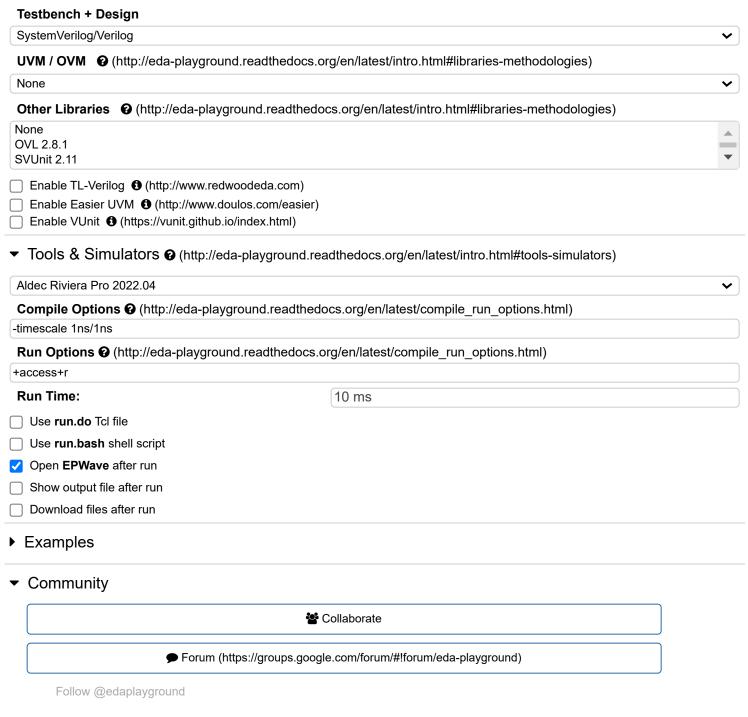
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▼ Languages & Libraries



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```
testbench.sv

// Code your testbench here
// or browse Examples
module tb_FA;
logic x,y,z,s,c;
FA uut(.x(x), .y(y), .z(z), .s(s), .c(c));
```

```
initial begin
7
       x=0;
       y=0;
8
       z=0;
9
       #5 x=1; y=0; z=0;
10
11
       #5 x=0; y=1; z=0;
12
       #5 x=1; y=1; z=0;
13
       #5 x=1; y=1; z=1;
       #5 $finish;
14
15
     end
     initial begin
16
       $display("x=%b, y=%b, z=%b s=%b, c=%b", x, y, z, s, c);
17
18
     initial begin
19
       $dumpfile("dump.vcd");
20
       $dumpvars;
21
22
     end
  endmodule
23
```

```
[2023-09-19 19:20:10 UTC] vlib work && vlog '-timescale' 'lns/1ns' design.sv testbench.sv && vsim ^
VSIMSA: Configuration file changed: `/home/runner/library.cfg'
ALIB: Library "work" attached.
work = /home/runner/work/work.lib
MESSAGE "Pass 1. Scanning modules hierarchy."
MESSAGE "Pass 2. Processing instantiations."
MESSAGE "Pass 3. Processing behavioral statements."
MESSAGE "Running Optimizer."
MESSAGE "ELB/DAG code generating."
MESSAGE "Unit top modules: tb_FA."
MESSAGE "$root top modules: tb_FA."
SUCCESS "Compile success O Errors O Warnings Analysis time: O[s]."
ALOG: Warning: The source is compiled without the -dbg switch. Line breakpoints and assertion debu
done
# Aldec, Inc. Riviera-PRO version 2022.04.117.8517 built for Linux64 on May 04, 2022.
# HDL, SystemC, and Assertions simulator, debugger, and design environment.
```

```
# (c) 1999-2022 Aldec, Inc. All rights reserved.
# ELBREAD: Elaboration process.
# ELBREAD: Elaboration time 0.0 [s].
# KERNEL: Main thread initiated.
# KERNEL: Kernel process initialization phase.
# ELAB2: Elaboration final pass...
# KERNEL: PLI/VHPI kernel's engine initialization done.
# PLI: Loading library '/usr/share/Riviera-PRO/bin/libsystf.so'
# ELAB2: Create instances ...
# KERNEL: Time resolution set to 1ns.
# ELAB2: Create instances complete.
# SLP: Started
# SLP: Elaboration phase ...
# SLP: Elaboration phase ... done : 0.0 [s]
# SLP: Generation phase ...
# SLP: Generation phase ... done : 0.1 [s]
# SLP: Finished : 0.1 [s]
# SLP: 0 primitives and 4 (100.00%) other processes in SLP
# SLP: 10 (100.00%) signals in SLP and 0 interface signals
# ELAB2: Elaboration final pass complete - time: 0.1 [s].
# KERNEL: SLP loading done - time: 0.0 [s].
# KERNEL: Warning: You are using the Riviera-PRO EDU Edition. The performance of simulation is red
# KERNEL: Warning: Contact Aldec for available upgrade options - sales@aldec.com.
# KERNEL: SLP simulation initialization done - time: 0.0 [s].
# KERNEL: Kernel process initialization done.
# Allocation: Simulator allocated 4668 kB (elbread=427 elab2=4107 kernel=134 sdf=0)
# KERNEL: ASDB file was created in location /home/runner/dataset.asdb
# KERNEL: x=0, y=0, z=0 s=x, c=x
# RUNTIME: Info: RUNTIME_0068 testbench.sv (14): $finish called.
# KERNEL: Time: 25 ns, Iteration: 0, Instance: /tb_FA, Process: @INITIAL#6_0@.
# KERNEL: stopped at time: 25 ns
# VSIM: Simulation has finished. There are no more test vectors to simulate.
# VSIM: Simulation has finished.
Finding VCD file...
./dump.vcd
[2023-09-19 19:20:14 UTC] Opening EPWave...
Done
```