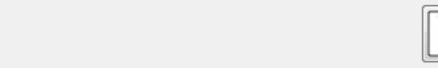
## File Edit View Configuration





















Ε

```
ctlr.fsm 🖾
```

```
fsm model ctlr <D:int> (
in Top: event,
in Clic: event,
 out SimpleClic: event,
 out DoubleClic: event)
 states: Idle, Wait;
 vars: ctr: int<0..D>;
 trans:
  Idle -- Clic | ctr:=0 -> Wait,
  Wait -- Clic | DoubleClic -> Idle,
  Wait -- Top.ctr < D-1 | ctr:=ctr+1 -> Wait,
  Wait -- Top.ctr = D-1 | SimpleClic -> Idle;
 itrans: -> Idle;
input Clk: event = periodic(10,10,120)
input Clic: event = sporadic(25,75,95)
output SClic: event
output DClic: event
fsm c1 = ctlr <5>(Clk, Clic, SClic, DClic)
```

```
tb.cpp 🖾
      inp_Clk.h
                         inp_Clk.cpp 🗵
                                              c1.h
                                                             c1.cpp
#include "systemc.h"
#include "rfsm.h"
#include "inp Clic.h"
#include "inp Clk.h"
#include "c1.h"
int sc main(int argc, char *argv∏)
 sc signal < bool > Clic;
 sc signal < bool > Clk;
 sc_signal<bool> DClic;
 sc signal <bool > SClic;
 sc trace file *trace file;
 trace file = sc create vcd trace file ("tb");
 sc_trace(trace_file, Clic, "Clic");
 sc_trace(trace_file, Clk, "Clk");
 sc trace(trace file, DClic, "DClic");
 sc trace(trace file, SClic, "SClic");
 Inp Clic Inp Clic("Inp Clic");
 Inp Clic(Clic);
 Inp Clk Inp Clk("Inp Clk");
 Inp Clk(Clk);
 C1 c1("c1");
 c1(Clk,Clic,SClic,DClic);
```

```
# Wrote file ./systemc/inp Clic.h
# Wrote file ./systemc/inp Clic.cpp
# Wrote file ./systemc/inp Clk.h
# Wrote file ./systemc/inp_Clk.cpp
# Wrote file ./systemc/c1.h
# Wrote file ./systemc/c1.cpp
# Wrote file ./systemc/tb.cpp
# Wrote file ./systemc/Makefile
```

# (c) zoto a acrot gocciymacrotigacam)