

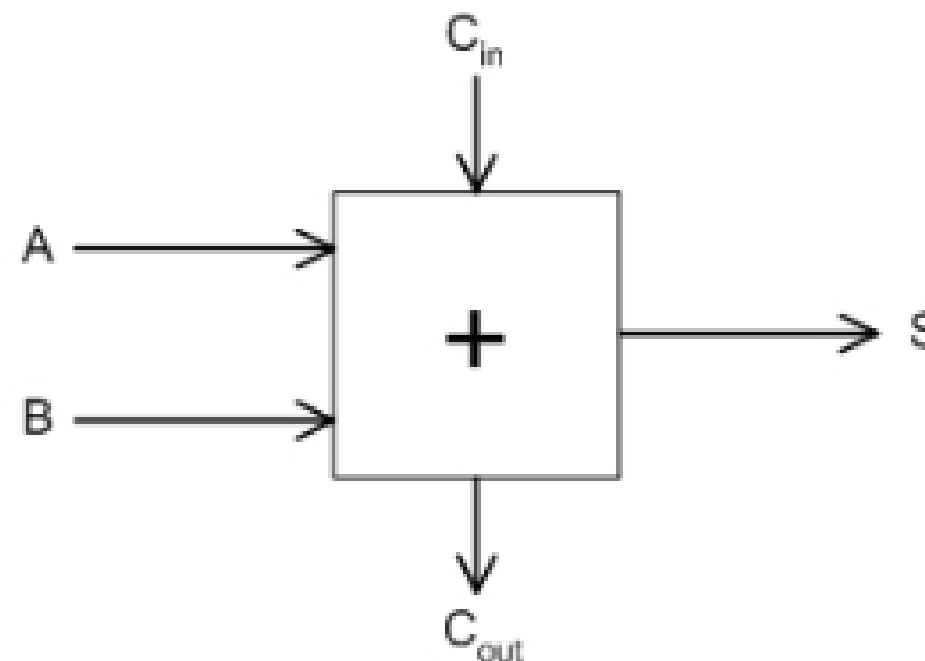
CS/COE0447

Computer Organization & Assembly Language

Logic Design

Logic Design

- Digital hardware is implemented by way of “logic design”
- Digital circuits process and produce two discrete values: 0 and 1
- Example: 1-bit full adder (FA)



Layered Design

- Logic design is done using logic gates
- Often we design desired function using high-level languages at somewhat higher level than logic gates

