

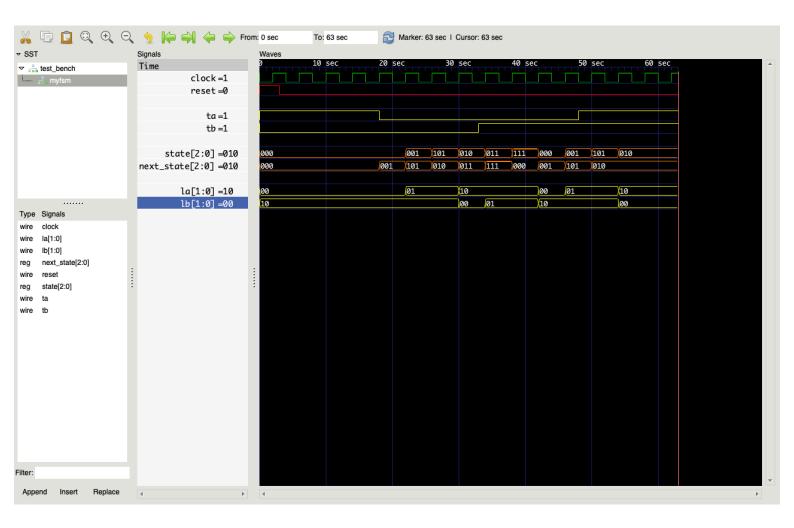
STATE ENCODING	S2 S1 S0
S0	000
S1	0 0 1
S2	<b>1</b> 0 1
S3	010
S4	0 1 1
S5	<b>1</b> 1 1

Using this encoding, The output logic remain same as the normal TCL . As output is govern by only last two bit

COLOR ENCODING	
GREEN: 00	
YELLOW: 01	
RED: 10	

OUTPUT LOGIC	
LA[0] : S1	
LA[1]: ~S1 & S0	
LB[0] : ~S1	
LB[1]: S1 & S0	

## **GTK WAVEFORMS**



```
0 la=00 lb=10
22 la=01 lb=10
30 la=10 lb=00
34 la=10 lb=01
42 la=00 lb=10
46 la=01 lb=10
54 la=10 lb=00
```

**OUTPUT**