Nama	Instruction Word				Action	Fatab		Doods	Cycoute	
Name	Opcode	Dest Src		Tar	Action	Fetch		Decode	Execute	
ADD	0000	Rd	Rs	Rt	Rd = Rs + Rt					
SUB	0001	Rd	Rs	Rt	Rd = Rs - Rt			Rd sel = ALU		
AND	0010	Rd	Rs	Rt	Rd = Rs & Rt			Rs_read = 1 Rt_read = 1		
OR	0011	Rd	Rs	Rt	Rd = Rs Rt					
XOR	0100	Rd	Rs	Rt	Rd = Rs ^ Rt					
NOT	0101	Rd	Rs		Rd = ~Rs				Rd_write = 1	
SLA	0110	Rd	Rs		Rd = Rs << 1			Rd_sel = ALU Rs_read = 1		
SRA	0111	Rd	Rs		Rd = Rs >> 1	Mem_sel = PC Mem_read = 1		110_1000	-	
LI	1000	Rd	lmm		Rd = Imm			Rd_sel = IMM		
LW	1001	Rd	Dir		Rd = Mem[Dir]			Mem_sel = Dir Rd_sel = MEM		
SW	1010	Rd	Dir		Mem[Dir] = Rd			Mem_sel = Dir Rs_addr_sel = Rd Rs_read = 1	Mem_write = 1	
BIZ	1011	Rd	Offset		PC = PC + 1 + Rs==0 ? Offset : 0			Rs_addr_sel = Rd Rs_read = 1	PC_load = Rs_zero	
BNZ	1100	Rd	Offset		PC = PC + 1 + Rs==0 ? 0 : Offset				PC_load = ~Rs_zero	
JAL	1101	Rd	Offset		Rd = PC + 1, PC = PC + 1 + Offset			Rd_sel = PC	Rd_write = 1	PC_load = 1
JMP	1110		Offset		PC = PC + 1 + Offset			PC_load = 1	PC_load = 1	
JR	1111		Rs		PC = Rs			Rs_read = 1 Offset_sel = load	PC_load = 1	