Mode: All

Left file: D:\Source\github\CSS422 Hardware\Disassembler\UnitTests\Test 002.X68

```
» ==============
 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
                                                   00111112
                                                                   BCLR
                                                                           D0, D7
                D7, (A7)
                                                                           D7, (A7)
   BCLR
                                                   00111114
                                                                   BCLR
   BCLR
                D0,(A0)+
                                                   00111116
                                                                   BCLR
                                                                           D0, (A0)+
                D7,-(A7)
                                                                   BCLR
                                                                           D7, -(A7)
   BCLR
                                                   00111118
                D0,$FFFF
                                                                   BCLR
                                                                           D0, $0000FFFF
   BCLR
                                                   0011111A
                                                   00111120
   BCLR
                D7,$55555
                                                                   BCLR
                                                                           D7, $00055555
* ORI
   ORI.W
                #$1111,D0
                                                   00111126
                                                                   ORI.W
                                                                           #$1111, D0
                                                                           #$AAAA, (A0)+
   ORI.W
                #$AAAA,(A0)+
                                                   0011112A
                                                                   ORI.W
   ORI.W
                #$0000,-(A0)
                                                                   ORI.W
                                                                           #$0000, -(A0)
                                                   0011112E
   ORI.L
                #$FFFFF,D0
                                                   00111132
                                                                   ORI.L
                                                                           #$000FFFFF, D0
   ORI.L
                #$55555,(A0)+
                                                                   ORI.L
                                                                           #$<mark>000</mark>55555, (A0)+
                                                   00111138
                #$AAAAA,-(A0)
                                                                   ORI.L
                                                                           #$000AAAAA, -(A0)
   ORI.L
                                                   0011113E
* CMPI
   CMPI.W
               #$1111,D0
                                                   00111144
                                                                   CMPI.W #$1111, D0
   CMPI.W
                #$AAAA,(A0)+
                                                   00111148
                                                                   CMPI.W \#$AAAA, (A0)+
                                                                   CMPI.W #$0000, -(A0)
   CMPI.W
                #$0000,-(A0)
                                                   0011114C
                #$FFFF,D0
                                                                   CMPI.L #$000FFFFF, D0
   CMPI.L
                                                   00111150
                #$55555,(A0)+
                                                                   CMPI.L \#$00055555, (A0)+
   CMPI.L
                                                   00111156
    CMPI.L
               #$AAAAA,-(A0)
                                                   0011115C
                                                                   CMPI.L #$000AAAAA, -(A0)
* MOVE.B
   MOVE.B
                #$0F,D0
                                                   00111162
                                                                   MOVE.B #000F, D0
   MOVE.B
                D7, (A7)
                                                   00111166
                                                                   MOVE.B D7, (A7)
   MOVE.B
                D7,(A0)+
                                                                   MOVE.B D7, (A0)+
                                                   00111168
                                                                   MOVE.B D0, -(A7)
   MOVE.B
                D0,-(A7)
                                                   0011116A
   MOVE.B
                $1000,D0
                                                   0011116C
                                                                   MOVE.B $1000, D0
   MOVE.B
                $10000,D0
                                                   00111170
                                                                   MOVE.B $00010000, D0
   MOVE.W
                #$AA,D0
                                                   00111176
                                                                   MOVE.W #$00AA, D0
                                                                   MOVEA.W D7, A0
   MOVE.W
                D7,A0
                                                   0011117A
                                                                   MOVE.W D7, (A7)
   MOVE.W
                D7, (A7)
                                                   0011117C
                                                                   MOVE.W D0, (A0)+
   MOVE.W
                D0,(A0)+
                                                   0011117E
                                                                   MOVE.W D7, -(A7)
   MOVE.W
                D7,-(A7)
                                                   00111180
```

```
(continued)
   MOVE.W
                $5555,D0
                                                   00111182
                                                                    MOVE.W $5555, D0
                                                                    MOVE.W $000AAAAA, D0
   MOVE.W
                $AAAAA,D0
                                                    00111186
   MOVE.L
                #$AA,D0
                                                    0011118C
                                                                    MOVE.L #$00AA, D0
                                                                    MOVEA.L D0, A0
                D0,A0
   MOVE.L
                                                    00111192
                                                                    MOVE.L D0, (A0)
   MOVE.L
                D0, (A0)
                                                    00111194
                                                                    MOVE.L D0, (A0)+
   MOVE.L
                D0,(A0)+
                                                    00111196
   MOVE.L
                D0,-(A0)
                                                    00111198
                                                                    MOVE.L D0, -(A0)
                $1000,D0
                                                                    MOVE.L $1000, D0
   MOVE.L
                                                   0011119A
   MOVE.L
                $10000,D0
                                                   0011119E
                                                                    MOVE.L $00010000, D0
* MOVEA.W
   MOVEA.W
                D7,A0
                                                    001111A4
                                                                    MOVEA.W D7, A0
                (A0),A7
                                                                    MOVEA.W (A0), A7
   MOVEA.W
                                                    001111A6
   MOVEA.W
                (A0)+,A7
                                                    001111A8
                                                                    MOVEA.W (A0)+, A7
   MOVEA.W
                -(A7),A0
                                                    001111AA
                                                                    MOVEA.W -(A7), A0
                                                                    MOVEA.W $0000AAAA, A0
   MOVEA.W
                $AAAA,A0
                                                   001111AC
                                                                    MOVEA.W $00055555, A0
   MOVEA.W
                $55555,A0
                                                    001111B2
   MOVEA.L
                D0,A0
                                                   001111B8
                                                                    MOVEA.L D0, A0
                                                                    MOVEA.L D7, A0
   MOVEA.L
                D7,A0
                                                    001111BA
   MOVEA.L
                (A7),A0
                                                    001111BC
                                                                    MOVEA.L (A7), A0
                                                                    MOVEA.L (A0)+, A7
   MOVEA.L
                (A0)+,A7
                                                    001111BE
                                                                    MOVEA.L -(A7), A0
   MOVEA.L
                -(A7),A0
                                                    001111C0
                                                                    MOVEA.L $0000FFAA, A7
   MOVEA.L
                $FFAA,A7
                                                    001111C2
   MOVEA.L
                $FFAA5,A0
                                                    001111C8
                                                                    MOVEA.L $000FFAA5, A0
                                                   001111CE
                                                                    NOP
                                                   001111D0
                                                                    RTS
» -----
* NOP, RTS, ILLEGAL
 _____
   NOP
   RTS
   ILLEGAL
                                                   001111D2
                                                                    ILLEGAL
* LEA
   LEA
                (A7), A0
                                                    001111D4
                                                                    LEA
                                                                                     (A7), A0
    LEA
                $FFAA,A0
                                                    001111D6
                                                                    LEA
                                                                                     $0000FFAA, A0
                                                                                     $000AA551, A7
    LEA
                $AA551,A7
                                                    001111DC
                                                                    LEA
                                                   001111E2
                                                                    NEG.W
                                                                            D0
```

```
* NEG
    NEG
                D0
                (A6)
                                                                            (A6)
   NEG
                                                    001111E4
                                                                    NEG.W
                (A0)+
   NEG
                                                    001111E6
                                                                            (A0)+
                                                                    NEG.W
   NEG
                -(A1)
                                                    001111E8
                                                                    NEG.W
                                                                            -(A1)
                $AAFF
                                                                            $0000AAFF
   NEG
                                                   001111EA
                                                                    NEG.W
   NEG
                $55FAA
                                                   001111F0
                                                                    NEG.W
                                                                            $00055FAA
* JSR
   JSR
                (A6)
                                                   001111F6
                                                                    JSR
                                                                                     (A6)
   JSR
                $AAFF
   JSR
             $55FAA
* MOVEM
                                                   001111F8
                                                                    JSR
                                                                                    $0000AAFF
                                                                    JSR
                                                   001111FE
                                                                                    $00055FAA
* SUBO.x
   SUBQ.B
                #1,D0
                                                    00111204
                                                                    SUBQ.B #1, D0
   SUBQ.B
                #3,(A7)
                                                                    SUBQ.B #3, (A7)
                                                    00111206
   SUBQ.B
                #4,(A0)+
                                                                    SUBQ.B \#4, (A0)+
                                                    00111208
   SUBQ.B
                #5,-(A0)
                                                   0011120A
                                                                    SUBQ.B #5, -(A0)
                #6,$AAFF
                                                                    SUBQ.B #6, $0000AAFF
   SUBQ.B
                                                    0011120C
                                                                    SUBQ.B #7, $000AFAF5
                #7,$AFAF5
   SUBQ.B
                                                   00111212
   SUBQ.W
                #1,D0
                                                    00111218
                                                                    SUBQ.W #1, D0
                                                                    SUBQ.W #3, (A7)
   SUBQ.W
                #3,(A7)
                                                   0011121A
                                                                    SUBQ.W #4, (A0)+
   SUBQ.W
                #4,(A0)+
                                                    0011121C
                #5,-(A0)
                                                                    SUBQ.W #5, -(A0)
   SUBQ.W
                                                   0011121E
                                                                    SUBQ.W #6, $0000AAFF
   SUBQ.W
                #6,$AAFF
                                                   00111220
                #7,$AFAF5
                                                                    SUBQ.W #7, $000AFAF5
   SUBQ.W
                                                    00111226
                                                                    SUBQ.L #1, D0
   SUBQ.L
                #1,D0
                                                   0011122C
                                                                    SUBQ.L #3, (A7)
   SUBQ.L
                #3,(A7)
                                                   0011122E
                                                                    SUBQ.L #4, (A0)+
   SUBQ.L
                #4,(A0)+
                                                   00111230
                                                                    SUBQ.L #5, -(A0)
   SUBQ.L
                #5,-(A0)
                                                   00111232
                                                                    SUBQ.L #6, $0000AAFF
   SUBQ.L
                #6,$AAFF
                                                   00111234
                #7,$AFAF5
                                                                    SUBQ.L #7, $000AFAF5
    SUBQ.L
                                                   0011123A
```

,				• • •
10	nn	tın	ue	d١
10	ווטי	u	uc	u,

* DIVS						
*						
»						
DIVS	D0,D1		00111240	DIVS	D0, D1	
	(A1)+,D1		00111242	DIVS	(A1)+, D1	
DIVS	-(A2),D2		00111244	DIVS	-(A2), D2	
	# <mark>0</mark> 1,D1		00111244	DIVS	#\$0001, D1	
	-		00111240 0011124A	DIVS	\$0000AAFF,	D1
	\$AAFF,D1					
DIVS	\$FFAA5,D2		00111250	DIVS	\$000FFAA5,	D2
*			00111256	OR.W	D0, D1	
»	· <del>-</del>					
* OR						
»						
OR	-					
OR			00111258	OR.W	(A0), D0	
OR	(A0)+,D7		0011125A	OR.W	(A0)+, D7	
OR	-(A7),D0		0011125C	OR.W	-(A7), D0	
OR	#02,D1					
			0011125E	OR.W	#\$0002, D1	
*						
»						
* SUB						
»						
SUB	D0,D1		00111262	SUB.W	D0, D1	
SUB	A0,D0		00111264	SUB.W	A0, D0	
SUB	(A0),D0		00111264	SUB.W	(A0), D0	
SUB	(A0)+,D0		00111268	SUB.W	(A0)+, D0	
SUB	-(A7),D1		00111208 0011126A	SUB.W	-(A7), D1	
SUB	# <mark>0</mark> 2,D1		0011126A	SUBQ.W		
SUB	-		0011126E	SUB.W	#2, DI \$0000AAFF,	DO
SUB	\$AAFF,D0		00111202		-	
*	\$AFAF5,D1		00111274	SUB.W	\$000AFAF5,	DΙ
»	· <del>-</del>					
* CMP						
*						
»	DO D1		00111071	CMD	DO 54	
CMP	D0,D1		0011127A	CMP .W	D0, D1	
CMP	A0,D0		0011127C	CMP.W	A0, D0	
CMP	(A0),D0		0011127E	CMP.W	(A0), D0	
CMP	(A0)+,D0		00111280	CMP.W	(A0)+, D0	
CMP	-(A7),D1		00111282	CMP.W	-(A7), D1	
CMP	# <mark>0</mark> 2,D1		00111284	CMP.W	# <b>\$</b> 0002, D1	
CMP	\$AAFF,D0		00111288	CMP.W	\$0000AAFF,	
CMP	\$AFAF5,D1		0011128E	CMP.W	\$ <mark>000</mark> AFAF5,	D1
*						
»						
* EOR						
*						
»	_					
		ı	I		В	eyond Compare v4.2.10

(continu	ed)						
EO	)R	D0,D1		00111294	EOR.W	D0, D1	
EO	)R	D0,(A0)		00111296	EOR.W	D0, (A0)	
EO	)R	D0,(A0)+		00111298	EOR.W	D0, (A0)+	
EO	)R	D0,-(A7)		0011129A	EOR.W	D0, -(A7)	
EO		#\$AAFF,D0		0011129C	EORI.W	#\$AAFF, D0	
		#\$AFAF5,D1		001112A0	BCLR	#\$ <mark>000</mark> A, D1	
		<del>.</del>		001112A4	DATA	FAF5	
*				001111	2	.,	
»							
* MULS							
*	, 						
»							
MI I	JLS	D0,D1		001112A6	MULS	D0, D1	
		(A0),D0		001112A0	MULS	(A0), D0	
		(A0)+,D0		001112A8	MULS	(A0)+, D0	
	JLS II. C	-(A7),D1		001112AC	MULS	-(A7), D1	
		#02,D1		001112AE	MULS	#\$0002, D1	
		\$AAFF,D0		001112B2	MULS	\$0000AAFF,	
MU	JLS	\$AFAF5,D1		001112B8	MULS	\$000AFAF5,	ŊΙ
*							
<i>''</i>							
* ADD							
*							
»							
AD		D0,D1		001112BE	ADD.W	D0, D1	
AD		D0,A0		001112C0	ADDA.W	D0, A0	
AD		(A0),D0		001112C2	ADD.W	(A0), D0	
AD	)D	(A0)+,D0		001112C4	ADD.W	(A0)+, D0	
AD	)D	-(A7),D1		001112C6	ADD.W	-(A7), D1	
AD	)D	# <mark>0</mark> 2,D1		001112C8	ADDQ.W	#2, D1	
AD	D	\$AAFF,D0		001112CA	ADD.W	\$0000AAFF,	
AD	D	\$AFAF5,D1		001112D0	ADD.W	\$ <mark>000</mark> AFAF5,	D1
*							
»							
* ADDA	<b>\</b>						
*							
»							
AD	DDA	D0,A0		001112D6	ADDA.W	D0, A0	
AD	DA	D0,A0		001112D8	ADDA.W	D0, A0	
AD	DDA	(A0),A0		001112DA	ADDA.W	(A0), A0	
AD	DDA	(A0)+,A0		001112DC	ADDA.W	(A0)+, A0	
AD	DDA	-(A7),A1		001112DE	ADDA.W	-(A7), A1	
AD	DDA	# <mark>0</mark> 2,A1		001112E0	ADDQ.W	#2, A1	
AD	DDA	\$AAFF,A0		001112E2	ADDA.W	\$0000AAFF,	A0
AD		\$AFAF5,A7		001112E8	ADDA.W	\$ <mark>000</mark> AFAF5,	A7
*							
»							
* ASR							
*							
»							
AS	SR	(A0)		001112EE	ASR	(A0)	
AS		(A7)+		001112F0	ASR	(A7)+	
		•	1			•	Beyond Compare v/ 2 10

Beyond Compare v4.2.10

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(continued) -(A0) ASR ASR 001112F2 -(A0) ASR \$AFAF 001112F4 ASR \$0000AFAF ASR \$FFAA550 001112FA ASR **\$0**FFAA550 \* ASL (A0) ASL (A0) 00111300 ASL ASL (A7)+00111302 ASL (A7)+ASL -(A0) ASL -(A0) 00111304 ASL \$AFAF ASL \$0000AFAF 00111306 ASL \$FFAA550 0011130C ASL **\$0**FFAA550 \* LSR LSR (A0) 00111312 LSR (A0) LSR (A7)+LSR (A7)+00111314 LSR -(A0) 00111316 LSR -(A0) LSR \$AFAF 00111318 LSR \$0000AFAF LSR \$FFAA550 0011131E LSR \$0FFAA550 \* LSL LSL (A0) 00111324 LSL (A0) LSL (A7)+00111326 LSL (A7)+-(A0) LSL 00111328 LSL -(A0) LSL \$AFAF LSL \$0000AFAF 0011132A LSL \$FFAA550 LSL \$0FFAA550 00111330 \* ROL ROL (A0) ROL (A0) 00111336 ROL (A7)+00111338 ROL (A7)+ROL -(A0) -(A0) 0011133A ROL ROL \$AFAF 0011133C ROL \$0000AFAF ROL \$FFAA550 \$0FFAA550 00111342 ROL \* ROR (A0) ROR (A0) ROR 00111348 ROR (A7)+0011134A ROR (A7)+ROR -(A0) 0011134C ROR -(A0)

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(continued)				
ROR	\$AFAF	0011134E	ROR	\$ <mark>000</mark> 0AFAF
	\$FFAA550	00111354	ROR	\$ <mark>0</mark> FFAA550
*		00111334	KOK	שכנאת ו ווסע
*				
»				
* BRUTE-FORCE '	VERIFICATION			
*				
»				
. DQ +	a all other data medictors			
	o all other data registers			
ADD	D0,D0	0011135A	ADD.W	D0, D0
ADD	D0,D1	0011135C	ADD.W	D0, D1
ADD	D0,D2	0011135E	ADD.W	D0, D2
ADD	D0,D3	00111360	ADD.W	D0, D3
ADD	D0,D4	00111362	ADD.W	D0, D4
ADD	D0,D5	00111364	ADD.W	D0, D5
	-			
ADD	D0,D6	00111366	ADD.W	D0, D6
ADD	D0,D7	00111368	ADD.W	D0, D7
; D1 to	o all other data registers			
ADD	D1,D0	0011136A	ADD.W	D1, D0
ADD	D1,D1	0011136C	ADD.W	D1, D1
ADD	D1,D2	0011136E	ADD.W	D1, D2
ADD	D1,D3	00111370	ADD.W	D1, D3
	-			
ADD	D1,D4	00111372	ADD.W	D1, D4
ADD	D1,D5	00111374	ADD.W	D1, D5
ADD	D1,D6	00111376	ADD.W	D1, D6
ADD	D1,D7	00111378	ADD.W	D1, D7
; D2 to	o all other data registers			
ADD	D2,D0	0011137A	ADD.W	D2, D0
ADD	D2,D1	0011137C	ADD.W	D2, D1
ADD	D2,D2	0011137E	ADD.W	D2, D2
ADD	D2,D3	00111372	ADD.W	D2, D3
	-			
ADD	D2,D4	00111382	ADD.W	D2, D4
ADD	D2,D5	00111384	ADD.W	D2, D5
ADD	D2,D6	00111386	ADD.W	D2, D6
ADD	D2,D7	00111388	ADD.W	D2, D7
; D3 to	o all other data registers			
ADD	D3,D0	0011138A	ADD.W	D3, D0
ADD	D3,D1	0011138C	ADD.W	D3, D1
ADD	D3,D2	0011138E	ADD.W	D3, D2
ADD	D3,D3	00111390	ADD.W	D3, D3
ADD	D3,D4	00111392	ADD.W	D3, D4
ADD	D3, D5	00111394	ADD.W	D3, D5
ADD	D3,D6	00111396	ADD.W	D3, D6
ADD	D3,D7	00111398	ADD.W	D3, D7
; D4 to	o all other data registers			
ADD	D4,D0	0011139A	ADD.W	D4, D0
ADD	D4,D1	0011139C	ADD.W	D4, D1
ADD	D4,D2	0011139E	ADD.W	D4, D2
ADD	D4,D3		ADD.W	
		001113A0		D4, D3
ADD	D4, D4	001113A2	ADD.W	D4, D4
ADD	D4,D5	001113A4	ADD.W	D4, D5
ADD	D4,D6	001113A6	ADD.W	D4, D6
ADD	D4,D7	001113A8	ADD.W	D4, D7
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(con	itinued)		1			
		all other data registers				
	ADD	D5,D0	001113AA	ADD.W	D5, D0	
	ADD	D5,D1	001113AC	ADD.W	D5, D1	
	ADD	D5,D2	001113AE	ADD.W	D5, D2	
	ADD	D5,D3	001113B0	ADD.W	D5, D3	
	ADD	D5,D4	001113B2	ADD.W	D5, D4	
	ADD	D5,D5	001113B4	ADD.W	D5, D5	
	ADD	D5,D6	001113B6	ADD.W	D5, D6	
	ADD	D5,D7	001113B8	ADD.W	D5, D7	
•		all other data registers			- ,	
	ADD	D6,D0	001113BA	ADD.W	D6, D0	
	ADD	D6,D1	001113BC	ADD.W	D6, D1	
	ADD	D6,D2	001113BE	ADD.W	D6, D2	
	ADD	D6,D3	001113C0	ADD.W	D6, D2	
	ADD	D6,D4	001113C0 001113C2	ADD.W	D6, D3	
	ADD	D6,D5	001113C2 001113C4	ADD.W ADD.W	D6, D4	
					•	
	ADD	D6, D6	001113C6	ADD.W	D6, D6	
	ADD	D6,D7	001113C8	ADD.W	D6, D7	
		all other data registers				
	ADD	D7,D0	001113CA	ADD.W	D7, D0	
	ADD	D7,D1	001113CC	ADD.W	D7, D1	
	ADD	D7,D2	001113CE	ADD.W	D7, D2	
	ADD	D7,D3	001113D0	ADD.W	D7, D3	
	ADD	D7,D4	001113D2	ADD.W	D7, D4	
	ADD	D7,D5	001113D4	ADD.W	D7, D5	
	ADD	D7,D6	001113D6	ADD.W	D7, D6	
	ADD	D7,D7	001113D8	ADD.W	D7, D7	
			001113DA	ADDA.W	D0, A0	
	; D0 to	all other address registers				
	ADD	D0,A0	001113DC	ADDA.W	D0, A1	
	ADD	D0, A1	001113DE	ADDA.W	D0, A2	
	ADD	D0,A2			-	
	ADD	D0,A3	001113E0	ADDA.W	D0, A3	
	ADD	D0,A4	001113E2	ADDA.W	-	
	ADD	D0,A5	001113E4	ADDA.W	-	
	ADD	D0,A6	001113E6	ADDA.W		
	ADD	D0,A7	001113E8		D0, A7	
	7.55	20,1	00111010		20,	
	• D1 to	all other address registers				
	ADD	D1,A0	001113EA	ADDA.W	D1, A0	
	ADD	D1,A1	001113EA	ADDA.W	-	
	ADD	D1,A2	001113EE	ADDA.W	-	
	ADD	D1,A2		ADDA.W		
			001113F0		-	
	ADD	D1,A4	001113F2	ADDA.W	-	
	ADD	D1,A5	001113F4	ADDA.W	-	
	ADD	D1,A6	001113F6	ADDA.W	-	
	ADD	D1,A7	001113F8	ADDA.W	-	
		77 11 11	001113FA	ADDA.W	D2, A0	
	; D2 to	all other address registers				
<b>»</b>						
	ADD	D2,A0	001113FC	ADDA.W	-	
	ADD	D2,A1	001113FE	ADDA.W	D2, A <mark>2</mark>	
						Reyond Compare v/l 2 10

	ADD	D2,A2				
	ADD	D2,A3	00111400	ADDA.W	D2,	Δ3
	ADD	D2,A4	00111402		-	
	ADD	D2,A5	00111404		-	
	ADD	D2,A6	00111404	ADDA.W	-	
		D2,A0	00111408		-	
	ADD	DZ,A7			-	
		P2 1 11 - 11	0011140A	ADDA.W	D3,	AU
		D3 to all other address registers	00111106	ADDA II	<b>D</b> 2	4.4
	ADD	D3,A0	0011140C		•	
	ADD	D3,A1	0011140E	ADDA.W	D3,	AZ
	ADD	D3,A2				
	ADD	D3,A3	00111410		D3,	
	ADD	D3,A4	00111412	ADDA.W		
	ADD	D3,A5	00111414	ADDA.W		
	ADD	D3,A6	00111416		-	
	ADD	D3,A7	00111418		-	
			0011141A	ADDA.W	D4,	A0
	;	D4 to all other address registers				
	ADD	D4,A <mark>0</mark>	0011141C		-	
	ADD	D4,A <mark>1</mark>	0011141E	ADDA.W	D4,	A2
	ADD	D4,A <mark>2</mark>	00111420	ADDA.W	D4,	A3
	ADD	D4,A3				
	ADD	D4,A4	00111422	ADDA.W	D4,	A4
	ADD	D4,A5	00111424	ADDA.W	D4,	A5
	ADD	D4,A6	00111426	ADDA.W	D4,	A6
	ADD	D4,A7	00111428	ADDA.W	D4,	A7
			0011142A	ADDA.W	D5,	A0
	;	D5 to all other address registers				
	ADD	D5,A <mark>0</mark>	0011142C	ADDA.W	D5,	A1
	ADD	D5,A <mark>1</mark>	0011142E	ADDA.W	D5,	A2
	ADD	D5,A2				
	ADD	D5,A3	00111430	ADDA.W	D5,	A3
	ADD	D5,A4	00111432	ADDA.W	D5,	A4
	ADD	D5,A5	00111434			
	ADD	D5,A6	00111436		D5,	
	ADD	D5,A7	00111438		D5,	
		·	0011143A	ADDA.W	D6,	
	;	D6 to all other address registers			- ,	
	ADD	D6,A0	0011143C	ADDA.W	D6,	A1
	ADD	D6,A <mark>1</mark>	0011143E	ADDA.W	D6,	
	ADD	D6,A2			,	
	ADD	D6,A3	00111440	ADDA.W	D6,	A3
	ADD	D6,A4	00111442	ADDA.W	D6,	
	ADD	D6,A5	00111444	ADDA.W	D6,	
	ADD	D6,A6	00111444	ADDA.W	D6,	
	ADD	D6,A7	00111448	ADDA.W	D6,	
	ADD	DO, A7	00111448 0011144A	ADDA.W	D7,	
		D7 to all other address registers	0011144A	ADDA . W	U/,	AU
	ADD	D7, A0	0011144C	ADD <mark>A.W</mark>	D7,	Δ1
	ADD	D7,A0 D7,A1	0011144C	ADDA.W ADDA.W	D7,	
	ADD	D7,A2	0011144	ADDA . W	υ/,	Π4
	ADD	D7,A2	00111450	ADDA.W	D7,	٨٦
	ADD	כא, וע	00111430	ADDA . W	υ/,	73

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(continued)
    ADD
                 D7,A4
                                                                                D7, A4
                                                      00111452
                                                                       ADDA.W
    ADD
                 D7,A5
                                                      00111454
                                                                       ADDA.W
                                                                                D7, A5
    ADD
                 D7,A6
                                                      00111456
                                                                       ADDA.W
                                                                                D7, A6
                                                                                D7, A7
   ADD
                 D7,A7
                                                      00111458
                                                                       ADDA.W
        ; values from all address registers to
  Α0
                 (A0),A0
                                                                                (A0), A0
    ADD
                                                      0011145A
                                                                       ADDA.W
    ADD
                 (A1),A0
                                                      0011145C
                                                                       ADDA.W
                                                                                (A1), A0
   ADD
                 (A2),A0
                                                                       ADDA.W
                                                                                (A2), A0
                                                      0011145E
                                                                                (A3), A0
    ADD
                 (A3),A0
                                                                       ADDA.W
                                                      00111460
   ADD
                 (A4),A0
                                                      00111462
                                                                       ADDA.W
                                                                                (A4), A0
   ADD
                 (A5),A0
                                                      00111464
                                                                       ADDA.W
                                                                                (A5), A0
    ADD
                 (A6),A0
                                                                       ADDA.W
                                                                                (A6), A0
                                                      00111466
                                                                       ADDA.W
                                                                               (A7), A0
    ADD
                 (A7),A0
                                                      00111468
        ; values from all address registers to
   A1
    ADD
                 (A0),A1
                                                      0011146A
                                                                       ADDA.W
                                                                                (A0), A1
                                                                       ADDA.W
    ADD
                                                                                (A1), A1
                 (A1),A1
                                                      0011146C
   ADD
                 (A2),A1
                                                      0011146E
                                                                       ADDA.W
                                                                                (A2), A1
                                                                       ADDA.W
                                                                                (A3), A1
    ADD
                 (A3), A1
                                                      00111470
    ADD
                 (A4),A1
                                                      00111472
                                                                       ADDA.W
                                                                                (A4), A1
                                                                                (A5), A1
    ADD
                 (A5),A1
                                                      00111474
                                                                       ADDA.W
    ADD
                 (A6),A1
                                                      00111476
                                                                       ADDA.W
                                                                                (A6), A1
                 (A7),A1
                                                                       ADDA.W
                                                                               (A7), A1
    ADD
                                                      00111478
        ; values from all address registers to
  A2
>>
    ADD
                 (A0),A2
                                                      0011147A
                                                                       ADDA.W
                                                                                (A0), A2
   ADD
                 (A1),A2
                                                      0011147C
                                                                       ADDA.W
                                                                                (A1), A2
                 (A2),A2
                                                                       ADDA.W
                                                                                (A2), A2
    ADD
                                                      0011147E
                                                                                (A3), A2
   ADD
                 (A3),A2
                                                      00111480
                                                                       ADDA.W
                                                                                (A4), A2
                 (A4),A2
                                                                       ADDA.W
    ADD
                                                      00111482
    ADD
                 (A5),A2
                                                                       ADDA.W
                                                                                (A5), A2
                                                      00111484
    ADD
                 (A6),A2
                                                      00111486
                                                                       ADDA.W
                                                                                (A6), A2
    ADD
                 (A7),A2
                                                      00111488
                                                                       ADDA.W
                                                                                (A7), A2
        ; values from all address registers to
   А3
    ADD
                 (A0),A3
                                                      0011148A
                                                                       ADDA.W
                                                                                (A0), A3
   ADD
                 (A1),A3
                                                      0011148C
                                                                       ADDA.W
                                                                                (A1), A3
                                                                                (A2), A3
                                                                       ADDA.W
    ADD
                 (A2),A3
                                                      0011148E
   ADD
                 (A3),A3
                                                      00111490
                                                                       ADDA.W
                                                                                (A3), A3
    ADD
                 (A4),A3
                                                                       ADDA.W
                                                                                (A4), A3
                                                      00111492
    ADD
                                                                       ADDA.W
                                                                                (A5), A3
                 (A5),A3
                                                      00111494
    ADD
                 (A6),A3
                                                      00111496
                                                                       ADDA.W
                                                                                (A6), A3
    ADD
                 (A7),A3
                                                      00111498
                                                                       ADDA.W
                                                                               (A7), A3
          ; values from all address registers
» to A4
    ADD
                 (A0),A4
                                                      0011149A
                                                                       ADDA.W
                                                                                (A0), A4
    ADD
                 (A1),A4
                                                      0011149C
                                                                       ADDA.W
                                                                                (A1), A4
                                                                                (A2), A4
    ADD
                 (A2),A4
                                                      0011149E
                                                                       ADDA.W
```

```
(continued)
    ADD
                 (A3),A4
                                                      001114A0
                                                                                (A3), A4
                                                                       ADDA.W
                                                                                (A4), A4
    ADD
                 (A4),A4
                                                      001114A2
                                                                       ADDA.W
    ADD
                 (A5),A4
                                                      001114A4
                                                                       ADDA.W
                                                                                (A5), A4
    ADD
                 (A6),A4
                                                      001114A6
                                                                       ADDA.W
                                                                                (A6), A4
                                                                       ADDA.W (A7), A4
                 (A7),A4
                                                      001114A8
    ADD
        ; values from all address registers to
  A5
>>
    ADD
                 (A0),A5
                                                      001114AA
                                                                       ADDA.W
                                                                                (A0), A5
    ADD
                 (A1),A5
                                                      001114AC
                                                                       ADDA.W
                                                                                (A1), A5
                                                                       ADDA.W
    ADD
                                                                                (A2), A5
                 (A2),A5
                                                      001114AE
    ADD
                 (A3),A5
                                                      001114B0
                                                                       ADDA.W
                                                                                (A3), A5
    ADD
                 (A4),A5
                                                      001114B2
                                                                       ADDA.W
                                                                               (A4), A5
    ADD
                 (A5),A5
                                                      001114B4
                                                                       ADDA.W
                                                                                (A5), A5
    ADD
                                                                       ADDA.W
                                                                               (A6), A5
                 (A6), A5
                                                      001114B6
    ADD
                 (A7),A5
                                                      001114B8
                                                                       ADDA.W
                                                                               (A7), A5
        ; values from all address registers to
   A6
    ADD
                 (A0),A6
                                                      001114BA
                                                                       ADDA.W
                                                                                (A0), A6
                                                                       ADDA.W
                                                                                (A1), A6
    ADD
                 (A1),A6
                                                      001114BC
    ADD
                 (A2),A6
                                                      001114BE
                                                                       ADDA.W
                                                                                (A2), A6
                                                                       ADDA.W
                                                                               (A3), A6
    ADD
                 (A3),A6
                                                      001114C0
                                                                                (A4), A6
    ADD
                 (A4),A6
                                                      001114C2
                                                                       ADDA.W
    ADD
                 (A5),A6
                                                                       ADDA.W
                                                                                (A5), A6
                                                      001114C4
                                                                                (A6), A6
    ADD
                 (A6),A6
                                                      001114C6
                                                                       ADDA.W
    ADD
                 (A7),A6
                                                      001114C8
                                                                       ADDA.W
                                                                               (A7), A6
        ; values from all address registers to
  Α7
    ADD
                 (A0),A7
                                                      001114CA
                                                                       ADDA.W
                                                                                (A0), A7
    ADD
                 (A1),A7
                                                      001114CC
                                                                       ADDA.W
                                                                                (A1), A7
                                                                                (A2), A7
    ADD
                 (A2),A7
                                                      001114CE
                                                                       ADDA.W
                                                                               (A3), A7
    ADD
                                                                       ADDA.W
                 (A3),A7
                                                      001114D0
    ADD
                 (A4),A7
                                                      001114D2
                                                                       ADDA.W
                                                                                (A4), A7
    ADD
                 (A5),A7
                                                      001114D4
                                                                       ADDA.W
                                                                                (A5), A7
    ADD
                                                                       ADDA.W
                                                                                (A6), A7
                 (A6),A7
                                                      001114D6
                                                                       ADDA.W
                                                                                (A7), A7
    ADD
                 (A7),A7
                                                      001114D8
        ; post-increment from all address regi
» sters to A0
    ADD
                 (A0) + , A0
                                                      001114DA
                                                                       ADDA.W
                                                                                (A0)+, A0
    ADD
                 (A1)+,A0
                                                                       ADDA.W
                                                                                (A1)+, A0
                                                      001114DC
                 (A2)+,A0
    ADD
                                                                       ADDA.W
                                                                               (A2)+, A0
                                                      001114DE
    ADD
                 (A3) + , A0
                                                      001114E0
                                                                       ADDA.W
                                                                                (A3)+, A0
    ADD
                 (A4)+,A0
                                                      001114E2
                                                                       ADDA.W
                                                                                (A4)+, A0
    ADD
                 (A5)+,A0
                                                                       ADDA.W
                                                                               (A5)+, A0
                                                      001114E4
    ADD
                 (A6)+,A0
                                                      001114E6
                                                                       ADDA.W
                                                                                (A6)+, A0
                                                                               (A7)+, A0
    ADD
                 (A7)+,A0
                                                                       ADDA.W
                                                      001114E8
        ; post-increment from all address regi
» sters to A1
```

(continued)	Source/github/050422_thatdware/bisassembler/oc	аграг.	· ini			
ADD	(A0)+,A1		001114EA	ADDA.W	(A0)+,	A1
ADD	(A1)+,A1		001114EC		(A1)+,	
ADD	(A2)+,A1		001114EE		(A2)+,	
ADD	(A3)+,A1		001114F0		(A3)+,	
ADD	(A4)+,A1		001114F2	ADDA.W	(A4)+,	
ADD	(A5)+,A1		001114F4	ADDA.W	(A5)+,	
ADD	(A6)+,A1		001114F6	ADDA.W	(A6)+,	
ADD	(A7)+,A1		001114F8		(A7)+,	
ADD	(7/)1372		00111410	ADDA	(~, / · )	7.1
:	post-increment from all address regi					
» sters to	•					
ADD	(A0)+,A2		001114FA	ADDA.W	(A0)+,	A2
ADD	(A1)+,A2		001114FC		(A1)+,	
ADD	(A2)+,A2		001114FE	ADDA.W		
ADD	(A3)+,A2		00111500		(A3)+,	
ADD	(A4)+,A2		00111502		(A4)+,	
ADD	(A5)+,A2		00111502		(A5)+,	
ADD	(A6)+,A2		00111504		(A6)+,	
ADD	(A7)+,A2		00111508	ADDA.W	(A0)+,	
ADD	(A/)+,A2		00111308	ADDA.W	(A/)T,	AZ
	post-increment from all address regi					
» sters to	•					
ADD	(A0)+,A3		0011150A	ADDA.W	(A0)+.	Δ3
ADD	(A1)+,A3		0011150C		(A1)+,	
ADD	(A2)+,A3		0011150E	ADDA.W		
ADD	(A3)+,A3		00111502	ADDA.W		
ADD	(A4)+,A3		00111510	ADDA.W		
ADD	(A5)+,A3		00111512		(A5)+,	
ADD	(A6)+,A3		00111514	ADDA.W	(A6)+,	
ADD	(A7)+,A3		00111518	ADDA.W	(A7)+,	
ADD	(87)1,83		00111310	ADDA:N	(^/)',	A3
:	post-increment from all address regi					
» sters to	•					
ADD	(A0)+,A4		0011151A	ADDA.W	(A0)+,	Α4
ADD	(A1)+,A4		0011151C		(A1)+,	
ADD	(A2)+,A4		0011151E	ADDA.W	(A2)+,	
ADD	(A3)+,A4		00111520	ADDA.W	(A3)+,	
ADD	(A4)+,A4		00111522	ADDA.W	(A4)+,	
ADD	(A5)+,A4		00111524	ADDA.W	(A5)+,	
ADD	(A6)+,A4		00111526	ADDA.W	(A6)+,	
ADD	(A7)+,A4		00111528		(A7)+,	
					( ) )	
;	post-increment from all address regi					
» sters to	o A5					
ADD	(A0)+,A5		0011152A	ADDA.W	(A0)+,	A5
ADD	(A1)+,A5		0011152C	ADDA.W	(A1)+,	
ADD	(A2)+,A5		0011152E	ADDA.W	(A2)+,	
ADD	(A3)+,A5		00111530	ADDA.W	(A3)+,	
ADD	(A4)+,A5		00111532	ADDA.W	(A4)+,	
ADD	(A5)+,A5		00111534	ADDA.W	(A5)+,	
ADD	(A6)+,A5		00111536	ADDA.W	(A6)+,	
ADD	(A7)+,A5		00111538		(A7)+,	
1						D 10 1010

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```
; post-increment from all address regi
» sters to A6
                 (A0) + , A6
                                                                             (A0)+, A6
    ADD
                                                     0011153A
                                                                      ADDA.W
    ADD
                 (A1)+,A6
                                                                              (A1)+, A6
                                                     0011153C
                                                                      ADDA.W
                                                                             (A2)+, A6
                 (A2)+,A6
    ADD
                                                     0011153E
                                                                      ADDA.W
    ADD
                 (A3) + A6
                                                     00111540
                                                                      ADDA.W
                                                                             (A3)+, A6
                                                                      ADDA.W (A4)+, A6
    ADD
                 (A4)+,A6
                                                     00111542
    ADD
                 (A5)+,A6
                                                     00111544
                                                                      ADDA.W
                                                                              (A5)+, A6
    ADD
                                                                      ADDA.W (A6)+, A6
                 (A6)+,A6
                                                     00111546
    ADD
                 (A7) + A6
                                                                      ADDA.W (A7)+, A6
                                                     00111548
         ; post-increment from all address reg
» isters to A7
                                                                      ADDA.W
                                                                             (A0)+, A7
    ADD
                 (A0)+,A7
                                                     0011154A
    ADD
                 (A1)+,A7
                                                     0011154C
                                                                      ADDA.W
                                                                             (A1)+, A7
                                                                             (A2)+, A7
    ADD
                 (A2)+,A7
                                                     0011154E
                                                                      ADDA.W
    ADD
                 (A3)+,A7
                                                                     ADDA.W (A3)+, A7
                                                     00111550
                                                                             (A4)+, A7
    ADD
                                                                      ADDA.W
                 (A4)+,A7
                                                     00111552
    ADD
                 (A5)+,A7
                                                     00111554
                                                                      ADDA.W (A5)+, A7
    ADD
                 (A6)+,A7
                                                                      ADDA.W
                                                                             (A6)+, A7
                                                     00111556
    ADD
                 (A7)+,A7
                                                     00111558
                                                                      ADDA.W (A7)+, A7
        ; pre-decrement from all address regis
» ters to A0
                                                                             -(A0), A0
    ADD
                -(A0),A0
                                                     0011155A
                                                                      ADDA.W
    ADD
                -(A1),A0
                                                     0011155C
                                                                      ADDA.W
                                                                              -(A1), A0
                                                                             -(A2), A0
                 -(A2),A0
                                                                      ADDA.W
    ADD
                                                     0011155E
    ADD
                                                                      ADDA.W
                                                                             -(A3), A0
                -(A3),A0
                                                     00111560
    ADD
                -(A4),A0
                                                     00111562
                                                                      ADDA.W
                                                                             -(A4), A0
    ADD
                                                                      ADDA.W
                                                                              -(A5), A0
                -(A5),A0
                                                     00111564
    ADD
                -(A6),A0
                                                     00111566
                                                                      ADDA.W
                                                                              -(A6), A0
                                                                             -(A7), A0
                -(A7),A0
                                                                      ADDA.W
    ADD
                                                     00111568
        ; pre-decrement from all address regis
» ters to A1
                                                                      ADDA.W -(A0), A1
    ADD
                -(A0),A1
                                                     0011156A
                                                                             -(A1), A1
    ADD
                                                                     ADDA.W
                -(A1),A1
                                                     0011156C
    ADD
                                                                     ADDA.W
                                                                             -(A2), A1
                -(A2),A1
                                                     0011156E
                                                                             -(A3), A1
    ADD
                -(A3),A1
                                                     00111570
                                                                      ADDA.W
                                                                              -(A4), A1
    ADD
                                                                      ADDA.W
                -(A4),A1
                                                     00111572
    ADD
                -(A5),A1
                                                     00111574
                                                                      ADDA.W
                                                                             -(A5), A1
    ADD
                                                                      ADDA.W
                                                                              -(A6), A1
                -(A6),A1
                                                     00111576
                                                                             -(A7), A1
    ADD
                                                                     ADDA.W
                -(A7),A1
                                                     00111578
        ; pre-decrement from all address regis
» ters to A2
    ADD
                -(A0),A2
                                                     0011157A
                                                                      ADDA.W
                                                                              -(A0), A2
                                                                              -(A1), A2
    ADD
                -(A1),A2
                                                                      ADDA.W
                                                     0011157C
                                                                              -(A2), A2
    ADD
                 -(A2),A2
                                                     0011157E
                                                                      ADDA.W
    ADD
                -(A3),A2
                                                     00111580
                                                                      ADDA.W
                                                                              -(A3), A2
    ADD
                -(A4),A2
                                                     00111582
                                                                      ADDA.W
                                                                              -(A4), A2
```

```
(continued)
```

```
ADD
                -(A5),A2
                                                                             -(A5), A2
                                                    00111584
                                                                     ADDA.W
                                                                             -(A6), A2
    ADD
                -(A6),A2
                                                     00111586
                                                                     ADDA.W
   ADD
                -(A7),A2
                                                     00111588
                                                                     ADDA.W
                                                                              -(A7), A2
   ; pre-decrement from all address regis
» ters to A3
    ADD
                -(A0),A3
                                                     0011158A
                                                                     ADDA.W
                                                                             -(A0), A3
                                                                             -(A1), A3
    ADD
                -(A1),A3
                                                     0011158C
                                                                     ADDA.W
   ADD
                -(A2),A3
                                                     0011158E
                                                                     ADDA.W
                                                                             -(A2), A3
   ADD
                -(A3),A3
                                                                     ADDA.W
                                                                             -(A3), A3
                                                     00111590
                                                                             -(A4), A3
   ADD
                -(A4),A3
                                                                     ADDA.W
                                                     00111592
   ADD
                -(A5),A3
                                                     00111594
                                                                     ADDA.W
                                                                             -(A5), A3
   ADD
                -(A6),A3
                                                     00111596
                                                                     ADDA.W
                                                                             -(A6), A3
   ADD
                -(A7),A3
                                                                     ADDA.W
                                                                             -(A7), A3
                                                     00111598
        ; pre-decrement from all address regis
» ters to A4
    ADD
                -(A0),A4
                                                     0011159A
                                                                     ADDA.W
                                                                             -(A0), A4
                                                                     ADDA.W
    ADD
                                                                             -(A1), A4
                -(A1),A4
                                                     0011159C
   ADD
                -(A2),A4
                                                     0011159E
                                                                     ADDA.W
                                                                             -(A2), A4
                                                                     ADDA.W
                                                                             -(A3), A4
   ADD
                -(A3),A4
                                                     001115A0
                                                                             -(A4), A4
   ADD
                -(A4),A4
                                                     001115A2
                                                                     ADDA.W
                                                                             -(A5), A4
    ADD
                -(A5),A4
                                                     001115A4
                                                                     ADDA.W
                                                                             -(A6), A4
   ADD
                -(A6),A4
                                                     001115A6
                                                                     ADDA.W
                -(A7),A4
                                                                     ADDA.W -(A7), A4
    ADD
                                                     001115A8
        ; pre-decrement from all address regis
» ters to A5
    ADD
                -(A0),A5
                                                     001115AA
                                                                     ADDA.W
                                                                             -(A0), A5
    ADD
                -(A1),A5
                                                     001115AC
                                                                     ADDA.W
                                                                             -(A1), A5
                -(A2),A5
                                                                     ADDA.W
                                                                             -(A2), A5
   ADD
                                                     001115AE
   ADD
                -(A3),A5
                                                     001115B0
                                                                     ADDA.W
                                                                             -(A3), A5
                                                                             -(A4), A5
    ADD
                -(A4),A5
                                                                     ADDA.W
                                                     001115B2
                                                                             -(A5), A5
    ADD
                -(A5), A5
                                                                     ADDA.W
                                                     001115B4
    ADD
                -(A6),A5
                                                     001115B6
                                                                     ADDA.W
                                                                             -(A6), A5
   ADD
                -(A7),A5
                                                     001115B8
                                                                     ADDA.W
                                                                             -(A7), A5
    ; pre-decrement from all address regis
» ters to A6
   ADD
                -(A0),A6
                                                     001115BA
                                                                     ADDA.W
                                                                             -(A0), A6
                                                                     ADDA.W
                                                                             -(A1), A6
    ADD
                -(A1),A6
                                                     001115BC
   ADD
                -(A2),A6
                                                     001115BE
                                                                     ADDA.W
                                                                             -(A2), A6
    ADD
                                                                     ADDA.W
                                                                             -(A3), A6
                -(A3),A6
                                                     001115C0
   ADD
                                                                     ADDA.W
                                                                             -(A4), A6
                -(A4),A6
                                                     001115C2
    ADD
                -(A5),A6
                                                     001115C4
                                                                     ADDA.W
                                                                             -(A5), A6
   ADD
                -(A6),A6
                                                     001115C6
                                                                     ADDA.W
                                                                             -(A6), A6
                                                                     ADDA.W
                                                                             -(A7), A6
   ADD
                -(A7),A6
                                                    001115C8
        ; pre-decrement from all address regis
» ters to A7
    ADD
                -(A0),A7
                                                     001115CA
                                                                     ADDA.W
                                                                             -(A0), A7
    ADD
                -(A1),A7
                                                    001115CC
                                                                     ADDA.W
                                                                              -(A1), A7
```

```
Right file: D:\Source\github\CSS422_Hardware\Disassembler\Output.txt
(continued)
    ADD
                 -(A2),A7
    ADD
                 -(A3),A7
    ADD
                 -(A4),A7
    ADD
                 -(A5),A7
    ADD
                 -(A6),A7
                 -(A7),A7
    ADD
        ; immediate to all data registers
    ADD
                 #01,D0
    ADD
                 #01,D1
                 #01,D2
    ADD
    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
                 #01,(A0)
    ADD
    ADD
                 #01,(A1)
    ADD
                 #01,(A2)
    ADD
                 #01,(A3)
    ADD
                 #01,(A4)
                 #01,(A5)
    ADD
    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)+
```

#01,(A7)+

#01, -(A0)

#01,-(A1)

#01,-(A2)

#**0**1,-(A3)

#01,-(A4)

; immediate to all address register wi

ADD

ADD

ADD

ADD

ADD

ADD

» th pre-decrement

```
001115CE
                        -(A2), A7
                ADDA.W
001115D0
                ADDA.W
                        -(A3), A7
001115D2
                ADDA.W
                        -(A4), A7
                        -(A5), A7
001115D4
                ADDA.W
                        -(A6), A7
                ADDA.W
001115D6
                        -(A7), A7
                ADDA.W
001115D8
                        #1, D0
001115DA
                ADDO.W
001115DC
                ADDQ.W
                        #1, D1
                        #1, D2
001115DE
                ADDQ.W
001115E0
                ADDQ.W
                        #1, D3
001115E2
                ADDQ.W
                        #1, D4
001115E4
                ADDQ.W
                        #1, D5
                ADDQ.W
                        #1, D6
001115E6
001115E8
                ADDQ.W
                        #1, D7
001115EA
                ADDQ.W
                        #1, A0
                ADDQ.W
                        #1, A1
001115EC
001115EE
                ADDQ.W
                        #1, A2
                        #1, A3
                ADDQ.W
001115F0
001115F2
                ADDQ.W
                        #1, A4
                ADDQ.W
                        #1, A5
001115F4
                        #1, A6
001115F6
                ADDQ.W
                ADDQ.W #1, A7
001115F8
001115FA
                ADDQ.W
                        #1, (A0)
                ADDQ.W
                        #1, (A1)
001115FC
001115FE
                ADDQ.W
                        #1, (A2)
00111600
                ADDQ.W
                        #1, (A3)
00111602
                ADDQ.W
                        #1, (A4)
                        #1, (A5)
00111604
                ADDQ.W
                ADDQ.W
                        #1, (A6)
00111606
00111608
                ADDQ.W #1, (A7)
                ADDQ.W
                        #1, (A0)+
0011160A
                ADDQ.W
                        #1, (A1)+
0011160C
0011160E
                ADDQ.W
                        #1, (A2)+
                ADDQ.W
                        #1, (A3)+
00111610
00111612
                ADDQ.W
                        #1, (A4)+
                ADDQ.W
                        #1, (A5)+
00111614
                ADDQ.W
                        #1, (A6)+
00111616
00111618
                ADDQ.W #1, (A7)+
0011161A
                ADDQ.W
                        #1, -(A0)
                        #1, -(A1)
                ADDQ.W
0011161C
                        #1, -(A2)
0011161E
                ADDQ.W
00111620
                ADDQ.W
                        #1, -(A3)
00111622
                ADDQ.W #1, -(A4)
```

(continued)	
ADD # <mark>0</mark> 1,-(A5)	00111624 ADDQ.W #1, -(A5)
ADD # <mark>0</mark> 1,-(A6)	00111626 ADDQ.W #1, -(A6)
ADD # <mark>0</mark> 1,-(A7)	00111628 ADDQ.W #1, -(A7)
	0011162A ADD.W \$0001, D0
; absolute short to all data registe	rs
ADD \$01,D <mark>0</mark>	0011162E ADD.W \$0001, D1
ADD \$01,D <mark>1</mark>	00111632 ADD.W \$0001, D2
ADD \$01,D2	
ADD \$01,D3	00111636 ADD.W \$0001, D3
ADD \$01,D4	0011163A ADD.W \$0001, D4
ADD \$01,D5	0011163E ADD.W \$0001, D5
ADD \$01,D6	00111642 ADD.W \$0001, D6
ADD \$01,D7	
	00111646 ADD.W \$0001, D7
; absolute long to all data register	S
ADD \$0A05,A0	0011164A ADDA.W \$0A05, A0
ADD \$0A05,A1	0011164E ADDA.W \$0A05, A1
ADD \$0A05,A2	00111652 ADDA.W \$0A05, A2
ADD \$0A05,A3	00111656 ADDA.W \$0A05, A3
ADD \$0A05,A4	0011165A ADDA.W \$0A05, A4
ADD \$0A05,A5	0011165E ADDA.W \$0A05, A5
ADD \$0A05,A6	00111662 ADDA.W \$0A05, A6
ADD \$0A05,A7	00111666 ADDA.W \$0A05, A7
	0011166A SIMHALT
	0011166C SIMHALT
	0011166E SIMHALT
	00111670 SIMHALT
*~Font name~Courier New~	
*~Font size~10~	
*~Tab type~1~	
*~Tab size~4~	