```
.model Lights
                                    module a_Lights
.inputs Button
                                     external
.outputs CarSignal
                                        Button: (0..1);
        PedestrianSignal
                                        Tmp: (0..1)
.subckt ControlLogic CL
                                     interface
    PresentSignal=CarSignal
                                        CarSignal: (0..1);
    Button=Button NextSignal=Tmp
                                        PedestrianSignal: (0..1)
.latch Tmp CarSignal
                                     atom
.reset CarSignal
                                       controls PedestrianSignal
                                       awaits CarSignal
1
                                         init update
.table CarSignal -> \
                                             CarSignal' = 1 -> \
                                          []
                                                 PedestrianSignal':= 0
            PedestrianSignal
0 1
                                             CarSignal' = 0 -> \
                                          []
1 0
                                                 PedestrianSignal':=1
.end
                                     endatom
                                     atom
.model ControlLogic
                                       controls CarSignal
.inputs PresentSignal Button
                                       reads Tmp
.outputs NextSignal
                                         init
.table PresentSignal \
                                         update
       Button -> NextSignal
                                          []
                                             true -> CarSignal':=Tmp
.default 1
                                     endatom
1 1 0
                                     endmodule
.end
                                    module a_ControlLogic
                                     external
                                        PresentSignal: (0..1) ;
                                        Button: (0..1)
                                     interface
                                        NextSignal: (0..1)
                                     atom
                                       controls NextSignal
                                       awaits PresentSignal , Button
                                          init update
                                          [] PresentSignal' = 1 & \
                                             Button' = 1 -> \
                                             NextSignal':= 0
                                          [] default -> NextSignal':=1
                                     endatom
                                     endmodule
                                     -- Generated by mv2rm DONOT edit
                                     -- Report bugs to
                                     <vaibhav@cse.ucsc.edu>
                                     ControlLogic := a_ControlLogic
                                     b_Lights:= a_Lights
                                     | ControlLogic [PresentSignal,\
                                    Button , NextSignal := CarSignal,\
                                    Button, Tmp]
                                     Lights := hide Tmp in b_Lights
```

endhide