	S1				S2				
0	 0	0	0	0	0	0	1	1	I I 0
1	I I 0	0	1	0 0	0	1	0	0	1 1
1	0	0	1	0	1	1	0	0	l 0
0	0	1	1	1	0	0	0	0	i 0
0	0	1	1	1	0	0	1	1	1