
2-input multiplexer

X12031_en

Design a 2-input multiplexer with basic gates. The selection signal is called *sel*, whereas the two inputs are called *in0* and *in1*. The output will be *in0* when *sel*=0 and *in1* when *sel*=1.

Specification

```
module mux(in0, in1, sel, out);  
    input in0, in1, sel;  
    output out;
```

Input

- *in0* and *in1* are the signals to be selected.
- *sel* is the selection signal.

Output

- *out* is the output of the multiplexer.

Problem information

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