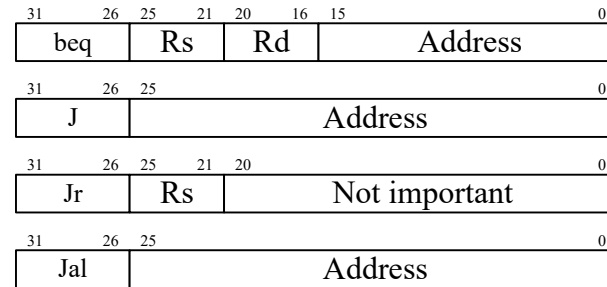
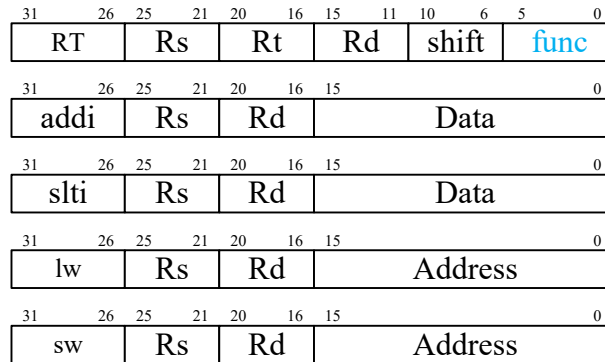
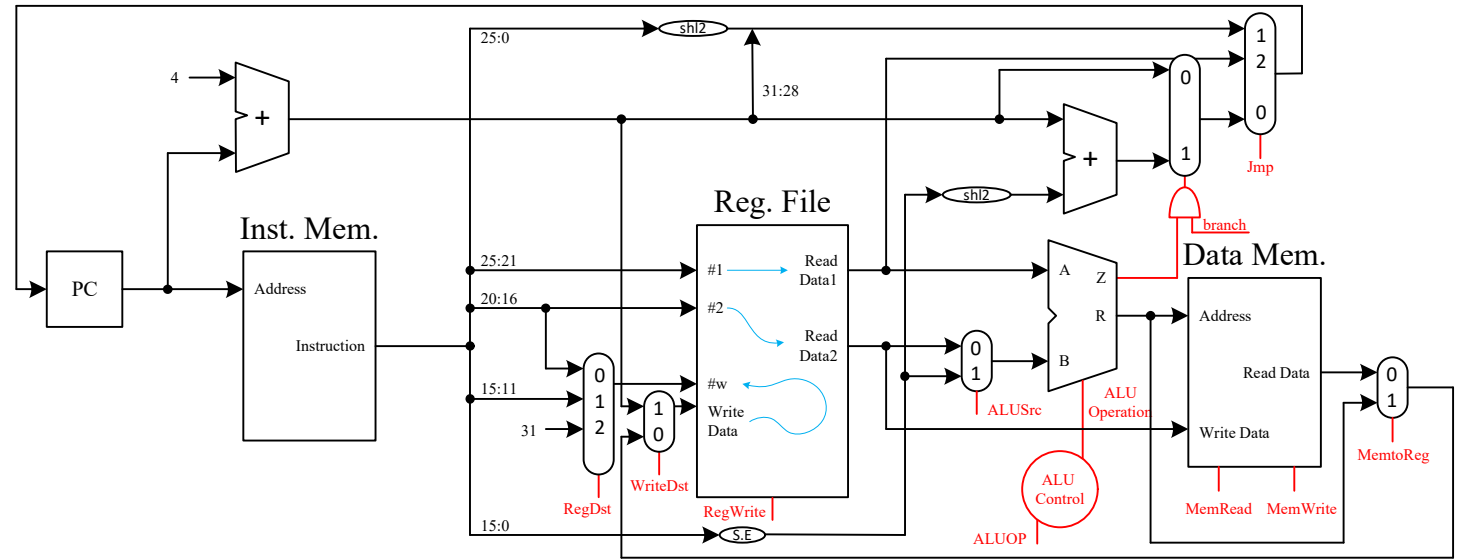
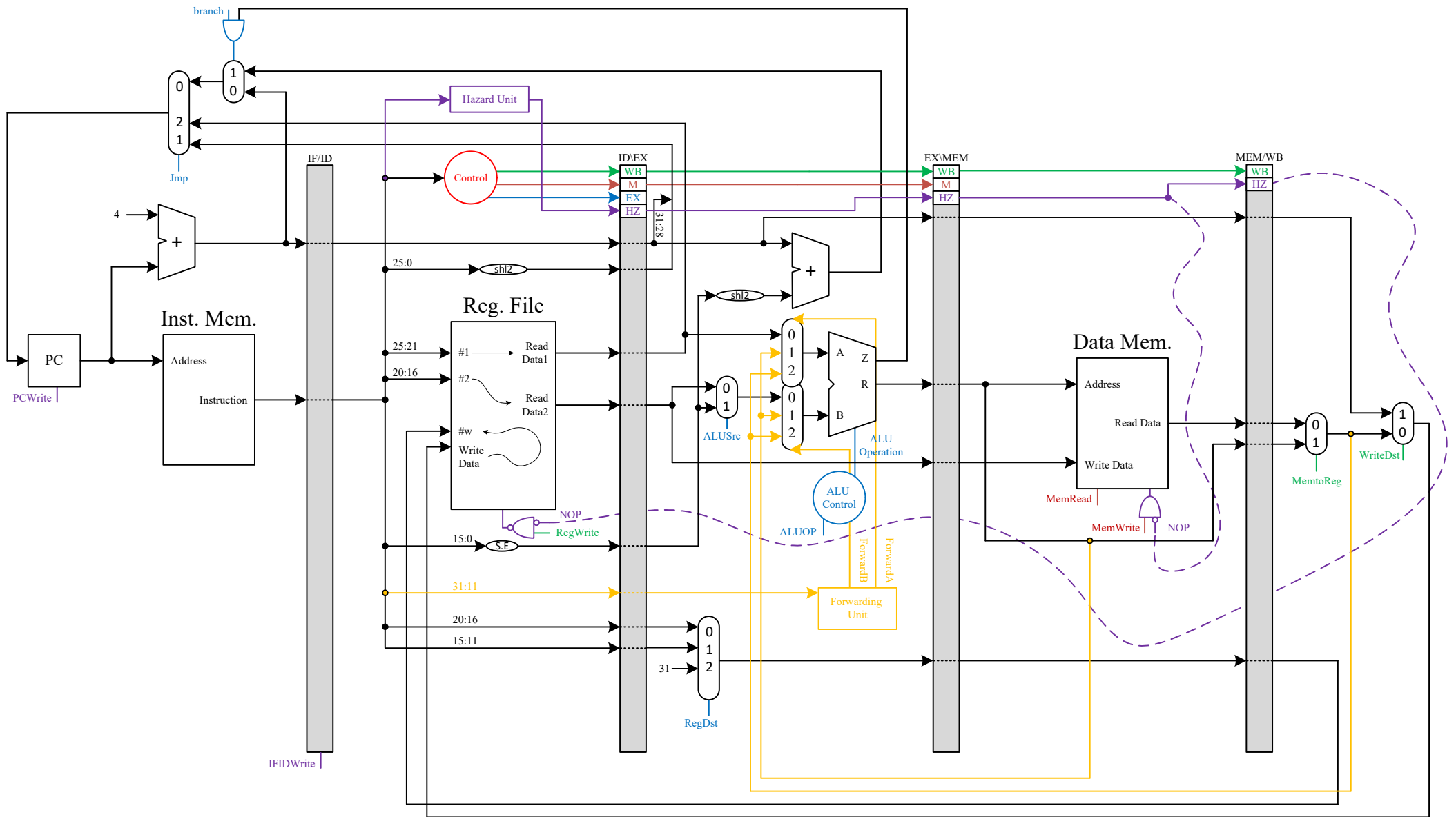


ALUOP	func	ALUOperation
00	Not Imp.	010
01	Not Imp.	011
10	and	000
10	or	001
10	add	010
10	sub	011
10	slt	111
11	Not Imp.	111



OPC		RegDst	WriteDst	RegWrite	ALUSrc	ALUOP	Branch	Jmp	MemRead	MemWrite	MemtoReg
000000	RT	1	0	1	0	10	0	0	0	0	1
000001	addi	0	0	1	1	00	0	0	0	0	1
000010	slti	0	0	1	1	11	0	0	0	0	1
000011	lw	0	0	1	1	00	0	0	1	0	0
000100	sw	x	x	0	1	00	0	0	0	1	x
000101	beq	x	x	0	0	01	1	0	0	0	x
000110	J	x	x	0	x	x	x	1	0	0	x
000111	Jr	x	x	0	x	x	x	2	0	0	x
001000	Jal	2	1	1	x	x	x	1	0	0	x



ALU

ALUOP	func	ALUOperation
00	Not Imp.	010
01	Not Imp.	011
10	and	000
10	or	001
10	add	010
10	sub	011
10	slt	111
11	Not Imp.	111

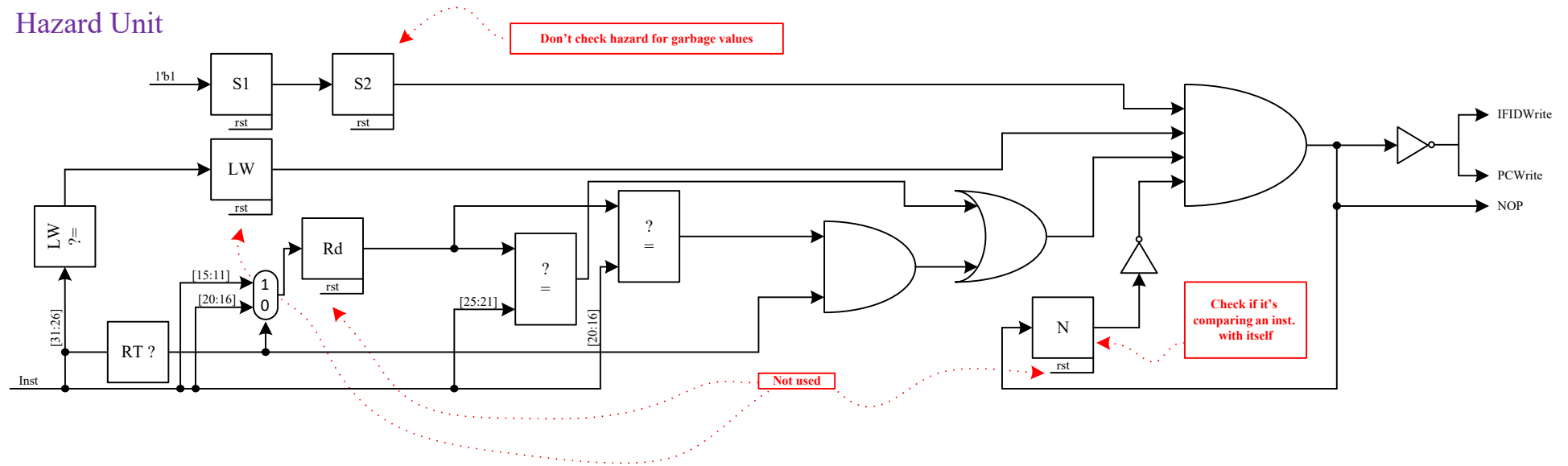
ISA

31	26	25	21	20	16	15	11	10	6	5	0
RT	Rs	Rt	Rd	shift	func						
31	26	25	21	20	16	15	0				
addi	Rs	Rd	Data								
31	26	25	21	20	16	15	0				
slti	Rs	Rd	Data								
31	26	25	21	20	16	15	0				
lw	Rs	Rd	Address								
31	26	25	21	20	16	15	0				
sw	Rs	Rd	Address								
31	26	25	21	20	16	15	0				
beq	Rs	Rd	Address								
31	26	25	0								
J	Address										
31	26	25	21	20	0						
Jr	Rs	Not important									
31	26	25	0								
Jal	Address										

Control Unit

	RT	addi	slti	lw	sw	beq	J	Jr	Jal
EX	RegDst=01 ALUSrc =0 ALUOP =10	RegDst=00 ALUSrc =1 ALUOP =00	RegDst=00 ALUSrc =1 ALUOP =11	RegDst=00 ALUSrc =1 ALUOP =00	RegDst=xx ALUSrc =1 ALUOP =00	RegDst=xx ALUSrc =0 ALUOP =01	RegDst=xx ALUSrc =x ALUOP =xx	RegDst=xx ALUSrc =x ALUOP =xx	RegDst=10 ALUSrc =x ALUOP =xx
MEM	Branch =0 Jmp =00 MemRead =0 MemWrite=0	Branch =0 Jmp =00 MemRead =0 MemWrite=0	Branch =0 Jmp =00 MemRead =0 MemWrite=0	Branch =0 Jmp =00 MemRead =1 MemWrite=0	Branch =0 Jmp =00 MemRead =0 MemWrite=1	Branch =1 Jmp =00 MemRead =0 MemWrite=0	Branch =x Jmp =01 MemRead =0 MemWrite=0	Branch =x Jmp =10 MemRead =0 MemWrite=0	Branch =x Jmp =01 MemRead =0 MemWrite=0
WB	WriteDst=0 RegWrite=1 MemtoReg=1	WriteDst=0 RegWrite=1 MemtoReg=1	WriteDst=0 RegWrite=1 MemtoReg=1	WriteDst=0 RegWrite=1 MemtoReg=0	WriteDst=x RegWrite=0 MemtoReg=x	WriteDst=x RegWrite=0 MemtoReg=x	WriteDst=x RegWrite=0 MemtoReg=x	WriteDst=x RegWrite=0 MemtoReg=x	WriteDst=1 RegWrite=1 MemtoReg=x

Hazard Unit



Forwarding Unit

