

CND 212: Digital Testing and Verification

Assignment #: 01

Section #: 21

Submitted by:

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```

64         #20;
65     end
66 endtask
67
68 initial begin
69     fork
70         producer();
71         consumer();
72     join
73     $display("Finished!");
74 end
75 endmodule
76

```

The Simulation Results:

Contains Synopsys proprietary information.

Compiler version S-2021.09; Runtime version S-2021.09; Feb 27 06:05 2024

```

Received Packet - ID: 148, Sent Time: 5, Type: MESSAGE, Priority: HIGH, Data: 11000000100010010101111010000001
Received Packet - ID: 170, Sent Time: 10, Type: MESSAGE, Priority: HIGH, Data: 10000100100001001101011000001001
Received Packet - ID: 12, Sent Time: 20, Type: COMMAND, Priority: HIGH, Data: 00000110101110010111101100001101
Received Packet - ID: 113, Sent Time: 30, Type: MESSAGE, Priority: HIGH, Data: 10110010110000101000010001100101
Received Packet - ID: 152, Sent Time: 45, Type: COMMAND, Priority: HIGH, Data: 00000110110101111100110100001101
Received Packet - ID: 38, Sent Time: 95, Type: MESSAGE, Priority: HIGH, Data: 10111011110100100111001001110111
Received Packet - ID: 90, Sent Time: 0, Type: COMMAND, Priority: MEDIUM, Data: 00010010000101010011010100100100
Received Packet - ID: 167, Sent Time: 15, Type: MESSAGE, Priority: MEDIUM, Data: 10110001111100000101011001100011
Received Packet - ID: 187, Sent Time: 25, Type: COMMAND, Priority: MEDIUM, Data: 01000110110111111001100110001101
Received Packet - ID: 37, Sent Time: 40, Type: COMMAND, Priority: MEDIUM, Data: 00000000111100111110001100000001
Received Packet - ID: 93, Sent Time: 50, Type: MESSAGE, Priority: MEDIUM, Data: 00111011001000111111000101110110
Received Packet - ID: 13, Sent Time: 65, Type: MESSAGE, Priority: MEDIUM, Data: 01000110001011011111011110001100
Received Packet - ID: 70, Sent Time: 70, Type: COMMAND, Priority: MEDIUM, Data: 01111100111111011110100111111001
Received Packet - ID: 9, Sent Time: 85, Type: CONTROL, Priority: MEDIUM, Data: 110101010001001111101001010101010
Received Packet - ID: 106, Sent Time: 35, Type: CONTROL, Priority: LOW, Data: 10001001001101110101001000010010
Received Packet - ID: 28, Sent Time: 55, Type: COMMAND, Priority: LOW, Data: 00011110100011011100110100111101
Received Packet - ID: 39, Sent Time: 60, Type: MESSAGE, Priority: LOW, Data: 0111011011010100010101111101101
Received Packet - ID: 95, Sent Time: 75, Type: COMMAND, Priority: LOW, Data: 11100011001101110010010011000110
Received Packet - ID: 118, Sent Time: 80, Type: CONTROL, Priority: LOW, Data: 11100010111101111000010011000101
Received Packet - ID: 121, Sent Time: 90, Type: CONTROL, Priority: LOW, Data: 01110010101011111111011111100101
Finished!

```