1. Bug found: Calculator returns successful response when no operation is being performed

*Time: 225 ns Scope: top.test1.Scoreboard.check\_actual File: scoreboard.sv Line: 89*

Result: port = 0, resp = 01, data = 0000 0000 0000 0000 0000 0000 0000 0000 (0), tag = 00

1. Bug found: Incorrect response received on shift left operation

*Time: 12275 ns Scope: top.test1.Scoreboard.check\_actual File: scoreboard.sv Line: 99*

Command: cmd = 0101, data1 = 3450384871, data2 = 1965349539, tag = 2

Expected: data = 1833275192, resp = 01

Got: data = 1833242424, resp = 01

Inputs were defined as follows:

345038487110 (1100 1101 1010 1000 1011 0001 1110 01112) <<

196534953910 (0111 0101 0010 0100 1101 1010 1010 00112) =

Expected: 183327519210 == (0110 1101 0100 0101 1000 1111 0011 10002)

Received: 183324242410 == (0110 1101 0100 0101 0000 1111 0011 10002)

1. Bug found: Incorrect response received on shift right operation

*Time: 24525 ns Scope: top.test1.Scoreboard.check\_actual File: scoreboard.sv Line: 99*

Command: cmd = 0110, data1 = 2722732462, data2 = 3748543832, tag = 0

Expected: data = 162, resp = 01

Got: data = 0, resp = 10

Inputs were defined as follows:

272273246210 (1010 0010 0100 1001 1001 1001 1010 11102) <<

374854383210 (1101 1111 0110 1110 0011 1101 0101 10002)

Expected: 16210 == (1010 00102)

Received: 010 == (0000 00002)