**MIPS Verilog 설계 분석**

2019-2 컴퓨터구조 Term Project

2016104147 이우진

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1. **주어진 설계 분석**

1. Instruction fetch

Figure MIPS.v Instruction fetch stage code

…

// IM

wire [31:0] Next\_PC, Instr, Branch\_addr;

reg [31:0] PC;

…

assign Next\_PC = PC + 32'd4;

assign Branch\_addr = {Branch\_or\_offset[29:0], 2'b00};

assign PCSrc = (Branch && zero);

…

Instruction\_Mem Instr\_mem(PC[8:2], Instr); // Asynchronous module.

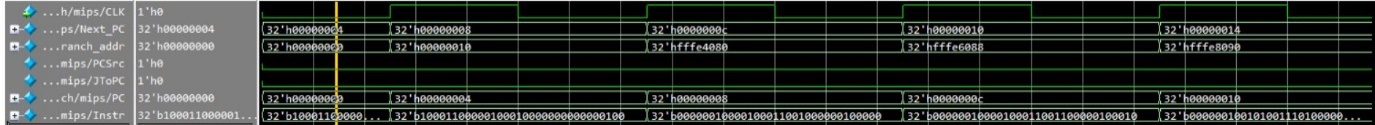
…

always @(posedge CLK)

begin

    PC <= (JToPC) ? Jump\_addr : ((PCSrc) ? (Branch\_addr + Next\_PC) : Next\_PC);

end



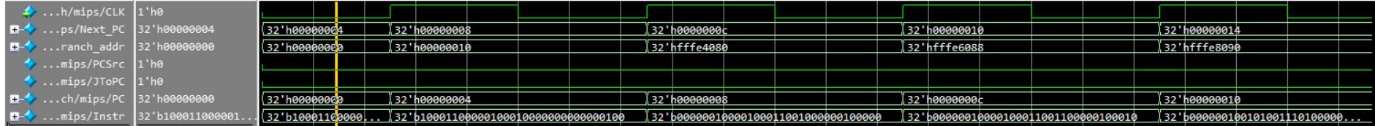


Figure 2 MIPS.v Instruction fetch stage simulation

Instruction fetch stage는 pc값을 Instruction register에 입력하여 저장된 명령을 뽑고, PC값이 다음 명령을 가리키도록 변경하는 과정이다. Next PC는 다음에 실행할 명령의 PC값을 나타낸다. JtoPC는 jump address를 선택하는 값이고, PCSrc는 branch 명령에서 branch할 주소를 선택하는 값이다.

시뮬레이션 결과를 확인해 보면 Clock pulse가 상승할 때 레지스터의 값이 변한다. Next\_PC는 값이 클럭당 4씩 증가하고, PC값은 JtoPC와 PCSrc 값에 따라 Jum\_addr, Branch\_addr + Next\_Pc, Next\_PC값이 된다. Instr wire는 PC값을 입력하여 Instruction Memory에서 fetch한 명령을 의미한다. 매 클럭마다 Instr wire값이 PC값에 따라 Instruction memory에 저장된 명령으로 바뀌는 것을 확인할 수 있다.

예를 들면, Instructiom memory(Instruction\_Mem.v 파일)에 저장된 0번째 명령은 ‘lw s0 0($zero)’이다. 따라서 첫 클럭에서 PC값은 0이고, Instr 값이 ‘lw s0 0($zero)’ 에 해당하는 이진 코드로 바뀌는 것을 확인할 수 있다.

2. Instruction decode / Register fetch

…

// Register

wire [31:0] Jump\_addr;

wire [4:0] Read1, Read2, Reg\_Write\_addr;

wire [31:0] Branch\_or\_offset;

wire [31:0] Reg\_Write\_data, Read\_data1, Read\_data2;

…

wire RegDst, RegWrite; // control signal

assign Read1 = Instr[25:21];

assign Read2 = Instr[20:16];

assign Reg\_Write\_addr = (RegDst) ? Instr[15:11] : Instr[20:16];

assign Branch\_or\_offset = (Instr[15] == 1) ? {16'hFFFF, Instr[15:0]} : {16'h0000, Instr[15:0]}; // sign extend.

Register Reg(CLK, RegWrite, Read1, Read2, Reg\_Write\_addr, Reg\_Write\_data, Read\_data1, Read\_data2); // Synchronous module.

Figure 3 MIPS.v Instruction decode stage code

건물, 블라인드이(가) 표시된 사진

자동 생성된 설명

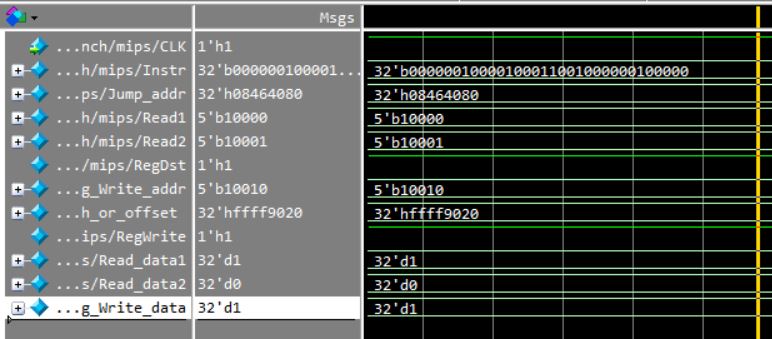
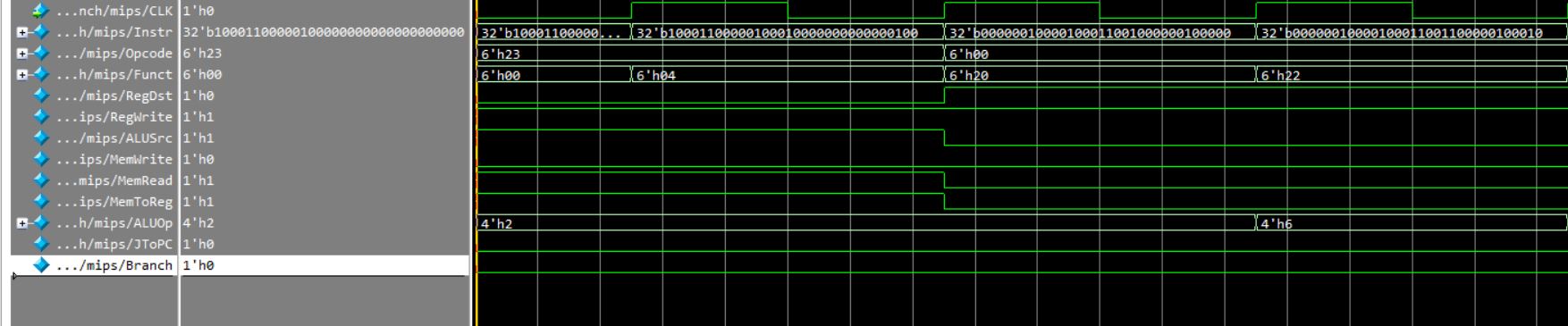


Figure 4 MIPS.v Instruction decode stage simulation

Instruction decode stage는 이전 스테이지에서 fetch한 명령어를 해석하고 레지스터에서 값을 읽는 단계이다. 명령어를 나누어 레지스터에서 값을 읽을 주소를 Read1, Read2에 설정한다. Reg\_write\_addr은 값을 쓸 레지스터의 주소를 의미한다. 이는 RegDst값에 따라 명령어의 rd, rt 값으로 설정한다. RegDst는 명령어가 R-type인지, I-type인지에 따라 결정된다.

레지스터에서 읽은 값은 Read\_data1과 Read\_data2에 저장된다. Reg\_write\_data는 주소가 Reg\_write\_addr인 레지스터에 쓸 값이며, ALU 연산과 Memory Access 이후의 Write Back stage에서 결정된다. 명령어의 Immediate 부분은 주소로 쓰일 상황을 대비하여 16bit 길이의 값을 32bit로 sign extend를 한다.

예를 들면, 예시의 2번 명령인 ‘add s2 s0 s1’을 실행했을 때, Read1은 s0의 레지스터 주소로, Read2는 s1의 레지스터 주소로 설정된다. Add는 R-Type이므로 RegDst control signal은 1로 설정이 되고, Reg\_write\_addr은 rd값인 s2의 주소로 설정된다. Read\_data1과 2는 각각의 레지스터에 저장된 값인 1과 0이 되고, write\_data는 이후의 ALU 연산으로 1이 된다.



// Control

wire RegDst, RegWrite; // control signal

wire ALUSrc, MemWrite, MemRead, MemToReg; // control signal

wire [3:0] ALUOp;

wire PCSrc, JToPC, Branch; // mux control signal

wire [5:0] Opcode, Funct;

assign Opcode = Instr[31:26];

assign Funct = Instr[5:0];

Control control(Opcode, Funct, RegDst, RegWrite, ALUSrc, MemWrite, MemRead, MemToReg, JToPC, Branch, ALUOp); // Asynchronous module.

Figure 5 MIPS.v Control signal code

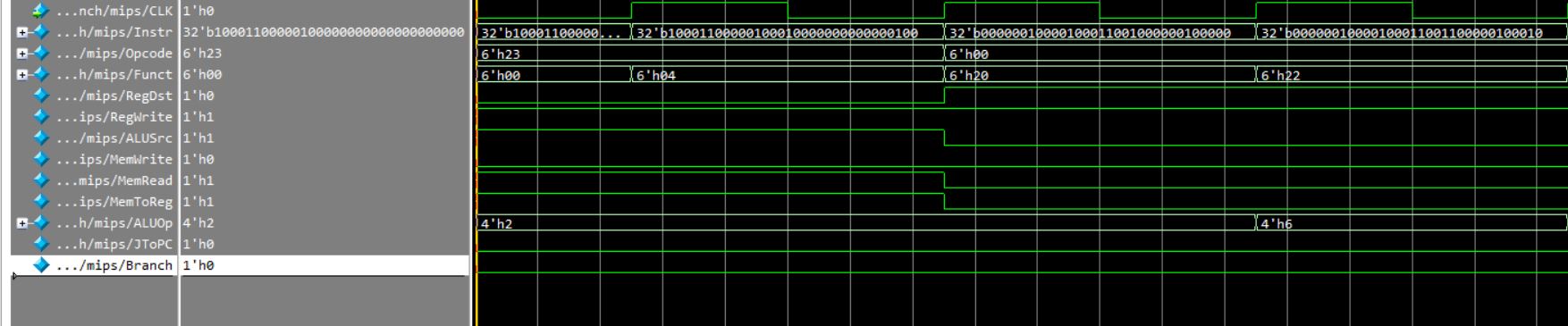


Figure 6 MIPS.v Control signal simulation

또한, Instruction Decode stage에서는 명령어의 Opcode와 Funct 부분을 이용해 Control signal을 생성한다. 이 동작은 Control 모듈에서 수행되며, Opcode와 Funct 값을 입력받아 조건문으로 처리하여 명령에 맞는 control signal을 반환한다.

예를 들면, 0번째 명령인 ‘lw s0 0($zero)’를 수행할 때는 opcode=100011, Funct=000000이므로 이조건을 이용하여 lw 명령인 case로 분기한다. lw 명령이므로 RegDst = 0, RegWrite = 1, ALUSrc = 1, MemWrite = 0, MemRead = 1, MemToReg = 1, JToPC = 0, Branch = 0, ALUOp = 0010인 Control signal이 생성된다.

3. ALU Execution

Figure 7 MIPS.v ALU execution code

// ALU

wire [31:0] ALU\_B, ALU\_result, Lw\_Sw\_offset;

wire zero;

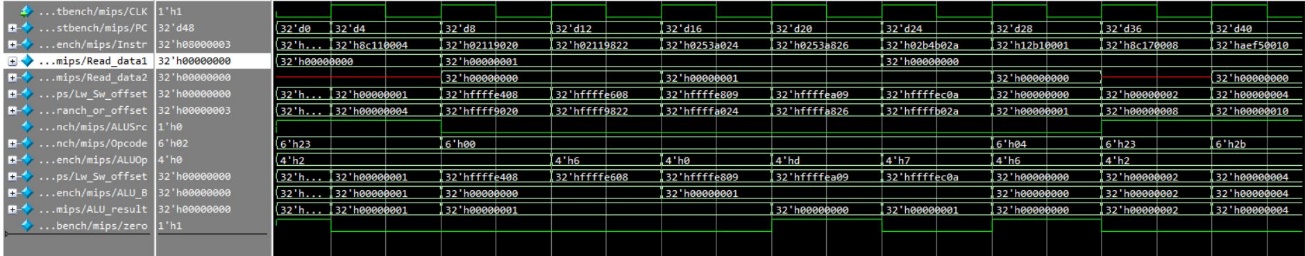
assign Lw\_Sw\_offset = (Branch\_or\_offset[31] == 1) ? {2'b11, Branch\_or\_offset[31:2]} : {2'b00, Branch\_or\_offset[31:2]};

// if instruction is lw or sw, divide the offset by 4.

assign ALU\_B = (Opcode == 6'b100011 || Opcode == 6'b101011) ? Lw\_Sw\_offset : ((ALUSrc) ? Branch\_or\_offset : Read\_data2);

// if instruction is lw or sw, ALU\_B is Lw\_Sw\_offset.

ALU alu(ALUOp, Read\_data1, ALU\_B, ALU\_result, zero); // Asynchronous module.



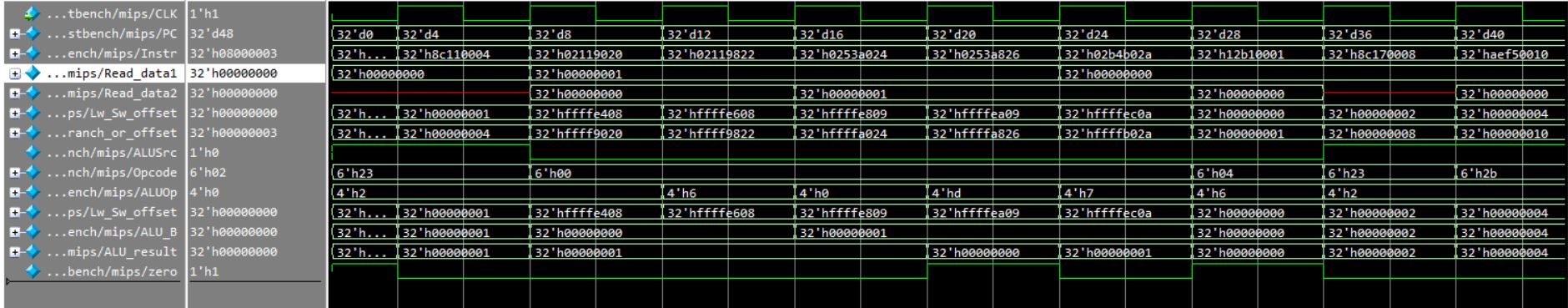


Figure 8 MIPS.v ALU execution simulation

ALU Execution stage에서는 ALU 모듈이 Opcode에 따라 데이터 연산을 수행하거나 load나 branch 명령일 때 주소 연산을 수행한다. ALU 모듈은 Read\_data1과 ALU\_B를 입력으로 받는다. ALU\_B는 ALUSrc가 1이면 명령어의 Immediate 값인 Branch\_or\_offset이 선택되고 Opcode가 lw 또는 sw에 해당하는 코드이면 Lw\_Sw\_offset이 선택되며, 그 외에는 Read\_data2를 선택한다. ALU 모듈은 Read\_data1과 ALU\_B를 Opcode에 따라 연산하여 그 결과를 ALU\_result로 반환한다. Zero wire는 ALU의 flag로, 결과가 0이면 1이 된다. Branch 명령에서 branch 조건을 판단할 때 쓰인다.

0번째 명령인 ‘lw s0 0($zero)’는 ALU execution stage에서 $zero의 register 주소인 0이 Read\_data1이 된다. Opcode가 lw에 해당하는 100011이므로 ALU\_B의 값은 Lw\_Sw\_offset이 선택된다. ALU는 ALUOp가 0010이므로 입력받은 Read\_data1과 ALU\_B(lw offset)를 덧셈 연산하여 그 결과를 out으로 출력한다.

4. Memory Access

Figure 9 MIPS.v Memory access code

// DM

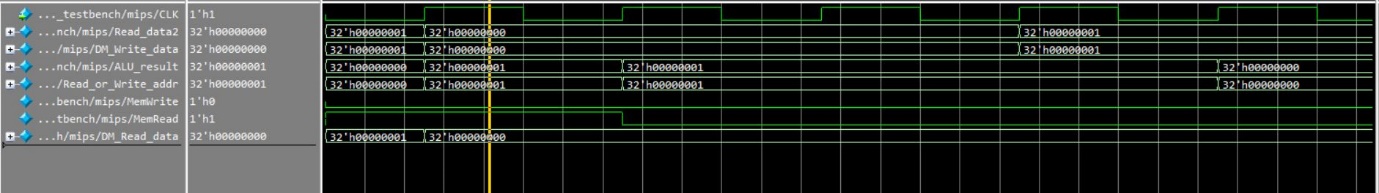
wire [31:0] Read\_or\_Write\_addr;

wire [31:0] DM\_Write\_data, DM\_Read\_data;

assign DM\_Write\_data = Read\_data2;

assign Read\_or\_Write\_addr = ALU\_result;

Data\_Mem DM(CLK, MemWrite, MemRead, Read\_or\_Write\_addr[6:0], DM\_Write\_data, DM\_Read\_data); // Synchronous module.



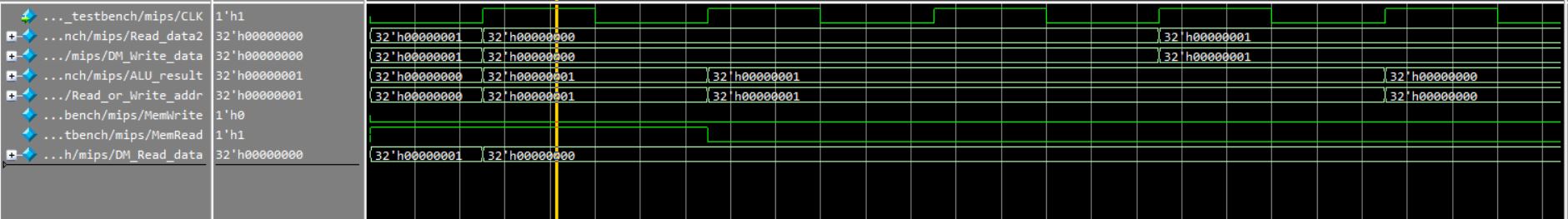


Figure 10 MIPS.v Memory access simulation

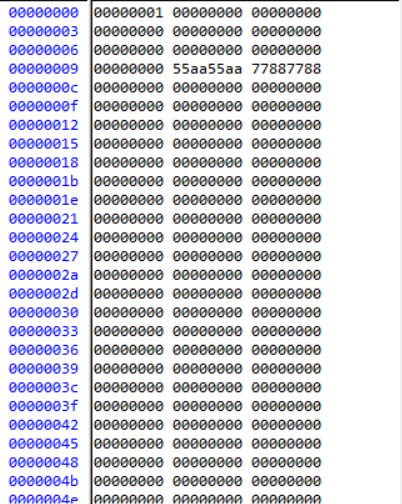


Figure 11 Data memory

Memory Access stage에서는 명령이 load 또는 store일 때 data memory에 접근하여 동작을 수행한다. Data Memory는 Read\_or\_write\_addr과 DM\_write\_data 2개의 입력값을 받는다. Read\_or\_write\_ addr은 ALU Execution 단계에서 계산된 주소값 ALU\_Result 값이다. DM\_write\_data는 rt 값인 Read\_data2이다. DM 모듈은 MemWrite control signal이 1이면 DM\_write\_data를 메모리의 Read\_or\_write\_addr 주소에 쓰고, MemRead control signal이 1이면 메모리의 Read\_or\_write\_addr 주소에서 값을 읽어 DM\_Read\_data로 출력한다.

0번째 명령인 ‘lw s0 0($zero)’는 lw 명령이므로 MemRead control signal이 1이다. Read\_or\_write\_ addr은 $zero의 주소에 offset 0을 더한 0이다. DM\_write\_data는 rt값인 0이나 MemWrite가 0이므로 Data\_Mem 모듈에서 사용되지는 않는다. 이후 Data Memory에서 0번 주소를 읽어 DM\_Read\_data는 1이 된다.

5. Write Back

Figure 12 MIPS.v Write back stage code

assign Reg\_Write\_data = (MemToReg) ? DM\_Read\_data : ALU\_result;

Register Reg(CLK, RegWrite, Read1, Read2, Reg\_Write\_addr, Reg\_Write\_data, Read\_data1, Read\_data2); // Synchronous module.

텍스트이(가) 표시된 사진

자동 생성된 설명

![텍스트이(가) 표시된 사진

자동 생성된 설명](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAeAB4AAD/4RDsRXhpZgAATU0AKgAAAAgABAE7AAIAAAALAAAISodpAAQAAAABAAAIVpydAAEAAAAWAAAQzuocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFdvb2ppbiBMZWUAAAAFkAMAAgAAABQAABCkkAQAAgAAABQAABC4kpEAAgAAAAMxNAAAkpIAAgAAAAMxNAAA6hwABwAACAwAAAiYAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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KKKACiiigDX8N/8f11/143H/otqyK1/Df8Ax/XX/Xjcf+i2rIoAKKKKACiiigArVH/Imv8A9f6/+izWVWqP+RNf/r/X/wBFmgDKooooAKKKKACiiigDV1//AFmn/wDXhD/6DWVWrr/+s0//AK8If/QayqACiiigAooooAK1fFH/ACM15/vj/wBBFZVavij/AJGa8/3x/wCgigDKooooAKKKKACtfwx/yGj/ANe0/wD6Kasitfwx/wAho/8AXtP/AOimoAyKKKKACiiigAooooA14f8AkS7v/r+h/wDQJKyK14f+RLu/+v6H/wBAkrIoAK7X4P8A/JWNE/67N/6Ca4qu1+D/APyVjRP+uzf+gmgD7looooAj0X/kBWP/AF7p/wCgivMfip/yM9v/ANeq/wDoTV6dov8AyArH/r3T/wBBFeY/FT/kZ7f/AK9V/wDQmoA4iiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKAL2i/8hu0/wCuorV8ff8AI6Xv0j/9AWsrRf8AkN2n/XUVq+Pv+R0vfpH/AOgLQBzlFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABWj4f/5GGy/67L/Os6tHw/8A8jDZf9dl/nQBz6f8nZeIP+uT/wDolK8Am/18n+8f517+n/J2XiD/AK5P/wCiUrwCb/Xyf7x/nXl0f+RjW/ww/OZvL+DH1f6DKKKK9QwCiiigArVP/Imp/wBf7f8AosVlVqn/AJE1P+v9v/RYoAyqKKKACiiigAooooA1/En/AB/Wv/Xjb/8AotayK1/En/H9a/8AXjb/APotayKACiiigAooooA1fC3/ACNWm/8AXwv86zJP9Y31Nafhb/katN/6+F/nWZJ/rG+poAbRRRQAUUUUAFa/hv8A4/rr/rxuP/RbVkVr+G/+P66/68bj/wBFtQBkUUUUAFFFFABRRRQBqj/kTX/6/wBf/RZrKrVH/Imv/wBf6/8Aos1lUAFFFFABRRRQAVq6/wD6zT/+vCH/ANBrKrV1/wD1mn/9eEP/AKDQBlUUUUAFFFFABRRRQBq+KP8AkZrz/fH/AKCKyq1fFH/IzXn++P8A0EVlUAFFFFABRRRQBr+GP+Q0f+vaf/0U1ZFa/hj/AJDR/wCvaf8A9FNWRQAUUUUAFFFFABWvD/yJd3/1/Rf+gPWRWvD/AMiXd/8AX9F/6A9AGRRRRQAUUUUAFFFFAGrrv+r0v/rwj/8AQmrKrV13/V6X/wBeEf8A6E1ZVABRRRQAUUUUAFavib/kYJ/9yP8A9FrWVWr4m/5GCf8A3I//AEWtAGVRRRQAUUUUAFavhn/kYIP9yT/0W1ZVavhn/kYIP9yT/wBFtQBlUUUUAFFFFABRRRQBr2f/ACKGp/8AXzb/AMpKyK17P/kUNT/6+bf+UlZFABRRRQAUUUUAFa83/ImWn/X9L/6AlZFa83/ImWn/AF/S/wDoCUAZFFFFABRRRQAUUUUAa/if/kND/r2g/wDRS1kVr+J/+Q0P+vaD/wBFLWRQAUUUUAFFFFAGr4X/AORms/8AfP8A6Cayq1fC/wDyM1n/AL5/9BNZVABRRRQAUUUUAFaugf6zUP8Arwm/9BrKrV0D/Wah/wBeE3/oNAGVRRRQAUUUUAFFFFAGqf8AkTU/6/2/9FisqtU/8ian/X+3/osVlUAFFFFABRRRQAVr+JP+P61/68bf/wBFrWRWv4k/4/rX/rxt/wD0WtAGRRRRQAUUUUAFa3hb/ka9N/6+F/nWTWt4W/5GvTf+vhf50AZcn+sb6mm06T/WN9TTaACiiigAooooA1/Df/H9df8AXjcf+i2rIrX8N/8AH9df9eNx/wCi2rIoAKKKKACiiigArVH/ACJr/wDX+v8A6LNZVao/5E1/+v8AX/0WaAMqiiigAooooAKKKKANXX/9Zp//AF4Q/wDoNZVauv8A+s0//rwh/wDQayqACiiigAooooAK1fFH/IzXn++P/QRWVWr4o/5Ga8/3x/6CKAMqiiigAooooAK1/DH/ACGj/wBe0/8A6Kasitfwx/yGj/17T/8AopqAMiiiigAooooAKKKKANeH/kS7v/r+h/8AQJKyK14f+RLu/wDr+h/9AkrIoAK7X4P/APJWNE/67N/6Ca4qu1+D/wDyVjRP+uzf+gmgD7looooAj0X/AJAVj/17p/6CK8x+Kn/Iz2//AF6r/wChNXp2i/8AICsf+vdP/QRXmPxU/wCRnt/+vVf/AEJqAOIooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigC9ov8AyG7T/rqK1fH3/I6Xv0j/APQFrK0X/kN2n/XUVq+Pv+R0vfpH/wCgLQBzlFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABWj4f8A+Rhsv+uy/wA6zq0fD/8AyMNl/wBdl/nQBz6f8nZeIP8Ark//AKJSvAJv9fJ/vH+de/p/ydl4g/65P/6JSvAJv9fJ/vH+deXR/wCRjW/ww/OZvL+DH1f6DKKKK9QwCiiigArVP/Imp/1/t/6LFZVap/5E1P8Ar/b/ANFigDKooooAKKKKACiiigDX8Sf8f1r/ANeNv/6LWsitfxJ/x/Wv/Xjb/wDotayKACiiigAooooA1fC3/I1ab/18L/OsyT/WN9TWn4W/5GrTf+vhf51mSf6xvqaAG0UUUAFFFFABWv4b/wCP66/68bj/ANFtWRWv4b/4/rr/AK8bj/0W1AGRRRRQAUUUUAFFFFAGqP8AkTX/AOv9f/RZrKrVH/Imv/1/r/6LNZVABRRRQAUUUUAFauv/AOs0/wD68If/AEGsqtXX/wDWaf8A9eEP/oNAGVRRRQAUUUUAFFFFAGr4o/5Ga8/3x/6CKyq1fFH/ACM15/vj/wBBFZVABRRRQAUUUUAa/hj/AJDR/wCvaf8A9FNWRWv4Y/5DR/69p/8A0U1ZFABRRRQAUUUUAFa8P/Il3f8A1/Rf+gPWRWvD/wAiXd/9f0X/AKA9AGRRRRQAUUUUAFFFFAGrrv8Aq9L/AOvCP/0Jqyq1dd/1el/9eEf/AKE1ZVABRRRQAUUUUAFavib/AJGCf/cj/wDRa1lVq+Jv+Rgn/wByP/0WtAGVRRRQAUUUUAFavhn/AJGCD/ck/wDRbVlVq+Gf+Rgg/wByT/0W1AGVRRRQAUUUUAFFFFAGvZ/8ihqf/Xzb/wApKyK17P8A5FDU/wDr5t/5SVkUAFFFFABRRRQAVrzf8iZaf9f0v/oCVkVrzf8AImWn/X9L/wCgJQBkUUUUAFFFFABRRRQBr+J/+Q0P+vaD/wBFLWRWv4n/AOQ0P+vaD/0UtZFABRRRQAUUUUAavhf/AJGaz/3z/wCgmsqtXwv/AMjNZ/75/wDQTWVQAUUUUAFFFFABWroH+s1D/rwm/wDQayq1dA/1mof9eE3/AKDQBlUUUUAFFFFABRRRQBqn/kTU/wCv9v8A0WKyq1T/AMian/X+3/osVlUAFFFFABRRRQAVr+JP+P61/wCvG3/9FrWRWv4k/wCP61/68bf/ANFrQBkUUUUAFFFFABWt4W/5GvTf+vhf51k1reFv+Rr03/r4X+dAGXJ/rG+pptOk/wBY31NNoAKKKKACiiigDX8N/wDH9df9eNx/6Lasitfw3/x/XX/Xjcf+i2rIoAKKKKACiiigArVH/Imv/wBf6/8Aos1lVqj/AJE1/wDr/X/0WaAMqiiigAooooAKKKKANXX/APWaf/14Q/8AoNZVauv/AOs0/wD68If/AEGsqgAooooAKKKKACtXxR/yM15/vj/0EVlVq+KP+RmvP98f+gigDKooooAKKKKACtfwx/yGj/17T/8AopqyK1/DH/IaP/XtP/6KagDIooooAKKKKACiiigDXh/5Eu7/AOv6H/0CSsiteH/kS7v/AK/of/QJKyKACu1+D/8AyVjRP+uzf+gmuKrtfg//AMlY0T/rs3/oJoA+5aKKKAI9F/5AVj/17p/6CK8x+Kn/ACM9v/16r/6E1FFAHEUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQBe0X/kN2n/XUVq+Pv8AkdL36R/+gLRRQBzlFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABWj4f/5GGy/67L/OiigDn0/5Oy8Qf9cn/wDRKV4BN/r5P94/zoory6P/ACMa3+GH5zN5fwY+r/QZRRRXqGAUUUUAFap/5E1P+v8Ab/0WKKKAMqiiigAooooAKKKKANfxJ/x/Wv8A142//otayKKKACiiigAooooA1fC3/I1ab/18L/OsyT/WN9TRRQA2iiigAooooAK1/Df/AB/XX/Xjcf8AotqKKAMiiiigAooooAKKKKANUf8AImv/ANf6/wDos1lUUUAFFFFABRRRQAVq6/8A6zT/APrwh/8AQaKKAMqiiigAooooAKKKKANXxR/yM15/vj/0EVlUUUAFFFFABRRRQBr+GP8AkNH/AK9p/wD0U1ZFFFABRRRQAUUUUAFa8P8AyJd3/wBf0X/oD0UUAZFFFFABRRRQAUUUUAauu/6vS/8Arwj/APQmrKoooAKKKKACiiigArV8Tf8AIwT/AO5H/wCi1oooAyqKKKACiiigArV8M/8AIwQf7kn/AKLaiigDKooooAKKKKACiiigDXs/+RQ1P/r5t/5SVkUUUAFFFFABRRRQAVrzf8iZaf8AX9L/AOgJRRQBkUUUUAFFFFABRRRQBr+J/wDkND/r2g/9FLWRRRQAUUUUAFFFFAGr4X/5Gaz/AN8/+gmsqiigAooooAKKKKACtXQP9ZqH/XhN/wCg0UUAZVFFFABRRRQAUUUUAap/5E1P+v8Ab/0WKyqKKACiiigAooooAK1/En/H9a/9eNv/AOi1oooAyKKKKACiiigArW8Lf8jXpv8A18L/ADoooAy5P9Y31NNoooAKKKKACiiigDX8N/8AH9df9eNx/wCi2rIoooAKKKKACiiigArVH/Imv/1/r/6LNFFAGVRRRQAUUUUAFFFFAGrr/wDrNP8A+vCH/wBBrKoooAKKKKACiiigArV8Uf8AIzXn++P/AEEUUUAZVFFFABRRRQAVr+GP+Q0f+vaf/wBFNRRQBkUUUUAFFFFABRRRQBrw/wDIl3f/AF/Q/wDoElZFFFABXa/B/wD5Kxon/XZv/QTRRQB9y0UUUAf/2Q==)

Figure 13 MIPS.v Write back simuation

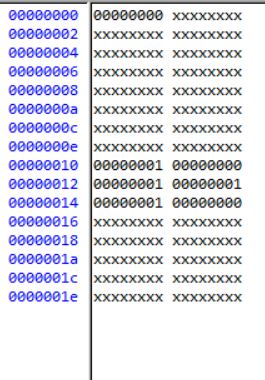


Figure 13 Register

Write back stage에서는 레지스터를 ALU 연산 결과 또는 메모리에서 읽은 데이터 값으로 업데이트한다. 레지스터에 쓸 데이터는 MemToReg control signal이 결정하고, register에 값을 쓰는지는 MemWrite control signal이 결정한다. Reg\_Write\_data는 레지스터에 쓸 값으로 MemToReg이 1이면 DM\_Read\_data로, 0이면 ALU\_result가 된다. Register 모듈은 Reg\_Write\_data를 입력받아 MemWrite가 1이면 레지스터의 Reg\_write\_addr에 Reg\_write\_data를 쓴다.

0번째 명령인 ‘lw s0 0($zero)’는 lw이므로 MemToReg 값이 1이 된다. 따라서 Reg\_Write\_data는 메모리에서 읽은 DM\_Read\_data인 1이 된다. Reg\_write\_addr은 s0의 주소인 10000이며 Register의 10000 주소에 1을 쓴다.

**II. 오류 분석**

1. 같은 레지스터에서 값을 읽고 쓸 때 발생하는 data 오류

// Instruction Memory

// lw s0 0($zero) , s0 = 0

mem[0] = 32'b100011\_00000\_10000\_00000\_00000\_000000;

// lw s1 4($zero) , s1 = 0

mem[1] = 32'b100011\_00000\_10001\_00000\_00000\_000100;

// add s0 s0 s1 , s0 = 0

mem[2] = 32'b000000\_10000\_10001\_10000\_00000\_100000;

// Data Memory

mem[0] = 32'd0; // for s0 = 1

mem[1] = 32'd0; // for s1 = 0

Figure 14 Simulated instruction 1

건물이(가) 표시된 사진

자동 생성된 설명

Figure 15 Register write simulation

Add s0 s0 s1 명령과 같이 데이터를 읽는 레지스터와 데이터를 쓰는 레지스터가 같을 때 실행이 되지 않는 오류가 있다.

always @(\*)

begin

    if (read1 == 5'd0) // $zero

        data1 = 32'd0;

    else if ((read1 == wrreg) && RegWrite)

        data1 = wrdata;

    else

        data1 = mem[read1][31:0];

end

Figure 16 Register.v code to read register

이는 RegWrite control signal이 1이고 읽는 메모리와 쓰는 메모리가 같으면 write data를 읽어서 저장하기 때문에 발생한다. 이 코드는 memory를 write하는 코드에서 사용하는 wrdata와 경쟁 관계에 있다.

2. Jump instruction일 때 ALU가 AND 연산을 수행하는 오류

![텍스트이(가) 표시된 사진

자동 생성된 설명](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAeAB4AAD/4RDsRXhpZgAATU0AKgAAAAgABAE7AAIAAAALAAAISodpAAQAAAABAAAIVpydAAEAAAAWAAAQzuocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFdvb2ppbiBMZWUAAAAFkAMAAgAAABQAABCkkAQAAgAAABQAABC4kpEAAgAAAAMwMwAAkpIAAgAAAAMwMwAA6hwABwAACAwAAAiYAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAMjAxOToxMToyNCAyMjozNTowOAAyMDE5OjExOjI0IDIyOjM1OjA4AAAAVwBvAG8AagBpAG4AIABMAGUAZQAAAP/hCx1odHRwOi8vbnMuYWRvYmUuY29tL3hhcC8xLjAvADw/eHBhY2tldCBiZWdpbj0n77u/JyBpZD0nVzVNME1wQ2VoaUh6cmVTek5UY3prYzlkJz8+DQo8eDp4bXBtZXRhIHhtbG5zOng9ImFkb2JlOm5zOm1ldGEvIj48cmRmOlJERiB4bWxuczpyZGY9Imh0dHA6Ly93d3cudzMub3JnLzE5OTkvMDIvMjItcmRmLXN5bnRheC1ucyMiPjxyZGY6RGVzY3JpcHRpb24gcmRmOmFib3V0PSJ1dWlkOmZhZjViZGQ1LWJhM2QtMTFkYS1hZDMxLWQzM2Q3NTE4MmYxYiIgeG1sbnM6ZGM9Imh0dHA6Ly9wdXJsLm9yZy9kYy9lbGVtZW50cy8xLjEvIi8+PHJkZjpEZXNjcmlwdGlvbiByZGY6YWJvdXQ9InV1aWQ6ZmFmNWJkZDUtYmEzZC0xMWRhLWFkMzEtZDMzZDc1MTgyZjFiIiB4bWxuczp4bXA9Imh0dHA6Ly9ucy5hZG9iZS5jb20veGFwLzEuMC8iPjx4bXA6Q3JlYXRlRGF0ZT4yMDE5LTExLTI0VDIyOjM1OjA4LjAyNTwveG1wOkNyZWF0ZURhdGU+PC9yZGY6RGVzY3JpcHRpb24+PHJkZjpEZXNjcmlwdGlvbiByZGY6YWJvdXQ9InV1aWQ6ZmFmNWJkZDUtYmEzZC0xMWRhLWFkMzEtZDMzZDc1MTgyZjFiIiB4bWxuczpkYz0iaHR0cDovL3B1cmwub3JnL2RjL2VsZW1lbnRzLzEuMS8iPjxkYzpjcmVhdG9yPjxyZGY6U2VxIHhtbG5zOnJkZj0iaHR0cDovL3d3dy53My5vcmcvMTk5OS8wMi8yMi1yZGYtc3ludGF4LW5zIyI+PHJkZjpsaT5Xb29qaW4gTGVlPC9yZGY6bGk+PC9yZGY6U2VxPg0KCQkJPC9kYzpjcmVhdG9yPjwvcmRmOkRlc2NyaXB0aW9uPjwvcmRmOlJERj48L3g6eG1wbWV0YT4NCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgPD94cGFja2V0IGVuZD0ndyc/Pv/bAEMABwUFBgUEBwYFBggHBwgKEQsKCQkKFQ8QDBEYFRoZGBUYFxseJyEbHSUdFxgiLiIlKCkrLCsaIC8zLyoyJyorKv/bAEMBBwgICgkKFAsLFCocGBwqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKv/AABEIAWsHWgMBIgACEQEDEQH/xAAfAAABBQEBAQEBAQAAAAAAAAAAAQIDBAUGBwgJCgv/xAC1EAACAQMDAgQDBQUEBAAAAX0BAgMABBEFEiExQQYTUWEHInEUMoGRoQgjQrHBFVLR8CQzYnKCCQoWFxgZGiUmJygpKjQ1Njc4OTpDREVGR0hJSlNUVVZXWFlaY2RlZmdoaWpzdHV2d3h5eoOEhYaHiImKkpOUlZaXmJmaoqOkpaanqKmqsrO0tba3uLm6wsPExcbHyMnK0tPU1dbX2Nna4eLj5OXm5+jp6vHy8/T19vf4+fr/xAAfAQADAQEBAQEBAQEBAAAAAAAAAQIDBAUGBwgJCgv/xAC1EQACAQIEBAMEBwUEBAABAncAAQIDEQQFITEGEkFRB2FxEyIygQgUQpGhscEJIzNS8BVictEKFiQ04SXxFxgZGiYnKCkqNTY3ODk6Q0RFRkdISUpTVFVWV1hZWmNkZWZnaGlqc3R1dnd4eXqCg4SFhoeIiYqSk5SVlpeYmZqio6Slpqeoqaqys7S1tre4ubrCw8TFxsfIycrS09TV1tfY2dri4+Tl5ufo6ery8/T19vf4+fr/2gAMAwEAAhEDEQA/APSNd8MeFfDvk/2k90PPzs2Dd0xn+dY2zwGGLeZfZPU+XWz8W/8AmF/9tf8A2WvNqAOxx4E/563/AP37ox4E/wCet/8A9+646igDsceBP+et/wD9+6MeBP8Anrf/APfuuefRriPQJdUlBRFZRGpHL5OCfpWajh1yK2dGapqpbQ544mlKq6KfvI7PHgT/AJ63/wD37ox4E/563/8A37rjqKxOg7HHgT/nrf8A/fujHgT/AJ63/wD37rjqKAOxx4E/563/AP37ox4E/wCet/8A9+65Dy38sPsbYTgNjjP1p8ltLFBFM6ERy52N/ewcGgDrMeBP+et//wB+6MeBP+et/wD9+646igDsceBP+et//wB+6MeBP+et/wD9+646pYbaW48zyUL+Whd8dlHegDrMeBP+et//AN+6MeBP+et//wB+646pmtJ0tUuXjIhkYqrZHJHX+dAHV48Cf89b/wD790Y8Cf8APW//AO/dcdViaxube2huJoikU4JjYkfNg4/pQB1OPAn/AD1v/wDv3RjwJ/z1v/8Av3XHUUAdjjwJ/wA9b/8A790Y8Cf89b//AL91ydtbTXlwsFsheRzgKDjNEVrcTMywQSSleuxS2PyoA6zHgT/nrf8A/fujHgT/AJ63/wD37rkWikXdujYbThsqeD70gRyhYKxUHBIHAoA6/HgT/nrf/wDfutnwp/wj/wDwkMX9gvcM3lv5vnLjjHGP1rzd43jx5iMmRkbhjIrrfhv/AMjI3/XJqAJGHgXecy3+c8/u6bjwJ/z1v/8Av3XJiGSaZ1hjeQgkkIpPFEFtLdXKW8CFpZGCqvTJ9OaAOsx4E/563/8A37ox4E/563//AH7rlhY3JmmiER3wKWkGR8oHWoACzAKCSTgAd6AOwx4E/wCet/8A9+6MeBP+et//AN+65CSKSF9kyNG3owwabQB2OPAn/PW//wC/dGPAn/PW/wD+/dcdRQB2OPAn/PW//wC/dGPAn/PW/wD+/dcdRQB2OPAn/PW//wC/dGPAn/PW/wD+/dcdRQB2OPAn/PW//wC/dGPAn/PW/wD+/dcdRQB2OPAn/PW//wC/dGPAn/PW/wD+/dcdRQB2OPAn/PW//wC/dKP+EFHSW/8A+/dcbRQB28l14NlTZLeao6/3WBIqHHgT/nrf/wDfuuOooA9B0D/hGv8AhIbL+wnuWuPM+YSrgbcH+uK8y13U/gWviLUl1K01A3gu5RcFYGIMm87sc+ua67wJ/wAjda/j/Kvm3xLLbw/ETXHvLY3MQ1G5zGJCmf3jdxSbsrik2ldK56umpfAGSRUWy1LLEAf6O3+NSXd38BLK8mtZ7LURJC5R8QMRkHB715Da6jobXkIXQWUmRQD9tY45+lVfEy7PFeqL1xdyj/x41lGrzS5Wmn52/RsxhW5pckotPfW36NnsX9qfAD/ny1L/AMB2/wAaP7U+AH/PlqX/AIDt/jXhNFbG57t/anwA/wCfLUv/AAHb/Gj+1PgB/wA+Wpf+A7f414TRQB7t/anwA/58tS/8B2/xo/tT4Af8+Wpf+A7f414jp9sL3Ura1ZignmSMsBnGSBn9a1ri60O0upbdtDeQwuYy/wBtYbsHGcY4rKdTllypNvyt+rRhOtyy5VFt+Vv1aPWP7U+AH/PlqX/gO3+NH9qfAD/ny1L/AMB2/wAa8i/tLQv+gA3/AIHN/hR/aWhf9ABv/A5v8Kn2s/5H/wCS/wCZPtp/8+5f+S//ACR67/anwA/58tS/8B2/xo/tT4Af8+Wpf+A7f415F/aWhf8AQAb/AMDm/wAKP7S0L/oAN/4HN/hR7Wf8j/8AJf8AMPbT/wCfcv8AyX/5I9ktbn4C3ZlENlqH7qJpWzAw+VRk96g/tT4Af8+Wpf8AgO3+NeZaVdaXcxaklnpTWso0+ZhIblpOAvTBFctVwqc91azX9dLl06vO2mmmu9v0bPdv7U+AH/PlqX/gO3+NH9qfAD/ny1L/AMB2/wAa8JorQ2Pdv7U+AH/PlqX/AIDt/jR/anwA/wCfLUv/AAHb/GvCaKAPdv7U+AH/AD5al/4Dt/jR/anwA/58tS/8B2/xrx3Q7K3ufttxdo0sVlb+eYg23zPmVcZ7fez+FS/2loX/AEAG/wDA5v8ACsHV95xjFu3p+rRzyrtScYxbtva36tHrv9qfAD/ny1L/AMB2/wAaP7U+AH/PlqX/AIDt/jXkX9paF/0AG/8AA5v8KP7S0L/oAN/4HN/hR7Wf8j/8l/zF7af/AD7l/wCS/wDyR67/AGp8AP8Any1L/wAB2/xo/tT4Af8APlqX/gO3+NeRf2loX/QAb/wOb/Cj+0tC/wCgA3/gc3+FHtZ/yP8A8l/zD20/+fcv/Jf/AJI9k+0/AUaeLz7FqHkmUxf6hs7sZ9fQ1B/anwA/58tS/wDAdv8AGvK9Rls7jwdFJYWZs0F+yshmMmT5Y5yRXO1pCamr2sa06iqRvax7t/anwA/58tS/8B2/xo/tT4Af8+Wpf+A7f414TRVmh7t/anwA/wCfLUv/AAHb/Gj+1PgB/wA+Wpf+A7f414TRQB9P6drfwzXwLeRabY69/wAI4Wb7SUsyYs8bsnOfSuW/tT4Af8+Wpf8AgO3+NZfgi7ZvgR4ghkUNbWrPJLF0Mwbbxu/hxt615t/aWhf9ABv/AAOb/CvIwmIlKrWiqfwytpbXRau7Wppi4zocnuuV0npbS/q0eu/2p8AP+fLUv/Adv8aP7U+AH/PlqX/gO3+NeRf2loX/AEAG/wDA5v8ACj+0tC/6ADf+Bzf4V6HtZ/yP/wAl/wAzi9tP/n3L/wAl/wDkj13+1PgB/wA+Wpf+A7f40f2p8AP+fLUv/Adv8a8i/tLQv+gA3/gc3+FH9paF/wBABv8AwOb/AAo9rP8Akf8A5L/mHtp/8+5f+S//ACR7Ld3HwGsZEjnstQDPGkoxAx+Vhkd/Q1X/ALU+AH/PlqX/AIDt/jXk3i7y/wC17doU8uNrG3ZULZ2gxrxnvWFWkJqcVJdTanNVIKcdme7f2p8AP+fLUv8AwHb/ABo/tT4Af8+Wpf8AgO3+NeE0VZZ7t/anwA/58tS/8B2/xo/tT4Af8+Wpf+A7f414TRQB7t/anwA/58tS/wDAdv8AGj+1PgB/z5al/wCA7f415Xfro+jXhsZ9Ke8kiVS0/wBqZN+5Q33QOOuPwqt/aWhf9ABv/A5v8K5413Jc0YNp+n+ZyRxEppSjTbT/AMP/AMkeu/2p8AP+fLUv/Adv8aP7U+AH/PlqX/gO3+NeRf2loX/QAb/wOb/Cj+0tC/6ADf8Agc3+FP2s/wCR/wDkv+ZXtp/8+5f+S/8AyR67/anwA/58tS/8B2/xpRqfwBJAFlqXP/Tu3+NeQ/2loX/QAb/wOb/CnJqWhmRcaAw5H/L83+FHtZ/yP/yX/MPbT/59v/yX/wCSPYr25+AthfTWtxZagJYWKNtgYjI/GoP7U+AH/PlqX/gO3+NeQ+LVCeL9UUdBct/OsetYyU4qS2ZtCanFTjs9T3b+1PgB/wA+Wpf+A7f40f2p8AP+fLUv/Adv8a8Joqiz3b+1PgB/z5al/wCA7f40f2p8AP8Any1L/wAB2/xrwmr+h2CalrENrMxVGDM2O4VS2PxxipnJQi5PZETmqcHOWy1PZ/7U+AH/AD5al/4Dt/jR/anwA/58tS/8B2/xryL+0tC/6ADf+Bzf4Uf2loX/AEAG/wDA5v8ACsvaz/kf/kv+Zj7af/PuX/kv/wAkeu/2p8AP+fLUv/Adv8aP7U+AH/PlqX/gO3+NeRf2loX/AEAG/wDA5v8ACj+0tC/6ADf+Bzf4Ue1n/I//ACX/ADD20/8An3L/AMl/+SPXf7U+AH/PlqX/AIDt/jVizuPgNfSPHBZagWSN5TmBh8qjJ7+grxr+0tC/6ADf+Bzf4Vp6HdaVczXkdnpLWsv2C4IlN0z4xG3Yik67iryg0vl/mKWIcVzSg0u/u/oz0r+1PgB/z5al/wCA7f40f2p8AP8Any1L/wAB2/xrwmiug6j3b+1PgB/z5al/4Dt/jR/anwA/58tS/wDAdv8AGvCaKAPdv7U+AH/PlqX/AIDt/jR/anwA/wCfLUv/AAHb/GvCa19KtLQaTeanfQtcpbyRxCASFNxfdzuHpt6e9RUmoRu/6uZ1Kipx5n/V9D1/+1PgB/z5al/4Dt/jR/anwA/58tS/8B2/xryL+0tC/wCgA3/gc3+FH9paF/0AG/8AA5v8Kz9rP+R/+S/5mXtp/wDPuX/kv/yR67/anwA/58tS/wDAdv8AGj+1PgB/z5al/wCA7f415F/aWhf9ABv/AAOb/Cj+0tC/6ADf+Bzf4Ue1n/I//Jf8w9tP/n3L/wAl/wDkj13+1PgB/wA+Wpf+A7f41P8AafgKdPN59i1DyRKIv9Q2d2M+voK8b/tLQv8AoAN/4HN/hVq+msrjwZ5lhZGzUagqspmMm4+WeckcUe2d0pRav6fo2Ht2mlKDV/T9Gz1P+1PgB/z5al/4Dt/jR/anwA/58tS/8B2/xrwmitzpPdv7U+AH/PlqX/gO3+NH9qfAD/ny1L/wHb/GvCaKA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Figure 17 Jump Instruction 수행 시 ALU 인자 값

Jump Instruction 수행 시 ALUOp가 0000이 되어 and 연산을 수행하는 논리적 오류가 있다. 이렇게 계산된 값은 MemRead, MemWrite, RegWrite control signal이 0이기 때문에 실제로 사용되지는 않으나 설계상에는 없는 동작을 수행하는 논리적 오류이다.

Figure 18 Control.v jump instruction일 때의 control signal

case (Opcode)

…

6'b000010 : begin// Jump

                    RegWrite = 0;             MemWrite = 0; MemRead = 0;           JToPC = 1; Branch = 0;

                    ALUOp = 4'b0000;

            RegDst = 0; ALUSrc = 0; MemToReg = 0;  // To avoid creating a latch

        end

이는 control signal을 생성하는 모듈인 Control.v 코드에서 ALUOp를 AND에 해당하는 0000으로 설정해서 발생하는 오류이다.

3. ALU의 subtraction overflow flag가 잘못 할당되는 오류

![스크린샷이(가) 표시된 사진

자동 생성된 설명](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RDsRXhpZgAATU0AKgAAAAgABAE7AAIAAAALAAAISodpAAQAAAABAAAIVpydAAEAAAAWAAAQzuocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFdvb2ppbiBMZWUAAAAFkAMAAgAAABQAABCkkAQAAgAAABQAABC4kpEAAgAAAAM2OAAAkpIAAgAAAAM2OAAA6hwABwAACAwAAAiYAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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rn/AIJYf/kqufoos+4cr7nQfY/B3/Qd1z/wSw//ACVR9j8Hf9B3XP8AwSw//JVc/RRZ9w5X3Ow0W08JC/k8rW9aZvslzkNo0QGPIfJ/4+jzjPHfpx1rP+x+Dv8AoO65/wCCWH/5KqjoP/IRl/68rr/0nkrNos+4cr7nQfY/B3/Qd1z/AMEsP/yVR9j8Hf8AQd1z/wAEsP8A8lVz9FFn3Dlfc6D7H4O/6Duuf+CWH/5KrQ0C08JDxJphh1vWmkF3FtVtGiUE7xgE/ajge+DXH1peHP8AkatK/wCv2H/0MUWfcOV9y99j8Hf9B3XP/BLD/wDJVH2Pwd/0Hdc/8EsP/wAlVz9FFn3Dlfc6D7H4O/6Duuf+CWH/AOSqPsfg7/oO65/4JYf/AJKrn6KLPuHK+50H2Pwd/wBB3XP/AASw/wDyVWhrVp4SN/H5ut60rfZLbAXRoiMeQmD/AMfQ5xjjt0561x9aWvf8hGL/AK8rX/0njos+4cr7l77H4O/6Duuf+CWH/wCSqPsfg7/oO65/4JYf/kqufoos+4cr7nQfY/B3/Qd1z/wSw/8AyVR9j8Hf9B3XP/BLD/8AJVc/RRZ9w5X3Ow1G08JGw0nfretBRaNsI0aIkjz5eT/pXBznjnoD3wM/7H4O/wCg7rn/AIJYf/kqqOqf8g7Rv+vJv/Sias2iz7hyvudB9j8Hf9B3XP8AwSw//JVdb8LoNCh+JGlyaDqOo3t+PO8qC909LaJ/3L53SLNIVwuSMIckAcZyPMq7n4L/APJXdF/7b/8AoiSuHMvdwVZvX3ZafJ9tTWjF+1jr1QzxZa+GH8Z60+oavq0F22oTmeKDSopY0fzG3Krm4UsoOQGKqSOcDpUMNp4S/wCEbvANb1ry/tdvub+xosg7JsDH2rkdec8YHXPGZ44/5KF4i/7Clz/6NaqkH/Iq33/X7bf+gT1vhlehB+S/IicXzPU//9k=)

Figure 18 sub t3 t0 t1을 수행한 결과

위 wave는 17번 instruction인 sub t3 t0 t1을 수행했을 때의 결과이다. ALU result는 1101\_1110\_0010\_0001\_1101\_1110\_0010\_0010로 정상적인 연산 결과가 음수로 나온다. 그러나, overflow flas인 oflow\_sub는 오버플로우가 일어나지 않아도 1로 나오는 오류이다.

Figure 19 ALU.v subtraction overflow flag code

assign oflow\_sub = (a[31] == b[31] && sub\_ab[31] != a[31]) ? 1 : 0;

이는 ALU 모듈에서 뺄셈의 오버플로우 플래그를 연산하는 두 인자의 부호가 같고, 연산 결과의 부호가 첫 번째 인자의 부호와 다를 때 오버플로우 플래그를 1로 설정해서 발생하는 오류이다.

4. 0번째 명령의 수행 시간이 cycle time의 0.5배인 오류

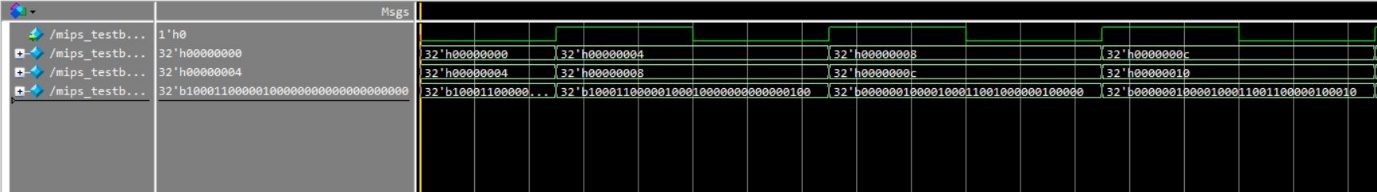


Figure 19 첫 번째 명령을 수행한 simulation 결과

주어진 MIPS 프로세서의 clock cycle time은 100ns이다. 그러나 첫 번째 명령은 50ns만에 수행된다. ModelSIM의 시뮬레이션에서는 절반의 clock cycle time에도 잘 동작하지만, 실제 회로에서는 장치별로 수행 시간이 존재하기 때문에 0번 명령만 절반의 시간으로 동작하게 설계할 수 없다.

이는 초기에 clock이 0일 때 PC값을 0으로 설정하여 발생하는 오류이다.

Figure 0 PC Initialization code

initial

begin

    PC = 32'd0;

end

**III. 오류 정정 및 검증**

1. 같은 레지스터에서 값을 읽고 쓸 때 발생하는 data 오류 정정

always @(\*)

begin

    if (read1 == 5'd0) // $zero

        data1 = 32'd0;

    else

        data1 = mem[read1][31:0];

end

always @(\*)

begin

    if (read2 == 5'd0) // $zero

        data2 = 32'd0;

    else

        data2 = mem[read2][31:0];

end

…

MIPS CPU는 add s0 s0 s1처럼 읽고 쓰는 레지스터가 같을 때 연산 전 read register 1,2에 저장된 값을 data 1,2로 출력하고 write data를 write register에 쓴다. 읽고 쓰는 레지스터가 같아도 write data를 data 1,2 로 출력하는 설계 요구 조건은 없으므로 else if문을 삭제하였다.

Figure 17 Register.v code to read register

![모니터이(가) 표시된 사진

자동 생성된 설명](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAeAB4AAD/4RDsRXhpZgAATU0AKgAAAAgABAE7AAIAAAALAAAISodpAAQAAAABAAAIVpydAAEAAAAWAAAQzuocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFdvb2ppbiBMZWUAAAAFkAMAAgAAABQAABCkkAQAAgAAABQAABC4kpEAAgAAAAM1NwAAkpIAAgAAAAM1NwAA6hwABwAACAwAAAiYAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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Figure 18 code 수정 후 Register write simulation

Register.v 수정 후 add s0 s0 s1의 결과가 s0=0으로 설계대로 동작함을 확인할 수 있다.

![텍스트이(가) 표시된 사진

자동 생성된 설명](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAeAB4AAD/4RDsRXhpZgAATU0AKgAAAAgABAE7AAIAAAALAAAISodpAAQAAAABAAAIVpydAAEAAAAWAAAQzuocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFdvb2ppbiBMZWUAAAAFkAMAAgAAABQAABCkkAQAAgAAABQAABC4kpEAAgAAAAMwOAAAkpIAAgAAAAMwOAAA6hwABwAACAwAAAiYAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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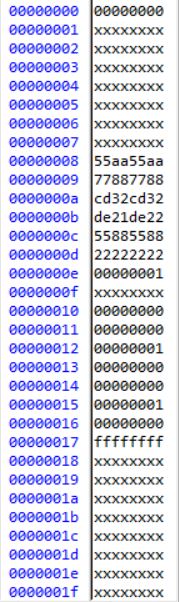
Figure 19 code 수정 후 기존 instruction 수행 simulation

Figure 0 code 수정 후 register map

설계에 주어진 memory data를 활용해 instruction을 수행해도 올바르게 동작하는 것을 확인할 수 있다.

2. Jump instruction일 때 ALU가 AND 연산을 수행하는 오류 정정

Figure Control.v : Opcode가 Jump일 때 control signal

case (Opcode)

…

6'b000010 : begin// Jump

                    RegWrite = 0;             MemWrite = 0; MemRead = 0;           JToPC = 1; Branch = 0;

                    ALUOp = 4'b1111;

            RegDst = 0; ALUSrc = 0; MemToReg = 0;  // To avoid creating a latch

        end

Jump 명령에서는 ALU가 사용되지 않으므로 ALU가 특정 연산을 수행하지 않도록 ALUOp를 1111로 수정하였다. ALUOp가 1111이면 ALU는 default case로 항상 결과를 0으로 출력한다.

![스크린샷이(가) 표시된 사진

자동 생성된 설명](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAeAB4AAD/4RDsRXhpZgAATU0AKgAAAAgABAE7AAIAAAALAAAISodpAAQAAAABAAAIVpydAAEAAAAWAAAQzuocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFdvb2ppbiBMZWUAAAAFkAMAAgAAABQAABCkkAQAAgAAABQAABC4kpEAAgAAAAMzMQAAkpIAAgAAAAMzMQAA6hwABwAACAwAAAiYAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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Figure code 수정 후 jump instruction simuation 결과

시뮬레이션 실행 결과 Jump instruction을 수행할 때 ALUOp는 1111이 되고 ALU result는 항상 0이 되는 것을 확인할 수 있다.

3. ALU의 subtraction overflow flag가 잘못 할당되는 오류 정정

assign oflow\_sub = (a[31] != b[31] && sub\_ab[31] == b[31]) ? 1 : 0;

Figure 19 ALU.v subtraction overflow flag code 수정

이진수의 뺄셈 오버플로우는 서로 다른 부호의 수를 뺐을 때, 뺄셈 결과의 부호가 두 번째 인자와 같을 때 발생한다. 즉, (+A) – (-B) = (-C) 이거나 (-A) – (+B) = +C일 때 발생한다. 따라서, 뺄셈의 오버플로우 여부를 결정하는 코드를 a와 b의 부호 비트가 다르고 sub\_ab의 부호 비트가 b의 부호 비트와 같을 때 오버플로우를 나타내도록 수정하였다.

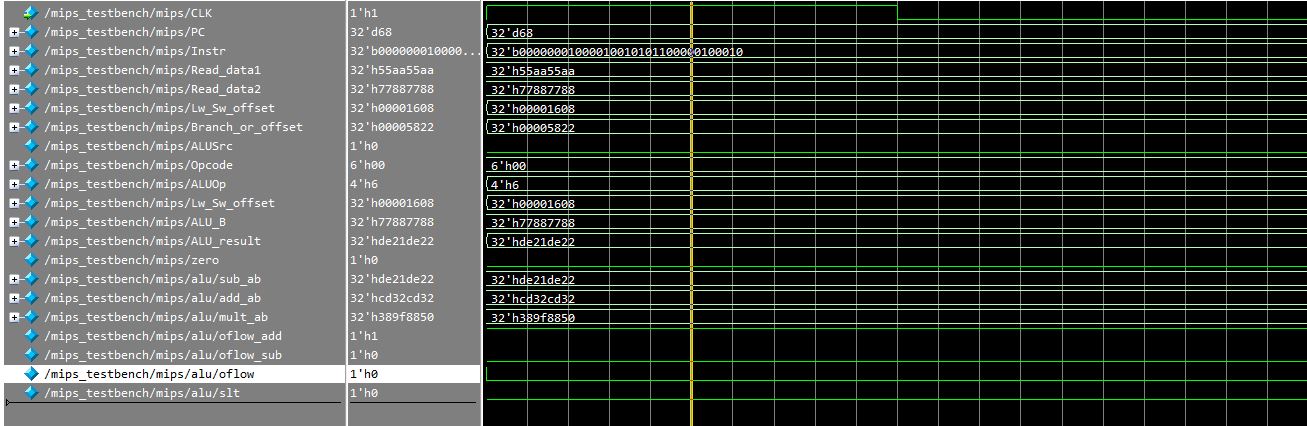


Figure code 수정 후 sub t3 t0 t1을 수행한 결과

시뮬레이션 실행 결과, overflow flag인 oflow\_sub와 oflow가 정상적으로 0으로 출력됨을 확인할 수 있다.

4. 0번째 명령의 수행 시간이 cycle time의 0.5배인 오류 정정

Figure Instruction\_Mem.v PC값이 음수일 때 동작 정의

initial

// if address is negative number, do nothing

assign data = (addr[6] == 0) ? mem[addr][31:0] : 32'b111111\_00000\_00000\_00000\_00000\_000000;

Figure MIPS.v PC 초기값 수정

initial

begin

    PC = -32'd4;

end

첫 번째 rising edge가 올 때 동작을 수행하도록 PC의 초기값을 -4로 수정하고, 초기 상태에서는 아무 동작도 수행하지 않도록 하기 위해 PC값이 음수일 때 Instruction을 수정하였다. 해당 Instruction은 opcode가 111111이므로, control signal은 default값이 생성되어 레지스터의 쓰기 동작을 수행하지 않는다.

![스크린샷이(가) 표시된 사진

자동 생성된 설명](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAeAB4AAD/4RDsRXhpZgAATU0AKgAAAAgABAE7AAIAAAALAAAISodpAAQAAAABAAAIVpydAAEAAAAWAAAQzuocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFdvb2ppbiBMZWUAAAAFkAMAAgAAABQAABCkkAQAAgAAABQAABC4kpEAAgAAAAMyOAAAkpIAAgAAAAMyOAAA6hwABwAACAwAAAiYAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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Figure PC 초기값 수정 후 simulation 결과

시뮬레이션 실행 결과, 0번 명령도 다른 명령과 동일하게 100ns의 수행 시간을 가지는 것을 확인할 수 있다.

**IV. 파이프라이닝 설계 추가 및 검증**

1. Pipeline stage 구분 및 clock speed 향상

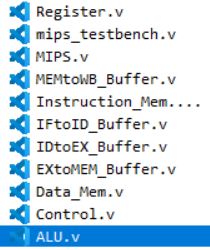


Figure 전체 파일 목록

Figure MIPS.v IFtoID Buffer 사용 code

// Pipeline stage buffer

    // pc+4, instruction

    IFtoID\_Buffer IFtoID(CLK, stall\_s1, Next\_PC\_s1, Instr\_s1, Next\_PC\_s2, Instr\_s2);

Figure Pipeline stage buffer : IF to ID Buffer code

module IFtoID\_Buffer(

  input CLK, stall,

  input wire[31:0] in\_Next\_PC, in\_Instr,

  output reg[31:0] out\_Next\_PC, out\_Instr );

always @(posedge CLK)

begin

  if(stall == 1'b1) begin

    out\_Next\_PC <= out\_Next\_PC;

    out\_Instr <= out\_Instr;

  end else begin

    out\_Next\_PC <= in\_Next\_PC;

    out\_Instr <= in\_Instr;

    end

end

endmodule

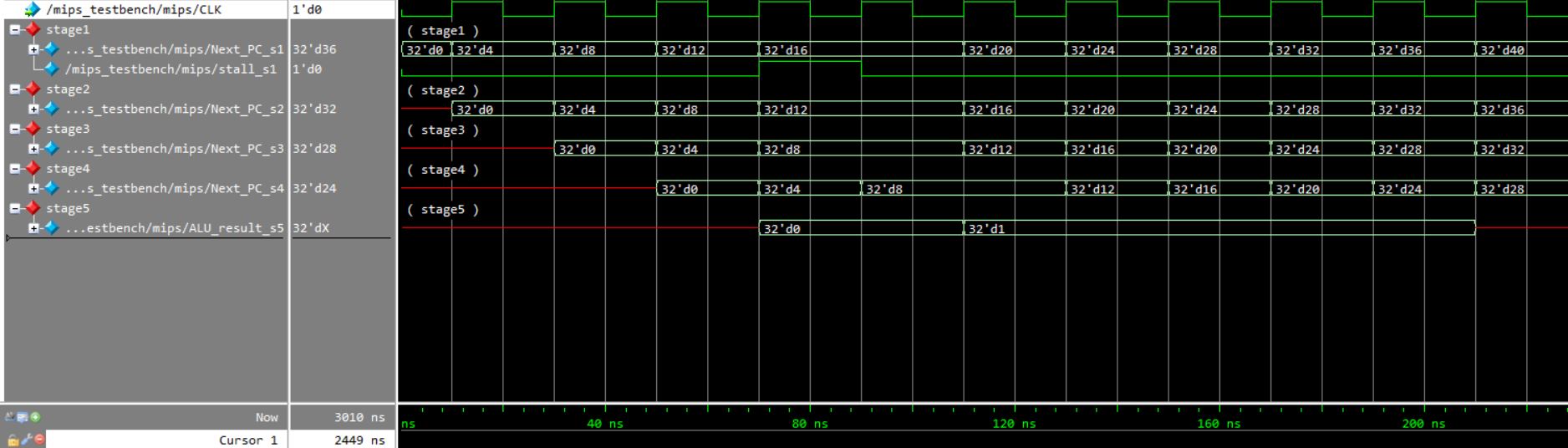


Figure 스테이지별 Next\_PC값으로 간략화한 Pipelined MIPS simulation

stage별로 레지스터와 와이어 값을 따로 관리하고, stage 사이에 Pipeline stage buffer를 새로 추가하여 파이프라인 구조를 구현하였다. Pipeline stage buffer는 스테이지별로 이전 스테이지의 입력을 받아 다음 스테이지의 레지스터로 출력하는 모듈을 생성하여 구현하였다. 이들의 파일명은 IFtoID\_Buffer.v, IDtoEX\_Buffer.v, EXtoMEM\_Buffer.v, MEMtoWB\_Buffer.v이다. 수행 결과 같은 시간에 여러 개의 Next\_PC값을 가지는 것을 통하여 같은 시간에 5개의 명령이 동시에 수행되는 것을 확인할 수 있다.

Figure mips\_testbench.v clock cycle time code

`timescale 1ns/1ns

…

always

begin

    #10 CLK = ~CLK;

end

endmodule

또한, single cycle MIPS의 clock cycle time이 100ns였으므로, pipelined MIPS의 clock cycle time은 이의 1/5인 20ns로 조정하였다. 모든 stage의 수행 시간이 같다고 가정하였다. 실제 회로를 구성할 때는 수행 시간이 가장 긴 stage를 기준으로 cycle time을 수정하여야 한다. 이는 Verilog code 상에서는 clock이 바뀌는 단위 시간을 1/5로 낮추어 구현하였다.

2. Data hazard 해결 - Stall 구현

Figure IDtoEX\_Buffer.v stall 시 nop 전송 코드

always @(posedge CLK)

begin

  // 스톨이면 다음 스테이지로 nop 전송

  // 32'b000000\_00000\_00000\_00000\_00000\_100000

if (stall == 1'b1) begin

…

    out\_MemRead <= 1'b0;

    out\_MemToReg <= 1'b0;

    out\_MemWrite <= 1'b0;

    out\_RegWrite <= 1'b0;

    end

…

Figure stall 시 PC control

always @(posedge CLK)

    begin

        if (stall\_s1 == 1'b1)

            PC\_s1 <= PC\_s1;    // No change. delay.

        else if (PCSrc\_s4 == 1'b1)

            PC\_s1 <= Branch\_addr\_s4;

        else if (JToPC\_s4 == 1'b1)

            PC\_s1 <= Jump\_addr\_s4;

        else

            PC\_s1 <= Next\_PC\_s1;

    end

Figure MIPS.v stall control code

// \*\*\* Stall Control \*\*\*

    always @(\*)

    begin

    // load 명령이고 앞선 명령의 쓰기 레지스터와 뒤 명령의 읽기 레지스터가 같으면 stall

        if(MemRead\_s3 == 1'b1 && (Reg\_Write\_addr\_s3 == Read1\_s2 || Reg\_Write\_addr\_s3 == Read2\_s2)) begin

            stall\_s1 = 1'b1;

        end else

            stall\_s1 = 1'b0;

    end

MIPS Processor에 Pipeline을 적용하면 WAR 상황에서 data hazard가 발생한다. 이는 forwarding으로 해결 가능하나 lw명령은 data가 Memory access stage 이후에 생성되므로 명령을 delay하기 위해 stall이 필요하다. Stall은 stage 3에서 stage 3와 stage 2에서 실행중인 명령의 control signal과 사용하는 address를 비교하여 stall bit를 1로 만들어 생성한다. Stall bit로 stall 여부를 판정한다. stall이 확인되면 IF stage에서는 PC값을 이전 사이클과 동일하게 생성하여 이전 명령을 지연시키는 효과를 낸다. ID stage에서는 buffer가 stage1의 값을 받지 않고 이전 사이클과 동일한 값을 출력하여 이전 사이클을 bubble화하는 효과를 낸다. EX stage에서는 stage2에서 입력받은 값을 출력하지 않고 control signal을 수정하여, 이전 사이클의 명령을 bubble처럼 아무 것도 실행하지 않게 만든다.

![텍스트이(가) 표시된 사진

자동 생성된 설명](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAeAB4AAD/4RDsRXhpZgAATU0AKgAAAAgABAE7AAIAAAALAAAISodpAAQAAAABAAAIVpydAAEAAAAWAAAQzuocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFdvb2ppbiBMZWUAAAAFkAMAAgAAABQAABCkkAQAAgAAABQAABC4kpEAAgAAAAM2OQAAkpIAAgAAAAM2OQAA6hwABwAACAwAAAiYAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAMjAxOToxMjowMSAwMDoxODoyNAAyMDE5OjEyOjAxIDAwOjE4OjI0AAAAVwBvAG8AagBpAG4AIABMAGUAZQAAAP/hCx1odHRwOi8vbnMuYWRvYmUuY29tL3hhcC8xLjAvADw/eHBhY2tldCBiZWdpbj0n77u/JyBpZD0nVzVNME1wQ2VoaUh6cmVTek5UY3prYzlkJz8+DQo8eDp4bXBtZXRhIHhtbG5zOng9ImFkb2JlOm5zOm1ldGEvIj48cmRmOlJERiB4bWxuczpyZGY9Imh0dHA6Ly93d3cudzMub3JnLzE5OTkvMDIvMjItcmRmLXN5bnRheC1ucyMiPjxyZGY6RGVzY3JpcHRpb24gcmRmOmFib3V0PSJ1dWlkOmZhZjViZGQ1LWJhM2QtMTFkYS1hZDMxLWQzM2Q3NTE4MmYxYiIgeG1sbnM6ZGM9Imh0dHA6Ly9wdXJsLm9yZy9kYy9lbGVtZW50cy8xLjEvIi8+PHJkZjpEZXNjcmlwdGlvbiByZGY6YWJvdXQ9InV1aWQ6ZmFmNWJkZDUtYmEzZC0xMWRhLWFkMzEtZDMzZDc1MTgyZjFiIiB4bWxuczp4bXA9Imh0dHA6Ly9ucy5hZG9iZS5jb20veGFwLzEuMC8iPjx4bXA6Q3JlYXRlRGF0ZT4yMDE5LTEyLTAxVDAwOjE4OjI0LjY4OTwveG1wOkNyZWF0ZURhdGU+PC9yZGY6RGVzY3JpcHRpb24+PHJkZjpEZXNjcmlwdGlvbiByZGY6YWJvdXQ9InV1aWQ6ZmFmNWJkZDUtYmEzZC0xMWRhLWFkMzEtZDMzZDc1MTgyZjFiIiB4bWxuczpkYz0iaHR0cDovL3B1cmwub3JnL2RjL2VsZW1lbnRzLzEuMS8iPjxkYzpjcmVhdG9yPjxyZGY6U2VxIHhtbG5zOnJkZj0iaHR0cDovL3d3dy53My5vcmcvMTk5OS8wMi8yMi1yZGYtc3ludGF4LW5zIyI+PHJkZjpsaT5Xb29qaW4gTGVlPC9yZGY6bGk+PC9yZGY6U2VxPg0KCQkJPC9kYzpjcmVhdG9yPjwvcmRmOkRlc2NyaXB0aW9uPjwvcmRmOlJERj48L3g6eG1wbWV0YT4NCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgPD94cGFja2V0IGVuZD0ndyc/Pv/bAEMABwUFBgUEBwYFBggHBwgKEQsKCQkKFQ8QDBEYFRoZGBUYFxseJyEbHSUdFxgiLiIlKCkrLCsaIC8zLyoyJyorKv/bAEMBBwgICgkKFAsLFCocGBwqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKv/AABEIAiQEcgMBIgACEQEDEQH/xAAfAAABBQEBAQEBAQAAAAAAAAAAAQIDBAUGBwgJCgv/xAC1EAACAQMDAgQDBQUEBAAAAX0BAgMABBEFEiExQQYTUWEHInEUMoGRoQgjQrHBFVLR8CQzYnKCCQoWFxgZGiUmJygpKjQ1Njc4OTpDREVGR0hJSlNUV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Imj/hT/AId/576h/wB/U/8AiaKKAD/hT/h3/nvqH/f1P/iaP+FP+Hf+e+of9/U/+JoooAP+FP8Ah3/nvqH/AH9T/wCJo/4U/wCHf+e+of8Af1P/AImiigA/4U/4d/576h/39T/4mj/hT/h3/nvqH/f1P/iaKKAD/hT/AId/576h/wB/U/8AiaP+FP8Ah3/nvqH/AH9T/wCJoooAP+FP+Hf+e+of9/U/+Jo/4U/4d/576h/39T/4miigA/4U/wCHf+e+of8Af1P/AImj/hT/AId/576h/wB/U/8AiaKKAD/hT/h3/nvqH/f1P/iaP+FP+Hf+e+of9/U/+JoooAP+FP8Ah3/nvqH/AH9T/wCJo/4U/wCHf+e+of8Af1P/AImiigA/4U/4d/576h/39T/4mj/hT/h3/nvqH/f1P/iaKKAD/hT/AId/576h/wB/U/8AiaP+FP8Ah3/nvqH/AH9T/wCJoooAP+FP+Hf+e+of9/U/+Jo/4U/4d/576h/39T/4miigA/4U/wCHf+e+of8Af1P/AImj/hT/AId/576h/wB/U/8AiaKKAD/hT/h3/nvqH/f1P/iaP+FP+Hf+e+of9/U/+JoooAP+FP8Ah3/nvqH/AH9T/wCJo/4U/wCHf+e+of8Af1P/AImiigA/4U/4d/576h/39T/4mj/hT/h3/nvqH/f1P/iaKKAD/hT/AId/576h/wB/U/8AiaP+FP8Ah3/nvqH/AH9T/wCJoooAP+FP+Hf+e+of9/U/+Jo/4U/4d/576h/39T/4miigA/4U/wCHf+e+of8Af1P/AImj/hT/AId/576h/wB/U/8AiaKKAD/hT/h3/nvqH/f1P/iaP+FP+Hf+e+of9/U/+JoooAP+FP8Ah3/nvqH/AH9T/wCJo/4U/wCHf+e+of8Af1P/AImiigDqNO8CeHI9DtLC701L+O03+U90zFlDNuIypA6+1Tf8ID4Q/wChcsv++pP/AIqiivjcTUnGvNRbSu/zPQgk4q4f8ID4Q/6Fyy/76k/+Ko/4QHwh/wBC5Zf99Sf/ABVFFYe2q/zP7y+WPYP+EB8If9C5Zf8AfUn/AMVR/wAID4Q/6Fyy/wC+pP8A4qiij21X+Z/eHLHsUte+H/h/UtKtdPitWsLaCZ5lS0fG52Cgk7t3ZRXPf8Kf8O/899Q/7+p/8TRRX1OW64aL9fzOGt8Yf8Kf8O/899Q/7+p/8TR/wp/w7/z31D/v6n/xNFFegZB/wp/w7/z31D/v6n/xNH/Cn/Dv/PfUP+/qf/E0UUAH/Cn/AA7/AM99Q/7+p/8AE0f8Kf8ADv8Az31D/v6n/wATRRQAf8Kf8O/899Q/7+p/8TR/wp/w7/z31D/v6n/xNFFAB/wp/wAO/wDPfUP+/qf/ABNH/Cn/AA7/AM99Q/7+p/8AE0UUAH/Cn/Dv/PfUP+/qf/E0f8Kf8O/899Q/7+p/8TRRQAf8Kf8ADv8Az31D/v6n/wATR/wp/wAO/wDPfUP+/qf/ABNFFAB/wp/w7/z31D/v6n/xNH/Cn/Dv/PfUP+/qf/E0UUAH/Cn/AA7/AM99Q/7+p/8AE0f8Kf8ADv8Az31D/v6n/wATRRQAf8Kf8O/899Q/7+p/8TR/wp/w7/z31D/v6n/xNFFAB/wp/wAO/wDPfUP+/qf/ABNH/Cn/AA7/AM99Q/7+p/8AE0UUAH/Cn/Dv/PfUP+/qf/E0f8Kf8O/899Q/7+p/8TRRQAf8Kf8ADv8Az31D/v6n/wATR/wp/wAO/wDPfUP+/qf/ABNFFAB/wp/w7/z31D/v6n/xNH/Cn/Dv/PfUP+/qf/E0UUAH/Cn/AA7/AM99Q/7+p/8AE0f8Kf8ADv8Az31D/v6n/wATRRQAf8Kf8O/899Q/7+p/8TR/wp/w7/z31D/v6n/xNFFAB/wp/wAO/wDPfUP+/qf/ABNH/Cn/AA7/AM99Q/7+p/8AE0UUAH/Cn/Dv/PfUP+/qf/E0f8Kf8O/899Q/7+p/8TRRQAf8Kf8ADv8Az31D/v6n/wATR/wp/wAO/wDPfUP+/qf/ABNFFAB/wp/w7/z31D/v6n/xNH/Cn/Dv/PfUP+/qf/E0UUAH/Cn/AA7/AM99Q/7+p/8AE0UUUAf/2Q==)

Figure 18 Stall simulation

위 사진은 2번 명령이 stage 2에서 실행 중일 때 stall을 탐지한 simulation이다. 1번 명령 lw s1 4($zero)와 add s0 s0 s1이 같은 레지스터에서 WAR을 하므로 stall을 탐지하여 stall\_s1 bit가 1이 되었다. Stall bit이 1이 되자, PC값은 증가하지 않고, stage 2와 stage 3는 레지스터 값이 변하지 않고, stage 4는 데이터가 nop 명령으로 변경된 것을 확인할 수 있다.

3. data hazard 해결 - forwarding 구현

Figure MIPS.v forward가 일어난 stage에 따라 forward된 값으로 변경하는 code

// \*\*\* forwarding control \*\*\*

    // get forwarded data

    always @(\*)

    begin

        case(forwarded\_data1\_source\_s2)

            2'd1: data1\_s3 = ALU\_result\_s4;

            2'd2: data1\_s3 = Reg\_Write\_data\_s5;

            default: data1\_s3 = Read\_data1\_s3;

        endcase

        case(forwarded\_data2\_source\_s2)

            2'd1: data2\_s3 = ALU\_result\_s4;

            2'd2: data2\_s3 = Reg\_Write\_data\_s5;

            default: data2\_s3 = Read\_data2\_s3;

        endcase

    end

Figure MIPS.v forwarding 조건 확인 후 forward되는 stage를 표현하는 code

// \*\*\* forwarding control \*\*\*

    // pass forwarding data

    always @(\*)

    begin

    // 메모리에서 읽은 값을 이후 읽는 레지스터와 같은 레지스터에 쓰면 포워딩

    // 2: from s5

    // forward to stage 3

        if ((RegWrite\_s5 == 1'b1) && (MemToReg\_s5 == 1'b1) && (Reg\_Write\_addr\_s5 == Read1\_s3))

            forwarded\_data1\_source\_s3 = 2'd2;

        else if ((RegWrite\_s4 == 1'b1) && (MemToReg\_s4 == 1'b0) && (Reg\_Write\_addr\_s4 == Read1\_s3))

            forwarded\_data1\_source\_s3 <= 2'b1;

        else

            forwarded\_data1\_source\_s3 <= 2'b0;

…

// forward data 2

…

        // forward to stage 2

        …

    end

Forwarding은 data hazard 해결을 위해 사용한다. 레지스터를 변경하는 명령을 pipelining할 때 해당 명령어와 다음에 수행할 명령어가 WAR 관계에 있을 때 forwarding이 발생한다. Forward는 stage 3과 4에서 레지스터에서 읽은 데이터 대신 stage 4의 alu result 또는 stage 5에서 메모리에서 읽은 데이터를 사용하여 구현한다.

![텍스트, 점수판이(가) 표시된 사진

자동 생성된 설명](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAeAB4AAD/4RDsRXhpZgAATU0AKgAAAAgABAE7AAIAAAALAAAISodpAAQAAAABAAAIVpydAAEAAAAWAAAQzuocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFdvb2ppbiBMZWUAAAAFkAMAAgAAABQAABCkkAQAAgAAABQAABC4kpEAAgAAAAMwMgAAkpIAAgAAAAMwMgAA6hwABwAACAwAAAiYAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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Figure forwarding simulation

위 사진은 2번 명령이 stage 3에서 수행 될 때 forwarding이 일어난 simulation이다. Stage 3에서 이전 명령의 write back이 수행되지 않았기 때문에 read\_data\_2는 알 수 없는 값이다. 그러나 stage 5에서 읽는 레지스터와 같은 레지스터에서 write를 하므로 이를 탐지하여 forwarded\_data2\_source는 2로 설정이 되고, forwarding이 일어난다. 따라서 최종 data2는 s5의 write data값인 1이 선택되는 것을 확인할 수 있다.