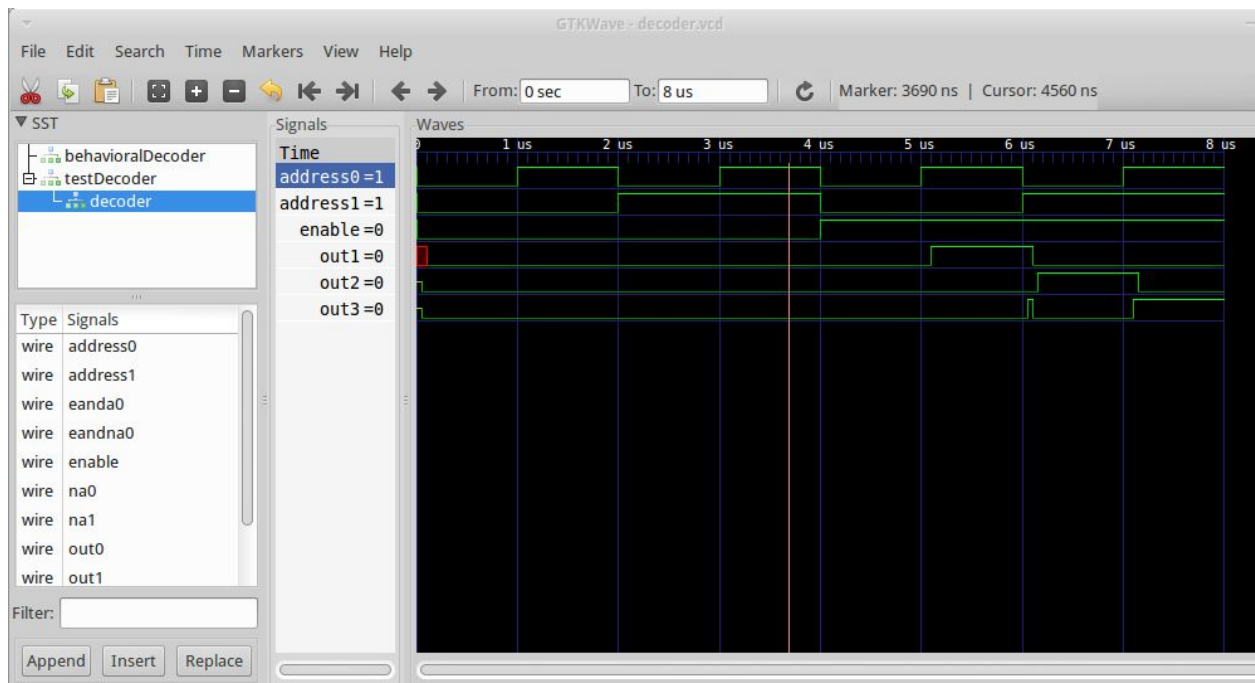


Decoder

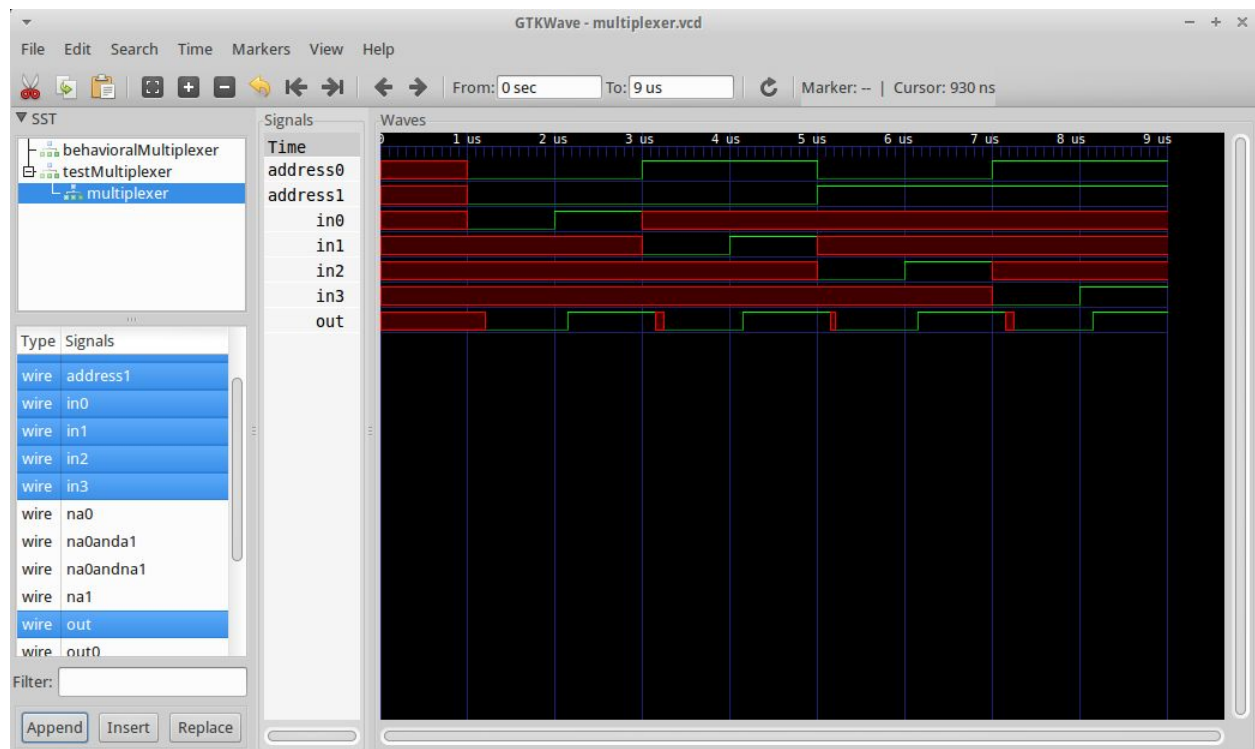
En	A0	A1	O0	O1	O2	O3	Expected Output
0	0	0	0	0	0	0	All false
0	1	0	0	0	0	0	All false
0	0	1	0	0	0	0	All false
0	1	1	0	0	0	0	All false
1	0	0	1	0	0	0	O0 Only
1	1	0	0	1	0	0	O1 Only
1	0	1	0	0	1	0	O2 Only
1	1	1	0	0	0	1	O3 Only



Multiplexer

a0	a1	in0	in1	in2	in3	out	Expected Output
0	0	0	x	x	x	0	0
0	0	1	x	x	x	1	1
1	0	x	0	x	x	0	0
1	0	x	1	x	x	1	1
0	1	x	x	0	x	0	0
0	1	x	x	1	x	1	1

1	1		x	x	x	0		0		0
1	1		x	x	x	1		1		1



Adder

A	B	Cin		Sum	Cout		Expected Output
0	0	0		0	0		0 0
0	0	1		1	0		1 0
0	1	0		1	0		1 0
0	1	1		0	1		0 1
1	0	0		1	0		1 0
1	0	1		0	1		0 1
1	1	0		0	1		0 1
1	1	1		1	1		1 1

