

## Obstacle Detector Test Cases

**S. Vigil © 3/30/2020**

Index	transition flow	transition verif	state	state verif	f count	f count verif	deg	Dif	rEdge	rEdge verif	lEdgeDeg	rEdgeDeg	ObstDeg	Verif ObstDeg	Test Case	Input File	Results File	Test Date	Notations	
	0 0		ff	verif		1 verif		1.2	10.1										Test with instrumentation turned on, i4i.llog. With instrumentation turned off, i4.log. Test passes under both conditions. All flows verified except 3t and 1t. Detailed results reported for instrumented case.	
1	1b	verif	ff	verif		1 verif		11.3	10											
2	1a	verif	oc	verif		2 verif		21.3	0.7											
3	2c	verif	oc	verif		3 verif		22	19.2											
4	2b	verif	ff	verif		1 verif		41.2	10											
5	1a	verif	oc			2 verif		51.2	0.8											
6	2c	verif	oc			3 verif		52	1.8											
7	2c	verif	oc			4 verif		52.8												
8	2a	verif	oo			4 verif		53.8	1											
9	3c	verif	oo			5 verif		54.8	10.2											
10	3b	verif	ff			1 verif		65	1	9 verif		41.2	54.8	48 verif	1	i4.txt	i4.log, i4i.log	3/30/2020	TEST PASS	
11	1a	verif	oc			2 verif		66	1	9 verif										
12	2c	verif	oc			3 verif		67	1	9										
13	2c	verif	oc		4 verif		68	No eval												
14	2t	verif	term	verif		4 verif	No data	Noeval	13 verif		65	68	66.5 verif	2	i4.txt	i4.log, i4i.log	3/30/2020	TEST PASS		
	0 0		ff			1 verif		1.2	10.1											
1	1b		ff			1 verif		11.3	10											
2	1a		oc			2 verif		21.3	0.7											
3	2c		oc			3 verif		22	19.2											
4	2b		ff	verif		1 verif		41.2	10											
5	1a		oc			2 verif		51.2	0.8											
6	2c		oc			3 verif		52	1.8											
7	2c		oc			4 verif		52.8												
8	2a		oo			4 verif		53.8	1											
9	3c		oo			5 verif		54.8	No eval											
10	3t		ff			1 verif	no data	Noeval	9		41.2	54.8	48 verif	3	i5.txt	i5.log	3/30/2020	TEST PASS		
	0 0		ff				1 verif		1.2	10.1										
1	1b		ff				1 verif		11.3	10										
2	1a		oc			2 verif		21.3	0.7											
3	2c		oc			3 verif		22	19.2											
4	2b		ff	verif		1 verif		41.2	10											
5	1a		oc			2 verif		51.2	0.8											
6	2c		oc			3 verif		52	1.8											
7	2c		oc			4 verif		52.8												
8	2a		oo			4 verif		53.8	1											
9	3c		oo			5 verif		54.8	No eval											
10	3t	verif	ff			1	no data	Noeval	9		41.2	54.8	48 verif	3	i5.txt	i5i.log	3/30/2020	TEST PASS		
	0 0		ff				1		1.2	10.1										
1	1b	v	ff				1		11.3	10										

2	1t	v	oc		2	21.3	No eval		4	i6.txt	i6.log	Bad test. Failed to detect traversal of flow 1a rather than 1t with code instrumentation switched off.
0	0		ff	verif	1	verif	1.2	10.1				Removed 21.3 deg datapoint
1	1t	verif	ff	verif	1	verif	11.3	No eval	4	i6.txt	i6i.log	Test Pass.
												i6.txt changed. For this test, entry of 21.3 was removed.
0	0		ff	verif	1	Core Dump	1.2	No eval	5	i7.txt	i7i.log	Test fail due to core dump. Not significant since no data.
0	1t		term				n/a	No eval	5	i7.txt	i7.log	Test pass but result not trusted.
												Operating on no data produces benign results. This is a corner case.