

- alu_sub_en = control_signals[6]; alu_status_out_en = control_signals[7]; alu_bus_out_en = control_signals[8];
- ir_rd_en = control_signals[12]; ir_wr_en = control_signals[13];
- mar_mux_sel = control_signals[14:15]; mar_wr_en = control_signals[16];
- mem_rd_en = control_signals[17]; mem_wr_en = control_signals[18]; mem_addr_valid = 1;