



```
1 #open the library
2 #open_lib ./outputs/orca_top.nlib/
3
4 #open the block
5 open_block PLACEMENT_NEW
6
7 #check legality
8 check_legality
9
10 #legalize the placement
11 legalize_placement -incremental
12
13 #congestion
14 report_congestion -rerun_global_router > ./outputs/reports/PLACEMENT_NEW/congestion_bpo.txt
15
16 #utilization before place_opt
17 remove_utilization_configurations -all
18 create_utilization_configuration pl
19 report_utilization -config pl > ./outputs/reports/PLACEMENT_NEW/uti_bpo.txt
20
21 #route_global
22 route_global
23
24 #maximum transtion violations
25 report_constraints -max_transition -all_violators -significant_digits 3 -scenarios * > ./outputs/reports/PLACEMENT_NEW/mtv_bpo.txt
26
27 #maximum capacitance violations
28 report_constraints -max_capacitance -all_violators -significant_digits 3 -scenarios * > ./outputs/reports/PLACEMENT_NEW/mcv_bpo.txt
29
30 #setup violations
31 report_global_timing > ./outputs/reports/PLACEMENT_NEW/sv_bpo.txt
32
33 #place_opt
34 #initial_place:coarse/rough placement
35 #place_opt -from initial_place -to initial_place
36 #global routing
37 #route_global
38 #max transtion violations
39 report_constraints -max_transition -all_violators -significant_digits 3 -scenarios * > ./outputs/reports/PLACEMENT_CONG/initial_place/mtv_apo.txt
40 #max capacitance violations
41 report_constraints -max_capacitance -all_violators -significant_digits 3 -scenarios * > ./outputs/reports/PLACEMENT_CONG/initial_place/mcv_apo.txt
42 #set up violations
43 report_global_timing > ./outputs/reports/PLACEMENT_CONG/initial_place/sv_apo.txt
44 #congestion
45 report_congestion -rerun_global_router > ./outputs/reports/PLACEMENT_CONG/initial_place/conges_apo.txt
46
47 #for fixing the max_cap and max trans violations
48 #we need to upsize and vt swapping to reduce the errors
49 #source ./scripts/upsizer_driver_1.tcl
50 #inserting the buffer
51 #source ./scripts/insert_buffer.tcl
52
-- INSERT --
```

48,1

Top



10.0.0.22:5999 (vlsiguru4:12) - VNC Viewer

ApplicationsPlacesVi Improved

Sun 16:21

placement\_flow.tcl + (~/.pd\_adv\_may25/orca\_top/pd/scripts) - GVIM1

FileEditToolsSyntaxBuffersWindowHelp

55 #initial\_drc : max trans,max\_cap

56 #place\_opt -from initial\_drc -to initial\_drc

57 #global routing

58 #route\_global

59 #max transtion violations

60 report\_constraints -max transition -all\_violators -significant\_digits 3 -scenarios \* > ./outputs/reports/PLACEMENT\_NEW/initial\_drc/mtv\_apo.txt

61 #max capacitence violations

62 report\_constraints -max capacitance -all\_violators -significant\_digits 3 -scenarios \* > ./outputs/reports/PLACEMENT\_NEW/initial\_drc/mcv\_apo.txt

63 #timing violations

64 report\_global\_timing > ./outputs/reports/PLACEMENT\_NEW/initial\_drc/sv\_apo.txt

65 #congestion

66 report\_congestion -rerun\_global\_router > ./outputs/reports/PLACEMENT\_NEW/initial\_drc/conges\_apo.txt

67

68

69 #initial\_opto:high fanout net synthesis(HFNS)

70 #place\_opt -from initial\_opto -to initial\_opto

71 #global routing

72 #route\_global

73 #max transtion violations

74 report\_constraints -max transition -all\_violators -significant\_digits 3 -scenarios \* > ./outputs/reports/PLACEMENT\_NEW/initial\_opto/mtv\_apo.txt

75 #max capacitence violations

76 report\_constraints -max capacitance -all\_violators -significant\_digits 3 -scenarios \* > ./outputs/reports/PLACEMENT\_NEW/initial\_opto/mcv\_apo.txt

77 #timing violations

78 report\_global\_timing > ./outputs/reports/PLACEMENT\_NEW/initial\_opto/sv\_apo.txt

79 #congestion

80 report\_congestion -rerun\_global\_router > ./outputs/reports/PLACEMENT\_NEW/initial\_opto/conges\_apo.txt

81

82 #final\_place:LEGALIZE AND DATH PATH OPTIMIZATION

83 #place\_opt -from final\_place -to final\_place

84 #global routing

85 #route\_global

86 #max transtion violations

87 report\_constraints -max transition -all\_violators -significant\_digits 3 -scenarios \* > ./outputs/reports/PLACEMENT\_NEW/final\_place/mtv\_apo.txt

88 #max capacitence violations

89 report\_constraints -max capacitance -all\_violators -significant\_digits 3 -scenarios \* > ./outputs/reports/PLACEMENT\_NEW/final\_place/mcv\_apo.txt

90 #timing violations

91 report\_global\_timing > ./outputs/reports/PLACEMENT\_NEW/final\_place/sv\_apo.txt

92 #congestion

93 report\_congestion -rerun\_global\_router > ./outputs/reports/PLACEMENT\_NEW/final\_place/conges\_apo.txt

94

95

96 #final\_opto: DATA PATH OPTIMIZATION

97 place\_opt -from final\_opto -to final\_opto

98 #global routing

99 #route\_global

100 #max transtion violations

101 report\_constraints -max transition -all\_violators -significant\_digits 3 -scenarios \* > ./outputs/reports/PLACEMENT\_NEW/final\_opto/mtv\_apo.txt

102 #max capacitence violations

103 report\_constraints -max capacitance -all\_violators -significant\_digits 3 -scenarios \* > ./outputs/reports/PLACEMENT\_NEW/final\_opto/mcv\_apo.txt

104 #timing violations

105 report\_global\_timing > ./outputs/reports/PLACEMENT\_NEW/final\_opto/sv\_apo.txt

106 #congestion

-- INSERT --

93,164%

yeswan@vlsigur...IC Compiler II - ...upsie\_driver\_1...placement\_flow...[upsie\_driver...insert\_buffer.tc...insert\_buffer...func\_max.tcl (~...flow.tcl (~/.pd\_a...bottle\_neck\_ce...floorplan.tcl (~/.f...

Trending videos

A Big Bold Beau...

Search

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2

4:20 PM

8/31/2025





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95 |
96 #final_opto: DATA PATH OPTIMIZATION
97 place_opt -from final_opto -to final_opto
98 #global routing
99 #route_global
100 #max transtion violations
101 report_constraints -max transition -all_violators -significant_digits 3 -scenarios * > ./outputs/reports/PLACEMENT_NEW/final_opto/mtv_apo.txt
102 #max capacitence violations
103 report_constraints -max capacitance -all_violators -significant_digits 3 -scenarios * > ./outputs/reports/PLACEMENT_NEW/final_opto/mcv_apo.txt
104 #timing violations
105 report_global_timing > ./outputs/reports/PLACEMENT_NEW/final_opto/sv_apo.txt
106 #congestion
107 report_congestion -rerun_global_router > ./outputs/reports/PLACEMENT_NEW/final_opto/conges_apo.txt
108 #buffer count
109 report_qor > ./outputs/reports/PLACEMENT_NEW/final_opto/buffercount_apo.txt
110
111
112 #to fix max transtion and setupviolations
113 #to upsize and vt swapping(mtv)
114 source ./scripts/upsizedriver_1.tcl
115 #to upsize and vt swapping (mcv)
116 source ./scripts/upsizedriver_mcv.tcl
117 #to insert buffers to reduce violations(mtv)
118 source ./scripts/insert_buffer.tcl
119 #to insert buffer to reduce violations(mcv)
120 source ./scripts/insert_buffer_mcv.tcl
121
122 save_block -as NEW_FINAL_OPTO
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124
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-- INSERT --

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Bot

