	1469	1501	1541	1572	1603	1634	1665	1698	1737
2001	2011	2021	2037	2057	2099	2142	2184	2218	2251	2294	2328	2361	2397
3101	3124	3170	3210	3250	3282	3313	3348	3383	3418	3453	3489	3523	3557
3568	3603	3639	3643	3678	508	532	556	580	604	628	652	677	701
765	795	825	856	884	915	945	985	1015	1054	1088	1127	1162	1197
1357	1389	1421	1453	1485	1518	1554	1586	1618	1654	1688	1727	1762	1797
2210	2236	2266	2294	2328	2362	2396	2430	2464	2498	2532	2567	2608	2647
2721	2755	2799	2834	2870	2906	2942	2978	3014	3050	3086	3122	3158	3194
3258	3290	3325	3360	3395	3430	3465	3500	3535	3570	3605	3640	3675	3710
3837	3882	3886	3931	3976	4021	4066	4111	4156	4201	4246	4291	4336	4381
460	412	422	460	484	508	532	556	580	604	628	652	677	701
372	412	422	460	484	508	532	556	580	604	628	652	677	701
1273	1289	1321	1353	1385	1418	1454	1486	1518	1554	1588	1627	1662	1697
2210	2236	2266	2294	2328	2362	2396	2430	2464	2498	2532	2567	2608	2647
2721	2755	2799	2834	2870	2906	2942	2978	3014	3050	3086	3122	3158	3194
3258	3290	3325	3360	3395	3430	3465	3500	3535	3570	3605	3640	3675	3710
3837	3882	3886	3931	3976	4021	4066	4111	4156	4201	4246	4291	4336	4381
460	412	422	460	484	508	532	556	580	604	628	652	677	701
372	412	422	460	484	508	532	556	580	604	628	652	677	701

ERRORS DETECTED: 0
DEFAULT GLOBALS GENERATED: 0

* DCFPJ.SQ/SOL/CRF/PAGNUM=DCFPJ
RUN-TIME: 23 35 5 SECONDS
RUN-TIME RATIO: 249/65=3.8
CORE USED: 14K (27 PAGES)

