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
              D7,(A7)
D0,(A0)+
D7,-(A7)
D0,$FFFF
    BCLR
    BCLR
    BCLR
    BCLR
   BCLR D7,$55555
* ORI
   ORI.W #$1111,D0
ORI.W #$AAAA,(A0)+
ORI.W #$0000,-(A0)
ORI.L #$FFFFF,D0
    ORI.L
               #$55555,(A0)+
    ORI.L
                 #$AAAAA,-(A0)
* CMPI
    CMPI.W #$1111,D0
CMPI.W #$AAAA,(A0)+
CMPI.W #$0000,-(A0)
                #$FFFFF,D0
    CMPI.L
                 #$55555,(A0)+
    CMPI.L
            #$AAAAA,-(A0)
    CMPI.L
* MOVE.B
            #$0F,D0
    MOVE.B
    MOVE.B
                 D7, (A7)
    MOVE.B
                 D7,(A0)+
    MOVE.B
                 D0,-(A7)
    MOVE.B
                 $1000,D0
   MOVE.B
                 $10000,D0
   MOVE.W
                 #$AA,D0
    MOVE.W
                 D7,A0
                 D7, (A7)
    MOVE.W
    MOVE.W
                 D0,(A0)+
    MOVE.W
                 D7,-(A7)
```

```
$5555,D0
   MOVE.W
   MOVE.W
               $AAAAA,D0
   MOVE.L
               #$AA,D0
               D0,A0
   MOVE.L
   MOVE.L
               D0, (A0)
   MOVE.L
               D0,(A0)+
   MOVE.L
               D0,-(A0)
               $1000,D0
   MOVE.L
   MOVE.L
               $10000,D0
* MOVEA.W
               D7,A0
   MOVEA.W
               (A0),A7
   MOVEA.W
   MOVEA.W
               (A0)+,A7
   MOVEA.W
               -(A7),A0
   MOVEA.W
               $AAAA,A0
   MOVEA.W
               $55555,A0
   MOVEA.L
               D0,A0
               D7,A0
   MOVEA.L
   MOVEA.L
               (A7),A0
               (A0)+,A7
   MOVEA.L
   MOVEA.L
              -(A7),A0
   MOVEA.L
               $FFAA,A7
   MOVEA.L
              $FFAA5,A0
 NOP, RTS, ILLEGAL
*_____
   NOP
   ILLEGAL
* LEA
   LEA
               (A7),A0
   LEA
               $FFAA,A0
   LEA
             $AA551,A7
* NEG
```

```
(continued)
```

```
DØ
    NEG
    NEG
                 (A6)
                 (A0)+
    NEG
    NEG
                 -(A1)
    NEG
                 $AAFF
    NEG
                 $55FAA
* JSR
    JSR
                 (A6)
    JSR
                 $AAFF
    JSR
                 $55FAA
 MOVEM
    MOVEM.L
                 D0-D7/A0-A6,-(A7)
    MOVEM.L
                 D0,-(A7)
                 D1,-(A7)
    MOVEM.L
    MOVEM.L
                 D2,-(A7)
                 D3,-(A7)
    MOVEM.L
                 D4,-(A7)
    MOVEM.L
                 D5,-(A7)
    MOVEM.L
                 D6,-(A7)
    MOVEM.L
    MOVEM.L
                 D7,-(A7)
    MOVEM.L
                 A0, -(A7)
    MOVEM.L
                 A1, -(A7)
                 A2, -(A7)
    MOVEM.L
                 A3, -(A7)
    MOVEM.L
    MOVEM.L
                 A4, -(A7)
    MOVEM.L
                 A5, -(A7)
                 A6, -(A7)
    MOVEM.L
                 A7,-(A7)
    MOVEM.L
    MOVEM.L
                 D0-D7/A0-A6,-(A7)
    MOVEM.L
                 D0-D5/D7/A3-A6,-(A7)
    MOVEM.L
                 D0/D2/D4/D6/A0/A2/A4/A6, -(A7)
                 D0-D2/D4/D6-D7/A0-A3/A5/A7,-(A
    MOVEM.L
» 7)
    MOVEM. L
                 (A7) + D0
    MOVEM. L
                 (A7)+,D1
    MOVEM. L
                 (A7)+,D2
    MOVEM. L
                 (A7)+,D3
                 (A7)+,D4
    MOVEM. L
    MOVEM. L
                 (A7)+,D5
    MOVEM. L
                 (A7)+,D6
    MOVEM. L
                 (A7)+,D7
```

```
111204
        MOVEM.L D0-D7/A0-A6, -(A7)
111208
       MOVEM.L D0, -(A7)
        MOVEM.L D1, -(A7)
11120C
       MOVEM.L D2, -(A7)
111210
        MOVEM.L D3, -(A7)
111214
        MOVEM.L D4, -(A7)
111218
        MOVEM.L D5, -(A7)
11121C
111220
       MOVEM.L D6, -(A7)
111224
        MOVEM.L D7, -(A7)
       MOVEM.L A0, -(A7)
111228
11122C
        MOVEM.L A1, -(A7)
       MOVEM.L A2, -(A7)
111230
        MOVEM.L A3, -(A7)
111234
111238
        MOVEM.L A4, -(A7)
11123C
        MOVEM.L A5, -(A7)
        MOVEM.L A6, -(A7)
111240
        MOVEM.L A7/A7, -(A7)
111244
        MOVEM.L D0-D7/A0-A6, -(A7)
111248
11124C
        MOVEM.L D0-D5/D7/A3-A6, -(A7)
        MOVEM.L D0/D2/D4/D6-(A0)/A0/A2/A4/A6,
111250
» -(A7)
111254
        MOVEM.L D0-D2/D4/D6-D7/A0-A3/A5/A7/A7,
» -(A7)
111258 MOVEM.W (A7)+, D0
11125C
        MOVEM.W (A7)+, D1
       MOVEM.W (A7)+, D2
111260
111264
        MOVEM.W (A7)+, D3
        MOVEM.W (A7)+, D4
111268
        MOVEM.W (A7)+, D5
11126C
111270
        MOVEM.W (A7)+, D6
111274
        MOVEM.W (A7)+, D7
```

Right file: D:\Source\github\CSS422_Hardware\Disassembler\Output.txt

```
(continued)
```

```
MOVEM.L
                (A7) + ,A0
                                                  111278 MOVEM.W (A7)+, A0
                                                  11127C
                                                          MOVEM.W (A7)+, A1
   MOVEM.L
                (A7)+,A1
   MOVEM.L
                (A7)+,A2
                                                  111280 MOVEM.W (A7)+, A2
                                                  111284 MOVEM.W (A7)+, A3
   MOVEM.L
                (A7)+,A3
                                                  111288 MOVEM.W (A7)+, A4
   MOVEM.L
                (A7)+,A4
                                                          MOVEM.W (A7)+, A5
                (A7)+,A5
                                                  11128C
   MOVEM.L
   MOVEM.L
                (A7)+,A6
                                                  111290 MOVEM.W (A7)+, A6
                                                  111294 MOVEM.W (A7)+, A7/A7
   MOVEM.L
                (A7)+,A7
                                                          MOVEM.W (A7)+, D0-D7/A0-A6
   MOVEM.L
                (A7)+,D0-D7/A0-A6
                                                  111298
   MOVEM.L
               (A7)+,D0-D5/D7/A3-A6
                                                  11129C
                                                          MOVEM.₩ (A7)+, D0-D5/D7/A3-A6
                                                  1112A0 MOVEM.W (A7)+, D0/D2/D4/D6-(A0)/A0/A2/
   MOVEM.L
               (A7)+,D0/D2/D4/D6/A0/A2/A4/A6
                                                  » A4/A6
   MOVEM.L
               (A7)+,D0-D2/D4/D6-D7/A0-A3/A5/
                                                  1112A4 MOVEM.W (A7)+, D0-D2/D4/D6-D7/A0-A3/A5
» A7
                                                  » /A7/A7
* SUBQ.x
   SUBQ.B
               #1,D0
                                                  1112A8 SUBQ.B #1, D0
                                                  1112AA SUBQ.B #3, (A7)
               #3,(A7)
   SUBQ.B
   SUBQ.B
               #4,(A0)+
                                                  1112AC SUBQ.B #4, (A0)+
               #5,-(A0)
                                                  1112AE SUBQ.B #5, -(A0)
   SUBQ.B
                                                  1112B0 SUBQ.B #6, $AAFF
   SUBQ.B
               #6,$AAFF
   SUBQ.B
               #7,$AFAF5
                                                  1112B6 SUBQ.B #7, $AFAF5
                                                  1112BC SUBQ.W #1, D0
               #1,D0
   SUBQ.W
                                                  1112BE SUBQ.W #3, (A7)
   SUBQ.W
               #3,(A7)
   SUBQ.W
               #4,(A0)+
                                                  1112C0 SUBQ.W #4, (A0)+
   SUBQ.W
               #5,-(A0)
                                                  1112C2 SUBQ.W #5, -(A0)
                                                  1112C4 SUBQ.W #6, $AAFF
   SUBQ.W
               #6,$AAFF
   SUBQ.W
               #7,$AFAF5
                                                  1112CA SUBQ.W #7, $AFAF5
   SUBQ.L
               #1,D0
                                                  1112D0 SUBQ.L #1, D0
                                                  1112D2 SUBQ.L #3, (A7)
   SUBQ.L
               #3,(A7)
   SUBQ.L
               #4,(A0)+
                                                  1112D4 SUBQ.L #4, (A0)+
                                                  1112D6 SUBQ.L #5, -(A0)
   SUBQ.L
               #5,-(A0)
                                                  1112D8 SUBQ.L #6, $AAFF
   SUBQ.L
               #6,$AAFF
               #7,$AFAF5
                                                  1112DE SUBQ.L #7, $AFAF5
   SUBQ.L
 DIVS
               D0,D1
                                                  1112E4 DIVS
                                                                  D0, D1
   DIVS
   DIVS
                (A1)+,D1
                                                  1112E6 DIVS
                                                                  (A1)+, D1
                                                                  -(A2), D2
   DIVS
               -(A2),D2
                                                  1112E8 DIVS
               #01,D1
                                                  1112EA DIVS
                                                                  #$1, D1
   DIVS
   DIVS
               $AAFF,D1
                                                  1112EE
                                                          DIVS
                                                                  $AAFF, D1
   DIVS
               $FFAA5,D2
                                                  1112F4 DIVS
                                                                  $FFAA5, D2
* OR
```

```
(continued)
```

(continued)					
*					
OR		1112FA	OR.W	D0, D1	
OR	(A0),D0	1112FC		(A0), D0	
OR	(A0)+,D7	1112FE		(A0)+, D7	
OR	-(A7),D0		OR.W	-(A7), D0	
OR	# <mark>0</mark> 2,D1	111302		# <mark>\$</mark> 2, D1	
				+=, ==	
»					
* SUB					
»					
SUB	D0,D1	111306	SUB.W	D0, D1	
SUB	A0,D0	111308	SUB.W	A0, D0	
SUB	(A0),D0	11130A	SUB.W	(A0), D0	
	(A0)+,D0	11130C	SUB.W		
SUB	-(A7),D1	11130E	SUB.W	-(A7), D1	
SUB	# <mark>0</mark> 2,D1	111310	SUBQ.W	#2, D1	
SUB	\$AAFF,D0	111312	SUB.W	\$AAFF, D0	
SUB	\$AFAF5,D1	111318	SUB.W	\$AFAF5, D1	
*					
»					
* CMP					
*					
»					
CMP	D0,D1		CMP.W	D0, D1	
CMP	A0, D0		CMP.W	A0, D0	
CMP	(A0),D0		CMP.W	(A0), D0	
CMP	(A0)+,D0		CMP.W	(A0)+, D0	
CMP	-(A7),D1		CMP.W	-(A7), D1	
CMP	# <mark>0</mark> 2,D1		CMP.W	# \$ 2, D1	
CMP	\$AAFF,D0		CMP.W	\$AAFF, D0	
CMP	\$AFAF5,D1	111332	CMP.W	\$AFAF5, D1	
»					
* EOR					
*					
»					
" EOR	D0,D1	111338	EOR.W	D0, D1	
EOR	D0,(A0)	11133A		D0, (A0)	
EOR	D0,(A0)+	11133A		D0, (A0)+	
EOR	D0,-(A7)		EOR.W	D0, -(A7)	
EOR.W	#\$AAFF,D0			#\$AAFF, D0	
EOR.L	#\$AFAF5,D1	111344		#\$ <mark>A</mark> , D1	
	•	111348		FAF5	
*					
»					
* MULS					
*					
»					
MULS	D0,D1	11134A	MULS	D0, D1	
MULS	(A0),D0	11134C	MULS	(A0), D0	
					Beyond Compare v4.2.10

 $Right file: D: \label{line: D: Source of the continuous} Right file: D: \label{line: D: Source of the continuous} In the continuous continuou$

```
(continued)
   MULS
                (A0) + D0
                                                   11134E
                                                           MULS
                                                                   (A0)+, D0
   MULS
                -(A7),D1
                                                   111350
                                                           MULS
                                                                   -(A7), D1
   MULS
                #02,D1
                                                   111352
                                                           MULS
                                                                   #$2, D1
                $AAFF,D0
                                                                   $AAFF, D0
   MULS
                                                   111356
                                                           MULS
                                                                   $AFAF5, D1
   MULS
                $AFAF5,D1
                                                   11135C MULS
* ADD
                                                                           D0, D1
   ADD
                D0,D1
                                                   111362 ADD.W
   ADD
                D0,A0
                                                   111364 ADDA.W D0, A0
   ADD
                (A0),D0
                                                   111366 ADD.W
                                                                           (A0), D0
                                                                            (A0)+, D0
   ADD
                (A0)+,D0
                                                   111368 ADD.W
   ADD
                -(A7),D1
                                                   11136A ADD.W
                                                                            -(A7), D1
   ADD
                #02,D1
                                                   11136C ADDQ.W #2, D1
   ADD
                $AAFF,D0
                                                   11136E ADD.W
                                                                           $AAFF, D0
                                                                           $AFAF5, D1
   ADD
                $AFAF5,D1
                                                   111374 ADD.W
* ADDA
                D0,A0
                                                   11137A ADDA.W D0, A0
   ADDA
   ADDA
                D0,A0
                                                   11137C ADDA.W D0, A0
                                                   11137E ADDA.W (A0), A0
   ADDA
                (A0),A0
                                                   111380 ADDA.W (A0)+, A0
   ADDA
                (A0)+,A0
                                                   111382 ADDA.W -(A7), A1
   ADDA
                -(A7),A1
   ADDA
                #02,A1
                                                   111384
                                                           ADDQ.W #2, A1
   ADDA
                $AAFF,A0
                                                   111386
                                                           ADDA.W $AAFF, A0
    ADDA
                $AFAF5,A7
                                                   11138C ADDA.W $AFAF5, A7
* ASR
                (A0)
                                                   111392 ASR
                                                                   (A0)
   ASR
   ASR
                (A7)+
                                                   111394 ASR
                                                                   (A7)+
   ASR
                -(A0)
                                                           ASR
                                                   111396
                                                                   -(A0)
   ASR
                $AFAF
                                                   111398 ASR
                                                                   $AFAF
   ASR
                $FFAA550
                                                   11139E ASR
                                                                   $FFAA550
* ASL
   ASL
                (A0)
                                                   1113A4
                                                           ASL
                                                                   (A0)
   ASL
                (A7)+
                                                   1113A6
                                                           ASL
                                                                   (A7)+
   ASL
                                                           ASL
                -(A0)
                                                   1113A8
                                                                   -(A0)
   ASL
                                                           ASL
                $AFAF
                                                   1113AA
                                                                   $AFAF
   ASL
                $FFAA550
                                                   1113B0 ASL
                                                                   $FFAA550
```

```
* LSR
           (A0)
   LSR
                                               1113B6 LSR
                                                             (A0)
   LSR
             (A7)+
                                               1113B8 LSR
                                                             (A7)+
   LSR
             -(A0)
                                                             -(A0)
                                               1113BA LSR
   LSR
              $AFAF
                                               1113BC
                                                     LSR
                                                             $AFAF
   LSR
           $FFAA550
                                               1113C2 LSR
                                                             $FFAA550
* LSL
          (A0)
   LSL
                                               1113C8 LSL
                                                             (A0)
   LSL
                                               1113CA LSL
             (A7)+
                                                             (A7)+
   LSL
             -(A0)
                                               1113CC LSL
                                                             -(A0)
   LSL
                                               1113CE LSL
              $AFAF
                                                             $AFAF
          $FFAA550
                                               1113D4 LSL
                                                             $FFAA550
* ROL
   ROL
           (A0)
                                               1113DA ROL
                                                             (A0)
   ROL
                                               1113DC ROL
             (A7)+
                                                             (A7)+
   ROL
             -(A0)
                                               1113DE ROL
                                                             -(A0)
   ROL
              $AFAF
                                               1113E0 ROL
                                                             $AFAF
   ROL
           $FFAA550
                                               1113E6 ROL
                                                             $FFAA550
* ROR
   ROR
           (A0)
                                               1113EC ROR
                                                             (A0)
   ROR
             (A7)+
                                               1113EE ROR
                                                             (A7)+
   ROR
              -(A0)
                                               1113F0 ROR
                                                             -(A0)
   ROR
              $AFAF
                                               1113F2 ROR
                                                             $AFAF
                                                             $FFAA550
   ROR
             $FFAA550
                                               1113F8 ROR
* BRUTE-FORCE VERIFICATION
       ; D0 to all other data registers
   ADD
              D0,D0
                                               1113FE ADD.W
                                                                     D0, D0
   ADD
              D0,D1
                                               111400 ADD.W
                                                                     D0, D1
                                                                     D0, D2
              D0,D2
                                               111402 ADD.W
   ADD
              D0,D3
                                               111404 ADD.W
                                                                     D0, D3
   ADD
              D0,D4
                                                                     D0, D4
   ADD
                                               111406 ADD.W
   ADD
              D0,D5
                                              111408 ADD.W
                                                                     D0, D5
```

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(continued)

(continued)						
ADD	D0,D6	11140A	ADD.W	D0, D6		
ADD	D0,D7	11140C	ADD.W	D0, D7		
; D1 t	o all other data registers					
ADD	D1,D0	11140E	ADD.W	D1, D0		
ADD	D1,D1	111410	ADD.W	D1, D1		
ADD	D1,D2	111412		D1, D2		
ADD	D1,D3	111414		D1, D3		
ADD	D1,D4	111416		D1, D4		
ADD	D1,D5	111418		D1, D5		
ADD	D1,D6		ADD.W	D1, D6		
ADD	D1,D7		ADD.W	D1, D7		
l .	o all other data registers	111710	ADDIN	01, 07		
ADD	D2,D0	111/1E	ADD.W	D2, D0		
ADD	D2,D1	111420		D2, D0 D2, D1		
ADD	D2,D2	111420		D2, D1 D2, D2		
ADD	D2,D2 D2,D3	111422		D2, D2 D2, D3		
				•		
ADD	D2,D4	111426		D2, D4		
ADD	D2,D5	111428		D2, D5		
ADD	D2,D6	11142A		D2, D6		
ADD	D2,D7	11142C	ADD.W	D2, D7		
	o all other data registers					
ADD	D3,D0	11142E		D3, D0		
ADD	D3,D1	111430		D3, D1		
ADD	D3,D2	111432		D3, D2		
ADD	D3,D3	111434		D3, D3		
ADD	D3,D4	111436		D3, D4		
ADD	D3,D5	111438		D3, D5		
ADD	D3,D6	11143A		D3, D6		
ADD	D3,D7	11143C	ADD.W	D3, D7		
; D4 to all other data registers						
ADD	D4,D0	11143E	ADD.W	D4, D0		
ADD	D4,D1	111440	ADD.W	D4, D1		
ADD	D4,D2	111442	ADD.W	D4, D2		
ADD	D4,D3	111444	ADD.W	D4, D3		
ADD	D4,D4	111446	ADD.W	D4, D4		
ADD	D4,D5	111448	ADD.W	D4, D5		
ADD	D4,D6	11144A	ADD.W	D4, D6		
ADD	D4,D7	11144C	ADD.W	D4, D7		
; D5 to all other data registers						
ADD	D5,D0	11144E	ADD.W	D5, D0		
ADD	D5,D1	111450	ADD.W	D5, D1		
ADD	D5,D2	111452	ADD.W	D5, D2		
ADD	D5,D3	111454	ADD.W	D5, D3		
ADD	D5,D4	111456	ADD.W	D5, D4		
ADD	D5,D5	111458		D5, D5		
ADD	D5,D6	11145A		D5, D6		
ADD	D5,D7	11145C		D5, D7		
; D6 to all other data registers						
ADD	D6,D0	11145E	ADD.W	D6, D0		
ADD	D6,D1	111460		D6, D1		
ADD	D6,D2	111462		D6, D2		
ADD	D6,D3	111464		D6, D3		
, 100	,	111704	7.00 • 11	-	Bevond Compare v4.2.10	

 $Right file: D: \label{line: D: Source of the continuous} Right file: D: \label{line: D: Source of the continuous} Right file: D: \label{line: D: Source of the continuous} Right file: D: \label{line: D: Source of the continuous} Right file: D: \label{line: D: Source of the continuous} Right file: D: \label{line: D: Source of the continuous} Right file: D: \label{line: D: Source of the continuous} Right file: D: \label{line: D: Source of the continuous} Right file: D: \label{line: D: Source of the continuous} Right file: D: \label{line: D: Source of the continuous} Right file: D: \label{line: D: Source of the continuous} Right file: D: \label{line: D: Source of the continuous} Right file: D: \label{line: D: Source of the continuous} Right file: D: \label{line: D: Source of the continuous} Right file: D: \label{line: D: Source of the continuous} Right file: D: \label{line: D: Source of the continuous} Right file: D: \label{line: D: Source of the continuous} Right file: D: \label{line: D: Source of the continuous} Right file: Right file: D: \label{line: D: Source of the continuous} Right file: R$

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(continued)
                                                            ADD.W
    ADD
                D6,D4
                                                    111466
                                                                             D6, D4
                                                                             D6, D5
   ADD
                D6,D5
                                                    111468
                                                            ADD.W
   ADD
                D6, D6
                                                    11146A
                                                            ADD.W
                                                                             D6, D6
                                                                             D6, D7
    ADD
                D6,D7
                                                    11146C
                                                            ADD.W
        ; D7 to all other data registers
                                                    11146E
                                                                             D7, D0
   ADD
                D7, D0
                                                            ADD.W
   ADD
                D7,D1
                                                    111470
                                                            ADD.W
                                                                             D7, D1
                D7, D2
                                                                             D7, D2
   ADD
                                                    111472 ADD.W
                                                                             D7, D3
   ADD
                D7, D3
                                                    111474
                                                            ADD.W
   ADD
                D7, D4
                                                    111476 ADD.W
                                                                             D7, D4
                D7,D5
                                                    111478 ADD.W
                                                                             D7, D5
   ADD
   ADD
                D7, D6
                                                    11147A
                                                            ADD.W
                                                                             D7, D6
   ADD
                D7,D7
                                                    11147C
                                                            ADD.W
                                                                             D7, D7
        ; D0 to all other address registers
                                                    11147E
                                                            ADDA.W
                                                                     D0, A0
   ADD
                D0,A0
                                                                     D0, A1
    ADD
                D0,A1
                                                    111480 ADDA.W
   ADD
                                                    111482 ADDA.W
                                                                     D0, A2
                D0,A2
   ADD
                D0,A3
                                                    111484 ADDA.W
                                                                     D0, A3
   ADD
                D0,A4
                                                    111486
                                                            ADDA.W
                                                                     D0, A4
   ADD
                D0,A5
                                                    111488
                                                            ADDA.W
                                                                     D0, A5
    ADD
                D0,A6
                                                    11148A
                                                            ADDA.W
                                                                     D0, A6
    ADD
                D0,A7
                                                    11148C ADDA.W
                                                                     D0, A7
        ; D1 to all other address registers
   ADD
                D1,A0
                                                    11148E
                                                            ADDA.W
                                                                     D1, A0
                D1,A1
                                                                     D1, A1
    ADD
                                                    111490
                                                            ADDA.W
                                                                     D1, A2
   ADD
                D1,A2
                                                    111492
                                                            ADDA.W
                D1,A3
                                                                     D1, A3
    ADD
                                                    111494 ADDA.W
   ADD
                D1,A4
                                                    111496
                                                            ADDA.W
                                                                     D1, A4
   ADD
                D1,A5
                                                    111498
                                                            ADDA.W
                                                                     D1, A5
    ADD
                D1,A6
                                                    11149A
                                                            ADDA.W
                                                                     D1, A6
   ADD
                D1,A7
                                                    11149C
                                                            ADDA.W
                                                                     D1, A7
        ; D2 to all other address registers
   ADD
                D2,A0
                                                    11149E
                                                            ADDA.W
                                                                     D2, A0
                D2,A1
                                                            ADDA.W
                                                                     D2, A1
    ADD
                                                    1114A0
   ADD
                D2,A2
                                                    1114A2 ADDA.W
                                                                     D2, A2
    ADD
                D2,A3
                                                    1114A4 ADDA.W
                                                                     D2, A3
    ADD
                D2,A4
                                                    1114A6
                                                            ADDA.W
                                                                     D2, A4
                                                    1114A8 ADDA.W
   ADD
                D2,A5
                                                                     D2, A5
    ADD
                D2,A6
                                                    1114AA
                                                            ADDA.W
                                                                     D2, A6
    ADD
                D2,A7
                                                    1114AC
                                                            ADDA.W
                                                                     D2, A7
        ; D3 to all other address registers
                                                    1114AE
                                                                     D3, A0
                                                            ADDA.W
    ADD
                D3,A0
    ADD
                D3,A1
                                                    1114B0
                                                            ADDA.W
                                                                     D3, A1
                                                            ADDA.W
   ADD
                D3,A2
                                                    1114B2
                                                                     D3, A2
   ADD
                D3,A3
                                                    1114B4
                                                            ADDA.W
                                                                     D3, A3
    ADD
                D3,A4
                                                    1114B6
                                                            ADDA.W
                                                                     D3, A4
                                                            ADDA.W
    ADD
                D3,A5
                                                    1114B8
                                                                     D3, A5
    ADD
                                                                     D3, A6
                D3,A6
                                                    1114BA
                                                            ADDA.W
    ADD
                D3,A7
                                                    1114BC
                                                            ADDA.W
                                                                     D3, A7
       ; D4 to all other address registers
```

Right file: D:\Source\github\CSS422 Hardware\Disassembler\Output.txt

```
(continued)
    ADD
                D4,A0
                                                     1114BE
                                                                      D4, A0
                                                             ADDA.W
    ADD
                D4,A1
                                                     1114C0
                                                             ADDA.W
                                                                      D4, A1
   ADD
                D4,A2
                                                     1114C2
                                                             ADDA.W
                                                                      D4, A2
                                                                      D4, A3
   ADD
                D4,A3
                                                     1114C4
                                                             ADDA.W
                D4,A4
                                                     1114C6
                                                             ADDA.W
                                                                      D4, A4
   ADD
                                                                      D4, A5
                D4,A5
                                                     1114C8
                                                             ADDA.W
    ADD
    ADD
                D4,A6
                                                     1114CA
                                                             ADDA.W
                                                                      D4, A6
   ADD
                D4,A7
                                                     1114CC
                                                             ADDA.W
                                                                      D4, A7
        ; D5 to all other address registers
                D5,A0
                                                     1114CE
                                                             ADDA.W
                                                                      D5, A0
    ADD
                                                             ADDA.W
                                                                      D5, A1
    ADD
                D5,A1
                                                     1114D0
   ADD
                D5,A2
                                                     1114D2
                                                             ADDA.W
                                                                      D5, A2
                                                                      D5, A3
   ADD
                D5,A3
                                                     1114D4
                                                             ADDA.W
    ADD
                D5,A4
                                                     1114D6
                                                             ADDA.W
                                                                      D5, A4
                                                             ADDA.W
                                                                      D5, A5
   ADD
                D5,A5
                                                     1114D8
    ADD
                D5,A6
                                                     1114DA
                                                             ADDA.W
                                                                      D5, A6
    ADD
                                                             ADDA.W
                D5,A7
                                                     1114DC
                                                                      D5, A7
        ; D6 to all other address registers
                                                     1114DE
                                                             ADDA.W
                                                                      D6, A0
    ADD
                D6,A0
   ADD
                D6,A1
                                                     1114E0
                                                             ADDA.W
                                                                      D6, A1
                                                                      D6, A2
                D6,A2
                                                     1114E2
                                                             ADDA.W
    ADD
   ADD
                D6,A3
                                                     1114E4
                                                             ADDA.W
                                                                      D6, A3
                D6,A4
                                                     1114E6
                                                             ADDA.W
                                                                      D6, A4
    ADD
   ADD
                D6,A5
                                                     1114E8
                                                             ADDA.W
                                                                      D6, A5
   ADD
                D6,A6
                                                     1114EA
                                                             ADDA.W
                                                                      D6, A6
    ADD
                D6,A7
                                                     1114EC
                                                             ADDA.W
                                                                      D6, A7
        ; D7 to all other address registers
                                                                      D7, A0
    ADD
                D7,A0
                                                     1114EE
                                                             ADDA.W
                                                                      D7, A1
    ADD
                D7,A1
                                                     1114F0
                                                             ADDA.W
   ADD
                D7,A2
                                                     1114F2
                                                             ADDA.W
                                                                      D7, A2
    ADD
                D7,A3
                                                     1114F4
                                                             ADDA.W
                                                                      D7, A3
   ADD
                D7,A4
                                                     1114F6
                                                             ADDA.W
                                                                      D7, A4
                D7,A5
                                                                      D7, A5
    ADD
                                                     1114F8
                                                             ADDA.W
    ADD
                D7,A6
                                                     1114FA
                                                             ADDA.W
                                                                      D7, A6
    ADD
                D7,A7
                                                     1114FC
                                                             ADDA.W
                                                                      D7, A7
        ; values from all address registers to
  Α0
   ADD
                 (A0),A0
                                                     1114FE
                                                             ADDA.W
                                                                      (A0), A0
   ADD
                 (A1),A0
                                                     111500
                                                             ADDA.W
                                                                      (A1), A0
                                                                      (A2), A0
                                                             ADDA.W
   ADD
                 (A2),A0
                                                     111502
   ADD
                 (A3),A0
                                                     111504
                                                             ADDA.W
                                                                      (A3), A0
    ADD
                                                     111506
                                                             ADDA.W
                                                                      (A4), A0
                 (A4),A0
    ADD
                                                     111508
                                                             ADDA.W
                                                                      (A5), A0
                 (A5),A0
    ADD
                 (A6),A0
                                                     11150A
                                                             ADDA.W
                                                                      (A6), A0
    ADD
                 (A7),A0
                                                     11150C
                                                             ADDA.W
                                                                      (A7), A0
        ; values from all address registers to
   A1
    ADD
                 (A0),A1
                                                     11150E
                                                             ADDA.W
                                                                      (A0), A1
    ADD
                 (A1),A1
                                                     111510
                                                             ADDA.W
                                                                      (A1), A1
    ADD
                 (A2),A1
                                                     111512
                                                             ADDA.W
                                                                      (A2), A1
    ADD
                (A3),A1
                                                     111514
                                                             ADDA.W
                                                                      (A3), A1
```

 $Right file: D: \label{line: D: Source of the continuous} \label{line: D: Source of the continuous} Right file: D: \label{line: D: Source of the continuous} All the continuous states of the conti$

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(continued)
    ADD
                (A4),A1
                                                                    (A4), A1
                                                   111516
                                                            ADDA.W
   ADD
                (A5),A1
                                                    111518
                                                            ADDA.W
                                                                    (A5), A1
                                                                    (A6), A1
   ADD
                (A6),A1
                                                   11151A
                                                            ADDA.W
   ADD
                (A7),A1
                                                   11151C
                                                            ADDA.W
                                                                    (A7), A1
       ; values from all address registers to
  A2
                                                           ADDA.W
                                                                    (A0), A2
   ADD
                (A0),A2
                                                   11151E
   ADD
                (A1),A2
                                                    111520
                                                            ADDA.W
                                                                    (A1), A2
   ADD
                (A2),A2
                                                    111522
                                                            ADDA.W
                                                                    (A2), A2
                                                                    (A3), A2
   ADD
                (A3),A2
                                                   111524 ADDA.W
   ADD
                (A4),A2
                                                   111526
                                                            ADDA.W
                                                                    (A4), A2
   ADD
                (A5),A2
                                                   111528
                                                           ADDA.W
                                                                    (A5), A2
   ADD
                (A6),A2
                                                    11152A
                                                            ADDA.W
                                                                    (A6), A2
                                                                    (A7), A2
    ADD
                (A7),A2
                                                   11152C
                                                           ADDA.W
        ; values from all address registers to
  Α3
   ADD
                (A0),A3
                                                   11152E
                                                           ADDA.W
                                                                    (A0), A3
   ADD
                                                            ADDA.W
                                                                    (A1), A3
                (A1),A3
                                                    111530
   ADD
                (A2),A3
                                                   111532
                                                           ADDA.W
                                                                    (A2), A3
                                                           ADDA.W
                                                                    (A3), A3
   ADD
                (A3),A3
                                                   111534
   ADD
                (A4),A3
                                                   111536
                                                            ADDA.W
                                                                    (A4), A3
                                                           ADDA.W
   ADD
                (A5),A3
                                                   111538
                                                                    (A5), A3
   ADD
                (A6),A3
                                                   11153A
                                                            ADDA.W
                                                                    (A6), A3
   ADD
                (A7), A3
                                                   11153C
                                                           ADDA.W (A7), A3
          ; values from all address registers
» to A4
   ADD
                (A0),A4
                                                   11153E
                                                            ADDA.W
                                                                    (A0), A4
   ADD
                (A1),A4
                                                   111540
                                                            ADDA.W
                                                                    (A1), A4
                                                    111542
                                                            ADDA.W
                                                                    (A2), A4
   ADD
                (A2),A4
   ADD
                (A3),A4
                                                    111544
                                                            ADDA.W
                                                                    (A3), A4
                                                                    (A4), A4
   ADD
                (A4),A4
                                                   111546
                                                            ADDA.W
                                                                    (A5), A4
   ADD
                                                   111548
                                                            ADDA.W
                (A5),A4
   ADD
                (A6),A4
                                                   11154A
                                                            ADDA.W
                                                                    (A6), A4
   ADD
                (A7),A4
                                                    11154C ADDA.W
                                                                    (A7), A4
   ; values from all address registers to
  Α5
   ADD
                (A0),A5
                                                   11154E ADDA.W
                                                                    (A0), A5
                                                            ADDA.W
                                                                    (A1), A5
   ADD
                (A1),A5
                                                    111550
   ADD
                (A2),A5
                                                    111552 ADDA.W
                                                                    (A2), A5
   ADD
                                                            ADDA.W
                                                                    (A3), A5
                (A3),A5
                                                    111554
                                                                    (A4), A5
   ADD
                                                            ADDA.W
                (A4),A5
                                                   111556
   ADD
                (A5),A5
                                                   111558
                                                            ADDA.W
                                                                    (A5), A5
   ADD
                (A6),A5
                                                    11155A
                                                            ADDA.W
                                                                    (A6), A5
   ADD
                (A7),A5
                                                   11155C ADDA.W (A7), A5
   ; values from all address registers to
  Α6
                                                            ADDA.W (A0), A6
    ADD
                (A0),A6
                                                   11155E
    ADD
                (A1),A6
                                                   111560
                                                           ADDA.W (A1), A6
```

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```
(continued)
    ADD
                (A2),A6
                                                                    (A2), A6
                                                   111562
                                                            ADDA.W
   ADD
                (A3),A6
                                                    111564
                                                            ADDA.W
                                                                    (A3), A6
   ADD
                (A4),A6
                                                    111566
                                                            ADDA.W
                                                                    (A4), A6
   ADD
                (A5),A6
                                                    111568
                                                            ADDA.W
                                                                    (A5), A6
                                                                    (A6), A6
    ADD
                                                    11156A
                                                            ADDA.W
                (A6),A6
   ADD
                (A7),A6
                                                   11156C
                                                           ADDA.W
                                                                    (A7), A6
   ; values from all address registers to
  Α7
   ADD
                (A0),A7
                                                    11156E ADDA.W
                                                                    (A0), A7
   ADD
                                                                    (A1), A7
                (A1),A7
                                                   111570 ADDA.W
   ADD
                (A2),A7
                                                   111572 ADDA.W
                                                                    (A2), A7
   ADD
                (A3),A7
                                                   111574 ADDA.W
                                                                    (A3), A7
   ADD
                (A4),A7
                                                    111576
                                                           ADDA.W
                                                                    (A4), A7
   ADD
                                                   111578 ADDA.W (A5), A7
                (A5), A7
    ADD
                (A6),A7
                                                   11157A ADDA.W
                                                                    (A6), A7
                                                   11157C ADDA.W (A7), A7
   ADD
                (A7),A7
        ; post-increment from all address regi
» sters to A0
    ADD
                (A0)+,A0
                                                   11157E
                                                           ADDA.W
                                                                    (A0)+, A0
                                                                    (A1)+, A0
   ADD
                (A1)+,A0
                                                    111580
                                                            ADDA.W
   ADD
                (A2)+,A0
                                                   111582
                                                           ADDA.W
                                                                    (A2)+, A0
                                                            ADDA.W
                                                                    (A3)+, A0
   ADD
                (A3) + , A0
                                                    111584
   ADD
                (A4)+,A0
                                                   111586
                                                            ADDA.W
                                                                    (A4)+, A0
    ADD
                (A5)+,A0
                                                    111588
                                                            ADDA.W
                                                                    (A5)+, A0
   ADD
                (A6)+,A0
                                                   11158A
                                                            ADDA.W
                                                                    (A6)+, A0
   ADD
                (A7)+,A0
                                                   11158C ADDA.W
                                                                    (A7)+, A0
        ; post-increment from all address regi
» sters to A1
   ADD
                (A0)+,A1
                                                    11158E
                                                            ADDA.W
                                                                    (A0)+, A1
    ADD
                                                                    (A1)+, A1
                (A1)+,A1
                                                   111590
                                                            ADDA.W
   ADD
                                                            ADDA.W
                                                                    (A2)+, A1
                (A2)+,A1
                                                   111592
   ADD
                (A3)+,A1
                                                   111594
                                                           ADDA.W
                                                                    (A3)+, A1
   ADD
                (A4)+,A1
                                                    111596
                                                            ADDA.W
                                                                    (A4)+, A1
   ADD
                                                    111598
                                                            ADDA.W
                                                                    (A5)+, A1
                (A5)+,A1
    ADD
                                                   11159A
                                                           ADDA.W
                                                                    (A6)+, A1
                (A6)+,A1
   ADD
                                                   11159C ADDA.W
                                                                    (A7)+, A1
                (A7)+,A1
        ; post-increment from all address regi
» sters to A2
    ADD
                (A0)+,A2
                                                   11159E
                                                            ADDA.W
                                                                    (A0)+, A2
                                                                    (A1)+, A2
    ADD
                                                   1115A0
                                                            ADDA.W
                (A1)+,A2
   ADD
                (A2)+,A2
                                                   1115A2 ADDA.W
                                                                    (A2)+, A2
   ADD
                (A3)+,A2
                                                   1115A4
                                                            ADDA.W
                                                                    (A3)+, A2
   ADD
                                                   1115A6
                                                           ADDA.W
                                                                    (A4)+, A2
                (A4)+,A2
    ADD
                (A5)+,A2
                                                   1115A8
                                                            ADDA.W
                                                                    (A5)+, A2
    ADD
                                                            ADDA.W
                                                                    (A6)+, A2
                (A6)+,A2
                                                    1115AA
                                                                    (A7)+, A2
    ADD
                (A7)+,A2
                                                   1115AC ADDA.W
        ; post-increment from all address regi
```

```
(continued)
```

» sters to A3	
ADD (A0)+,A3	1115AE ADDA.W (A0)+, A3
ADD (A1)+,A3	1115B0 ADDA.W (A1)+, A3
ADD (A2)+,A3	1115B2 ADDA.W (A2)+, A3
ADD (A3)+,A3	1115B4 ADDA.W (A3)+, A3
ADD (A4)+,A3	1115B6 ADDA.W (A4)+, A3
ADD (A5)+,A3	1115B8 ADDA.W (A5)+, A3
ADD (A6)+,A3	1115BA ADDA.W (A6)+, A3
ADD (A7)+,A3	1115BC ADDA.W (A7)+, A3
, , ,	, , ,
; post-increment from all address reg	ıi 📗
» sters to A4	
ADD (A0)+,A4	1115BE ADDA.W (A0)+, A4
ADD (A1)+,A4	1115C0 ADDA.W (A1)+, A4
ADD (A2)+,A4	1115C2 ADDA.W (A2)+, A4
ADD (A3)+,A4	1115C4 ADDA.W (A3)+, A4
ADD (A4)+,A4	1115C6 ADDA.W (A4)+, A4
ADD (A5)+,A4	1115C8 ADDA.W (A5)+, A4
ADD (A6)+,A4	1115CA ADDA.W (A6)+, A4
ADD (A7)+,A4	1115CC ADDA.W (A7)+, A4
, , ,	· / /
; post-increment from all address reg	ri
» sters to A5	
ADD (A0)+,A5	1115CE ADDA.W (A0)+, A5
ADD (A1)+,A5	1115D0 ADDA.W (A1)+, A5
ADD (A2)+,A5	1115D2 ADDA.W (A2)+, A5
ADD (A3)+,A5	1115D4 ADDA.W (A3)+, A5
ADD (A4)+,A5	1115D6 ADDA.W (A4)+, A5
ADD (A5)+,A5	1115D8 ADDA.W (A5)+, A5
ADD (A6)+,A5	1115DA ADDA.W (A6)+, A5
ADD (A7)+,A5	1115DC ADDA.W (A7)+, A5
; post-increment from all address reg	i
» sters to A6	
ADD (A0)+,A6	1115DE ADDA.W (A0)+, A6
ADD (A1)+,A6	1115E0 ADDA.W (A1)+, A6
ADD (A2)+,A6	1115E2 ADDA.W (A2)+, A6
ADD (A3)+,A6	1115E4 ADDA.W (A3)+, A6
ADD (A4)+,A6	1115E6 ADDA.W (A4)+, A6
ADD (A5)+,A6	1115E8 ADDA.W (A5)+, A6
ADD (A6)+,A6	1115EA ADDA.W (A6)+, A6
ADD (A7)+,A6	1115EC ADDA.W (A7)+, A6
; post-increment from all address re	eg
» isters to A7	
ADD (A0)+,A7	1115EE ADDA.W (A0)+, A7
ADD (A1)+,A7	1115F0 ADDA.W (A1)+, A7
ADD (A2)+,A7	1115F2 ADDA.W (A2)+, A7
ADD (A3)+,A7	1115F4 ADDA.W (A3)+, A7
ADD (A4)+,A7	1115F6 ADDA.W (A4)+, A7
ADD (A5)+,A7	1115F8 ADDA.W (A5)+, A7
ADD (A6)+,A7	1115FA ADDA.W (A6)+, A7
	Beyond Compare v4.2.10

Right file: D:\Source\github\CSS422_Hardware\Disassembler\Output.txt

(continued)

```
ADD
               (A7)+,A7
                                                 1115FC ADDA.W (A7)+, A7
 ; pre-decrement from all address regis
» ters to A0
   ADD
                                                  1115FE
                                                         ADDA.W
                                                                 -(A0), A0
               -(A0),A0
   ADD
                                                         ADDA.W
                                                                 -(A1), A0
               -(A1),A0
                                                  111600
   ADD
               -(A2),A0
                                                  111602
                                                         ADDA.W
                                                                 -(A2), A0
                                                                 -(A3), A0
   ADD
               -(A3),A0
                                                 111604 ADDA.W
   ADD
               -(A4),A0
                                                  111606
                                                         ADDA.W
                                                                 -(A4), A0
   ADD
                                                  111608
                                                         ADDA.W
                                                                 -(A5), A0
               -(A5),A0
                                                                 -(A6), A0
   ADD
               -(A6),A0
                                                 11160A ADDA.W
   ADD
               -(A7),A0
                                                 11160C ADDA.W -(A7), A0
  ; pre-decrement from all address regis
» ters to A1
   ADD
               -(A0),A1
                                                 11160E ADDA.W
                                                                 -(A0), A1
   ADD
               -(A1),A1
                                                  111610 ADDA.W
                                                                 -(A1), A1
   ADD
               -(A2),A1
                                                 111612 ADDA.W -(A2), A1
                                                         ADDA.W
                                                                 -(A3), A1
   ADD
               -(A3),A1
                                                  111614
   ADD
               -(A4),A1
                                                 111616 ADDA.W
                                                                 -(A4), A1
                                                         ADDA.W
                                                                 -(A5), A1
   ADD
               -(A5),A1
                                                 111618
   ADD
               -(A6),A1
                                                 11161A ADDA.W
                                                                 -(A6), A1
   ADD
                                                 11161C ADDA.W
                                                                 -(A7), A1
               -(A7),A1
  ; pre-decrement from all address regis
» ters to A2
   ADD
               -(A0),A2
                                                 11161E ADDA.W
                                                                 -(A0), A2
                                                                 -(A1), A2
   ADD
                                                 111620 ADDA.W
               -(A1),A2
   ADD
                                                         ADDA.W
                                                                 -(A2), A2
               -(A2),A2
                                                  111622
   ADD
               -(A3),A2
                                                 111624
                                                         ADDA.W
                                                                 -(A3), A2
   ADD
               -(A4),A2
                                                  111626
                                                         ADDA.W
                                                                 -(A4), A2
   ADD
               -(A5),A2
                                                  111628
                                                         ADDA.W
                                                                 -(A5), A2
                                                                 -(A6), A2
   ADD
                                                  11162A ADDA.W
               -(A6),A2
   ADD
                                                 11162C ADDA.W
                                                                 -(A7), A2
               -(A7),A2
 ; pre-decrement from all address regis
» ters to A3
   ADD
                                                                 -(A0), A3
               -(A0),A3
                                                 11162E ADDA.W
   ADD
                                                         ADDA.W
                                                                 -(A1), A3
               -(A1),A3
                                                  111630
                                                                 -(A2), A3
   ADD
               -(A2),A3
                                                 111632 ADDA.W
   ADD
                                                  111634 ADDA.W
                                                                 -(A3), A3
               -(A3),A3
   ADD
               -(A4),A3
                                                  111636 ADDA.W
                                                                 -(A4), A3
   ADD
                                                 111638 ADDA.W
                                                                 -(A5), A3
               -(A5),A3
   ADD
                                                 11163A
                                                         ADDA.W
                                                                 -(A6), A3
               -(A6),A3
   ADD
               -(A7),A3
                                                 11163C ADDA.W -(A7), A3
       ; pre-decrement from all address regis
» ters to A4
   ADD
               -(A0),A4
                                                 11163E
                                                         ADDA.W
                                                                 -(A0), A4
   ADD
               -(A1),A4
                                                 111640
                                                         ADDA.W
                                                                 -(A1), A4
   ADD
               -(A2),A4
                                                 111642
                                                         ADDA.W
                                                                 -(A2), A4
   ADD
               -(A3),A4
                                                 111644 ADDA.W
                                                                 -(A3), A4
```

 $Right file: D: \label{line: D: Source of the continuous} Right file: D: \label{line: D: Source of the continuous} Right file: D: \label{line: D: Source of the continuous} Right file: D: \label{line: D: Source of the continuous} Right file: D: \label{line: D: Source of the continuous} Right file: D: \label{line: D: Source of the continuous} Right file: D: \label{line: D: Source of the continuous} Right file: D: \label{line: D: Source of the continuous} Right file: D: \label{line: D: Source of the continuous} Right file: D: \label{line: D: Source of the continuous} Right file: D: \label{line: D: Source of the continuous} Right file: D: \label{line: D: Source of the continuous} Right file: D: \label{line: D: Source of the continuous} Right file: D: \label{line: D: Source of the continuous} Right file: D: \label{line: D: Source of the continuous} Right file: D: \label{line: D: Source of the continuous} Right file: D: \label{line: D: Source of the continuous} Right file: D: \label{line: D: Source of the continuous} Right file: Right file: D: \label{line: D: Source of the continuous} Right file: R$

```
(continued)
```

```
ADD
                -(A4),A4
    ADD
                -(A5),A4
                -(A6),A4
    ADD
    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
```

```
111646
               -(A4), A4
       ADDA.W
111648
       ADDA.W
               -(A5), A4
11164A
       ADDA.W
               -(A6), A4
11164C
       ADDA.W
               -(A7), A4
11164E
       ADDA.W
               -(A0), A5
111650
       ADDA.W
               -(A1), A5
111652
       ADDA.W
               -(A2), A5
               -(A3), A5
111654 ADDA.W
111656 ADDA.W
               -(A4), A5
               -(A5), A5
111658 ADDA.W
11165A
       ADDA.W
               -(A6), A5
11165C ADDA.W -(A7), A5
11165E
       ADDA.W
               -(A0), A6
111660
       ADDA.W
               -(A1), A6
111662 ADDA.W
               -(A2), A6
111664 ADDA.W
               -(A3), A6
111666 ADDA.W
               -(A4), A6
111668
       ADDA.W
               -(A5), A6
11166A
       ADDA.W
               -(A6), A6
11166C
       ADDA.W
               -(A7), A6
11166E
       ADDA.W
               -(A0), A7
111670 ADDA.W -(A1), A7
```

```
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)
                 #01,-(A6)
    ADD
    ADD
                 #01,-(A7)
        ; absolute short to all data registers
    ADD
                 $01,D0
    ADD
                 $01,D1
    ADD
                 $01,D2
    ADD
                 $01,D3
    ADD
                 $01,D4
                 $01,D5
    ADD
    ADD
                 $01,D6
    ADD
                 $01,D7
        ; absolute long to all data registers
    ADD
                 $0A05,A0
    ADD
                 $0A05,A1
    ADD
                 $0A05,A2
    ADD
                 $0A05,A3
                 $0A05,A4
    ADD
    ADD
                 $0A05,A5
    ADD
                 $0A05,A6
```

ADD

\$0A05,A7

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