CPEG660-Project 2 Part 3-Block Layout

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Wangqing Shen
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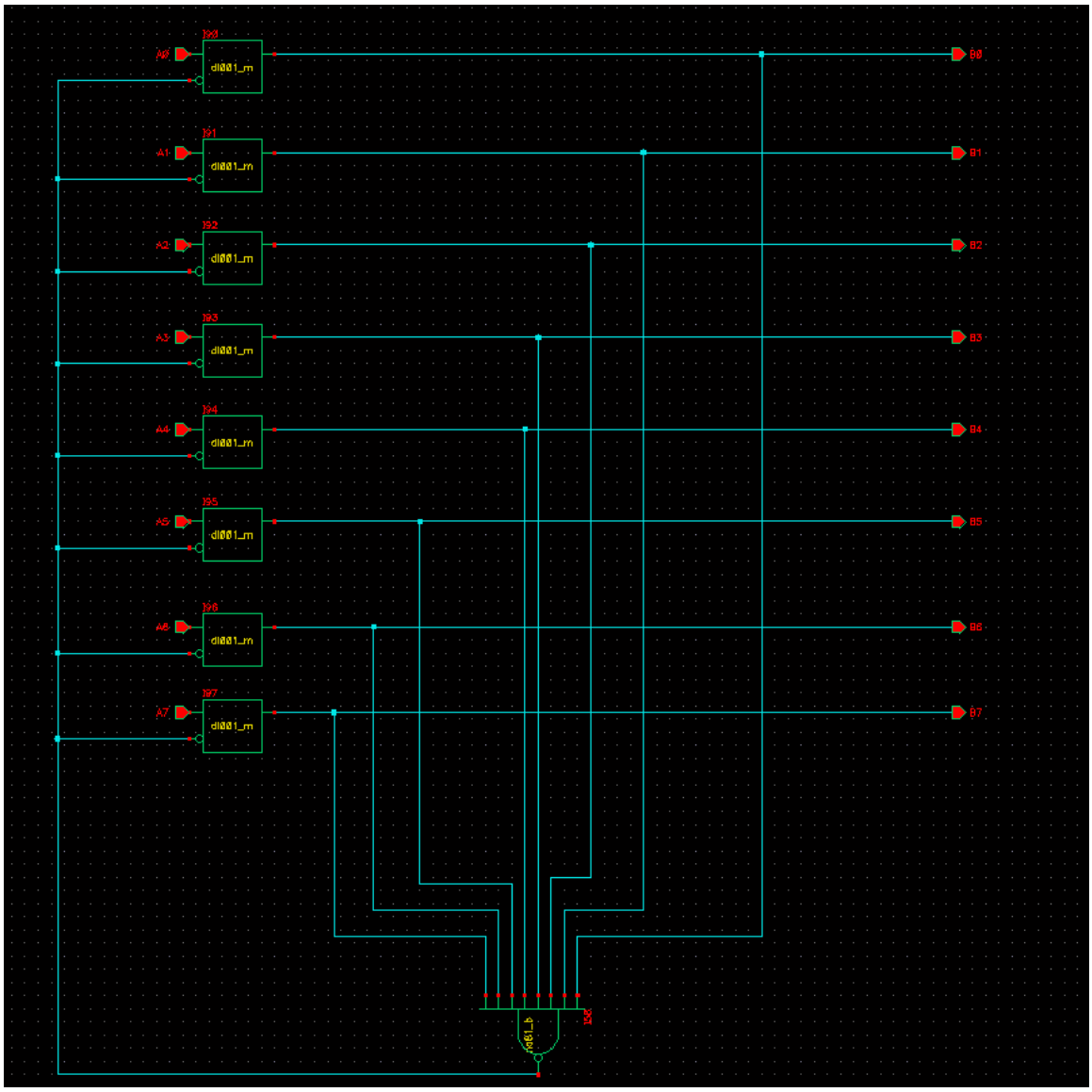
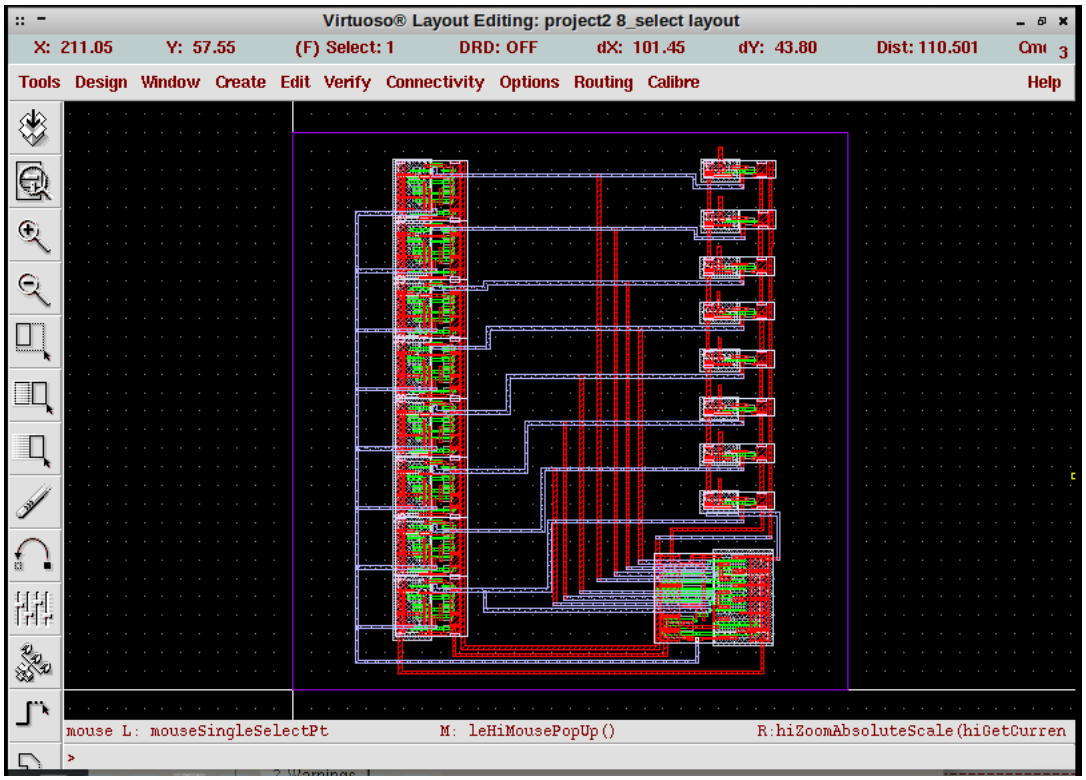
Layout of each part

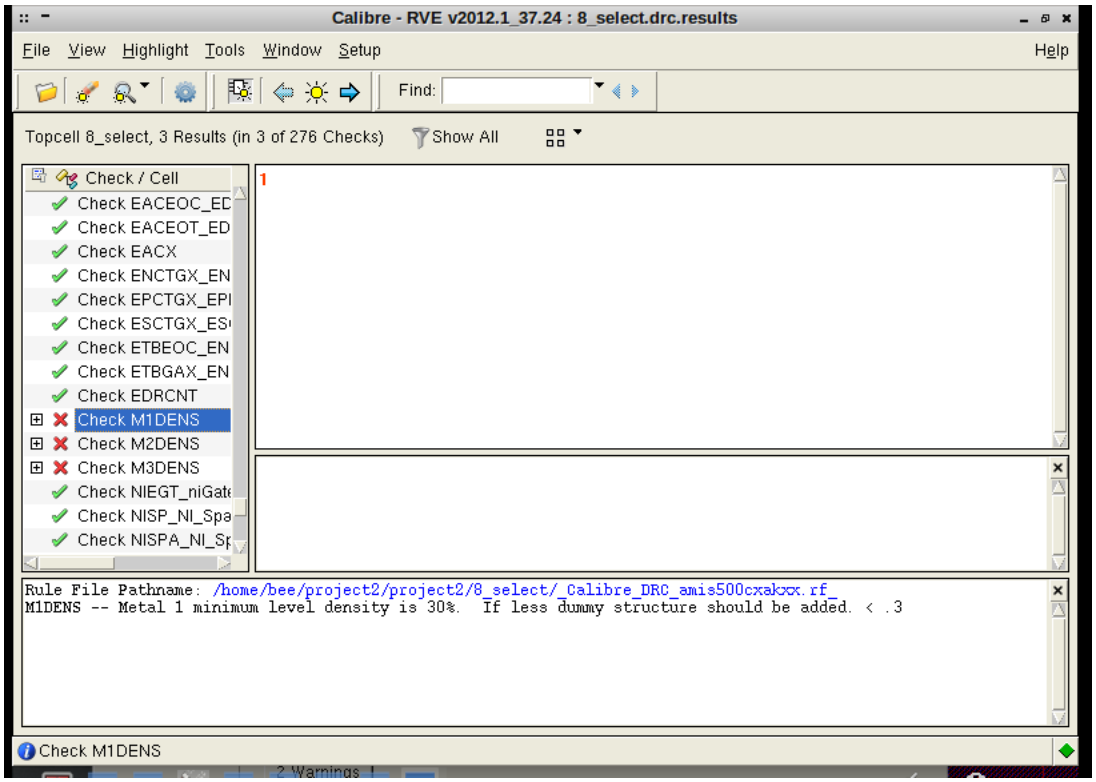
(i) schemetic:



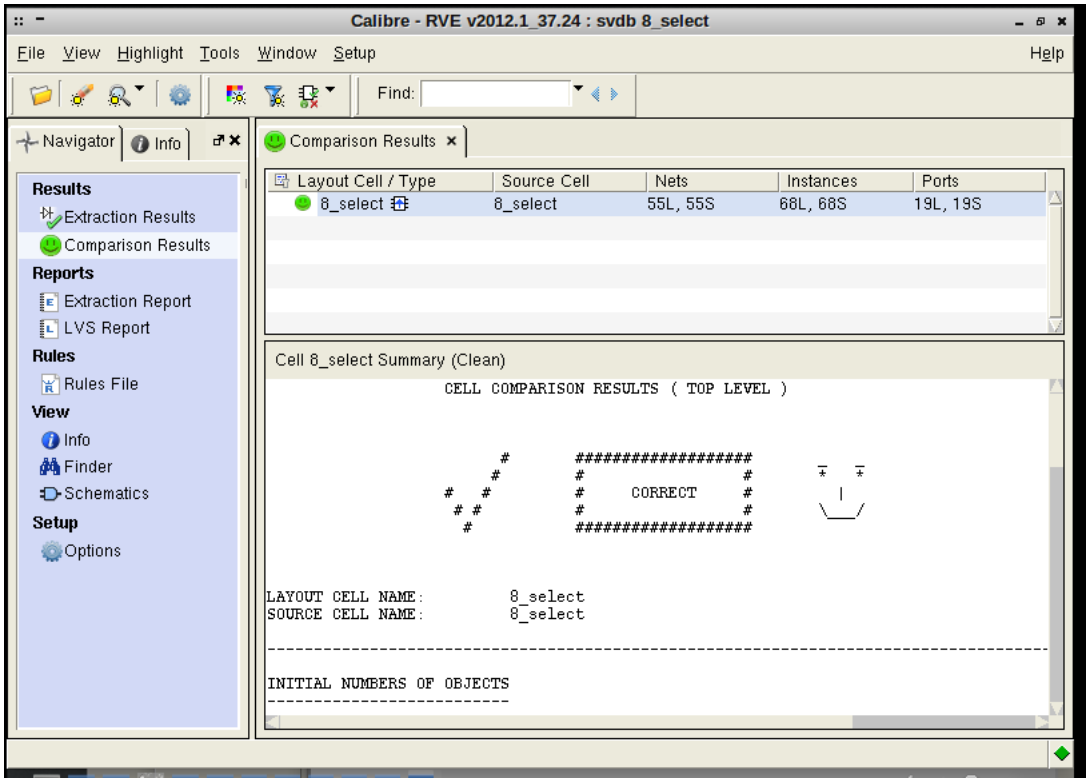
Layout:


Virtuoso® Layout Editing: project2 8_select layout
X: 211.05
Y: 57.55
(F) Select: 1
DRD: OFF
dX: 101.45
dY: 43.80
Dist: 110.501
Tools Design Window Create Edit Verify Connectivity Options Routing Calibre Help
mouse L: mouseSingleSelectPt
M: leHiMousePopUp()
R:hiZoomAbsoluteScale(hiGetCurren

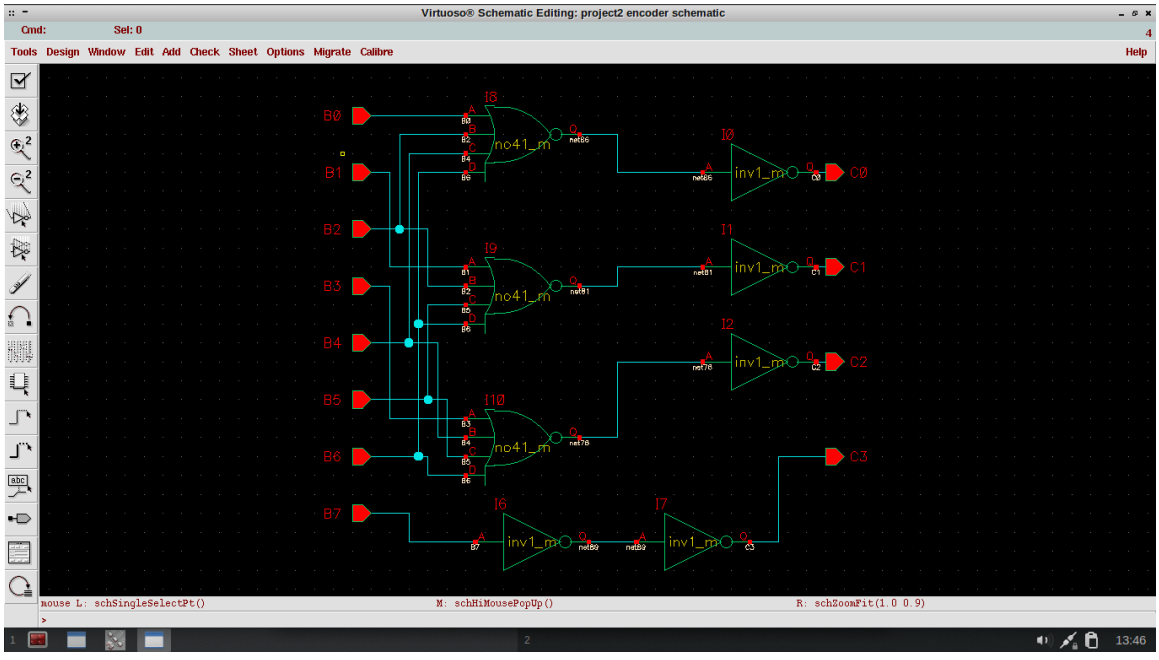
DRC:


Calibre - RVE v2012.1_37.24 : 8_select.drc.results
File View Highlight Tools Window Setup Help
Find:
Topcell 8_select, 3 Results (in 3 of 276 Checks)
Show All
Check / Cell
Check EACEOC_ED
Check EACEOT_ED
Check EACX
Check ENCTGX_EN
Check EPCTGX_EPI
Check ESCTGX_ES
Check ETBEOC_EN
Check ETBGAX_EN
Check EDRCNT
Check M1DENS
Check M2DENS
Check M3DENS
Check NIEGT_niGate
Check NISP_NI_Spa
Check NISPA_NI_Sp
Rule File Pathname: /home/bee/project2/project2/8_select/_Calibre_DRC_amis500cxakxx.rf_
M1DENS -- Metal 1 minimum level density is 30%. If less dummy structure should be added. < .3
Check M1DENS
2 Warnings

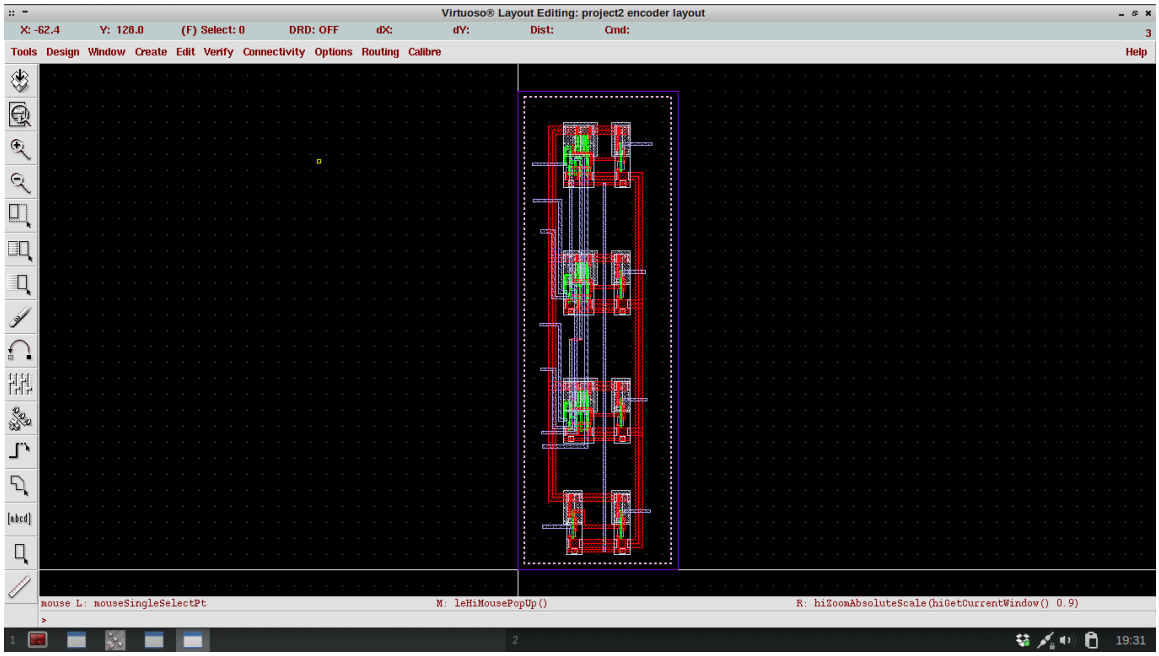
LVS:



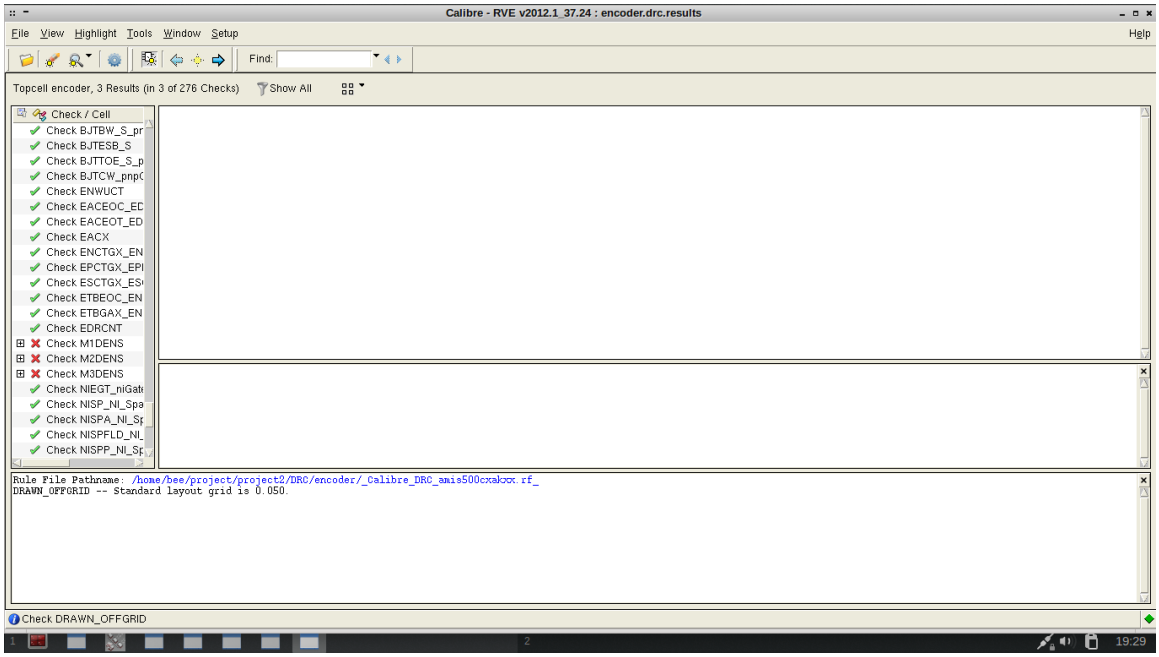
(ii) Schematic:



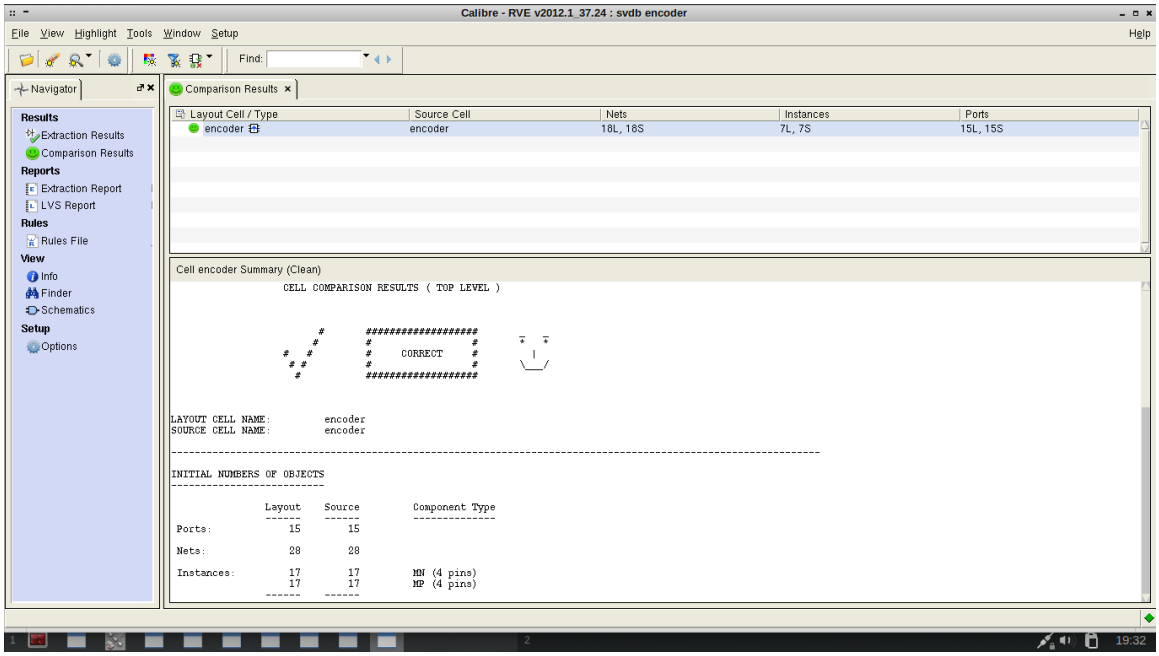
Layout:


Virtuoso® Layout Editing: project2 encoder layout
X: -62.4
Y: 128.0
(F) Select: 0
DRD: OFF
dX:
dY:
Dist:
Cmd:
Tools Design Window Create Edit Verify Connectivity Options Routing Calibre
Help
mouse L: mouseSingleSelectPt
M: leHiMousePopUp()
R: hiZoomAbsoluteScale(hiGetCurrentWindow() 0.9)
19:31

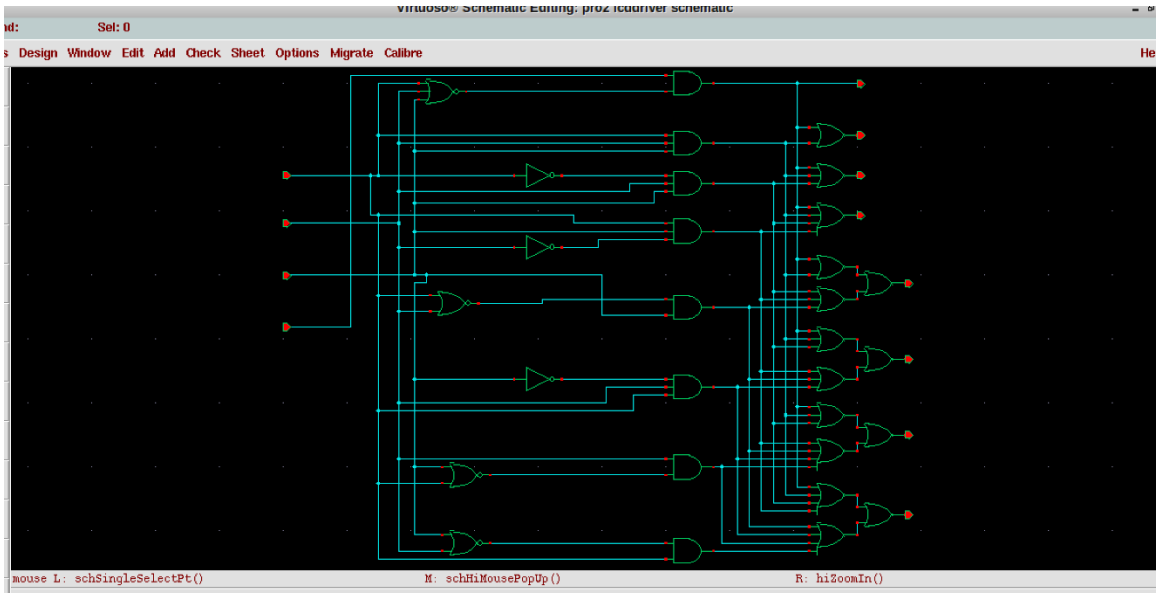
DRC:


Calibre - RVE v2012.1_37.24 : encoder.drc.results
File View Highlight Tools Window Setup
Help
Find:
Topcell encoder, 3 Results (in 3 of 276 Checks)
Show All
Check / Cell
Check BJTBW_S_pr
Check BJTESB_S
Check BJTTOE_S_p
Check BJTCW_pnpC
Check ENWUCT
Check EACEOC_ED
Check EACEOT_ED
Check EACX
Check ENCTGX_EN
Check EPCTGX_EPI
Check ESCTGX_ESI
Check ETBEOC_EN
Check ETBGAX_EN
Check EDRCNT
Check M1DENS
Check M2DENS
Check M3DENS
Check NIEGT_niGate
Check NISP_NI_Spa
Check NISPA_NI_Sp
Check NISPFLD_NI_
Check NISPP_NI_Sp
Rule File Pathname: /home/bee/project/project2/DRC/encoder/_Calibre_DRC_amis500cxakccx.rf_
DRAWN_OFFGRID -- Standard layout grid is 0.050.
Check DRAWN_OFFGRID
19:29

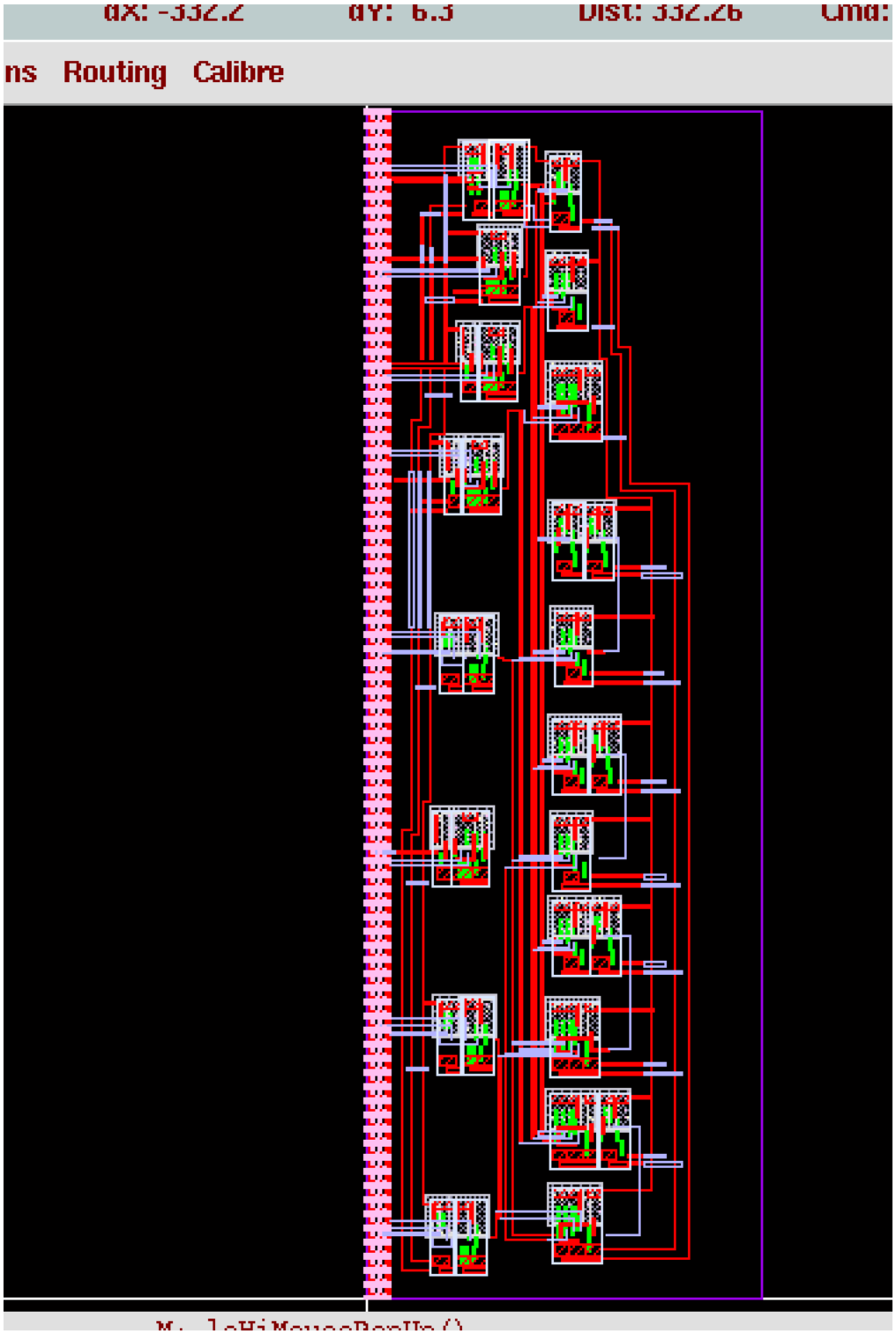
LVS:



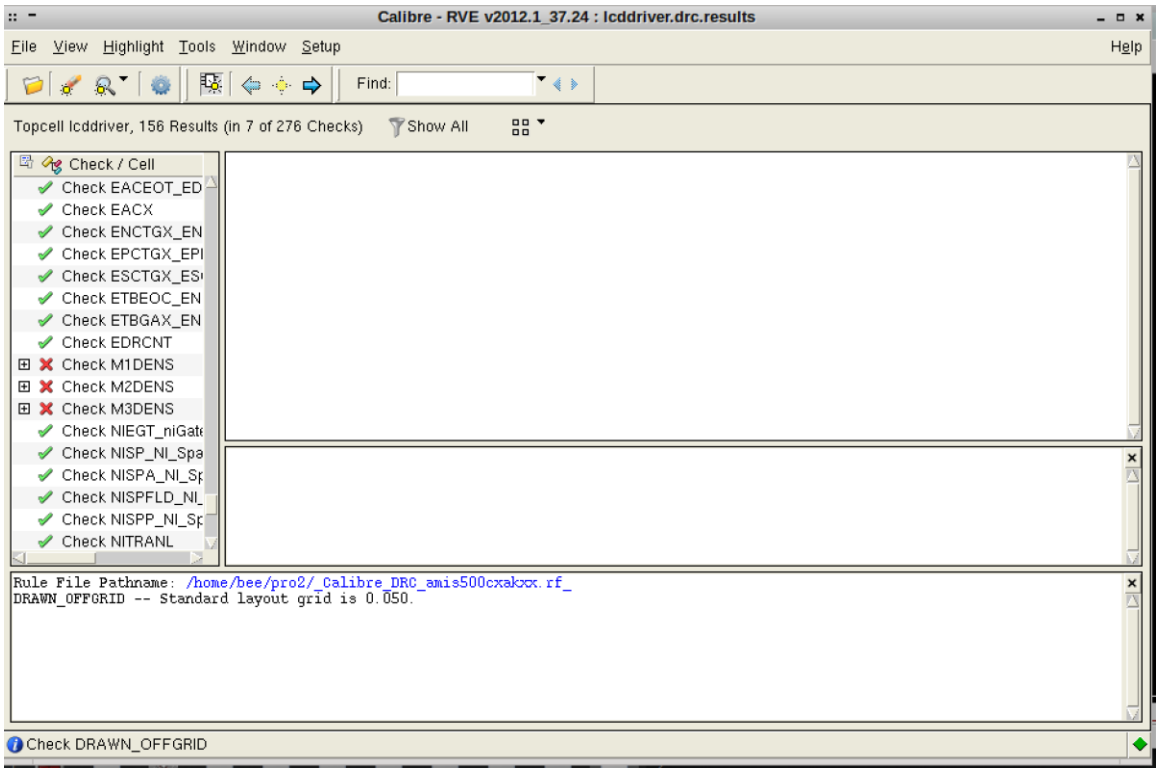
(iii) Schematic:



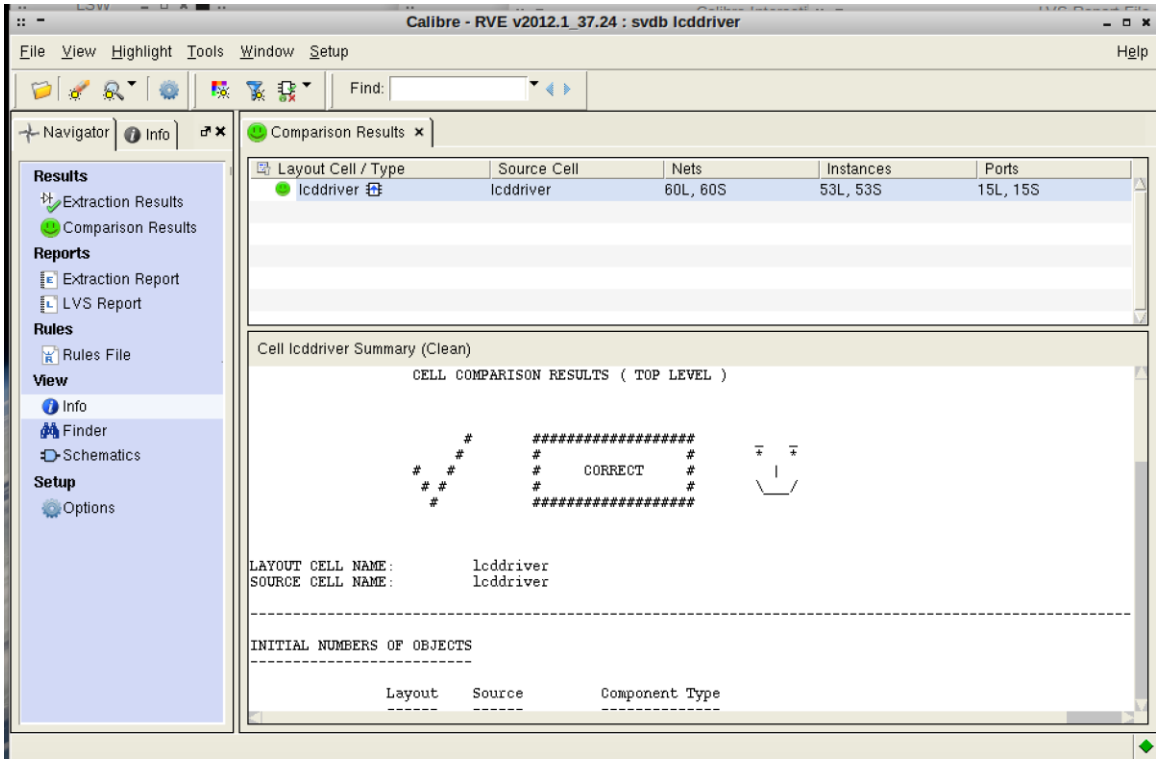
Layout:



DRC:


Calibre - RVE v2012.1_37.24 : lcddriver.drc.results
File View Highlight Tools Window Setup Help
Find:
Topcell lcddriver, 156 Results (in 7 of 276 Checks)
Show All
Check / Cell
Check EACEOT_ED
Check EACX
Check ENCTGX_EN
Check EPCTGX_EPI
Check ESCTGX_ES
Check ETBEOC_EN
Check ETBGAX_EN
Check EDRCNT
Check M1DENS
Check M2DENS
Check M3DENS
Check NIEGT_niGat
Check NISP_NI_Spa
Check NISPA_NI_Sp
Check NISPFLD_NI_
Check NISPP_NI_Sp
Check NITRANL
Rule File Pathname: /home/bee/pro2/_Calibre_DRC_amis500cxakxx.rf_
DRAWN_OFFGRID -- Standard layout grid is 0.050.
Check DRAWN_OFFGRID

LVS:


Calibre - RVE v2012.1_37.24 : svdb lcddriver
File View Highlight Tools Window Setup Help
Find:
Navigator
Info
Results
Extraction Results
Comparison Results
Reports
Extraction Report
LVS Report
Rules
Rules File
View
Info
Finder
Schematics
Setup
Options
Comparison Results
Layout Cell / Type
Source Cell
Nets
Instances
Ports
lcddriver
lcddriver
60L, 60S
53L, 53S
15L, 15S
Cell lcddriver Summary (Clean)
CELL COMPARISON RESULTS (TOP LEVEL)
CORRECT
LAYOUT CELL NAME: lcddriver
SOURCE CELL NAME: lcddriver
INITIAL NUMBERS OF OBJECTS
Layout
Source
Component Type