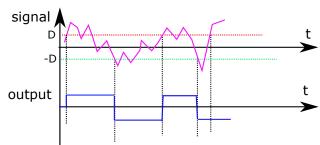
Schmitt trigger Finite State machine



D<signal : InPut=0 Up
|signal|<D : InPut=1 Mid
signal<-D : InPut=2 Down</pre>



OutPut:

1 DirrUp

-1 DirDown

None

States:

0, undefUp

1, MidUp

2, DownUp

3, UndefMid

4, UpMid

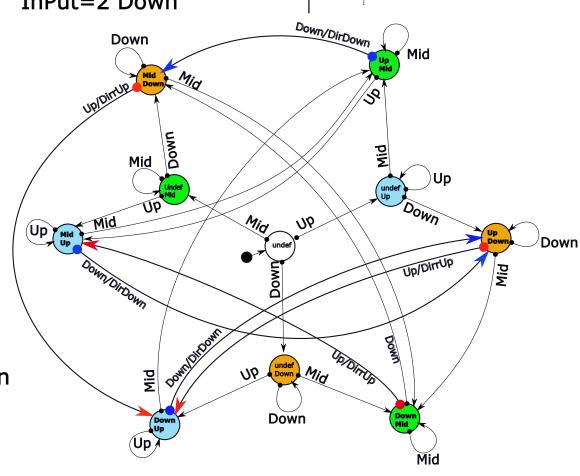
5, DownMid

6, undefDown

7, UpDown

8, MidDown

9, undef



state/action table		States									
		undefUp 0	MidUp 1	DownUp 2	UndefMid 3	UpMid 4	DownMid 5	undefDown 6	UpDown 7	MidDown 8	undef 9
	Up	undefUp/ none	MidUp/ none	DownUp/ none	MidUp/ none	MidUp/ none	MidUp/ DirrUp	DownUp/ DirrUp	DownUp/ DirrUp	DownUp/ DirrUp	undefUp/ none
inputs	Mid	UpMid/ none	UpMid/ none	UpMid/ none	UndefMid/ none	UpMid/ none	DownMid/ none	DownMid/ none	DownMid/ none	DownMid/ none	UndefMid/ none
	Down	UpDown/ DirDown	UpDown/ DirDown	UpDown/ DirDown	MidDown/ none	MidDown/ DirDown	MidDown/ none	undefDown/ none	UpDown/ none	MidDown/ none	undefDown/ none