

a) random_test instantiates env_h

env_h instantiates: randome_tester_h, uvm_tlm_fifo, driver_h, coverage_h, scoreboard_h, command_monitor_h, result_monitor_h

scoreboard_h instatiate uvm_tlm_analysis_fifo

b) uvm_tlm_fifo, uvm_tlm_analysis_fifo

c) random_tester_h, driver_h, coverage_h, scoreboard_h, command_monitor_h, result_monitor_h

d) driver, command_monitor, result_monitor

e) command_monitor, result_monitor

f) driver

g) random_tester

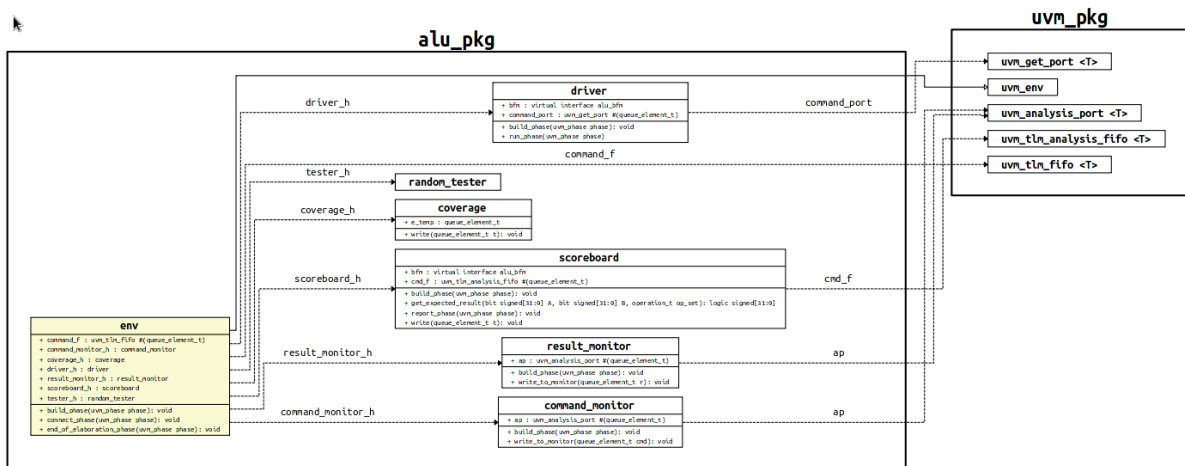
h) uvm_blocking_put_port, uvm_nonblocking_put_port, uvm_put_port, uvm_blocking_get_port, uvm_nonblocking_get_port, uvm_get_port, uvm_blocking_peek_port, uvm_nonblocking_peek_port, uvm_peek_port, uvm_blocking_get_peek_port, uvm_nonblocking_get_peek_port, uvm_get_peek_port, uvm_port_base

i) command_monitor, coverage, result_monitor, scoreboard

UVM structure:

```
UVM_INFO @ 0: reporter [RNTST] Running test random_test...
*** Created tester type: random_tester
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Name                                Type                                Size  Value
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uvm_test_top                        random_test                        -      @1940
env_h                               env                                -      @2017
  command_f                         uvm_tlm_fifo #(T)                 -      @2047
    get_ap                         uvm_analysis_port                  -      @2251
    get_peek_export                uvm_get_peek_imp                  -      @2151
    put_ap                         uvm_analysis_port                  -      @2201
    put_export                     uvm_put_imp                       -      @2099
  command_monitor_h                command_monitor                    -      @2460
    ap                             uvm_analysis_port                  -      @2601
  coverage_h                       coverage                           -      @2346
    analysis_imp                   uvm_analysis_imp                   -      @2396
  drive_h                          driver                             -      @2315
    command_port                   uvm_get_port                       -      @2657
  random_tester_h                  random_tester                      -      @2284
    command_port                   uvm_put_port                       -      @2709
  result_monitor_h                 result_monitor                      -      @2542
    ap                             uvm_analysis_port                  -      @2763
  scoreboard_h                     scoreboard                         -      @2430
    analysis_imp                   uvm_analysis_imp                   -      @2479
    cmd_f                          uvm_tlm_analysis_fifo #(T)        -      @2794
    analysis_export                uvm_analysis_imp                   -      @3043
    get_ap                         uvm_analysis_port                  -      @2992
    get_peek_export                uvm_get_peek_imp                  -      @2894
    put_ap                         uvm_analysis_port                  -      @2943
    put_export                     uvm_put_imp                       -      @2845
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UVM_INFO /cad/XCELIUM1909/tools/methodology/UVM/CDNS-1.2/sv/src/base
```

UML diagram:



UVM block diagram:

