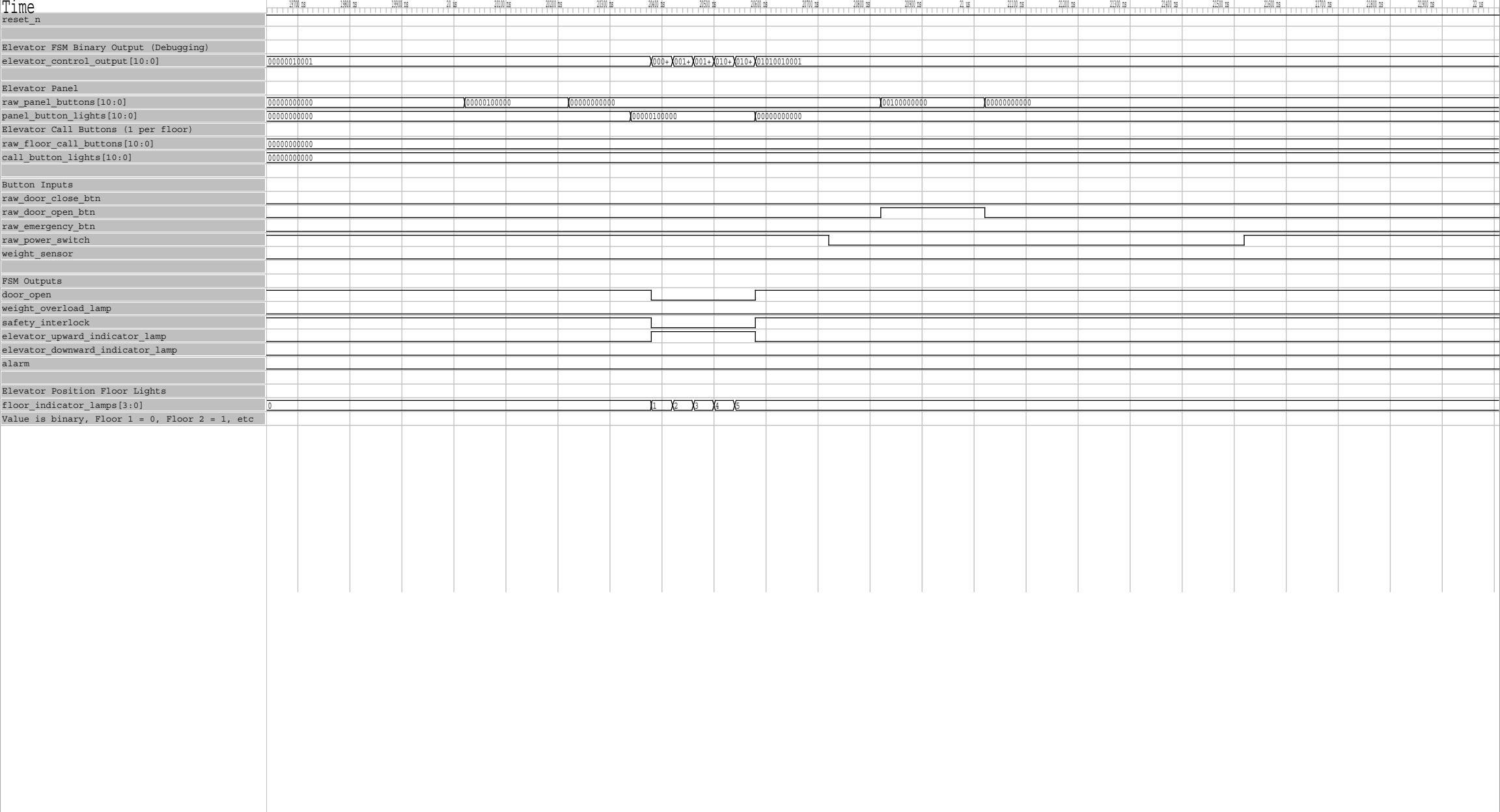
Time
reset_n
Elevator FSM Binary Output (Debugging)
elevator_control_output[10:0]
00000010001
000+
001+
001+
010+
010+
01010010001
Elevator Panel
raw_panel_buttons[10:0]
00000000000
00000100000
00000000000
00100000000
00000000000
panel_button_lights[10:0]
00000000000
00000100000
00000000000
Elevator Call Buttons (1 per floor)
raw_floor_call_buttons[10:0]
00000000000
call_button_lights[10:0]
00000000000
Button Inputs
raw_door_close_btn
raw_door_open_btn
raw_emergency_btn
raw_power_switch
weight_sensor
FSM Outputs
door_open
weight_overload_lamp
safety_interlock
elevator_upward_indicator_lamp
elevator_downward_indicator_lamp
alarm
Elevator Position Floor Lights
floor_indicator_lamps[3:0]
0
1
2
3
4
5
Value is binary, Floor 1 = 0, Floor 2 = 1, etc