

Stage #2

Instruction[pc]=[opcode,reg,reg,reg,imm]

DataMemory[addr]=[read data, write data]

Signals C-R-Sw-Disp[clock,reset,switch0,display]

* Recall data memory addr = ALU output

Instr[x]=[000,000,0000,000,000]	DataMem[x]=[0, x] C-R-Sw-Dsp[0,0,1,xxxxxxx]
Instr[x]=[000,000,0000,000,000]	DataMem[x]=[0, x] C-R-Sw-Dsp[1,0,1,xxxxxxx]
Instr[x]=[000,000,0000,000,000]	DataMem[x]=[0, x] C-R-Sw-Dsp[0,1,1,xxxxxxx]
Instr[0]=[110,000,0011,111,010]	DataMem[3]=[0, x] C-R-Sw-Dsp[1,1,1,xxxxxxx]
Instr[0]=[110,000,0011,111,010]	DataMem[3]=[0, x] C-R-Sw-Dsp[0,0,1,xxxxxxx]
Instr[2]=[000,111,0000,111,100]	DataMem[0]=[0, 0] C-R-Sw-Dsp[1,0,1,xxxxxxx]
Instr[2]=[000,111,0000,111,100]	DataMem[0]=[0, 0] C-R-Sw-Dsp[0,0,1,xxxxxxx]
Instr[4]=[101,111,1110,000,010]	DataMem[3]=[0, 3] C-R-Sw-Dsp[1,0,1,xxxxxxx]
Instr[4]=[101,111,1110,000,010]	DataMem[3]=[0, 3] C-R-Sw-Dsp[0,0,1,xxxxxxx]
Instr[6]=[110,000,0101,100,100]	DataMem[5]=[0, x] C-R-Sw-Dsp[1,0,1,xxxxxxx]
Instr[6]=[110,000,0101,100,100]	DataMem[5]=[0, x] C-R-Sw-Dsp[0,0,1,xxxxxxx]
Instr[8]=[110,111,1111,010,010]	DataMem[2]=[0, 0] C-R-Sw-Dsp[1,0,1,xxxxxxx]
Instr[8]=[110,111,1111,010,010]	DataMem[2]=[0, 0] C-R-Sw-Dsp[0,0,1,xxxxxxx]
Instr[10]=[101,111,1101,000,111]	DataMem[0]=[0, 0] C-R-Sw-Dsp[1,0,1,xxxxxxx]
Instr[10]=[101,111,1101,000,111]	DataMem[0]=[0, 0] C-R-Sw-Dsp[0,0,1,xxxxxxx]
Instr[4]=[101,111,1110,000,010]	DataMem[2]=[0, 2] C-R-Sw-Dsp[1,0,1,xxxxxxx]
Instr[4]=[101,111,1110,000,010]	DataMem[2]=[0, 2] C-R-Sw-Dsp[0,0,1,xxxxxxx]
Instr[6]=[110,000,0101,100,100]	DataMem[10]=[0, x] C-R-Sw-Dsp[1,0,1,xxxxxxx]
Instr[6]=[110,000,0101,100,100]	DataMem[10]=[0, x] C-R-Sw-Dsp[0,0,1,xxxxxxx]
Instr[8]=[110,111,1111,010,010]	DataMem[1]=[0, 0] C-R-Sw-Dsp[1,0,1,xxxxxxx]
Instr[8]=[110,111,1111,010,010]	DataMem[1]=[0, 0] C-R-Sw-Dsp[0,0,1,xxxxxxx]
Instr[10]=[101,111,1101,000,111]	DataMem[0]=[0, 0] C-R-Sw-Dsp[1,0,1,xxxxxxx]
Instr[10]=[101,111,1101,000,111]	DataMem[0]=[0, 0] C-R-Sw-Dsp[0,0,1,xxxxxxx]
Instr[4]=[101,111,1110,000,010]	DataMem[1]=[0, 1] C-R-Sw-Dsp[1,0,1,xxxxxxx]
Instr[4]=[101,111,1110,000,010]	DataMem[1]=[0, 1] C-R-Sw-Dsp[0,0,1,xxxxxxx]
Instr[6]=[110,000,0101,100,100]	DataMem[15]=[0, x] C-R-Sw-Dsp[1,0,1,xxxxxxx]
Instr[6]=[110,000,0101,100,100]	DataMem[15]=[0, x] C-R-Sw-Dsp[0,0,1,xxxxxxx]
Instr[8]=[110,111,1111,010,010]	DataMem[0]=[0, 0] C-R-Sw-Dsp[1,0,1,xxxxxxx]
Instr[8]=[110,111,1111,010,010]	DataMem[0]=[0, 0] C-R-Sw-Dsp[0,0,1,xxxxxxx]
Instr[10]=[101,111,1101,000,111]	DataMem[0]=[0, 0] C-R-Sw-Dsp[1,0,1,xxxxxxx]
Instr[10]=[101,111,1101,000,111]	DataMem[0]=[0, 0] C-R-Sw-Dsp[0,0,1,xxxxxxx]
Instr[4]=[101,111,1110,000,010]	DataMem[0]=[0, 0] C-R-Sw-Dsp[1,0,1,xxxxxxx]

Instr[10]=[101,111,1101,000,111] DataMem[0]=[0, 0] C-R-Sw-Dsp[1,0,0,xxxxxxx]
Instr[10]=[101,111,1101,000,111] DataMem[0]=[0, 0] C-R-Sw-Dsp[0,0,0,xxxxxxx]
Instr[4]=[101,111,1110,000,010] DataMem[2]=[0, 2] C-R-Sw-Dsp[1,0,0,xxxxxxx]
Instr[4]=[101,111,1110,000,010] DataMem[2]=[0, 2] C-R-Sw-Dsp[0,0,0,xxxxxxx]
Instr[6]=[110,000,0101,100,100] DataMem[10]=[0, x] C-R-Sw-Dsp[1,0,0,xxxxxxx]
Instr[6]=[110,000,0101,100,100] DataMem[10]=[0, x] C-R-Sw-Dsp[0,0,0,xxxxxxx]
Instr[8]=[110,111,1111,010,010] DataMem[1]=[0, 0] C-R-Sw-Dsp[1,0,0,xxxxxxx]
Instr[8]=[110,111,1111,010,010] DataMem[1]=[0, 0] C-R-Sw-Dsp[0,0,0,xxxxxxx]
Instr[10]=[101,111,1101,000,111] DataMem[0]=[0, 0] C-R-Sw-Dsp[1,0,0,xxxxxxx]
Instr[10]=[101,111,1101,000,111] DataMem[0]=[0, 0] C-R-Sw-Dsp[0,0,0,xxxxxxx]
Instr[4]=[101,111,1110,000,010] DataMem[1]=[0, 1] C-R-Sw-Dsp[1,0,0,xxxxxxx]
Instr[4]=[101,111,1110,000,010] DataMem[1]=[0, 1] C-R-Sw-Dsp[0,0,0,xxxxxxx]
Instr[6]=[110,000,0101,100,100] DataMem[15]=[0, x] C-R-Sw-Dsp[1,0,0,xxxxxxx]
Instr[6]=[110,000,0101,100,100] DataMem[15]=[0, x] C-R-Sw-Dsp[0,0,0,xxxxxxx]
Instr[8]=[110,111,1111,010,010] DataMem[0]=[0, 0] C-R-Sw-Dsp[1,0,0,xxxxxxx]
Instr[8]=[110,111,1111,010,010] DataMem[0]=[0, 0] C-R-Sw-Dsp[0,0,0,xxxxxxx]
Instr[10]=[101,111,1101,000,111] DataMem[0]=[0, 0] C-R-Sw-Dsp[1,0,0,xxxxxxx]
Instr[10]=[101,111,1101,000,111] DataMem[0]=[0, 0] C-R-Sw-Dsp[0,0,0,xxxxxxx]
Instr[4]=[101,111,1110,000,010] DataMem[0]=[0, 0] C-R-Sw-Dsp[1,0,0,xxxxxxx]
Instr[4]=[101,111,1110,000,010] DataMem[0]=[0, 0] C-R-Sw-Dsp[0,0,0,xxxxxxx]
Instr[0]=[110,000,0011,111,010] DataMem[3]=[0, x] C-R-Sw-Dsp[1,0,0,xxxxxxx]
Instr[0]=[110,000,0011,111,010] DataMem[3]=[0, x] C-R-Sw-Dsp[0,0,0,xxxxxxx]
Instr[2]=[000,111,0000,111,100] DataMem[0]=[0, 0] C-R-Sw-Dsp[1,0,0,xxxxxxx]
Instr[2]=[000,111,0000,111,100] DataMem[0]=[0, 0] C-R-Sw-Dsp[0,0,0,xxxxxxx]
Instr[4]=[101,111,1110,000,010] DataMem[3]=[0, 3] C-R-Sw-Dsp[1,0,0,xxxxxxx]
Instr[4]=[101,111,1110,000,010] DataMem[3]=[0, 3] C-R-Sw-Dsp[0,0,0,xxxxxxx]
Instr[6]=[110,000,0101,100,100] DataMem[5]=[0, x] C-R-Sw-Dsp[1,0,0,xxxxxxx]
Instr[6]=[110,000,0101,100,100] DataMem[5]=[0, x] C-R-Sw-Dsp[0,0,0,xxxxxxx]
Instr[8]=[110,111,1111,010,010] DataMem[2]=[0, 0] C-R-Sw-Dsp[1,0,0,xxxxxxx]
Instr[8]=[110,111,1111,010,010] DataMem[2]=[0, 0] C-R-Sw-Dsp[0,0,0,xxxxxxx]
Instr[10]=[101,111,1101,000,111] DataMem[0]=[0, 0] C-R-Sw-Dsp[1,0,0,xxxxxxx]

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Stage #3

Instruction[pc]=[opcode,reg,reg,reg,funct]

DataMemory[addr]=[read data, write data]

Signals C-R-Sw-Disp[clock,reset,switch0,display]

* Recall data memory addr = ALU output

Instr[x]=[000,000,0000,000,000]	DataMem[xxxx]=[	0, x]	C-R-Sw0-Dsp[0,0,1,xxxxxxx]
Instr[x]=[000,000,0000,000,000]	DataMem[xxxx]=[	0, x]	C-R-Sw0-Dsp[1,0,1,xxxxxxx]
Instr[x]=[000,000,0000,000,000]	DataMem[xxxx]=[	0, x]	C-R-Sw0-Dsp[0,1,1,xxxxxxx]
Instr[0]=[110,111,0000,111,011]	DataMem[fff0]=[	0, 0]	C-R-Sw0-Dsp[1,1,1,xxxxxxx]
Instr[0]=[110,111,0000,111,011]	DataMem[fff0]=[	0, 0]	C-R-Sw0-Dsp[0,0,1,xxxxxxx]
Instr[2]=[011,000,0000,011,101]	DataMem[fff0]=[	1, x]	C-R-Sw0-Dsp[1,0,1,xxxxxxx]
Instr[2]=[011,000,0000,011,101]	DataMem[fff0]=[	1, x]	C-R-Sw0-Dsp[0,0,1,xxxxxxx]
Instr[4]=[111,000,0001,101,101]	DataMem[0001]=[	0, 1]	C-R-Sw0-Dsp[1,0,1,xxxxxxx]
Instr[4]=[111,000,0001,101,101]	DataMem[0001]=[	0, 1]	C-R-Sw0-Dsp[0,0,1,xxxxxxx]
Instr[6]=[101,000,0011,000,101]	DataMem[0001]=[	0, 1]	C-R-Sw0-Dsp[1,0,1,xxxxxxx]
Instr[6]=[101,000,0011,000,101]	DataMem[0001]=[	0, 1]	C-R-Sw0-Dsp[0,0,1,xxxxxxx]
Instr[8]=[110,011,0000,111,100]	DataMem[0030]=[	0,65520]	C-R-Sw0-Dsp[1,0,1,xxxxxxx]
Instr[8]=[110,011,0000,111,100]	DataMem[0030]=[	0,65520]	C-R-Sw0-Dsp[0,0,1,xxxxxxx]
Instr[10]=[101,000,0010,000,111]	DataMem[0000]=[	0, 0]	C-R-Sw0-Dsp[1,0,1,xxxxxxx]
Instr[10]=[101,000,0010,000,111]	DataMem[0000]=[	0, 0]	C-R-Sw0-Dsp[0,0,1,xxxxxxx]
Instr[14]=[100,000,1010,011,100]	DataMem[fffa]=[	0, 48]	C-R-Sw0-Dsp[1,0,1,xxxxxxx]
Instr[14]=[100,000,1010,011,100]	DataMem[fffa]=[	0, 48]	C-R-Sw0-Dsp[0,0,1,xxxxxxx]
Instr[16]=[101,111,1000,000,111]	DataMem[0000]=[	0, 0]	C-R-Sw0-Dsp[1,0,1,0110000]
Instr[16]=[101,111,1000,000,111]	DataMem[0000]=[	0, 0]	C-R-Sw0-Dsp[0,0,1,0110000]
Instr[0]=[110,111,0000,111,011]	DataMem[fff0]=[	0, 0]	C-R-Sw0-Dsp[1,0,1,0110000]
Instr[0]=[110,111,0000,111,011]	DataMem[fff0]=[	0, 0]	C-R-Sw0-Dsp[0,0,1,0110000]
Instr[2]=[011,000,0000,011,101]	DataMem[fff0]=[	1, x]	C-R-Sw0-Dsp[1,0,1,0110000]
Instr[2]=[011,000,0000,011,101]	DataMem[fff0]=[	1, x]	C-R-Sw0-Dsp[0,0,1,0110000]
Instr[4]=[111,000,0001,101,101]	DataMem[0001]=[	0, 1]	C-R-Sw0-Dsp[1,0,1,0110000]
Instr[4]=[111,000,0001,101,101]	DataMem[0001]=[	0, 1]	C-R-Sw0-Dsp[0,0,1,0110000]
Instr[6]=[101,000,0011,000,101]	DataMem[0001]=[	0, 1]	C-R-Sw0-Dsp[1,0,1,0110000]
Instr[6]=[101,000,0011,000,101]	DataMem[0001]=[	0, 1]	C-R-Sw0-Dsp[0,0,1,0110000]
Instr[8]=[110,011,0000,111,100]	DataMem[0030]=[	0,65520]	C-R-Sw0-Dsp[1,0,1,0110000]
Instr[8]=[110,011,0000,111,100]	DataMem[0030]=[	0,65520]	C-R-Sw0-Dsp[0,0,1,0110000]
Instr[10]=[101,000,0010,000,111]	DataMem[0000]=[	0, 0]	C-R-Sw0-Dsp[1,0,1,0110000]
Instr[10]=[101,000,0010,000,111]	DataMem[0000]=[	0, 0]	C-R-Sw0-Dsp[0,0,1,0110000]

Instr[14]=[100,000,1010,011,100]	DataMem[fffa]=[	0,	48]	C-R-Sw0-Dsp[1,0,1,0110000]
Instr[14]=[100,000,1010,011,100]	DataMem[fffa]=[	0,	48]	C-R-Sw0-Dsp[0,0,1,0110000]
Instr[16]=[101,111,1000,000,111]	DataMem[0000]=[	0,	0]	C-R-Sw0-Dsp[1,0,1,0110000]
Instr[16]=[101,111,1000,000,111]	DataMem[0000]=[	0,	0]	C-R-Sw0-Dsp[0,0,1,0110000]
Instr[0]=[110,111,0000,111,011]	DataMem[fff0]=[	0,	0]	C-R-Sw0-Dsp[1,0,1,0110000]
Instr[0]=[110,111,0000,111,011]	DataMem[fff0]=[	0,	0]	C-R-Sw0-Dsp[0,0,1,0110000]
Instr[2]=[011,000,0000,011,101]	DataMem[fff0]=[	1,	x]	C-R-Sw0-Dsp[1,0,1,0110000]
Instr[2]=[011,000,0000,011,101]	DataMem[fff0]=[	1,	x]	C-R-Sw0-Dsp[0,0,1,0110000]
Instr[4]=[111,000,0001,101,101]	DataMem[0001]=[	0,	1]	C-R-Sw0-Dsp[1,0,1,0110000]
Instr[4]=[111,000,0001,101,101]	DataMem[0001]=[	0,	1]	C-R-Sw0-Dsp[0,0,1,0110000]
Instr[6]=[101,000,0011,000,101]	DataMem[0001]=[	0,	1]	C-R-Sw0-Dsp[1,0,1,0110000]
Instr[6]=[101,000,0011,000,101]	DataMem[0001]=[	0,	1]	C-R-Sw0-Dsp[0,0,1,0110000]
Instr[8]=[110,011,0000,111,100]	DataMem[0030]=[	0,65520]	C-R-Sw0-Dsp[1,0,1,0110000]	
Instr[8]=[110,011,0000,111,100]	DataMem[0030]=[	0,65520]	C-R-Sw0-Dsp[0,0,1,0110000]	
Instr[10]=[101,000,0010,000,111]	DataMem[0000]=[	0,	0]	C-R-Sw0-Dsp[1,0,1,0110000]
Instr[10]=[101,000,0010,000,111]	DataMem[0000]=[	0,	0]	C-R-Sw0-Dsp[0,0,1,0110000]
Instr[14]=[100,000,1010,011,100]	DataMem[fffa]=[	0,	48]	C-R-Sw0-Dsp[1,0,1,0110000]
Instr[14]=[100,000,1010,011,100]	DataMem[fffa]=[	0,	48]	C-R-Sw0-Dsp[0,0,1,0110000]
Instr[16]=[101,111,1000,000,111]	DataMem[0000]=[	0,	0]	C-R-Sw0-Dsp[1,0,1,0110000]
Instr[16]=[101,111,1000,000,111]	DataMem[0000]=[	0,	0]	C-R-Sw0-Dsp[0,0,1,0110000]
Instr[0]=[110,111,0000,111,011]	DataMem[fff0]=[	0,	0]	C-R-Sw0-Dsp[1,0,1,0110000]
Instr[0]=[110,111,0000,111,011]	DataMem[fff0]=[	0,	0]	C-R-Sw0-Dsp[0,0,1,0110000]
Instr[2]=[011,000,0000,011,101]	DataMem[fff0]=[	1,	x]	C-R-Sw0-Dsp[1,0,1,0110000]
Instr[2]=[011,000,0000,011,101]	DataMem[fff0]=[	0,	x]	C-R-Sw0-Dsp[0,0,0,0110000]
Instr[4]=[111,000,0001,101,101]	DataMem[0000]=[	0,	0]	C-R-Sw0-Dsp[1,0,0,0110000]
Instr[4]=[111,000,0001,101,101]	DataMem[0000]=[	0,	0]	C-R-Sw0-Dsp[0,0,0,0110000]
Instr[6]=[101,000,0011,000,101]	DataMem[0000]=[	0,	0]	C-R-Sw0-Dsp[1,0,0,0110000]
Instr[6]=[101,000,0011,000,101]	DataMem[0000]=[	0,	0]	C-R-Sw0-Dsp[0,0,0,0110000]
Instr[12]=[110,111,1110,111,100]	DataMem[fffe]=[	0,	0]	C-R-Sw0-Dsp[1,0,0,0110000]
Instr[12]=[110,111,1110,111,100]	DataMem[fffe]=[	0,	0]	C-R-Sw0-Dsp[0,0,0,0110000]
Instr[14]=[100,000,1010,011,100]	DataMem[fffa]=[	0,65534]	C-R-Sw0-Dsp[1,0,0,0110000]	
Instr[14]=[100,000,1010,011,100]	DataMem[fffa]=[	0,65534]	C-R-Sw0-Dsp[0,0,0,0110000]	
Instr[16]=[101,111,1000,000,111]	DataMem[0000]=[	0,	0]	C-R-Sw0-Dsp[1,0,0,1111110]
Instr[16]=[101,111,1000,000,111]	DataMem[0000]=[	0,	0]	C-R-Sw0-Dsp[0,0,0,1111110]
Instr[0]=[110,111,0000,111,011]	DataMem[fff0]=[	0,	0]	C-R-Sw0-Dsp[1,0,0,1111110]
Instr[0]=[110,111,0000,111,011]	DataMem[fff0]=[	0,	0]	C-R-Sw0-Dsp[0,0,0,1111110]
Instr[2]=[011,000,0000,011,101]	DataMem[fff0]=[	0,	x]	C-R-Sw0-Dsp[1,0,0,1111110]
Instr[2]=[011,000,0000,011,101]	DataMem[fff0]=[	0,	x]	C-R-Sw0-Dsp[0,0,0,1111110]
Instr[4]=[111,000,0001,101,101]	DataMem[0000]=[	0,	0]	C-R-Sw0-Dsp[1,0,0,1111110]
Instr[4]=[111,000,0001,101,101]	DataMem[0000]=[0,	0]	C-R-Sw0-Dsp[0,0,0,1111110]
Instr[6]=[101,000,0011,000,101]	DataMem[0000]=[0,	0]	C-R-Sw0-Dsp[1,0,0,1111110]

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Instr[ 6]=[101,000,0011,000,101] DataMem[0000]=[ 0, 0] C-R-Sw0-Dsp[0,0,0,11111110]
Instr[12]=[110,111,1110,111,100] DataMem[fffe]=[ 0, 0] C-R-Sw0-Dsp[1,0,0,11111110]
Instr[12]=[110,111,1110,111,100] DataMem[fffe]=[ 0, 0] C-R-Sw0-Dsp[0,0,0,11111110]
Instr[14]=[100,000,1010,011,100] DataMem[fffa]=[ 0,65534] C-R-Sw0-Dsp[1,0,0,11111110]
Instr[14]=[100,000,1010,011,100] DataMem[fffa]=[ 0,65534] C-R-Sw0-Dsp[0,0,0,11111110]
Instr[16]=[101,111,1000,000,111] DataMem[0000]=[ 0, 0] C-R-Sw0-Dsp[1,0,0,11111110]
Instr[16]=[101,111,1000,000,111] DataMem[0000]=[ 0, 0] C-R-Sw0-Dsp[0,0,0,11111110]
Instr[ 0]=[110,111,0000,111,011] DataMem[fff0]=[ 0, 0] C-R-Sw0-Dsp[1,0,0,11111110]
Instr[ 0]=[110,111,0000,111,011] DataMem[fff0]=[ 0, 0] C-R-Sw0-Dsp[0,0,0,11111110]
Instr[ 2]=[011,000,0000,011,101] DataMem[fff0]=[ 0, x] C-R-Sw0-Dsp[1,0,0,11111110]
Instr[ 2]=[011,000,0000,011,101] DataMem[fff0]=[ 0, x] C-R-Sw0-Dsp[0,0,0,11111110]
Instr[ 4]=[111,000,0001,101,101] DataMem[0000]=[ 0, 0] C-R-Sw0-Dsp[1,0,0,11111110]
Instr[ 4]=[111,000,0001,101,101] DataMem[0000]=[ 0, 0] C-R-Sw0-Dsp[0,0,0,11111110]
Instr[ 6]=[101,000,0011,000,101] DataMem[0000]=[ 0, 0] C-R-Sw0-Dsp[1,0,0,11111110]
Instr[ 6]=[101,000,0011,000,101] DataMem[0000]=[ 0, 0] C-R-Sw0-Dsp[0,0,0,11111110]
Instr[12]=[110,111,1110,111,100] DataMem[fffe]=[ 0, 0] C-R-Sw0-Dsp[1,0,0,11111110]
Instr[12]=[110,111,1110,111,100] DataMem[fffe]=[ 0, 0] C-R-Sw0-Dsp[0,0,0,11111110]
Instr[14]=[100,000,1010,011,100] DataMem[fffa]=[ 0,65534] C-R-Sw0-Dsp[1,0,0,11111110]
Instr[14]=[100,000,1010,011,100] DataMem[fffa]=[ 0,65534] C-R-Sw0-Dsp[0,0,0,11111110]
Instr[16]=[101,111,1000,000,111] DataMem[0000]=[ 0, 0] C-R-Sw0-Dsp[1,0,0,11111110]
Instr[16]=[101,111,1000,000,111] DataMem[0000]=[ 0, 0] C-R-Sw0-Dsp[0,0,0,11111110]
Instr[ 0]=[110,111,0000,111,011] DataMem[fff0]=[ 0, 0] C-R-Sw0-Dsp[1,0,0,11111110]
Instr[ 0]=[110,111,0000,111,011] DataMem[fff0]=[ 0, 0] C-R-Sw0-Dsp[0,0,0,11111110]
Instr[ 2]=[011,000,0000,011,101] DataMem[fff0]=[ 0, x] C-R-Sw0-Dsp[1,0,0,11111110]
Instr[ 2]=[011,000,0000,011,101] DataMem[fff0]=[ 0, x] C-R-Sw0-Dsp[0,0,0,11111110]
Instr[ 4]=[111,000,0001,101,101] DataMem[0000]=[ 0, 0] C-R-Sw0-Dsp[1,0,0,11111110]
Instr[ 4]=[111,000,0001,101,101] DataMem[0000]=[ 0, 0] C-R-Sw0-Dsp[0,0,0,11111110]
Instr[ 6]=[101,000,0011,000,101] DataMem[0000]=[ 0, 0] C-R-Sw0-Dsp[1,0,0,11111110]
Instr[ 6]=[101,000,0011,000,101] DataMem[0000]=[ 0, 0] C-R-Sw0-Dsp[0,0,0,11111110]
Instr[12]=[110,111,1110,111,100] DataMem[fffe]=[ 0, 0] C-R-Sw0-Dsp[1,0,0,11111110]
Instr[12]=[110,111,1110,111,100] DataMem[fffe]=[ 0, 0] C-R-Sw0-Dsp[0,0,0,11111110]
Instr[14]=[100,000,1010,011,100] DataMem[fffa]=[ 0,65534] C-R-Sw0-Dsp[1,0,0,11111110]

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