

Traffic Controller

State	Name	Traffic Lights	Pedestrian Lights	Time (ms)	Sensors=							
					0	1	2	3	4	5	6	7
0	GO_E_W	0x0C	0x2	1500	0	0	1	1	1	1	1	1
1	SLOW_E_W	0x14	0x2	1000	2	2	2	2	4	4	2	2
2	GO_N_S	0x21	0x2	1500	2	3	2	3	3	3	3	3
3	SLOW_N_S	0x22	0x2	1000	0	0	0	0	4	4	4	4
4	WALK	0x24	0x8	1500	4	5	5	5	4	5	5	5
5	HURRY1	0x24	0x2	250	6	6	6	6	6	6	6	6
6	HURRY2	0x24	0x0	250	7	7	7	7	7	7	7	7
7	HURRY3	0x24	0x2	250	8	8	8	8	8	8	8	8
8	HURRY4	0x24	0x0	250	0	0	2	0	4	0	2	0
					Next State							

Traffic Lights (PB5-0):

0x0C east/west bound is green, north/south bound is red
 0x14 east/west bound is yellow, north/south bound is red
 0x21 north/south bound is green, east/west bound is red
 0x22 north/south bound is yellow, east/west bound is red
 0x24 east/west bound is red, north/south bound is red

Pedestrian Lights (PF3,PF1):

0x0 off
 0x2 don't walk
 0x8 walk

Sensors (PF2-0):

0x0 no cars present; no pedestrians present
 0x1 east/west bound cars present; no north/south bound cars or pedestrians present
 0x2 north/south bound cars present; no east/west bound cars or pedestrians present
 0x3 east/west bound and north/south bound cars present; no pedestrians present
 0x4 no cars present; pedestrians present;
 0x5 east/west bound cars and pedestrians present; no north/south bound cars present
 0x6 north/south bound cars and pedestrians present; no east/west bound cars present
 0x7 east/west bound cars, north/south bound cars, and pedestrians present