GROUP 3
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in_b
input_enable
b_select
3B
1026
B
1024
B , 1'b0
3B
2B
B
1027'b0
A[0]
A[0]
A[1]
in_m
input_enable
m_select
M
1024
3M
1026
M , 1'b0
3M
2M
M
1027'b0
M
2M
3M
1027'b0
C[0]
C[0]
C[0]
C[0]
C[1]
C[1]
M[1]
input_enable
in_a
a_mux
a_select
input_enable
A
1026
A[1023:2]
2'b0
B
M
b_mux
m_mux
add_select
add_select
while_select
zero_add
1
0
1027'b0
adder_input_a
adder_input_b
subtract
start
resetn
adder_result
2>>
shift_select
c_mux
c_out
C
1028
result
c[1023:0]