Table 5.1 Instruction decode

R-format			I- and J-format	
Inst.	op[5:0]	func[5:0]	Inst.	op[5:0]
i add	000000	100000	i addi	001000
i_sub	000000	100010	i_andi	001100
i_and	000000	100100	i_ori	001101
i_or	000000	100101	i_xori	001110
i_xor	000000	100110	i_lw	100011
i_sll	000000	000000	i_sw	101011
i_srl	000000	000010	i_beq	000100
i_sra	000000	000011	i_bne	000101
i_jr	000000	001000	i_lui	001111
			i_j	000010
			i_jal	000011

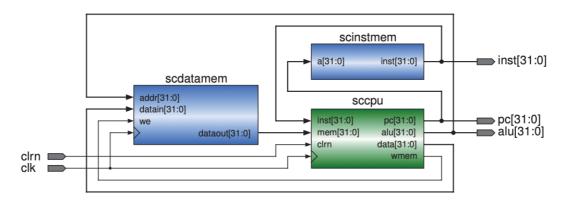


Figure 5.20 Block diagram of single-cycle computer

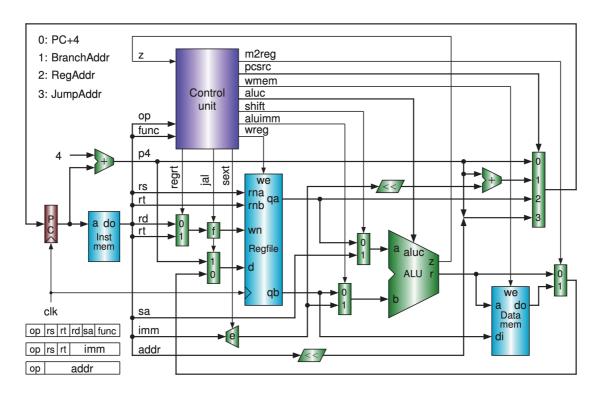


Figure 5.19 Block diagram of a single-cycle CPU