

FileViewRunHelp

Slow

Fast

Animate:

Program flow

Format:

D...

View:

Co...

Chip Nam... Mux

Time : 0

Input pins

Name	Value
a	1
b	0
sel	0

Output pins

Name	Value
out	1

HDL

```
// This file is part of www.nand2tetris.org
// and the book "The Elements of Computing Systems"
// by Nisan and Schocken, MIT Press
// File name: projects/1/Mux.hdl
/**
 * Multiplexor:
 * if (sel = 0) out = a, else out = b
 */
CHIP Mux {
    IN a, b, sel;
    OUT out;

    PARTS:
        Not(in=sel,out=notsel);
```

Internal pins

Name	Value
notsel	1
anotsel	1
bsel	0

a	b	sel	out
0	0	0	0
0	0	1	0
0	1	0	0
0	1	1	1
1	0	0	1
1	0	1	0
1	1	0	1
1	1	1	1