Mode: All
Left file: D:\Source\github\CSS422_Hardware\Disassembler\UnitTests\Test_002.X68
Right file: D:\Source\github\CSS422_Hardware\Disassembler\Output.txt

```
*============================================
» ============================================
» ============================
* Title      : Test_002
* Written by : CSS 422 Best Group
*
*   The CSS 422 Best Group is:
*       - Howie Catlin
*       - Kyle Dukart
*       - Colton Sellers
*
*
* Date       : 10-Nov-2019
*
* Description:
*   Test input file used to perform software v
» erification
*   and validation (i.e.: validation that the
» disassembler
*   is capable of converting hexidecimal to En
» glish,
*   verification that the the strings being tr
» anslated are
*   in fact correct).
*
*   First parts of this file attempt to prove
» that each
*   operation code is capable of being transla
» ted. The
*   registers D0, D7, A0, & A7 and hex values
» '0', '1', '5',
*   'A', and 'F' as edge cases most likely to
» uncover early
*   programming errors. This method exercises
» all opcodes,
*   but performs less addressing.
*
*   Later in the file, a brute-force matrix of
»  every-register
*   to-every-register is employed to verify th
» e Effective
*   Addressing code paths. This method uses fe
» wer op codes,
*   but performs more addressing.
*
*   Refer to the Test Plan and test matrix for
»  more
*   information.
*============================================
» ============================================
» ============================
```

```
TESTIO
*-----------------------------------------------
» --------------
* BCLR
*-----------------------------------------------
» --------------
    BCLR        D0,D7                       111112  BCLR    D0, D7
    BCLR        D7,(A7)                     111114  BCLR    D7, (A7)
    BCLR        D0,(A0)+                    111116  BCLR    D0, (A0)+
    BCLR        D7,-(A7)                    111118  BCLR    D7, -(A7)
    BCLR        D0,$FFFF                    11111A  BCLR    D0, $FFFF
    BCLR        D7,$55555                   111120  BCLR    D7, $55555

*-----------------------------------------------
» --------------
* ORI
*-----------------------------------------------
» --------------
    ORI.W       #$1111,D0                   111126  ORI.W   #$1111, D0
    ORI.W       #$AAAA,(A0)+                11112A  ORI.W   #$AAAA, (A0)+
    ORI.W       #$0000,-(A0)                11112E  ORI.W   #$0, -(A0)
    ORI.L       #$FFFFF,D0                  111132  ORI.L   #$FFFFF, D0
    ORI.L       #$55555,(A0)+               111138  ORI.L   #$55555, (A0)+
    ORI.L       #$AAAAA,-(A0)               11113E  ORI.L   #$AAAAA, -(A0)
*-----------------------------------------------
» --------------
* CMPI
*-----------------------------------------------
» --------------
    CMPI.W      #$1111,D0                   111144  CMPI.W  #$1111, D0
    CMPI.W      #$AAAA,(A0)+                111148  CMPI.W  #$AAAA, (A0)+
    CMPI.W      #$0000,-(A0)                11114C  CMPI.W  #$0, -(A0)
    CMPI.L      #$FFFFF,D0                  111150  CMPI.L  #$FFFFF, D0
    CMPI.L      #$55555,(A0)+               111156  CMPI.L  #$55555, (A0)+
    CMPI.L      #$AAAAA,-(A0)               11115C  CMPI.L  #$AAAAA, -(A0)
*-----------------------------------------------
» --------------
* MOVE.B
*-----------------------------------------------
» --------------
    MOVE.B      #$0F,D0                     111162  MOVE.B  #F, D0
    MOVE.B      D7,(A7)                     111166  MOVE.B  D7, (A7)
    MOVE.B      D7,(A0)+                    111168  MOVE.B  D7, (A0)+
    MOVE.B      D0,-(A7)                    11116A  MOVE.B  D0, -(A7)
    MOVE.B      $1000,D0                    11116C  MOVE.B  $1000, D0
    MOVE.B      $10000,D0                   111170  MOVE.B  $10000, D0

    MOVE.W      #$AA,D0                     111176  MOVE.W  #$AA, D0
    MOVE.W      D7,A0                       11117A  MOVEA.W D7, A0
    MOVE.W      D7,(A7)                     11117C  MOVE.W  D7, (A7)
    MOVE.W      D0,(A0)+                    11117E  MOVE.W  D0, (A0)+
    MOVE.W      D7,-(A7)                    111180  MOVE.W  D7, -(A7)
```

```
    MOVE.W      $5555,D0                    111182  MOVE.W  $5555, D0
    MOVE.W      $AAAAA,D0                   111186  MOVE.W  $AAAAA, D0
    MOVE.L      #$AA,D0                     11118C  MOVE.L  #$AA, D0
    MOVE.L      D0,A0                       111192  MOVEA.L D0, A0
    MOVE.L      D0,(A0)                     111194  MOVE.L  D0, (A0)
    MOVE.L      D0,(A0)+                    111196  MOVE.L  D0, (A0)+
    MOVE.L      D0,-(A0)                    111198  MOVE.L  D0, -(A0)
    MOVE.L      $1000,D0                    11119A  MOVE.L  $1000, D0
    MOVE.L      $10000,D0                   11119E  MOVE.L  $10000, D0

*-----------------------------------------
» --------------
* MOVEA.W
*-----------------------------------------
» --------------

    MOVEA.W     D7,A0                       1111A4  MOVEA.W D7, A0
    MOVEA.W     (A0),A7                     1111A6  MOVEA.W (A0), A7
    MOVEA.W     (A0)+,A7                    1111A8  MOVEA.W (A0)+, A7
    MOVEA.W     -(A7),A0                    1111AA  MOVEA.W -(A7), A0
    MOVEA.W     $AAAA,A0                    1111AC  MOVEA.W $AAAA, A0
    MOVEA.W     $55555,A0                   1111B2  MOVEA.W $55555, A0
    MOVEA.L     D0,A0                       1111B8  MOVEA.L D0, A0
    MOVEA.L     D7,A0                       1111BA  MOVEA.L D7, A0
    MOVEA.L     (A7),A0                     1111BC  MOVEA.L (A7), A0
    MOVEA.L     (A0)+,A7                    1111BE  MOVEA.L (A0)+, A7
    MOVEA.L     -(A7),A0                    1111C0  MOVEA.L -(A7), A0
    MOVEA.L     $FFAA,A7                    1111C2  MOVEA.L $FFAA, A7
    MOVEA.L     $FFAA5,A0                   1111C8  MOVEA.L $FFAA5, A0
                                            1111CE  RESET
                                            1111D0  RESET
*-----------------------------------------  1111D2  RESET
» --------------
* NOP, RTS, ILLEGAL                         1111D4  RESET
*-----------------------------------------  1111D6  RESET
» --------------
    NOP                                     1111D8  ORI.B   #$FFAA, D0
                                            1111DC  RESET
                                            1111DE  ORI.B   #$A551, A2
    RTS                                     1111E2  RESET
                                            1111E4  RESET
    ILLEGAL                                 1111E6  RESET
                                            1111E8  RESET
*-----------------------------------------
» --------------
* LEA                                       1111EA  RESET
*-----------------------------------------
» --------------
    LEA         (A7),A0
    LEA         $FFAA,A0                    1111EC  ORI.B   #$AAFF, D0
    LEA         $AA551,A7
                                            1111F0  RESET
```

```
*-----------------------------------------
» -------------
* NEG
*-----------------------------------------
» -------------
    NEG         D0
    NEG         (A6)
    NEG         (A0)+
    NEG         -(A1)
    NEG         $AAFF
    NEG         $55FAA

*-----------------------------------------
» -------------
* JSR
*-----------------------------------------
» -------------
    JSR         (A6)
    JSR         $AAFF
    JSR         $55FAA

*-----------------------------------------
» -------------
* MOVEM
*-----------------------------------------
» -------------



*-----------------------------------------
» -------------
* SUBQ.x
*-----------------------------------------
» -------------
    SUBQ.B      #1,D0
    SUBQ.B      #3,(A7)
    SUBQ.B      #4,(A0)+
    SUBQ.B      #5,-(A0)
    SUBQ.B      #6,$AAFF
    SUBQ.B      #7,$AFAF5

    SUBQ.W      #1,D0
    SUBQ.W      #3,(A7)
    SUBQ.W      #4,(A0)+
    SUBQ.W      #5,-(A0)
    SUBQ.W      #6,$AAFF
    SUBQ.W      #7,$AFAF5
    SUBQ.L      #1,D0
    SUBQ.L      #3,(A7)
    SUBQ.L      #4,(A0)+
    SUBQ.L      #5,-(A0)
    SUBQ.L      #6,$AAFF
    SUBQ.L      #7,$AFAF5
```

```
1111F2  ORI.B   #$5FAA, D5
1111F6  RESET
1111F8  RESET

1111FA  ORI.B   #$AAFF, D0


1111FE  RESET
111200  ORI.B   #$5FAA, D5


111204  SUBQ.B  #1, D0
111206  SUBQ.B  #3, (A7)
111208  SUBQ.B  #4, (A0)+
11120A  SUBQ.B  #5, -(A0)
11120C  SUBQ.B  #6, $AAFF
111212  SUBQ.B  #7, $AFAF5

111218  SUBQ.W  #1, D0
11121A  SUBQ.W  #3, (A7)
11121C  SUBQ.W  #4, (A0)+
11121E  SUBQ.W  #5, -(A0)
111220  SUBQ.W  #6, $AAFF
111226  SUBQ.W  #7, $AFAF5
11122C  SUBQ.L  #1, D0
11122E  SUBQ.L  #3, (A7)
111230  SUBQ.L  #4, (A0)+
111232  SUBQ.L  #5, -(A0)
111234  SUBQ.L  #6, $AAFF
11123A  SUBQ.L  #7, $AFAF5
```

*---	
» --------------	
* DIVS	
*---	
» --------------	
DIVS D0,D1	111240 DIVS D0, D1
DIVS (A1)+,D1	111242 DIVS (A1)+, D1
DIVS -(A2),D2	111244 DIVS -(A2), D2
DIVS #01,D1	111246 DIVS #$1, D1
DIVS $AAFF,D1	11124A DIVS $AAFF, D1
DIVS $FFAA5,D2	111250 DIVS $FFAA5, D2
*---	
» --------------	
* OR	
*---	
» --------------	
OR D0,D1	111256 OR.W D0, D1
OR (A0),D0	111258 OR.W (A0), D0
OR (A0)+,D7	11125A OR.W (A0)+, D7
OR -(A7),D0	11125C OR.W -(A7), D0
OR #02,D1	
	11125E OR.W #$2, D1
*---	
» --------------	
* SUB	
*---	
» --------------	
SUB D0,D1	111262 SUB.W D0, D1
SUB A0,D0	111264 SUB.W A0, D0
SUB (A0),D0	111266 SUB.W (A0), D0
SUB (A0)+,D0	111268 SUB.W (A0)+, D0
SUB -(A7),D1	11126A SUB.W -(A7), D1
SUB #02,D1	11126C SUBQ.W #2, D1
SUB $AAFF,D0	11126E SUB.W $AAFF, D0
SUB $AFAF5,D1	111274 SUB.W $AFAF5, D1
*---	
» --------------	
* CMP	
*---	
» --------------	
CMP D0,D1	11127A CMP.W D0, D1
CMP A0,D0	11127C CMP.W A0, D0
CMP (A0),D0	11127E CMP.W (A0), D0
CMP (A0)+,D0	111280 CMP.W (A0)+, D0
CMP -(A7),D1	111282 CMP.W -(A7), D1
CMP #02,D1	111284 CMP.W #$2, D1
CMP $AAFF,D0	111288 CMP.W $AAFF, D0
CMP $AFAF5,D1	11128E CMP.W $AFAF5, D1
*---	
» --------------	
* EOR	
*---	

Left file:

```
» --------------
    EOR         D0,D1
    EOR         D0,(A0)
    EOR         D0,(A0)+
    EOR         D0,-(A7)
    EOR.W       #$AAFF,D0
    EOR.L       #$AFAF5,D1

*--------------------------------------------
» --------------
* MULS
*--------------------------------------------
» --------------
    MULS        D0,D1
    MULS        (A0),D0
    MULS        (A0)+,D0
    MULS        -(A7),D1
    MULS        #02,D1
    MULS        $AAFF,D0
    MULS        $AFAF5,D1
```

Right file:

```
111294  EOR.W   D0, D1
111296  EOR.W   D0, (A0)
111298  EOR.W   D0, (A0)+
11129A  EOR.W   D0, -(A7)
11129C  EORI.W  #$AAFF, D0
1112A0  BCLR    #$A, D1
1112A4  DATA    FAF5
1112A6  MULS    D0, D1
1112A8  MULS    (A0), D0
1112AA  MULS    (A0)+, D0
1112AC  MULS    -(A7), D1
1112AE  MULS    #$2, D1
1112B2  MULS    $AAFF, D0
1112B8  MULS    $AFAF5, D1
1112BEÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿ
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» --------------
* ADD
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» --------------
    ADD         D0,D1
    ADD         D0,A0
    ADD         (A0),D0
    ADD         (A0)+,D0
    ADD         -(A7),D1
    ADD         #02,D1
    ADD         $AAFF,D0
    ADD         $AFAF5,D1


*---------------------------------------------
» --------------
* ADDA
*---------------------------------------------
» --------------
    ADDA        D0,A0
    ADDA        D0,A0
    ADDA        (A0),A0
    ADDA        (A0)+,A0
    ADDA        -(A7),A1
    ADDA        #02,A1
    ADDA        $AAFF,A0
    ADDA        $AFAF5,A7

*---------------------------------------------
» --------------
* ASR
*---------------------------------------------
» --------------
    ASR         (A0)
    ASR         (A7)+
    ASR         -(A0)
    ASR         $AFAF
    ASR         $FFAA550
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» ÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿ
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□MOVE.L D4,D5□ADD.B D0,D1□Output.txt□
1A001A00□□□Config.cfg□0011111200111670Z1112BEÿ
» ÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿ
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*----------------------------------------------
» --------------
* ASL
*----------------------------------------------
» --------------
    ASL         (A0)
    ASL         (A7)+
    ASL         -(A0)
    ASL         $AFAF
    ASL         $FFAA550

*----------------------------------------------
» --------------
* LSR
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» ÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿ
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» ÿÿÿÿÿÿÿÿ
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*-----------------------------------------
» --------------
    LSR         (A0)
    LSR         (A7)+
    LSR         -(A0)
    LSR         $AFAF
    LSR         $FFAA550
*-----------------------------------------
» --------------
* LSL
*-----------------------------------------
» --------------
    LSL         (A0)
    LSL         (A7)+
    LSL         -(A0)
    LSL         $AFAF
    LSL         $FFAA550
*-----------------------------------------
» --------------
* ROL
*-----------------------------------------
» --------------
    ROL         (A0)
    ROL         (A7)+
    ROL         -(A0)
    ROL         $AFAF
    ROL         $FFAA550
*-----------------------------------------
» --------------
* ROR
*-----------------------------------------
» --------------
    ROR         (A0)
    ROR         (A7)+
    ROR         -(A0)
    ROR         $AFAF
    ROR         $FFAA550
*-----------------------------------------
» --------------
* BRUTE-FORCE VERIFICATION
*-----------------------------------------
» --------------
        ; D0 to all other data registers
    ADD         D0,D0
    ADD         D0,D1
    ADD         D0,D2
    ADD         D0,D3
    ADD         D0,D4
    ADD         D0,D5
    ADD         D0,D6
    ADD         D0,D7
        ; D1 to all other data registers
```

```
    ADD         D1,D0
    ADD         D1,D1
    ADD         D1,D2
    ADD         D1,D3
    ADD         D1,D4
    ADD         D1,D5
    ADD         D1,D6
    ADD         D1,D7
        ; D2 to all other data registers
    ADD         D2,D0
    ADD         D2,D1
    ADD         D2,D2
    ADD         D2,D3
    ADD         D2,D4
    ADD         D2,D5
    ADD         D2,D6
    ADD         D2,D7
        ; D3 to all other data registers
    ADD         D3,D0
    ADD         D3,D1
    ADD         D3,D2
    ADD         D3,D3
    ADD         D3,D4
    ADD         D3,D5
    ADD         D3,D6
    ADD         D3,D7
        ; D4 to all other data registers
    ADD         D4,D0
    ADD         D4,D1
    ADD         D4,D2
    ADD         D4,D3
    ADD         D4,D4
    ADD         D4,D5
    ADD         D4,D6
    ADD         D4,D7
        ; D5 to all other data registers
    ADD         D5,D0
    ADD         D5,D1
    ADD         D5,D2
    ADD         D5,D3
    ADD         D5,D4
    ADD         D5,D5
    ADD         D5,D6
    ADD         D5,D7
        ; D6 to all other data registers
    ADD         D6,D0
    ADD         D6,D1
    ADD         D6,D2
    ADD         D6,D3
    ADD         D6,D4
    ADD         D6,D5
    ADD         D6,D6
```

```
    ADD         D6,D7
        ; D7 to all other data registers
    ADD         D7,D0
    ADD         D7,D1
    ADD         D7,D2
    ADD         D7,D3
    ADD         D7,D4
    ADD         D7,D5
    ADD         D7,D6
    ADD         D7,D7
        ; D0 to all other address registers
    ADD         D0,A0
    ADD         D0,A1
    ADD         D0,A2
    ADD         D0,A3
    ADD         D0,A4
    ADD         D0,A5
    ADD         D0,A6
    ADD         D0,A7

        ; D1 to all other address registers
    ADD         D1,A0
    ADD         D1,A1
    ADD         D1,A2
    ADD         D1,A3
    ADD         D1,A4
    ADD         D1,A5
    ADD         D1,A6
    ADD         D1,A7
        ; D2 to all other address registers
»
    ADD         D2,A0
    ADD         D2,A1
    ADD         D2,A2
    ADD         D2,A3
    ADD         D2,A4
    ADD         D2,A5
    ADD         D2,A6
    ADD         D2,A7
        ; D3 to all other address registers
    ADD         D3,A0
    ADD         D3,A1
    ADD         D3,A2
    ADD         D3,A3
    ADD         D3,A4
    ADD         D3,A5
    ADD         D3,A6
    ADD         D3,A7
        ; D4 to all other address registers
    ADD         D4,A0
    ADD         D4,A1
    ADD         D4,A2
```

```
    ADD         D4,A3
    ADD         D4,A4
    ADD         D4,A5
    ADD         D4,A6
    ADD         D4,A7
        ; D5 to all other address registers
    ADD         D5,A0
    ADD         D5,A1
    ADD         D5,A2
    ADD         D5,A3
    ADD         D5,A4
    ADD         D5,A5
    ADD         D5,A6
    ADD         D5,A7
        ; D6 to all other address registers
    ADD         D6,A0
    ADD         D6,A1
    ADD         D6,A2
    ADD         D6,A3
    ADD         D6,A4
    ADD         D6,A5
    ADD         D6,A6
    ADD         D6,A7
        ; D7 to all other address registers
    ADD         D7,A0
    ADD         D7,A1
    ADD         D7,A2
    ADD         D7,A3
    ADD         D7,A4
    ADD         D7,A5
    ADD         D7,A6
    ADD         D7,A7

        ; values from all address registers to
»  A0
    ADD         (A0),A0
    ADD         (A1),A0
    ADD         (A2),A0
    ADD         (A3),A0
    ADD         (A4),A0
    ADD         (A5),A0
    ADD         (A6),A0
    ADD         (A7),A0
        ; values from all address registers to
»  A1
    ADD         (A0),A1
    ADD         (A1),A1
    ADD         (A2),A1
    ADD         (A3),A1
    ADD         (A4),A1
    ADD         (A5),A1
    ADD         (A6),A1
```

```
    ADD         (A7),A1

        ; values from all address registers to
»  A2
    ADD         (A0),A2
    ADD         (A1),A2
    ADD         (A2),A2
    ADD         (A3),A2
    ADD         (A4),A2
    ADD         (A5),A2
    ADD         (A6),A2
    ADD         (A7),A2
        ; values from all address registers to
»  A3
    ADD         (A0),A3
    ADD         (A1),A3
    ADD         (A2),A3
    ADD         (A3),A3
    ADD         (A4),A3
    ADD         (A5),A3
    ADD         (A6),A3
    ADD         (A7),A3

         ; values from all address registers
» to A4
    ADD         (A0),A4
    ADD         (A1),A4
    ADD         (A2),A4
    ADD         (A3),A4
    ADD         (A4),A4
    ADD         (A5),A4
    ADD         (A6),A4
    ADD         (A7),A4

        ; values from all address registers to
»  A5
    ADD         (A0),A5
    ADD         (A1),A5
    ADD         (A2),A5
    ADD         (A3),A5
    ADD         (A4),A5
    ADD         (A5),A5
    ADD         (A6),A5
    ADD         (A7),A5

        ; values from all address registers to
»  A6
    ADD         (A0),A6
    ADD         (A1),A6
    ADD         (A2),A6
    ADD         (A3),A6
    ADD         (A4),A6
```

```
    ADD         (A5),A6
    ADD         (A6),A6
    ADD         (A7),A6

        ; values from all address registers to
»  A7
    ADD         (A0),A7
    ADD         (A1),A7
    ADD         (A2),A7
    ADD         (A3),A7
    ADD         (A4),A7
    ADD         (A5),A7
    ADD         (A6),A7
    ADD         (A7),A7

        ; post-increment from all address regi
» sters to A0
    ADD         (A0)+,A0
    ADD         (A1)+,A0
    ADD         (A2)+,A0
    ADD         (A3)+,A0
    ADD         (A4)+,A0
    ADD         (A5)+,A0
    ADD         (A6)+,A0
    ADD         (A7)+,A0

        ; post-increment from all address regi
» sters to A1
    ADD         (A0)+,A1
    ADD         (A1)+,A1
    ADD         (A2)+,A1
    ADD         (A3)+,A1
    ADD         (A4)+,A1
    ADD         (A5)+,A1
    ADD         (A6)+,A1
    ADD         (A7)+,A1

        ; post-increment from all address regi
» sters to A2
    ADD         (A0)+,A2
    ADD         (A1)+,A2
    ADD         (A2)+,A2
    ADD         (A3)+,A2
    ADD         (A4)+,A2
    ADD         (A5)+,A2
    ADD         (A6)+,A2
    ADD         (A7)+,A2

        ; post-increment from all address regi
» sters to A3
    ADD         (A0)+,A3
    ADD         (A1)+,A3
```

```
    ADD         (A2)+,A3
    ADD         (A3)+,A3
    ADD         (A4)+,A3
    ADD         (A5)+,A3
    ADD         (A6)+,A3
    ADD         (A7)+,A3

        ; post-increment from all address regi
» sters to A4
    ADD         (A0)+,A4
    ADD         (A1)+,A4
    ADD         (A2)+,A4
    ADD         (A3)+,A4
    ADD         (A4)+,A4
    ADD         (A5)+,A4
    ADD         (A6)+,A4
    ADD         (A7)+,A4

        ; post-increment from all address regi
» sters to A5
    ADD         (A0)+,A5
    ADD         (A1)+,A5
    ADD         (A2)+,A5
    ADD         (A3)+,A5
    ADD         (A4)+,A5
    ADD         (A5)+,A5
    ADD         (A6)+,A5
    ADD         (A7)+,A5

        ; post-increment from all address regi
» sters to A6
    ADD         (A0)+,A6
    ADD         (A1)+,A6
    ADD         (A2)+,A6
    ADD         (A3)+,A6
    ADD         (A4)+,A6
    ADD         (A5)+,A6
    ADD         (A6)+,A6
    ADD         (A7)+,A6

         ; post-increment from all address reg
» isters to A7
    ADD         (A0)+,A7
    ADD         (A1)+,A7
    ADD         (A2)+,A7
    ADD         (A3)+,A7
    ADD         (A4)+,A7
    ADD         (A5)+,A7
    ADD         (A6)+,A7
    ADD         (A7)+,A7

        ; pre-decrement from all address regis
```

```
» ters to A0
    ADD         -(A0),A0
    ADD         -(A1),A0
    ADD         -(A2),A0
    ADD         -(A3),A0
    ADD         -(A4),A0
    ADD         -(A5),A0
    ADD         -(A6),A0
    ADD         -(A7),A0

        ; pre-decrement from all address regis
» ters to A1
    ADD         -(A0),A1
    ADD         -(A1),A1
    ADD         -(A2),A1
    ADD         -(A3),A1
    ADD         -(A4),A1
    ADD         -(A5),A1
    ADD         -(A6),A1
    ADD         -(A7),A1

        ; pre-decrement from all address regis
» ters to A2
    ADD         -(A0),A2
    ADD         -(A1),A2
    ADD         -(A2),A2
    ADD         -(A3),A2
    ADD         -(A4),A2
    ADD         -(A5),A2
    ADD         -(A6),A2
    ADD         -(A7),A2

        ; pre-decrement from all address regis
» ters to A3
    ADD         -(A0),A3
    ADD         -(A1),A3
    ADD         -(A2),A3
    ADD         -(A3),A3
    ADD         -(A4),A3
    ADD         -(A5),A3
    ADD         -(A6),A3
    ADD         -(A7),A3

        ; pre-decrement from all address regis
» ters to A4
    ADD         -(A0),A4
    ADD         -(A1),A4
    ADD         -(A2),A4
    ADD         -(A3),A4
    ADD         -(A4),A4
    ADD         -(A5),A4
    ADD         -(A6),A4
```

```
    ADD         -(A7),A4

        ; pre-decrement from all address regis
» ters to A5
    ADD         -(A0),A5
    ADD         -(A1),A5
    ADD         -(A2),A5
    ADD         -(A3),A5
    ADD         -(A4),A5
    ADD         -(A5),A5
    ADD         -(A6),A5
    ADD         -(A7),A5

        ; pre-decrement from all address regis
» ters to A6
    ADD         -(A0),A6
    ADD         -(A1),A6
    ADD         -(A2),A6
    ADD         -(A3),A6
    ADD         -(A4),A6
    ADD         -(A5),A6
    ADD         -(A6),A6
    ADD         -(A7),A6

        ; pre-decrement from all address regis
» ters to A7
    ADD         -(A0),A7
    ADD         -(A1),A7
    ADD         -(A2),A7
    ADD         -(A3),A7
    ADD         -(A4),A7
    ADD         -(A5),A7
    ADD         -(A6),A7
    ADD         -(A7),A7

        ; immediate to all data registers
    ADD         #01,D0
    ADD         #01,D1
    ADD         #01,D2
    ADD         #01,D3
    ADD         #01,D4
    ADD         #01,D5
    ADD         #01,D6
    ADD         #01,D7
        ; immediate to all address register
    ADD         #01,A0
    ADD         #01,A1
    ADD         #01,A2
    ADD         #01,A3
    ADD         #01,A4
    ADD         #01,A5
    ADD         #01,A6
```

```
    ADD         #01,A7
        ; immediate to all address register va
» lues
    ADD         #01,(A0)
    ADD         #01,(A1)
    ADD         #01,(A2)
    ADD         #01,(A3)
    ADD         #01,(A4)
    ADD         #01,(A5)
    ADD         #01,(A6)
    ADD         #01,(A7)
        ; immediate to all address register wi
» th post increment
    ADD         #01,(A0)+
    ADD         #01,(A1)+
    ADD         #01,(A2)+
    ADD         #01,(A3)+
    ADD         #01,(A4)+
    ADD         #01,(A5)+
    ADD         #01,(A6)+
    ADD         #01,(A7)+
        ; immediate to all address register wi
» th pre-decrement
    ADD         #01,-(A0)
    ADD         #01,-(A1)
    ADD         #01,-(A2)
    ADD         #01,-(A3)
    ADD         #01,-(A4)
    ADD         #01,-(A5)
    ADD         #01,-(A6)
    ADD         #01,-(A7)
        ; absolute short to all data registers
    ADD         $01,D0
    ADD         $01,D1
    ADD         $01,D2
    ADD         $01,D3
    ADD         $01,D4
    ADD         $01,D5
    ADD         $01,D6
    ADD         $01,D7
        ; absolute long to all data registers
    ADD         $0A05,A0
    ADD         $0A05,A1
    ADD         $0A05,A2
    ADD         $0A05,A3
    ADD         $0A05,A4
    ADD         $0A05,A5
    ADD         $0A05,A6
    ADD         $0A05,A7
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