



Control Word

Loads:

1. load_regfile
2. load_pc
3. load_mar
4. load_mdr
5. load_data_out

Muxes:

1. regfilemux_sel
2. cmpmux_sel
3. pcmux_sel
4. alumux_sel
5. marmux_sel

Operations:

1. cmpop
2. aluop

Memory:

1. dmem_read
2. dmem_write
3. mem_byte_enable

Miscellaneous:

1. opcode
2. br_en

Data Word

PC:

1. pc
2. pc_plus4

Register Index:

1. rs1
2. rs2
3. rd

Outputs & Addresses:

1. rs1_out
2. rs2_out
3. alu_out
4. mdr_out
5. dmem_address

Immediates:

1. imm

Data:

1. data_mar
2. data_mdr
3. mem_data_out

