

Module: UVM-1

Section: UVM Concepts Task: TLM

TLM

Task 2

➤ Task 1:

```

19 virtual task put(transaction trans);
20 // Add some Delay (Task 1)
21 #40;
22
23 `uvm_info(get_type_name(),$sformatf(" Received trans on IMP Port"),UVM_LOW)
24 `uvm_info(get_type_name(),$sformatf(" Printing trans, \n %s",trans.sprint()),UVM_LOW)
25 endtask
26
27 endclass component_b

```

Log			
Share			
trans	transaction	-	@395
addr	integral	4	'h9
wr_rd	integral	1	'h0
wdata	integral	8	'hf5

UVM_INFO component_a.sv(28) @ 0: uvm_test_top.comp_a [component_a] Before calling port put method			
UVM_INFO component_b.sv(23) @ 40: uvm_test_top.comp_b [component_b] Received trans on IMP Port			
UVM_INFO component_b.sv(24) @ 40: uvm_test_top.comp_b [component_b] Printing trans,			

Name	Type	Size	Value

trans	transaction	-	@395
addr	integral	4	'h9
wr_rd	integral	1	'h0
wdata	integral	8	'hf5

➤ Task 2:

Log			
Share			
subComp_b	sub_comp_b_a	-	@400
trans_end	uvm_blocking_put_imp	-	@415
trans_mid	uvm_blocking_put_export	-	@396
comp_b_a	sub_comp_b_a	-	@377
trans_end	uvm_blocking_put_imp	-	@386

UVM_INFO component_a.sv(25) @ 0: uvm_test_top.comp_a [component_a] transaction randomized			

Name	Type	Size	Value

trans	transaction	-	@433
addr	integral	4	'h9
wr_rd	integral	1	'h0
wdata	integral	8	'hf5

UVM_INFO component_a.sv(28) @ 0: uvm_test_top.comp_a [component_a] Before calling port put method			
UVM_INFO sub_comp_b_a.sv(24) @ 0: uvm_test_top.comp_b.subComp_b [sub_comp_b_a] Received trans on IMP Port			
UVM_INFO sub_comp_b_a.sv(25) @ 0: uvm_test_top.comp_b.subComp_b [sub_comp_b_a] Printing trans,			

Name	Type	Size	Value

trans	transaction	-	@433
addr	integral	4	'h9
wr_rd	integral	1	'h0
wdata	integral	8	'hf5

UVM_INFO component_a.sv(30) @ 0: uvm_test_top.comp_a [component_a] After calling port put method			
UVM_INFO /apps/vcsmx/vcs/U-2023.03-SP2/etc/uvm-1.2/src/base/uvm_objection.svh(1276) @ 0: reporter [TEST_DONE] 'run' phase is ready to proceed to the 'extract' phase			
UVM_INFO /apps/vcsmx/vcs/U-2023.03-SP2/etc/uvm-1.2/src/base/uvm_report_server.svh(904) @ 0: reporter [UVM/REPORT/SERVER]			
--- UVM Report Summary ---			

➤ Task 3:

```

-----
Name      Type      Size  Value
-----
trans     transaction -    @444
addr      integral  4    'h9
wr_rd     integral  1    'h0
wdata     integral  8    'hf5
-----
UVM_INFO component_a.sv(28) @ 0: uvm_test_top.comp_a [component_a] Before calling port put method
UVM_INFO component_a.sv(30) @ 0: uvm_test_top.comp_a [component_a] After calling port put method
UVM_INFO component_b.sv(24) @ 0: uvm_test_top.comp_b [component_b] Received Transaction from FIFO
-----
Name      Type      Size  Value
-----
trans     transaction -    @444
addr      integral  4    'h9
wr_rd     integral  1    'h0
wdata     integral  8    'hf5
-----
UVM_INFO /apps/vcsmx/vcs/U-2023.03-SP2/etc/uvm-1.2/src/base/uvm_objection.svh(1276) @ 0: reporter [TEST_DONE] 'run' phase is ready to proceed to the 'extract' phase
UVM_INFO /apps/vcsmx/vcs/U-2023.03-SP2/etc/uvm-1.2/src/base/uvm_report_server.svh(904) @ 0: reporter [UVM/REPORT/SERVER]
--- UVM Report Summary ---

** Report counts by severity
UVM_INFO :    7
UVM_WARNING :    0
UVM_ERROR :    0
UVM_FATAL :    0
** Report counts by id
[RNTST]    1
[TEST_DONE] 1
[UVM/RELNOTES] 1
[component_a] 3
[component_b] 1

```