

Truth Table for MUX

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2x1 MUX

x1	x2	S0	m1
0	x	0	0
1	x	0	1
x	0	1	0
x	1	1	1

4x1 MUX

x1	x2	x3	x4	S1	S0	m1
0	x	x	x	0	0	0
1	x	x	x	0	0	1
x	0	x	x	0	1	0
x	1	x	x	0	1	1
x	x	0	x	1	0	0
x	x	1	x	1	0	1
x	x	x	0	1	1	0
x	x	x	1	1	1	1

8x1 MUX

x1	x2	x3	x4	x5	x6	x7	x8	S2	S1	S0	m1
0	x	x	x	x	x	x	x	0	0	0	0
1	x	x	x	x	x	x	x	0	0	0	1
x	0	x	x	x	x	x	x	0	0	1	0
x	1	x	x	x	x	x	x	0	0	1	1
x	x	0	x	x	x	x	x	0	1	0	0
x	x	1	x	x	x	x	x	0	1	0	1
x	x	x	0	x	x	x	x	0	1	1	0
x	x	x	1	x	x	x	x	0	1	1	1
x	x	x	x	0	x	x	x	1	0	0	0
x	x	x	x	1	x	x	x	1	0	0	1
x	x	x	x	x	0	x	x	1	0	1	0
x	x	x	x	x	1	x	x	1	0	1	1
x	x	x	x	x	x	0	x	1	1	0	0
x	x	x	x	x	x	1	x	1	1	0	1
x	x	x	x	x	x	x	0	1	1	1	0
x	x	x	x	x	x	x	1	1	1	1	1