

```
stone@ubuntu: ~/System_Verilog_Udemy/3_OOP/5_ARRAY_FUNCTION
1 module tb;
2   bit [3:0] res[16]; // 4비트 크기 데이터가 16개 있음
3
4   function automatic void init_arr (ref bit [3:0] a[16]); //리턴값 반환하지 않으려면 void형식
5   for(int i=0; i<=15; i++) begin
6     a[i] = i;
7   end
8 endfunction
9
10 initial begin
11   init_arr(res);
12
13   for (int i=0; i<=15; i++) begin
14     $display ("%0d : %0d", i, res[i]);
15   end
16 end
17
18 endmodule

1 change: before #25.2 seconds ago 4 103=93 All

g++ -o ../simv -no-pie -Wl,--no-as-needed -Wl,-rpath-link=/ -Wl,-rpath=$ORIGIN/simv.daidir/ -Wl,-rpath=/simv.daidir/ -Wl,-rpath=/scsim.db.dir -L/usr/lib/x86_64-linux-gnu -L/lib/x86_64-linux-gnu -Wl,--no-as-needed -rdynamic -Wl,-rpath=/usr/stone/software/vcs2018/vcs/0-2018.09-SP2/linux64/lib -L/usr/stone/software/vcs2018/vcs/0-2018.09-SP2/linux64/lib _lib718_archive_1.so _prev_archive_1.so _csrc0.so _SIM_1.o _csrc0.so _rmapats_mop.o _rmapats.o _rmar.o _rmar_nd.o _rmar_llvm_0_1.o _rmar_llvm_0_0.o _lzerosoft_rt_stubs -lvrsim -lerrorl _nf -lsnpmalloc -lvfs -lvcsnew -lsimprofile -luclnative /usr/stone/software/vcs2018/vcs/0-2018.09-SP2/linux64/lib/vcs_tls.o -Wl,-whole-archive -lvcsucl -Wl,-no-whole-archive _vcs_pli_stub.o /usr/stone/software/vcs2018/vcs/0-2018.09-SP2/linux64/lib/vcs_save_restore_new.o /usr/stone/software/verdi/verdi/Verdi_0-2018.09-SP2/share/PLI/VCS/LINUX64/pli.a -ldl -lc -lm -lpthread -ldl
../simv up to date
CPU time: .137 seconds to compile + .114 seconds to elab + .191 seconds to link
Verdi KDB elaboration done and the database successfully generated: 0 error(s), 0 warning(s)
stone@ubuntu:~/System_Verilog_Udemy/3_OOP/5_ARRAY_FUNCTION$ ./simv
Chronologic VCS simulator copyright 1991-2018
Contains Synopsys proprietary information.
Compiler version 0-2018.09-SP2_Full64; Runtime version 0-2018.09-SP2_Full64; Aug 22 23:17 2023
res[0] : 0
res[1] : 1
res[2] : 2
res[3] : 3
res[4] : 4
res[5] : 5
res[6] : 6
res[7] : 7
res[8] : 8
res[9] : 9
res[10] : 10
res[11] : 11
res[12] : 12
res[13] : 13
res[14] : 14
res[15] : 15

VCS Simulation Report

Time: 0
CPU Time: 0.130 seconds; Data structure size: 0.0Mb
Tue Aug 22 23:17:30 2023
```