

VERIFICATION OF DIGITAL CIRCUITS

Mikroelektronika w Technice i Medycynie

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Answers

- a) The following testbench objects will communicate with each other using transactions:
command monitor to coverage and scoreboard result monitor to scoreboard
- b) The minimum number of transaction classes needed to run a single test (e.g. random_test) is: 1
- c) The objects that create the instances of these transactions are:
tester creates command_transaction instances result_monitor creates result_transaction instances
- d) How many new transaction classes do we need to add if we create a new test (e.g., add_test) so that the add_test inherits from random_test? 1
- d) If we have two tests, e.g. random_test and minmax_test, and one tester, how are different transaction types generated for different tests (i.e. random_command for random_test, and minmax_command for minmax_test)?
different transactions are generated using the same base transaction which type is overridden by other transaction classes