a23_execute

Inputs (left):
- reset_b
- i_copro_write_data_wen
- i_status_bits_firq_mask_wen
- i_status_bits_irq_mask_wen
- i_status_bits_mode_wen
- i_status_bits_flags_wen
- i_reg_bank_wen
- i_pc_wen
- i_base_address_wen
- i_write_data_wen
- i_firq_not_user_mode
- i_user_mode_regs_store_nxt
- i_user_mode_regs_load
- i_reg_write_sel
- i_status_bits_sel
- i_byte_enable_sel
- i_pc_sel
- i_address_sel
- i_interrupt_vector_sel
- i_multiply_function
- i_alu_function
- i_barrel_shift_function
- i_barrel_shift_data_sel
- i_barrel_shift_amount_sel
- i_rn_sel
- i_rds_sel
- i_rm_sel
- i_data_access_exec
- i_exclusive_exec
- i_condition
- i_shift_imm_zero
- i_imm_shift_amount
- i_imm32
- i_status_bits_firq_mask
- i_status_bits_irq_mask
- i_status_bits_mode
- i_fetch_stall
- i_copro_read_data
- i_read_data_alignment
- i_read_data
- i_clk

Outputs (right):
- o_multiply_done
- o_status_bits
- o_priviledged
- o_exclusive
- o_write_enable
- o_data_access
- o_byte_enable
- o_adex
- o_address_nxt
- o_address_valid
- o_address
- o_copro_write_data
- o_write_data
- jtag_pc