```scala
class mux2 extends Component {
  val io = new Bundle {
    val a = Bits(INPUT, 1)
    val b = Bits(INPUT, 1)
    val sel = Bits(INPUT, 1)
    val out = Bits(OUTPUT, 1)
  }

  io.out := io.a & io.sel |
            io.b & io.sel
}
```