2'b1x, 2'b0x, 2'bzx: // Multicast LowIn

begin

o\_data\_bus\_inner[DATA\_WIDTH+:DATA\_WIDTH] <= (i\_valid[0])?i\_data\_bus[0+:DATA\_WIDTH]:{DATA\_WIDTH{1'bz}};

o\_data\_bus\_inner[0+:DATA\_WIDTH] <= (i\_valid[0])?i\_data\_bus[0+:DATA\_WIDTH]:{DATA\_WIDTH{1'bz}};

o\_valid\_inner <= (i\_valid[0])?2'b11:2'b00;

o\_cmd\_inner <= (i\_valid[0])?{i\_cmd[0+:(DESTINATION\_TAG\_WIDTH-1)], i\_cmd[0+:(DESTINATION\_TAG\_WIDTH-1)]} :{{(DESTINATION\_TAG\_WIDTH-1){1'bz}}, {(DESTINATION\_TAG\_WIDTH-1){1'bz}}};

end

2'bx0,2'bx1,2'bxx,2'bxz: // Multicast HighIn

begin

o\_data\_bus\_inner[DATA\_WIDTH+:DATA\_WIDTH] <= (i\_valid[1])?i\_data\_bus[DATA\_WIDTH+:DATA\_WIDTH]:{DATA\_WIDTH{1'bz}};

o\_data\_bus\_inner[0+:DATA\_WIDTH] <= (i\_valid[1])?i\_data\_bus[DATA\_WIDTH+:DATA\_WIDTH]:{DATA\_WIDTH{1'bz}};

o\_valid\_inner <= (i\_valid[1])?2'b11:2'b00;

o\_cmd\_inner <= (i\_valid[1])?{i\_cmd[DESTINATION\_TAG\_WIDTH+:(DESTINATION\_TAG\_WIDTH-1)], i\_cmd[DESTINATION\_TAG\_WIDTH+:(DESTINATION\_TAG\_WIDTH-1)]} :{{(DESTINATION\_TAG\_WIDTH-1){1'bz}}, {(DESTINATION\_TAG\_WIDTH-1){1'bz}}};

end

The above commands are not reachable as complained by DC as following.

Warning: ../src/distribute\_noc\_seq/distribute\_2x2\_dst\_tag\_multicast\_seq.v:240: Statement unreachable (Branch condition impossible to meet). (VER-61)

Warning: ../src/distribute\_noc\_seq/distribute\_2x2\_dst\_tag\_multicast\_seq.v:248: Statement unreachable (Branch condition impossible to meet). (VER-61)

Do not use “x” or “z” or “?” as control command.