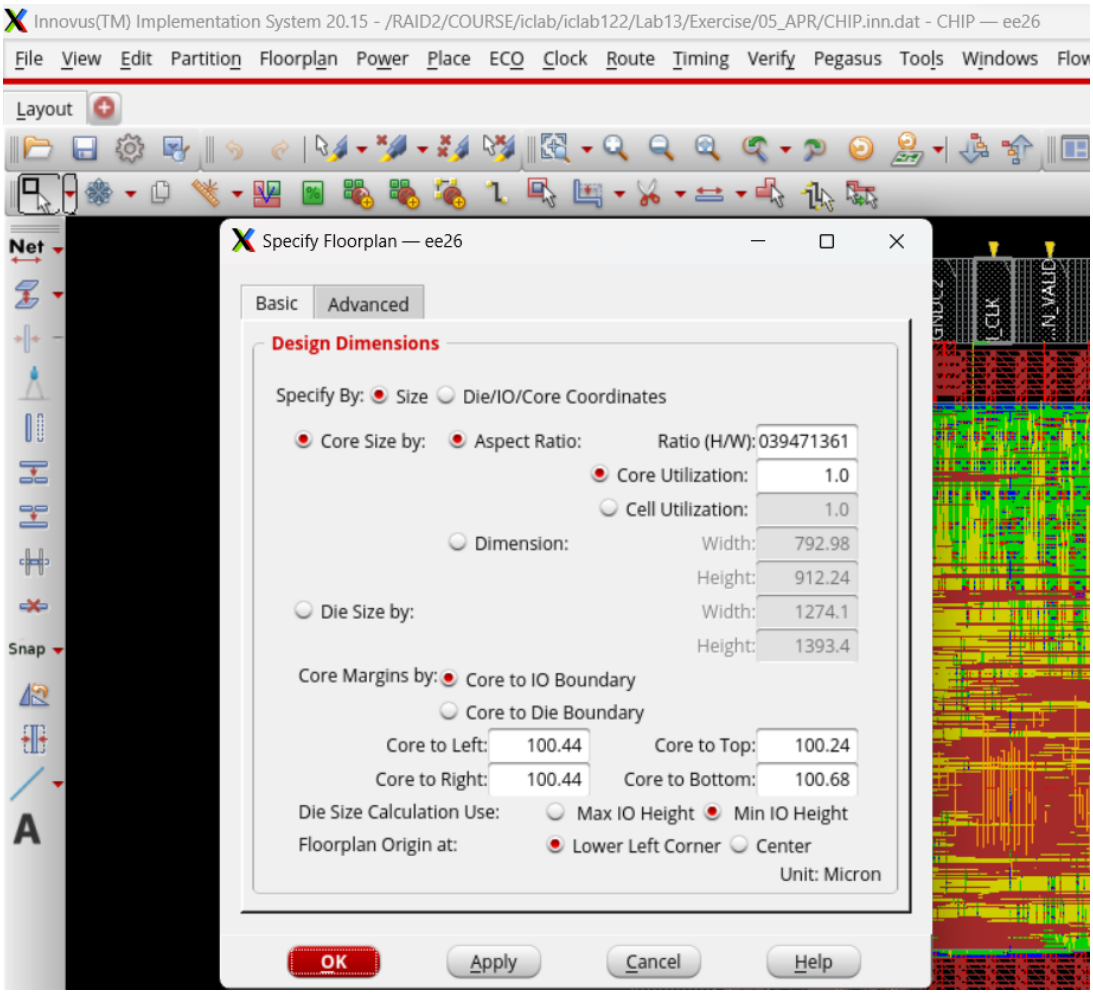
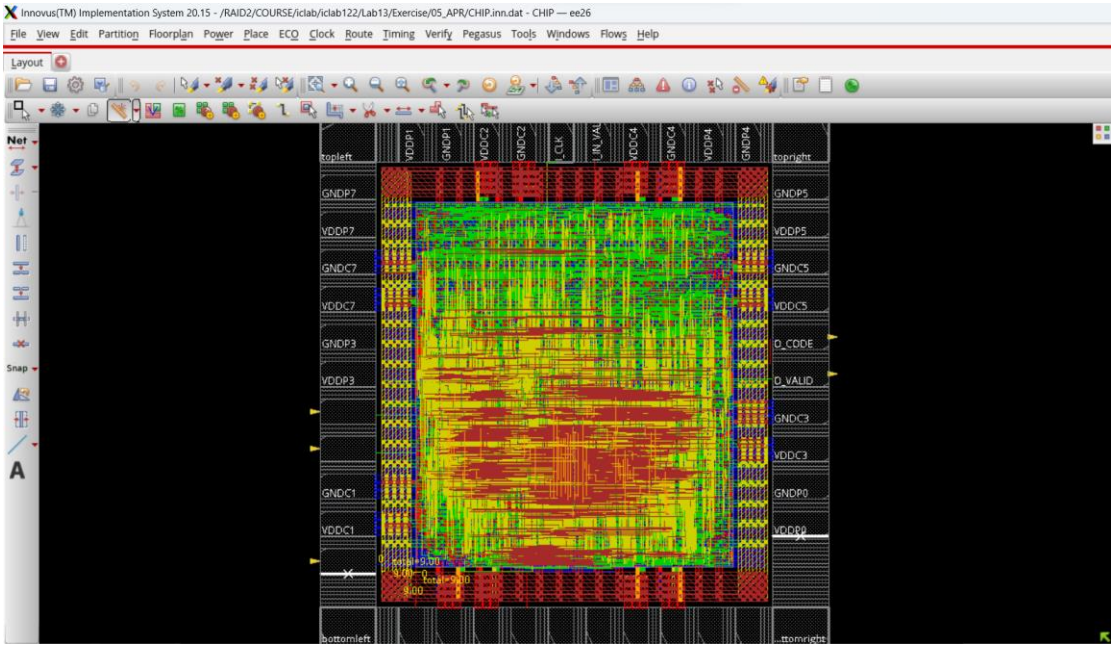
Report

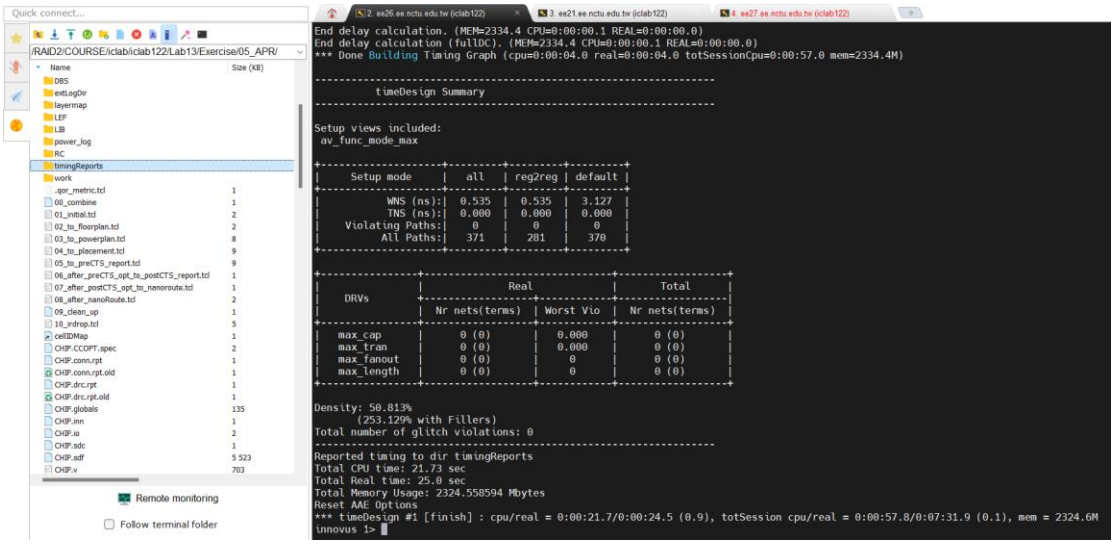
1. Core to IO boundary :



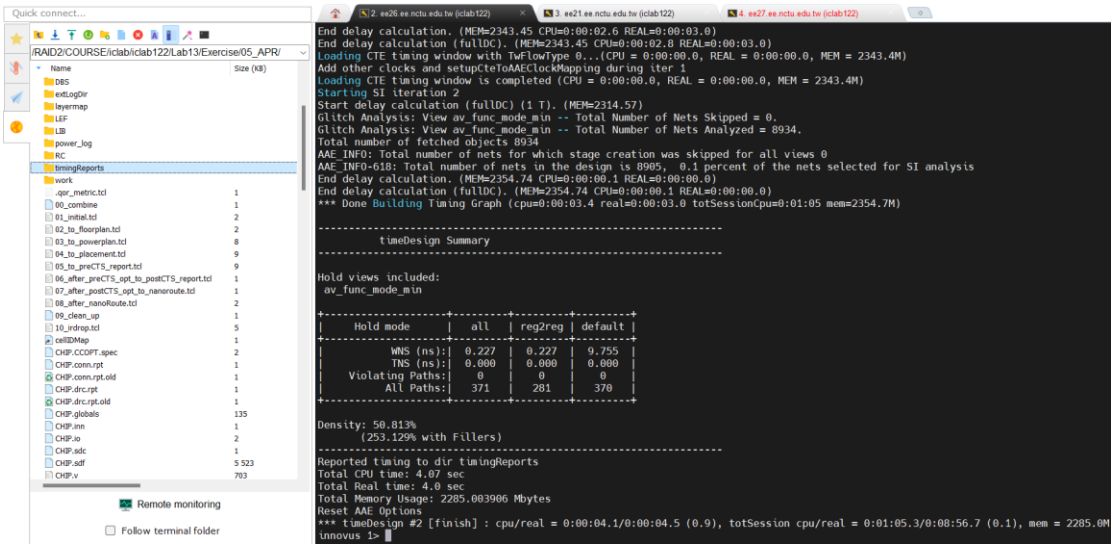
2. Core Ring :



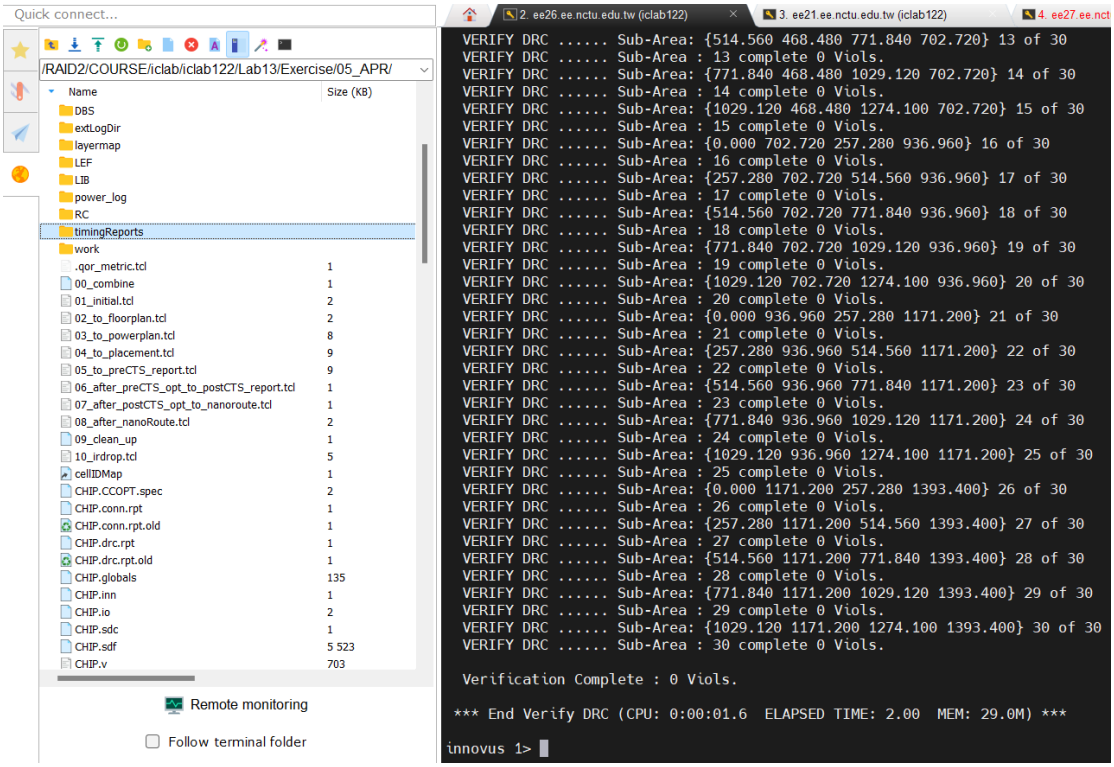
3. Post-Route setup time analysis :



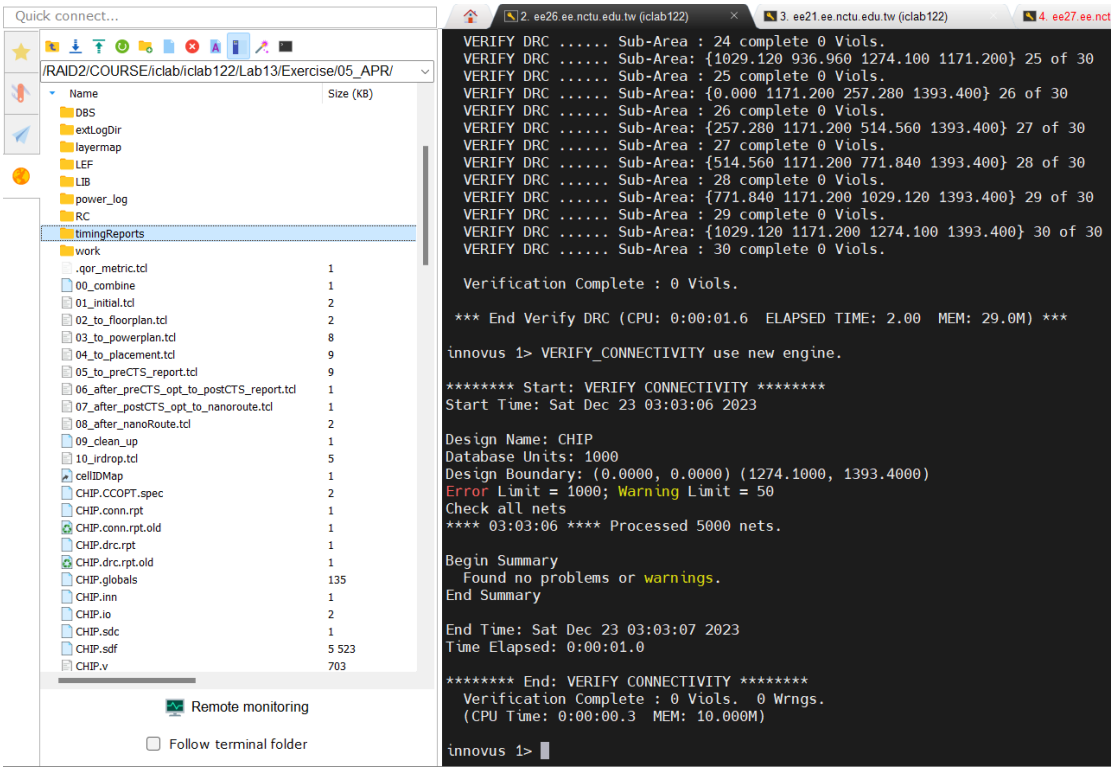
4. Post-Route hold time analysis :



5. DRC result :



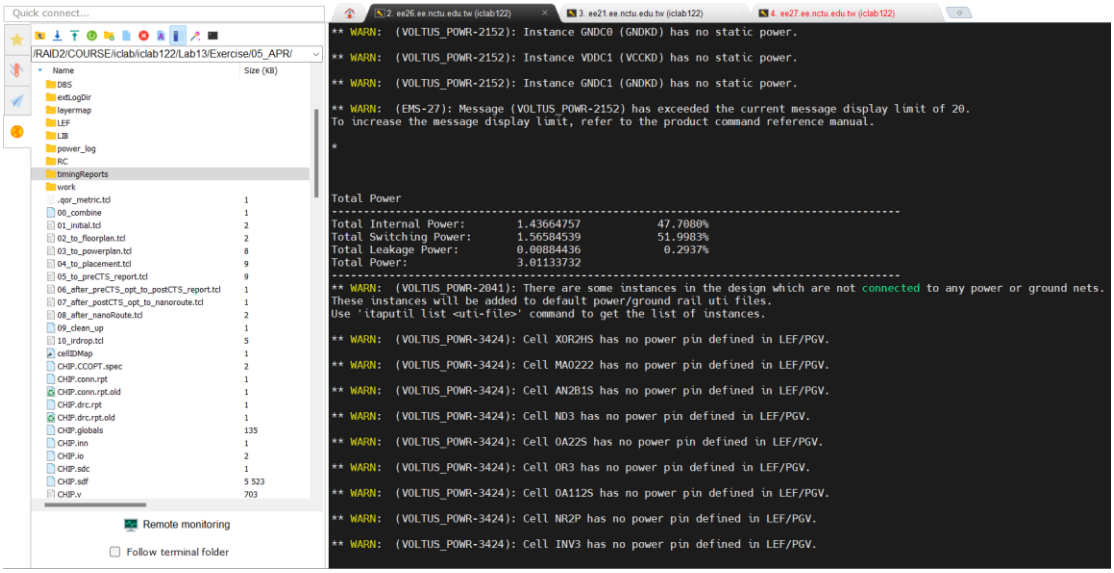
6. LVS result :



7. Post Layout simulation result :

```
PASS PATTERN NO.1983
PASS PATTERN NO.1984
PASS PATTERN NO.1985
PASS PATTERN NO.1986
PASS PATTERN NO.1987
PASS PATTERN NO.1988
PASS PATTERN NO.1989
PASS PATTERN NO.1990
PASS PATTERN NO.1991
PASS PATTERN NO.1992
PASS PATTERN NO.1993
PASS PATTERN NO.1994
PASS PATTERN NO.1995
PASS PATTERN NO.1996
PASS PATTERN NO.1997
PASS PATTERN NO.1998
PASS PATTERN NO.1999
--------------------------------------------------------------------
                    Congratulations!
                You have passed all patterns!
                Your execution cycles = 32000 cycles
                Your clock period = 20.0 ns
                Total Latency = 640000.0 ns
--------------------------------------------------------------------
$finish called from file "PATTERN.v", line 36.
$finish at simulation time          1819630000
          V C S   S i m u l a t i o n   R e p o r t
Time: 1819630000 ps
CPU Time:     26.870 seconds;       Data structure size:   2.2Mb
Sat Dec 23 03:04:11 2023
CPU time: 1.686 seconds to compile + .398 seconds to elab + .604 seconds to link + 26.924 seconds in simulation
3:04 iclab122@ee21[~/Lab13/Exercise/06_POST]$
```

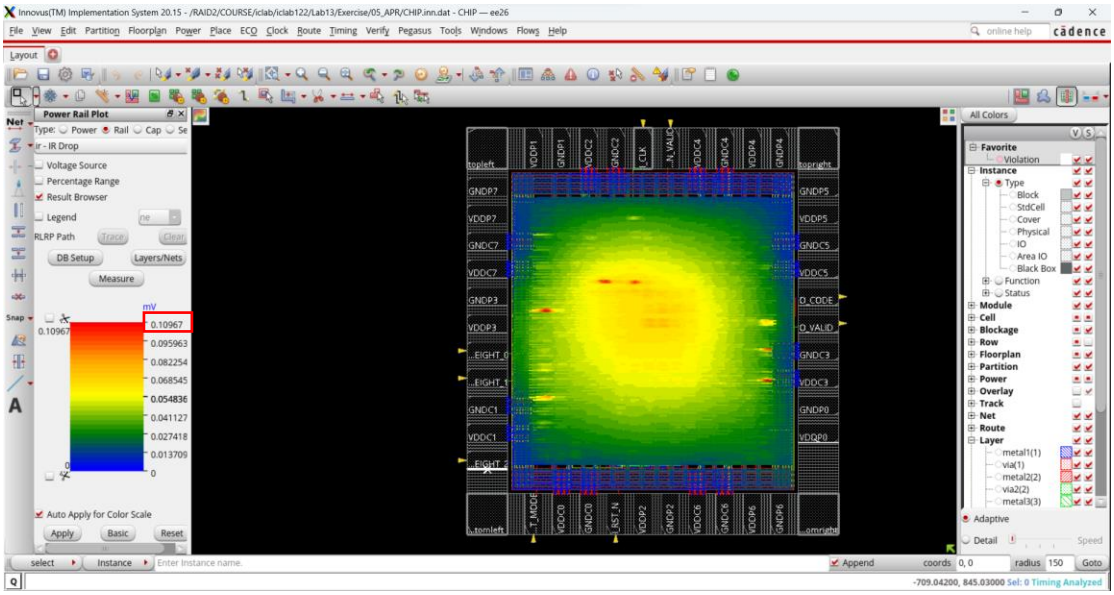
8. Power result :



9. IR Drop Results :

IR drop最大值為0.10967 mV

平均分配power pad，將stripe之間的間距縮小，都可以使IR drop的最大值降低。


Innovus(TM) Implementation System 20.15 - /RAID2/COURSE/iclab/iclab122/Lab13/Exercise/05_APR/CHIP.inn.dat - CHIP — ee26
File View Edit Partition Floorplan Power Place ECO Clock Route Timing Verify Pegasus Tools Windows Flows Help
cadence
Layout
Power Rail Plot
Type: Power Rail Cap
ir - IR Drop
Voltage Source
Percentage Range
Result Browser
Legend
RLRP Path
DB Setup
Layers/Nets
Measure
mV
0.10967
0.095963
0.082254
0.068545
0.054836
0.041127
0.027418
0.013709
0
Auto Apply for Color Scale
Apply
Basic
Reset
All Colors
Favorite
Violation
Instance
Type
Block
StdCell
Cover
Physical
IO
Area IO
Black Box
Function
Status
Module
Cell
Blockage
Row
Floorplan
Partition
Power
Overlay
Track
Net
Route
Layer
metal1(1)
via1(1)
metal2(2)
via2(2)
metal3(3)
Adaptive
Detail
Speed
select
Instance
Enter Instance name.
Append
coords 0, 0
radius 150
Goto
-709.04200, 845.03000 Sel: 0 Timing Analyzed