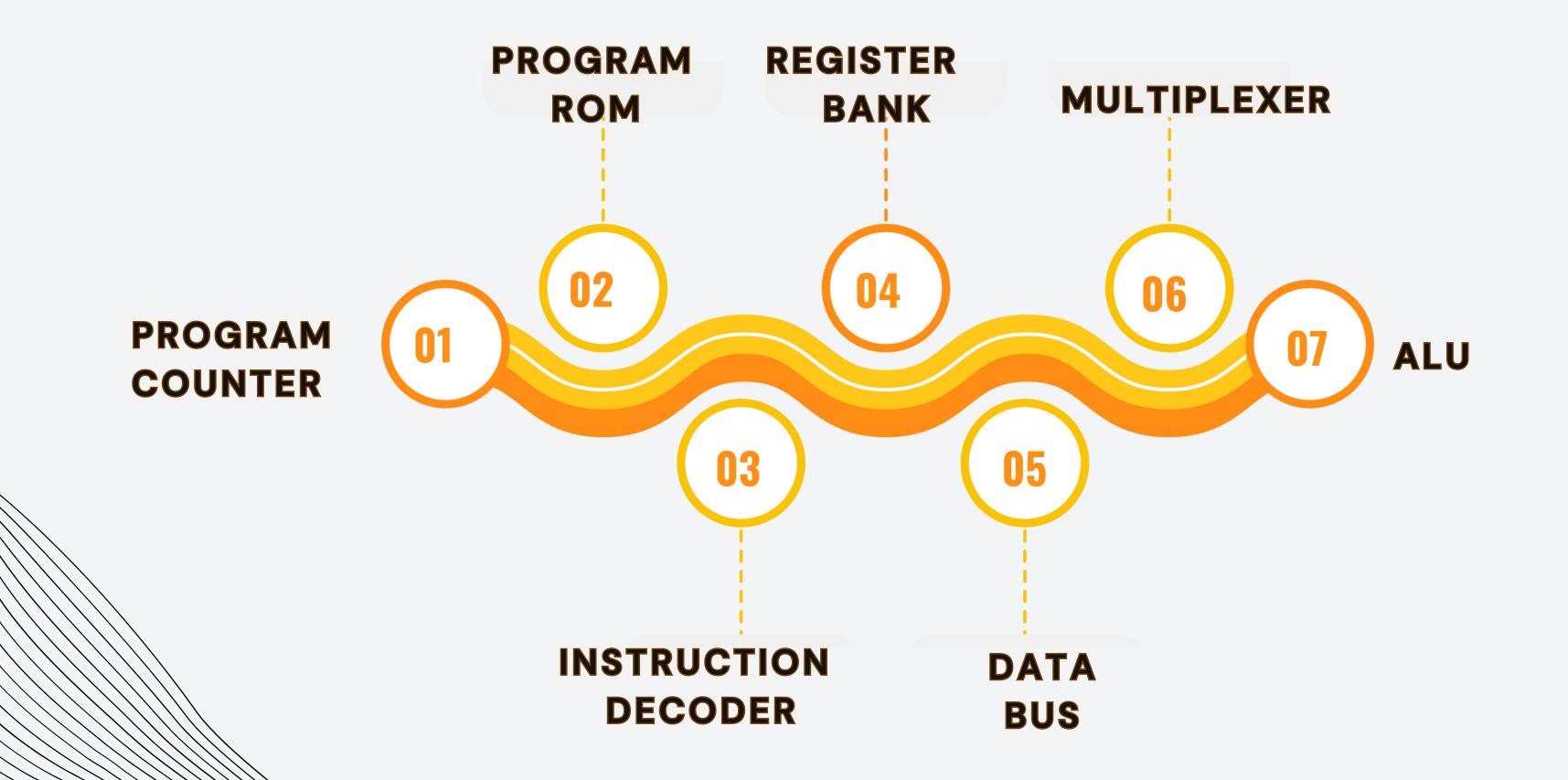


CONTENT



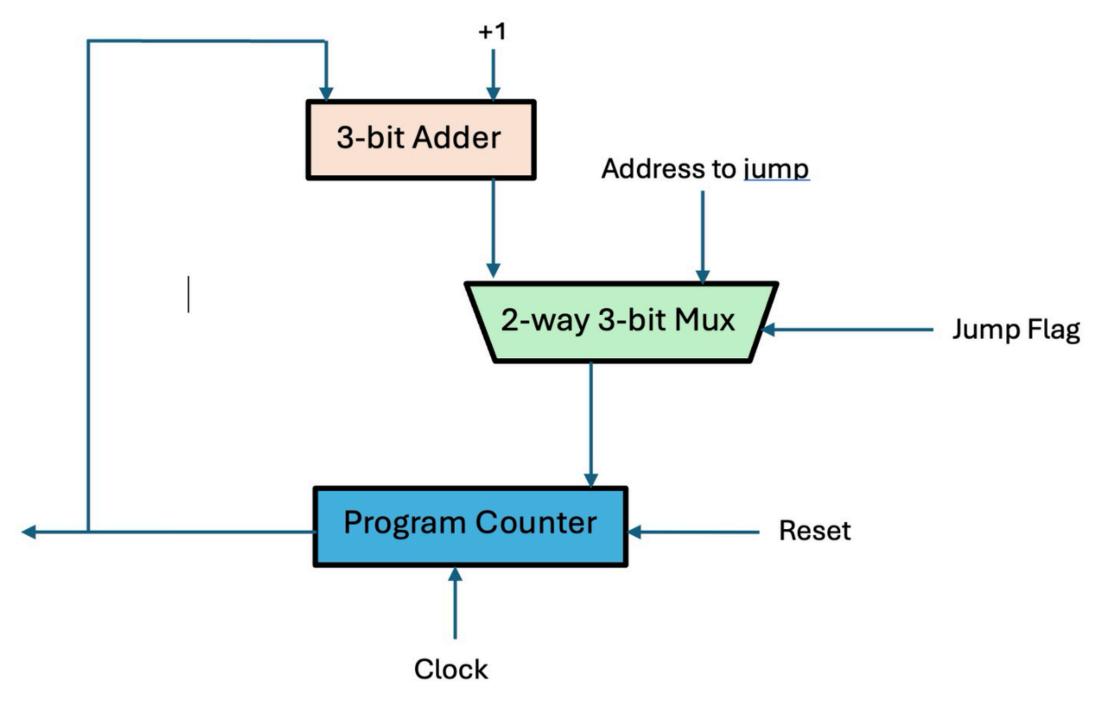
PROGRAM COUNTER

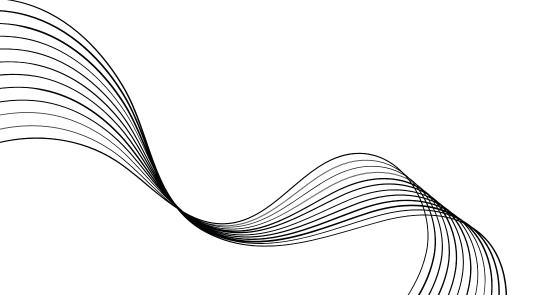
Points to the next Instruction

Memory

Select

Implemented by a Register

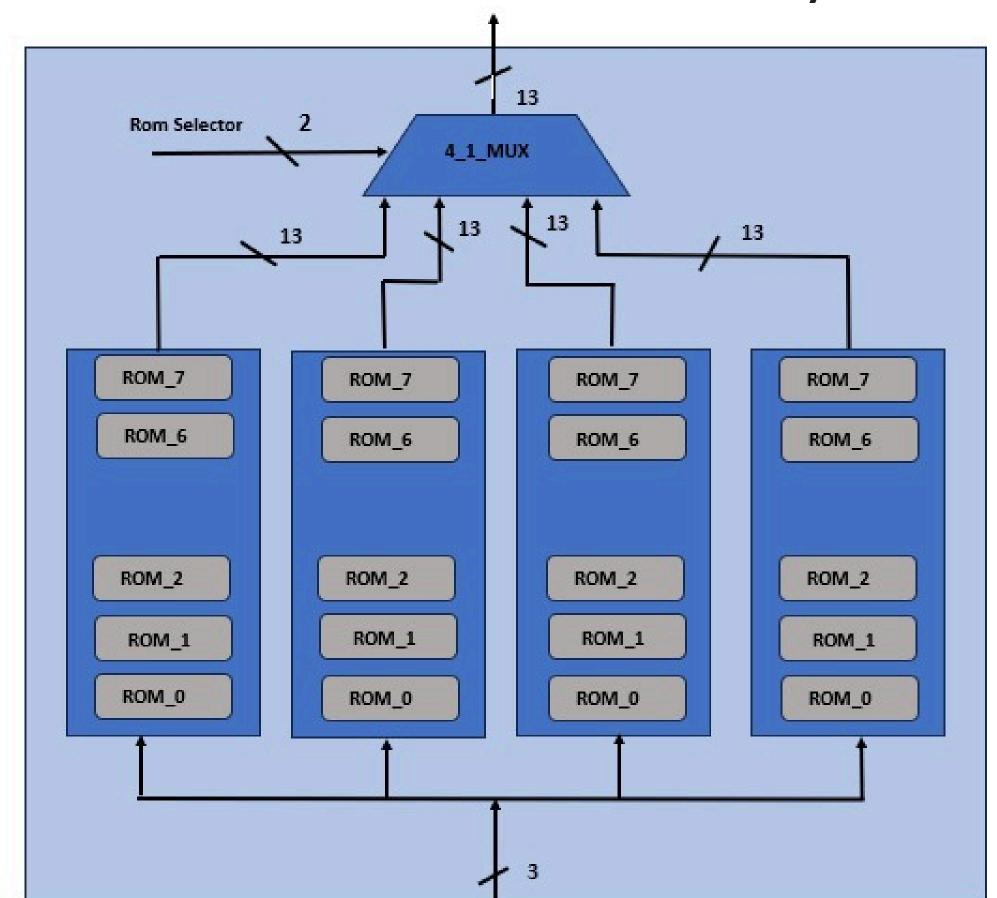




PROGRAM ROM

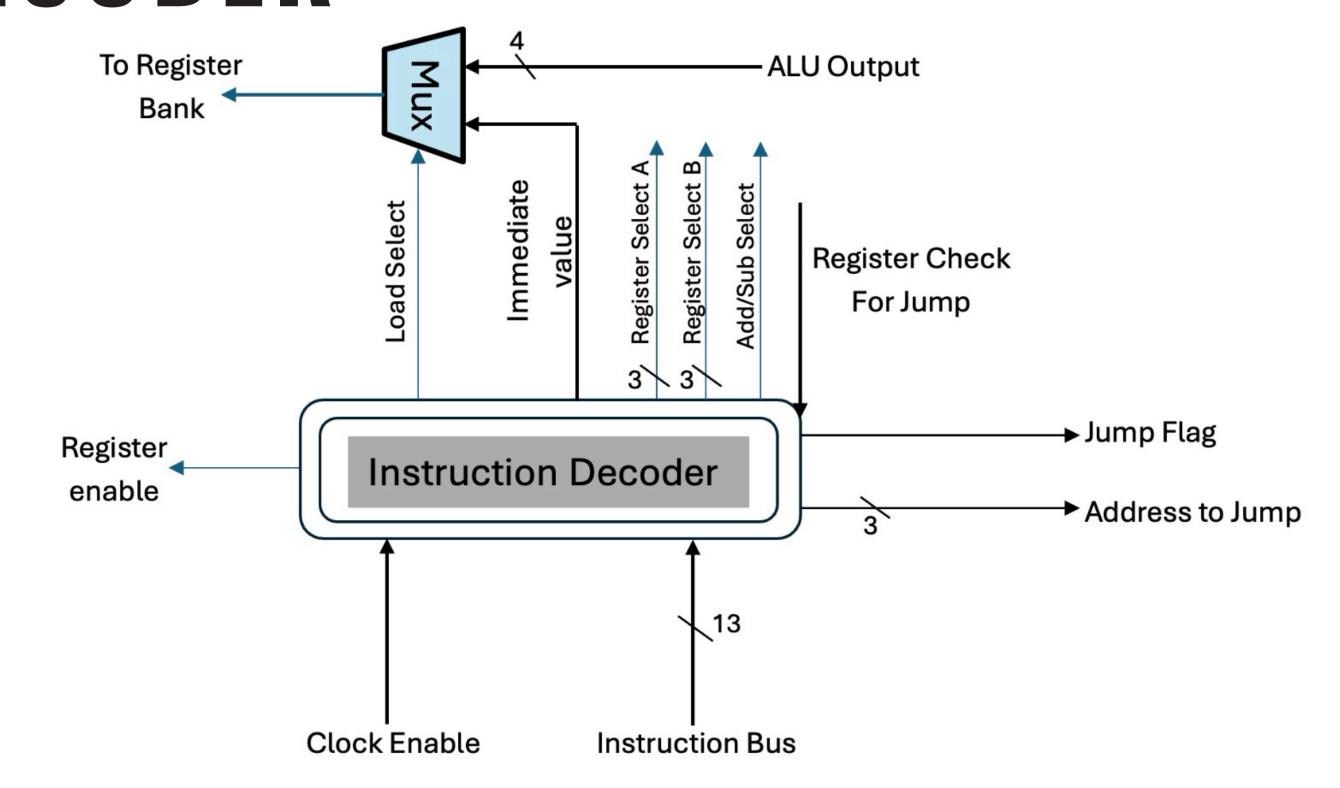
Multi Purpose Program Rom

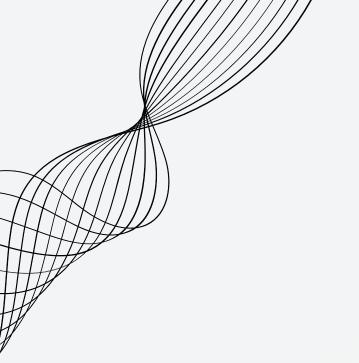
Imlemented by LUTs



INSTRUCTION DECODER

Implemented by a Register So it is Synchronised





EXTENDED INSTRUCTIONS

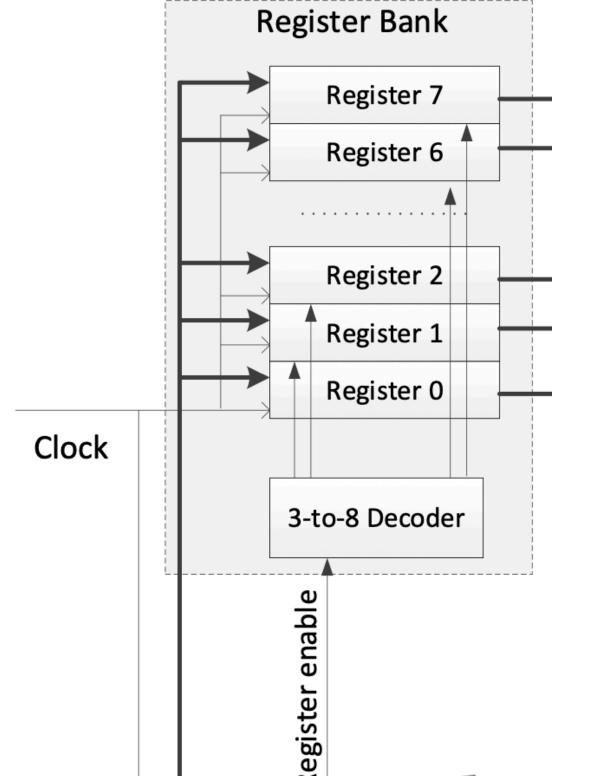
- 010 -> MOV
- 000 -> ADD
- 001 -> NEG
- O11 -> JZR
- 100 -> SUB
- 101 -> JMP
- 110 -> JNZR
- 111 -> END

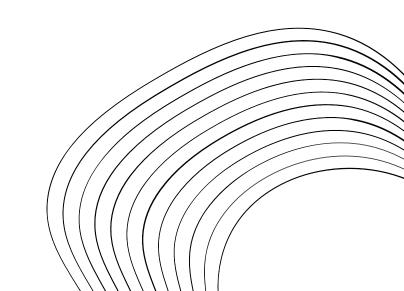
Terminate the Program

clkEn <= '0';

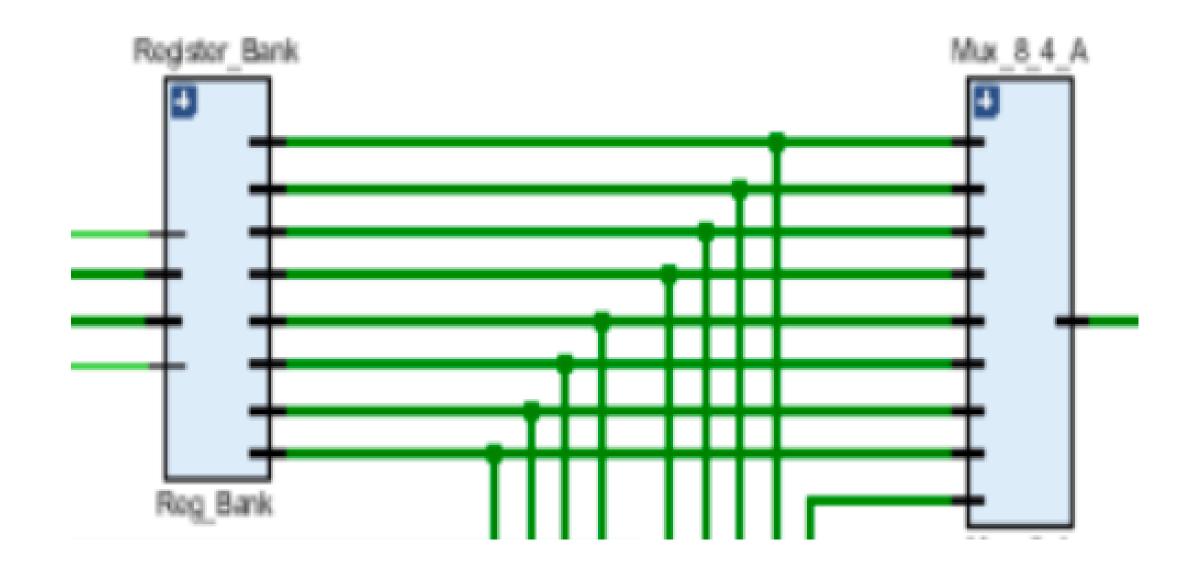
Significantly reduce Power Consumption

REGISTER BANK

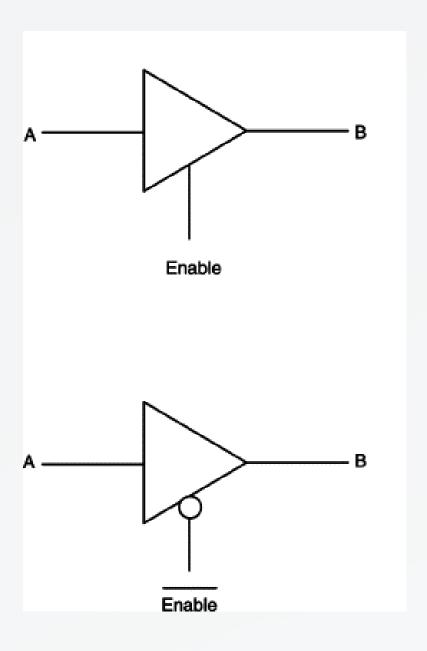


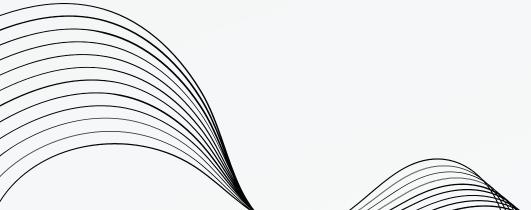


DATA BUS

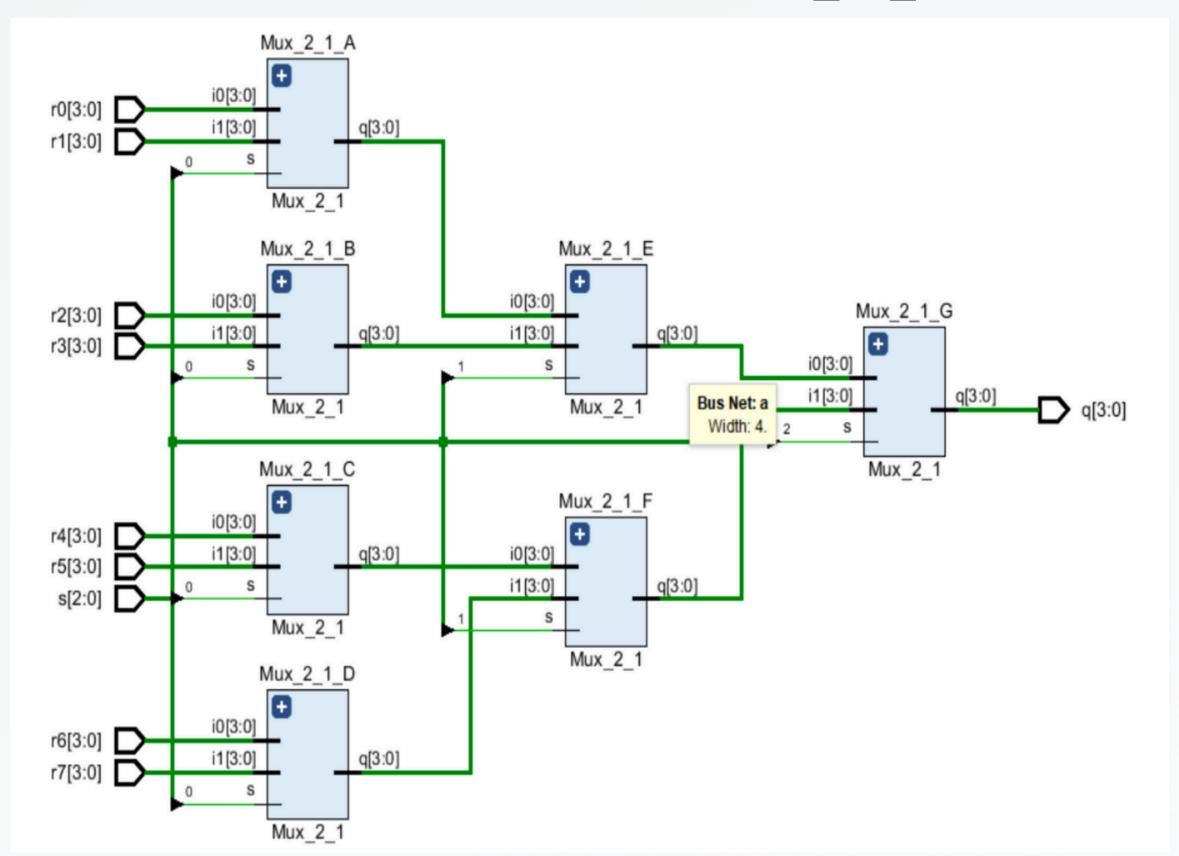


Tri state BUF

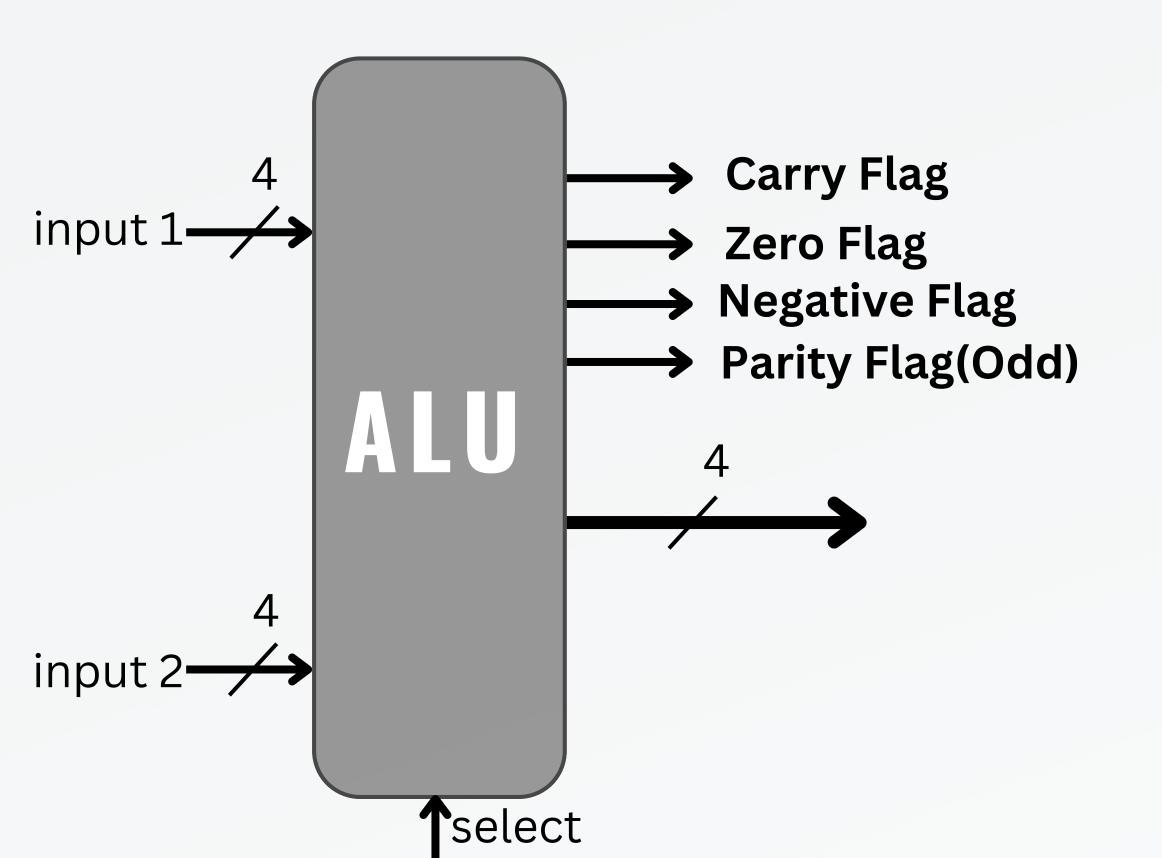




MULTIPLEXER_8_1



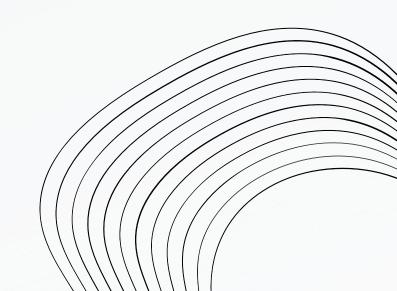
ALU



Addition and Substraction

Positive --> 4-bits

Negative --> 3-bits



THANK'S FOR ATTENTION

