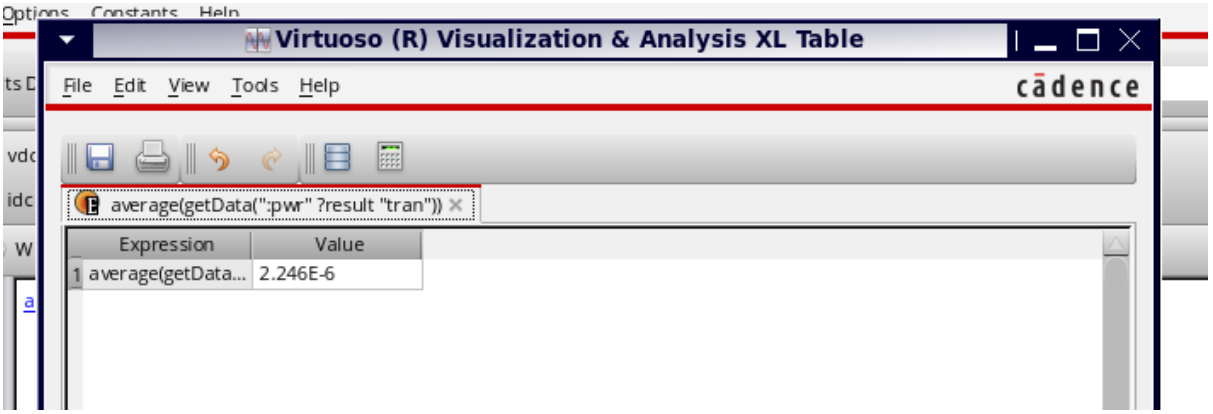
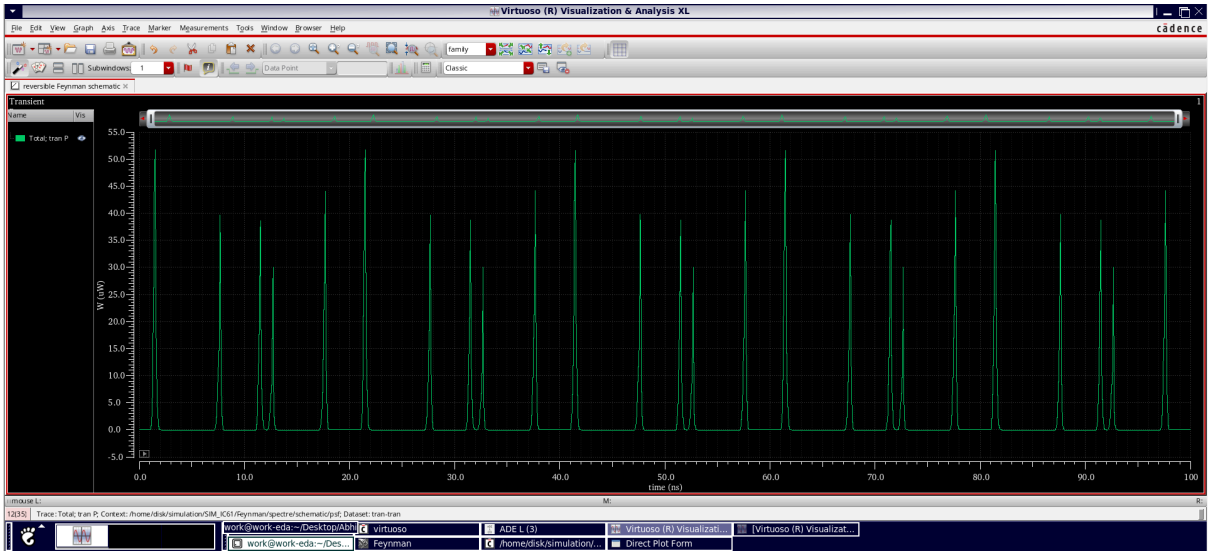
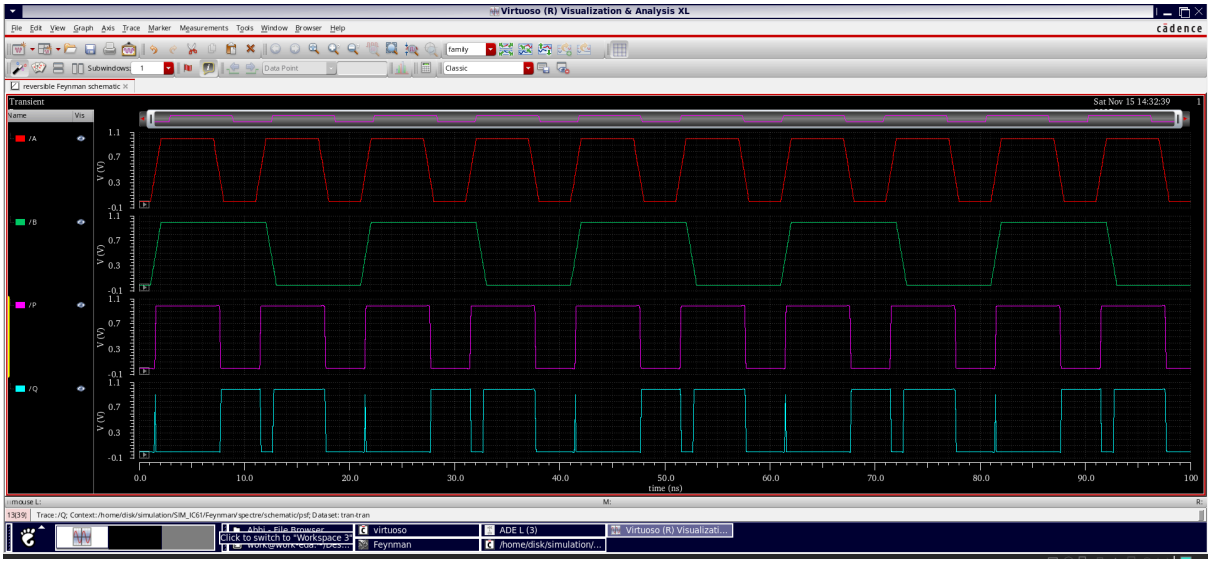
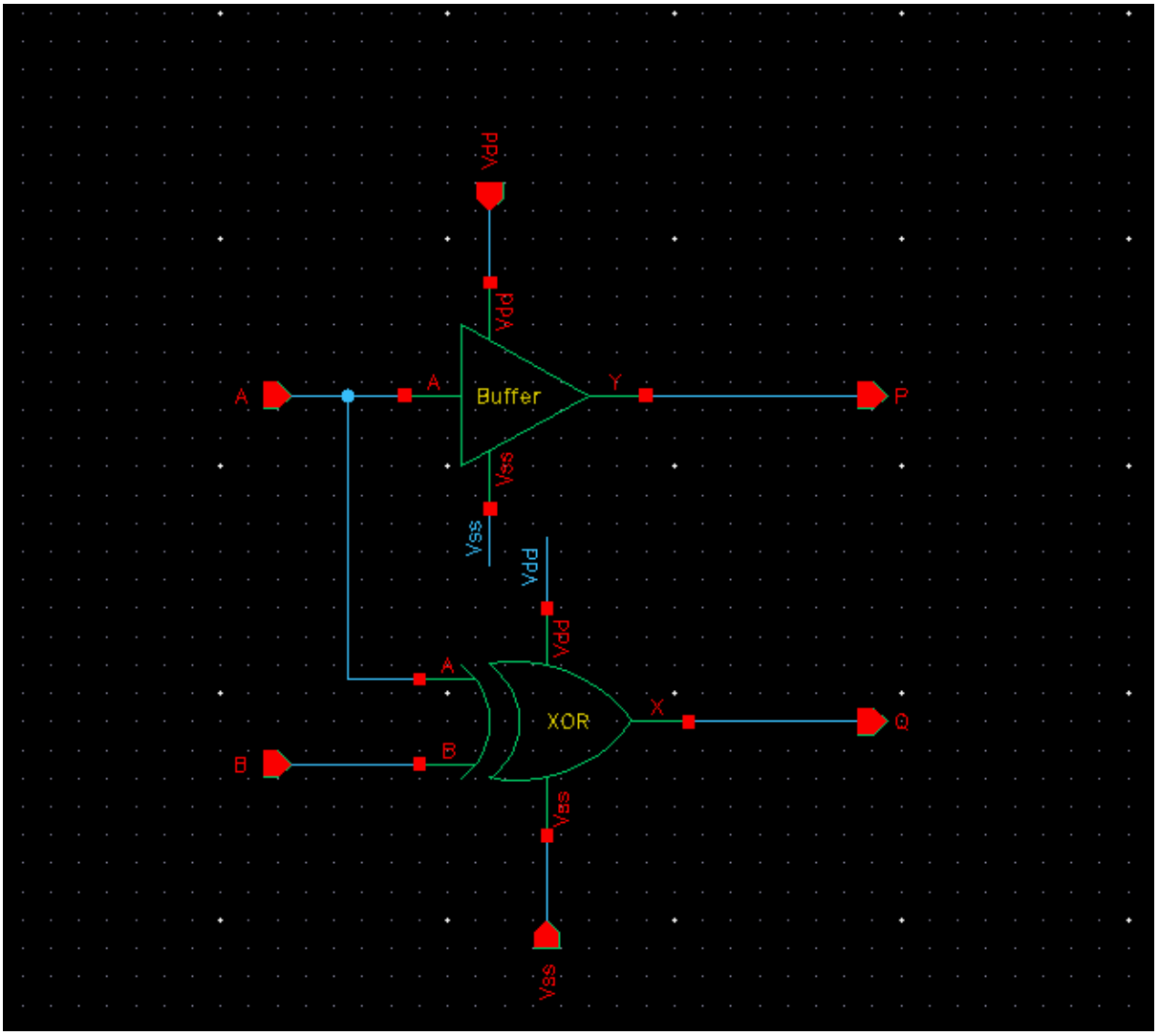
Feynman gate:

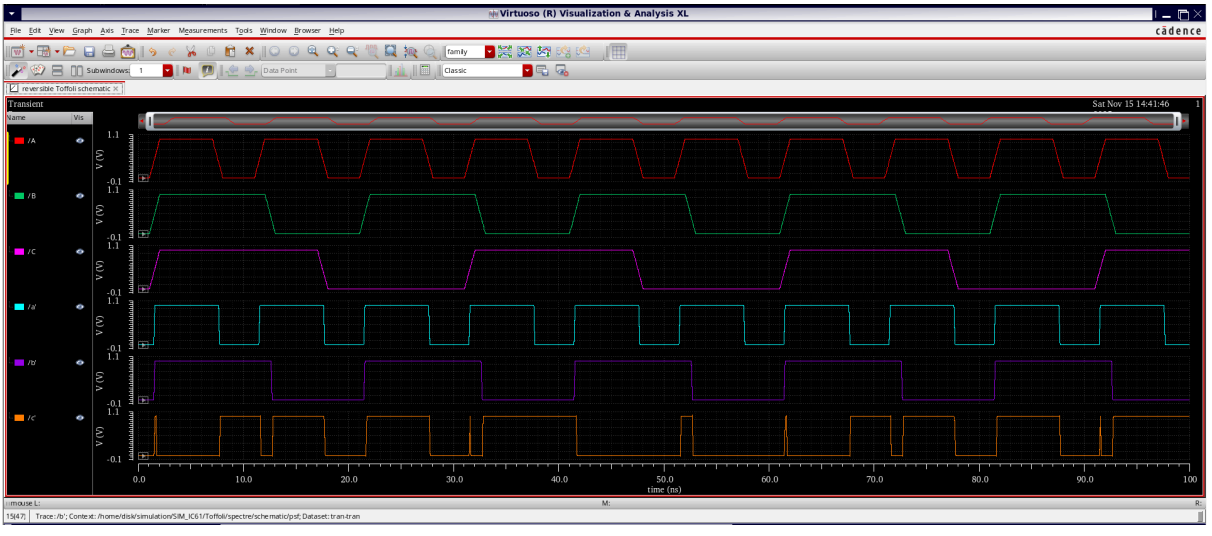


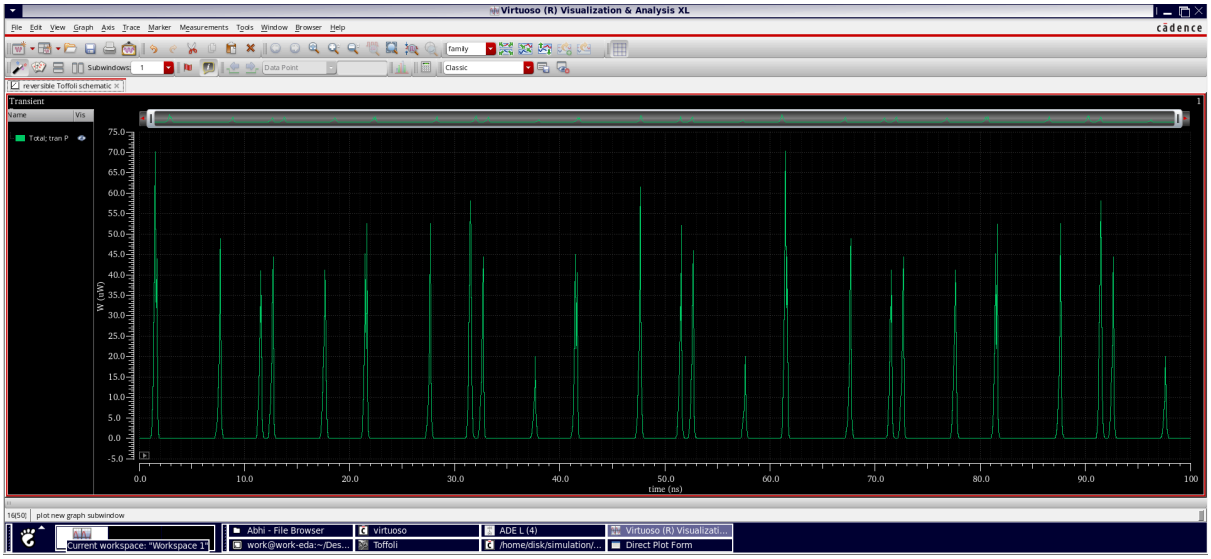


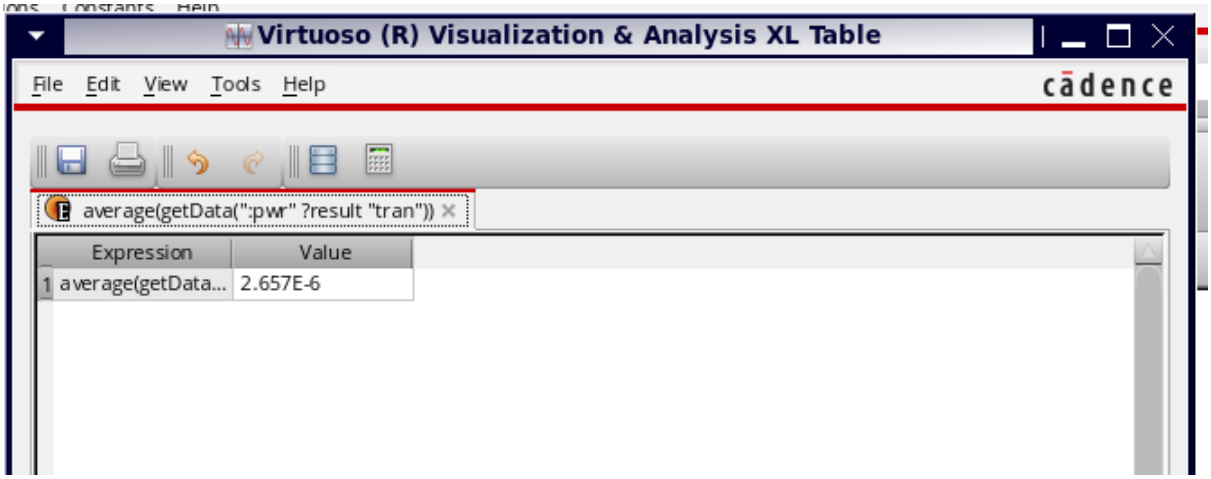




Toffoli Gate:




Virtuoso (R) Visualization & Analysis XL
File Edit View Graph Axis Trace Marker Measurements Tools Window Browser Help
cadence
Transient
Total: tran P
W (uW)
time (ns)
current workspace: "Workspace 1"
Abhi - File Browser
virtuoso
ADE L (4)
Virtuoso (R) Visualizati...
work@work-eda:~/Des...
Toffoli
/home/disk/simulation/...
Direct Plot Form


Virtuoso (R) Visualization & Analysis XL Table
File Edit View Tools Help
cadence
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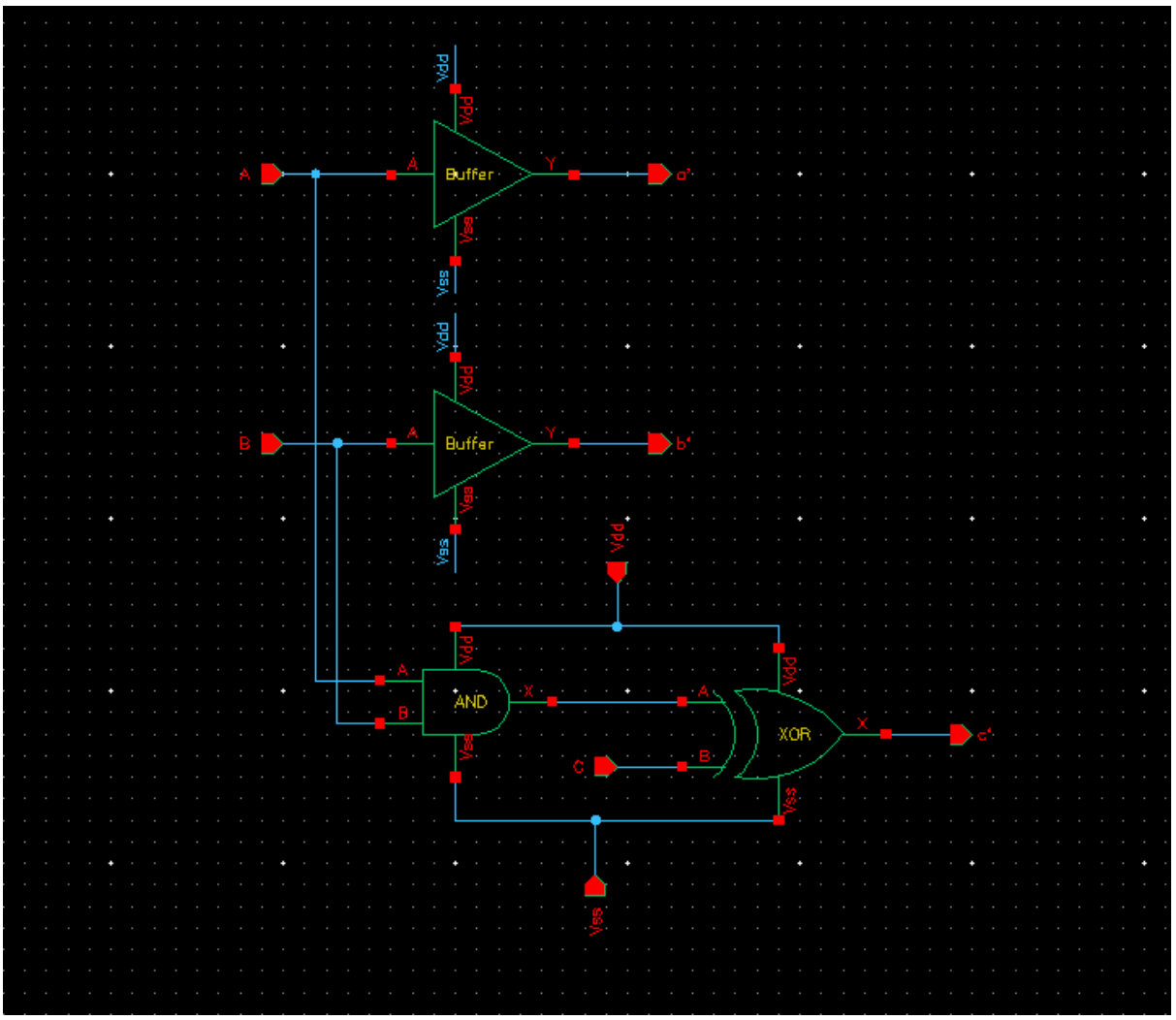
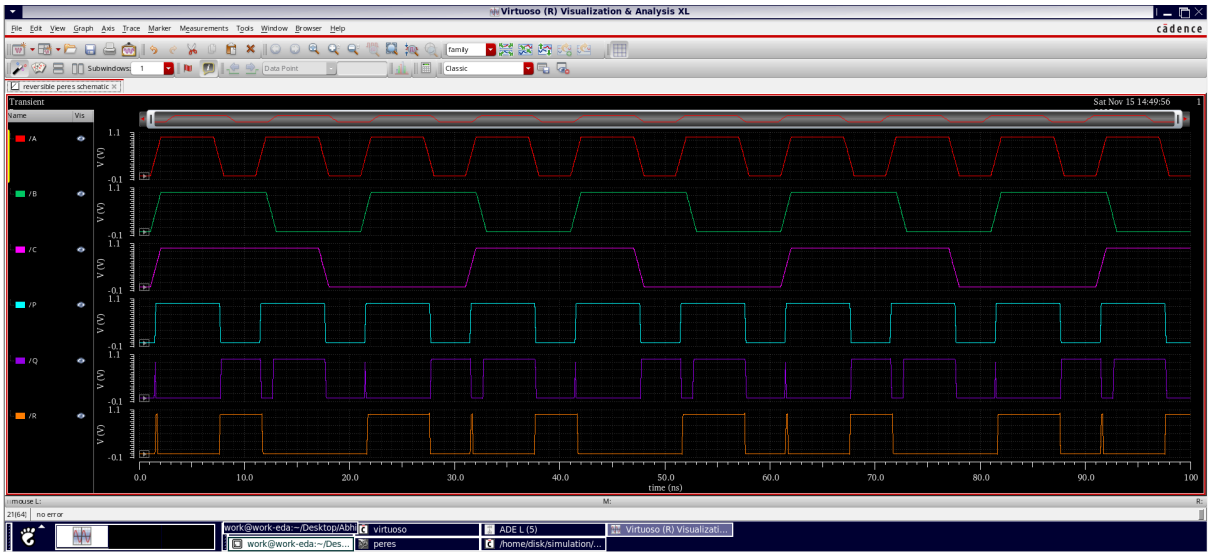
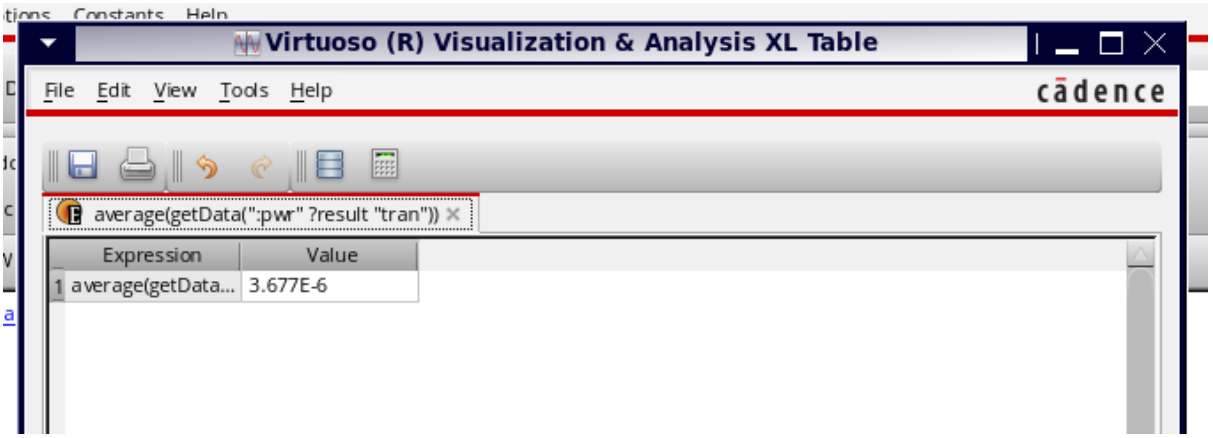
Expression
Value
1
average(getData...
2.657E-6


A
Buffer
Y
a'
B
Buffer
b'
Vdd
Vss
AND
XOR
C
X
c'

Peres gate:


Virtuoso (R) Visualization & Analysis XL
cadence
Transient
/A
/B
/C
/P
/Q
/R
time (ns)


Virtuoso (R) Visualization & Analysis XL Table
File Edit View Tools Help
cadence
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Expression
Value
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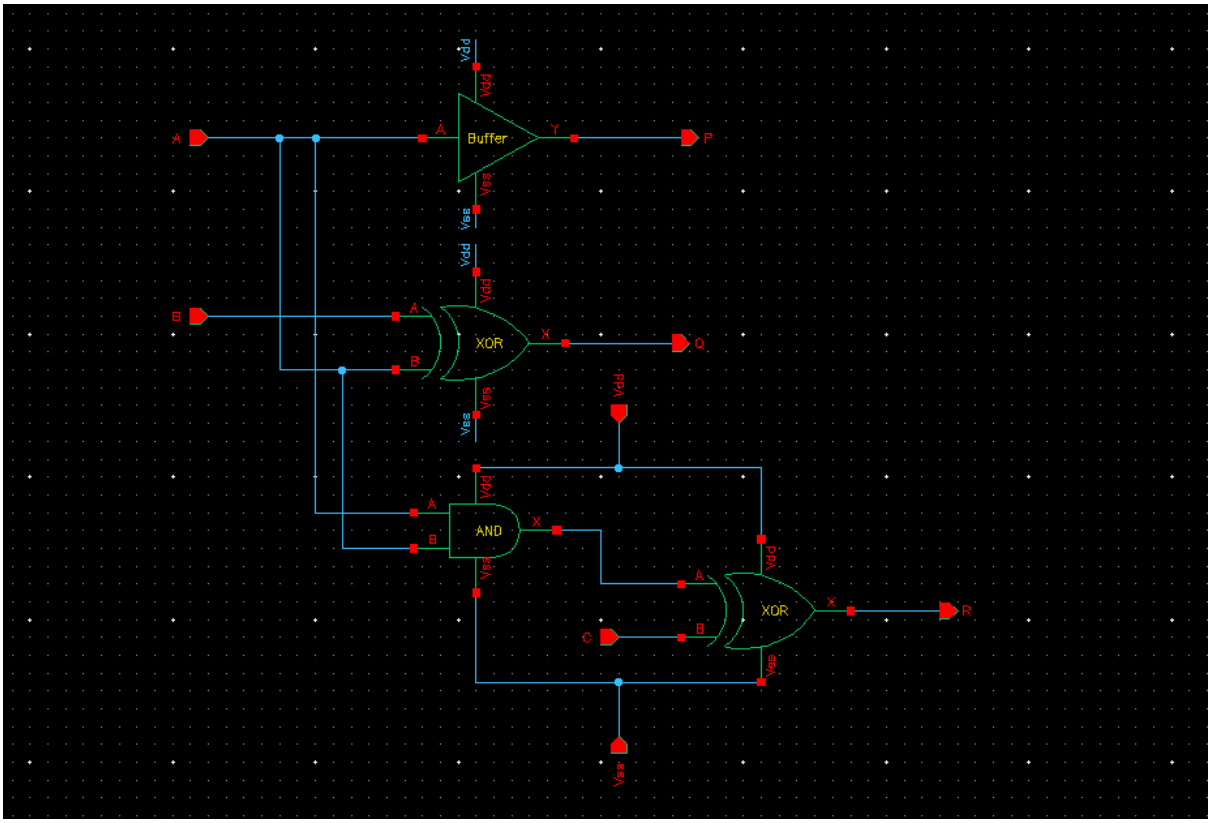
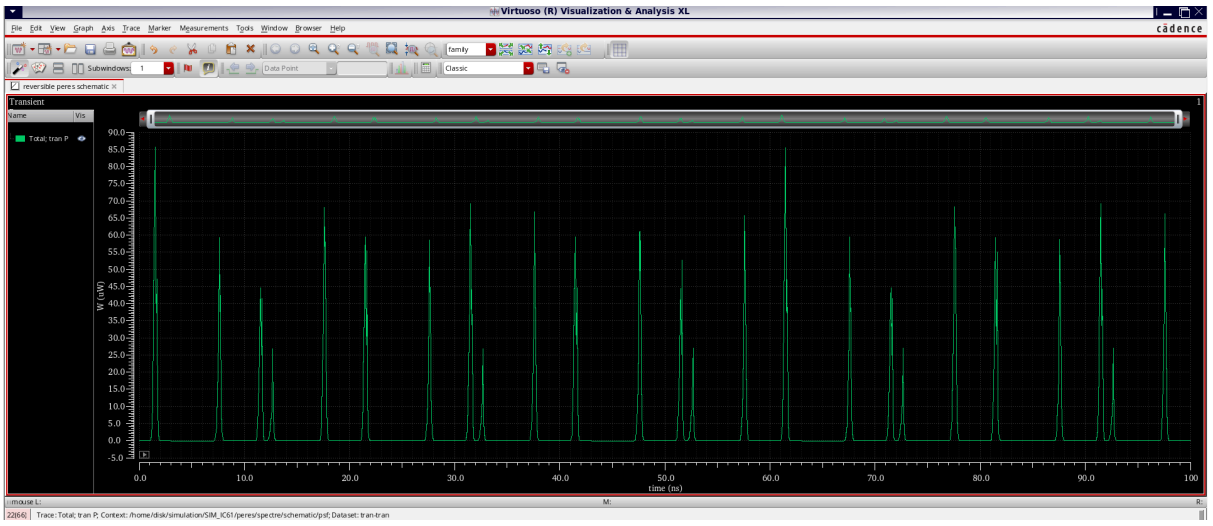
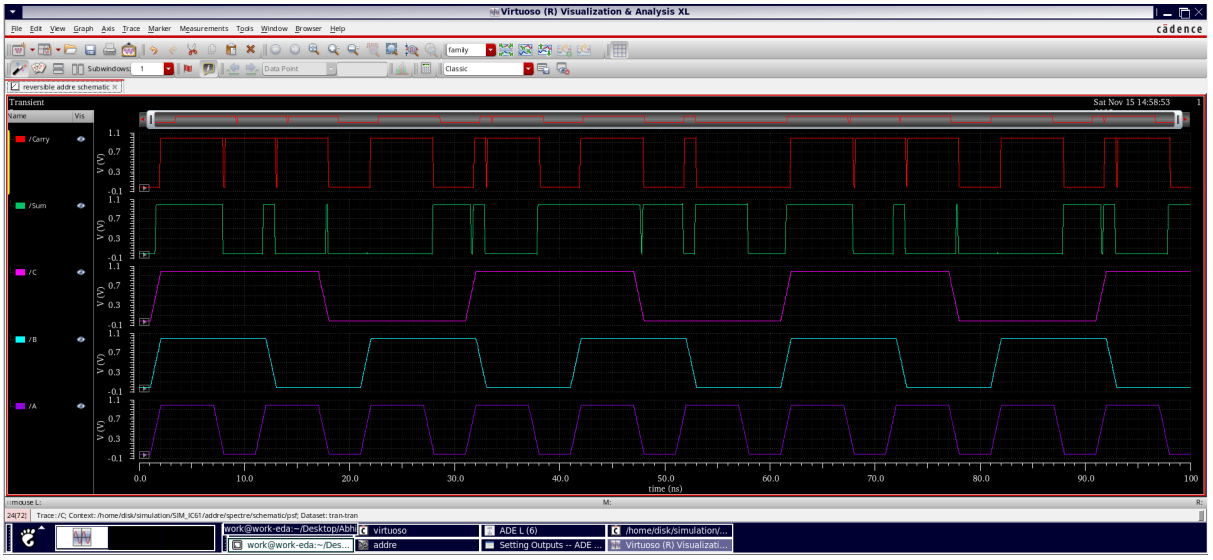
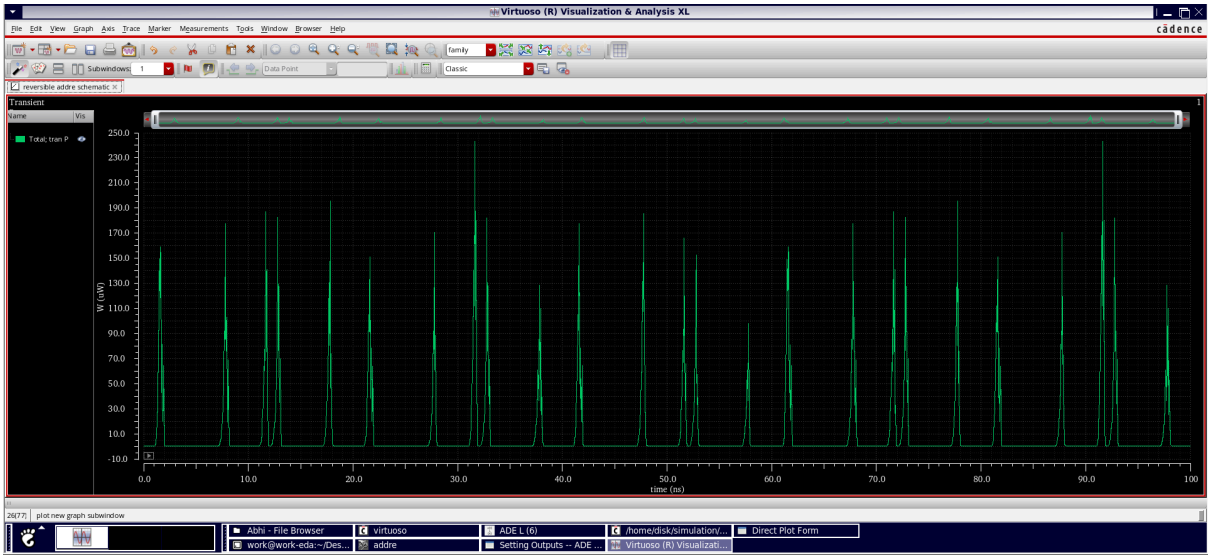
3.677E-6

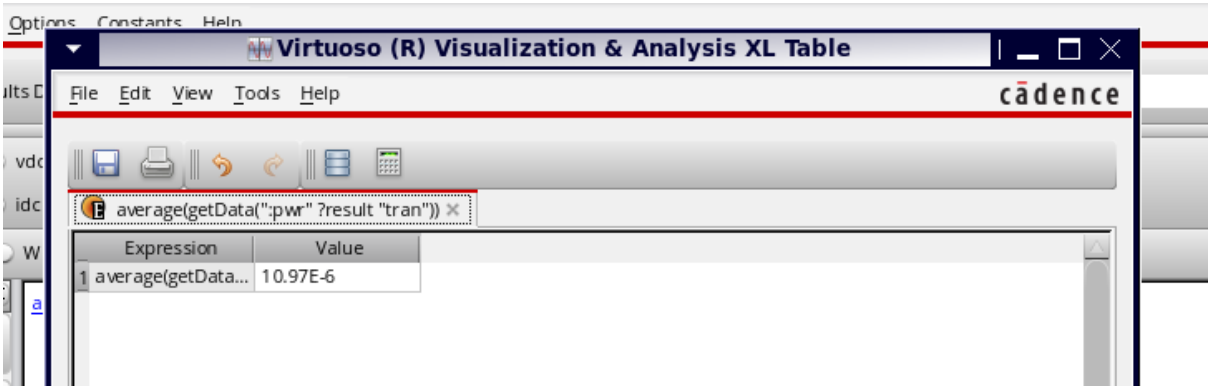

Vdd
Vss
A
B
C
Buffer
XOR
AND
XOR
Y
X
X
P
Q
R


Virtuoso (R) Visualization & Analysis XL
cadence
Transient
Total: tran P
W (uW)
time (ns)

Adder90nm:


Virtuoso (R) Visualization & Analysis XL
cadence
Transient
/Carry
/Sum
/C
/B
/A
V (V)
time (ns)


Virtuoso (R) Visualization & Analysis XL
cadence
Transient
Total; tran P
W (nW)
time (ns)


Virtuoso (R) Visualization & Analysis XL Table
File Edit View Tools Help
cadence
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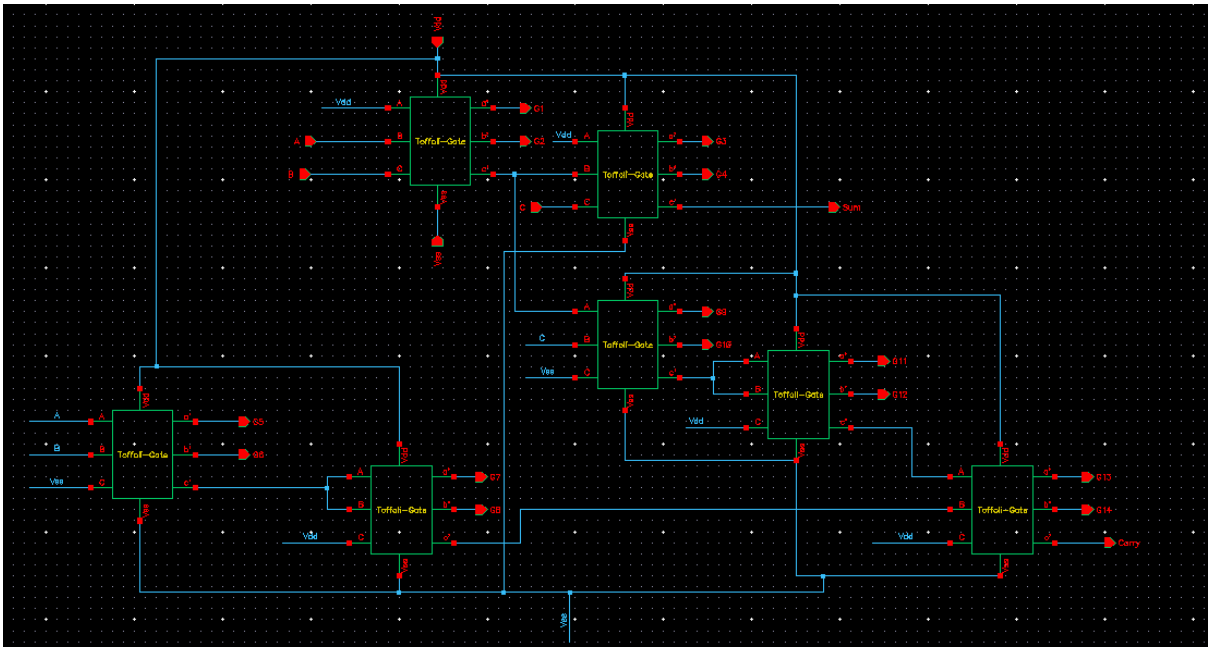
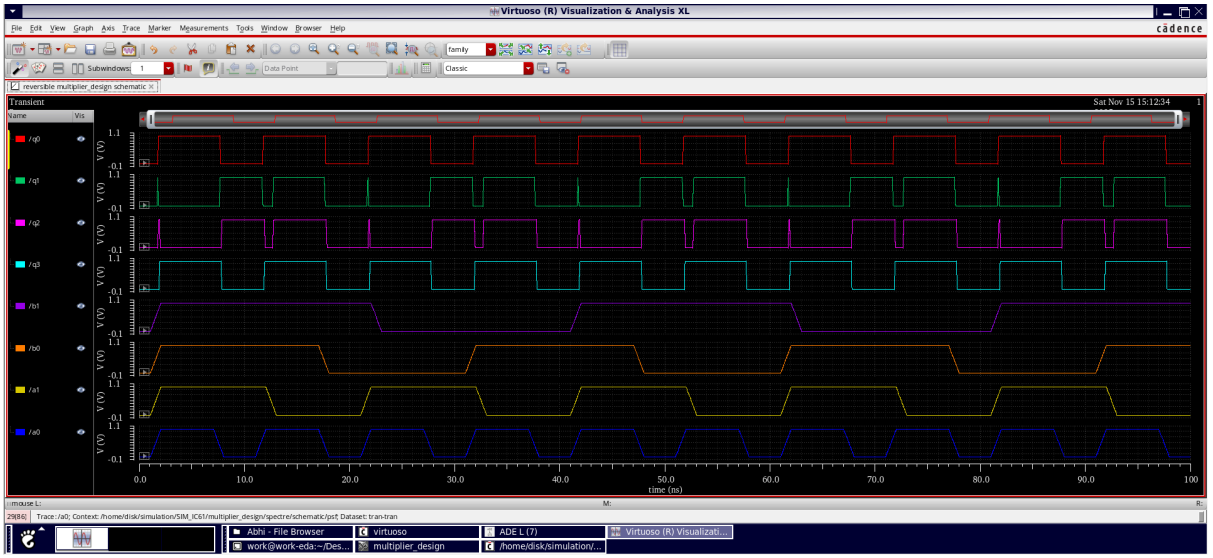
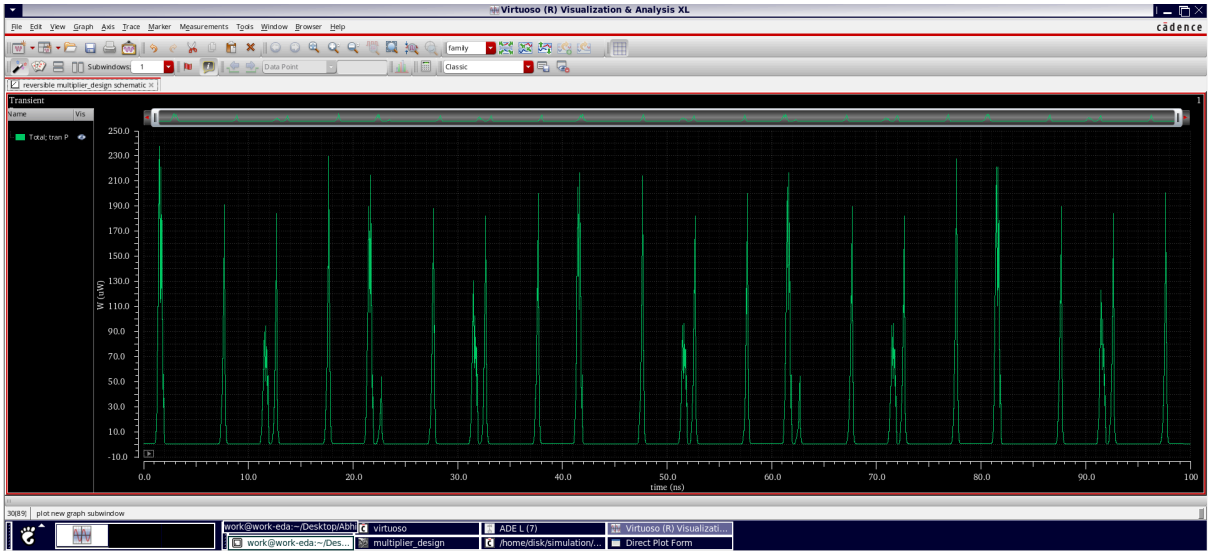
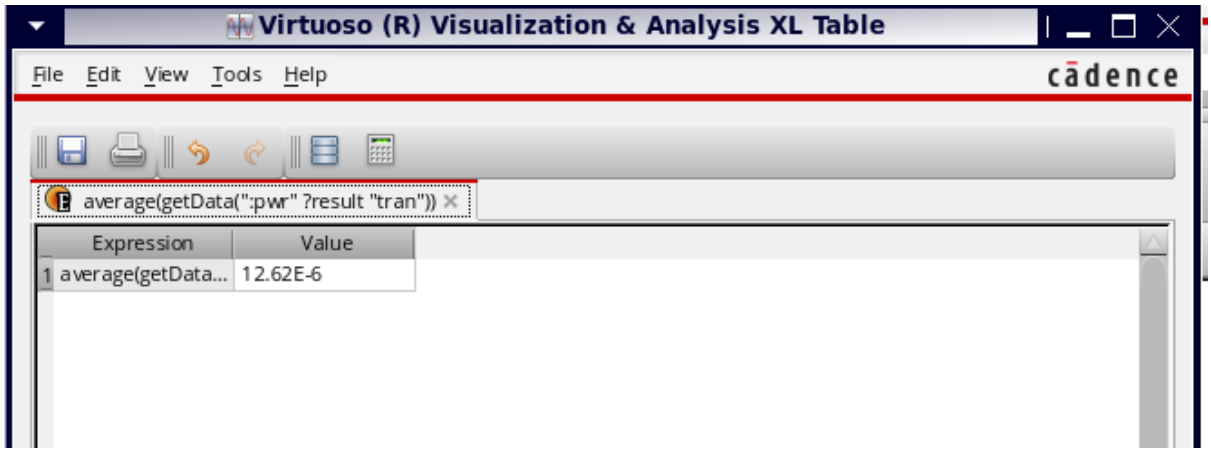
Expression
Value
1 average(getData...
10.97E-6



Multiplier_90nm:




Virtuoso (R) Visualization & Analysis XL
cadence
Transient
Total: tran P
W (uW)
time (ns)


Virtuoso (R) Visualization & Analysis XL Table
File Edit View Tools Help
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Expression
Value
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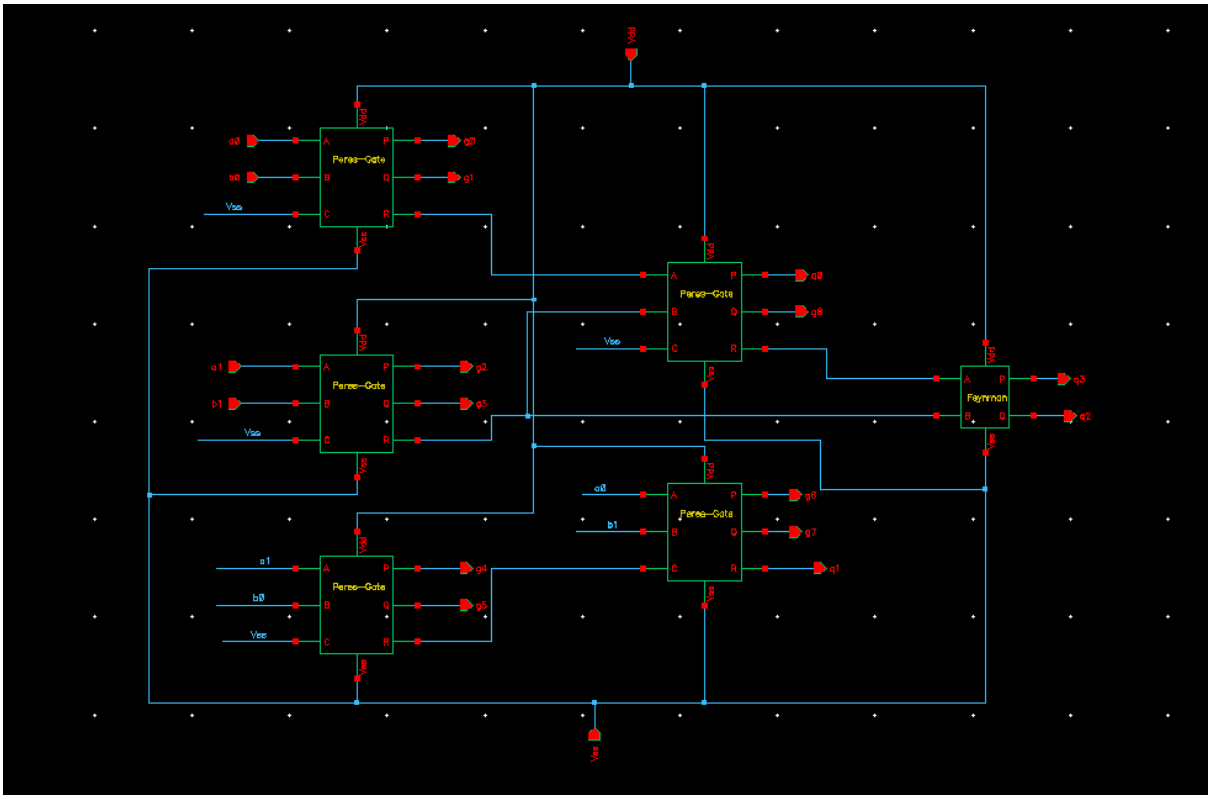
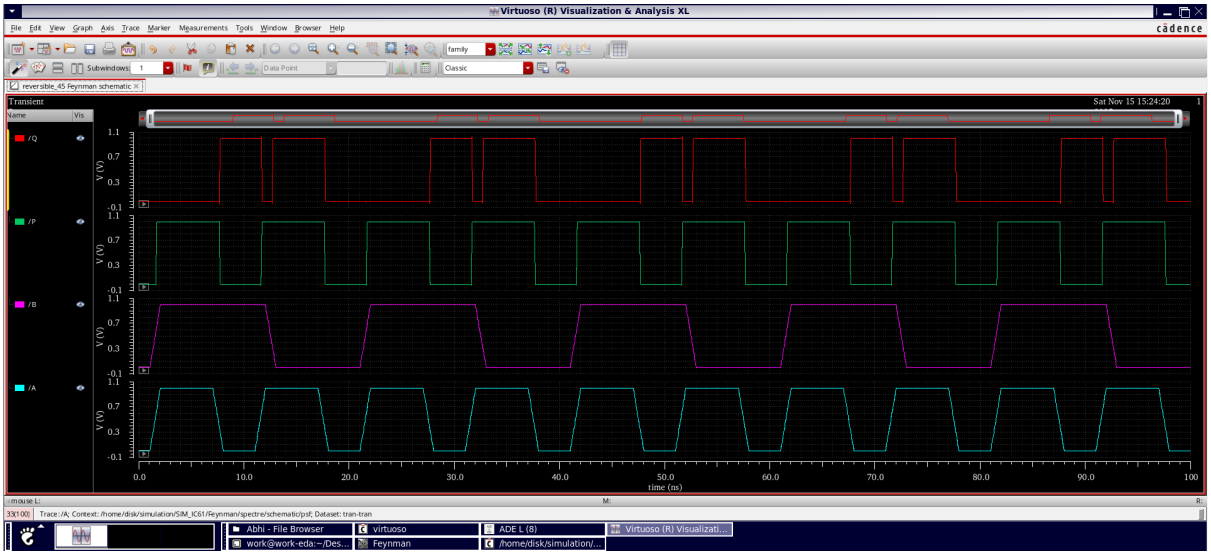
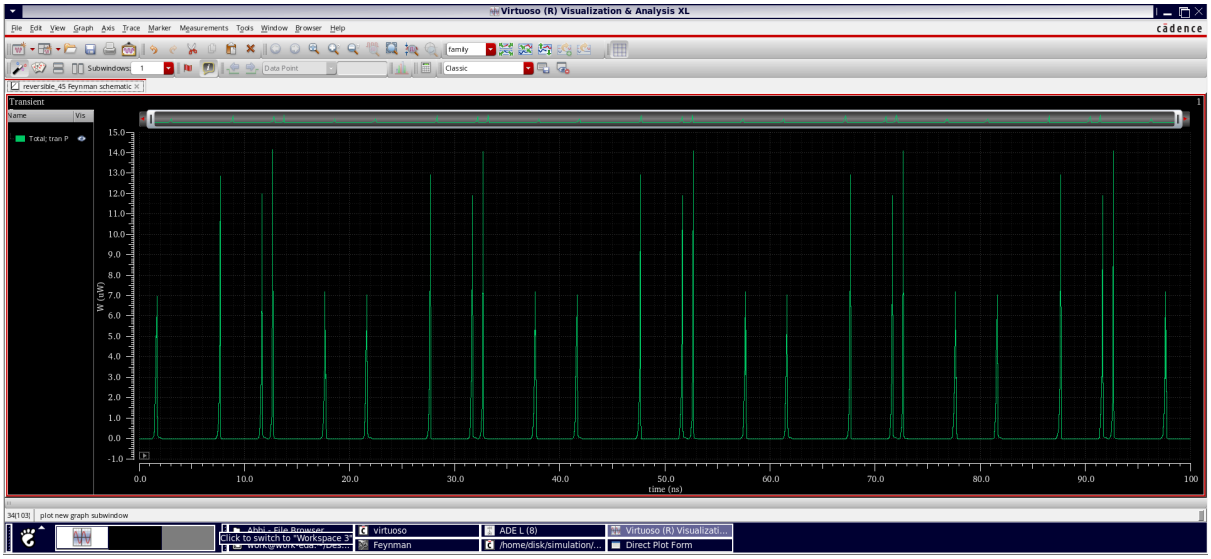
12.62E-6

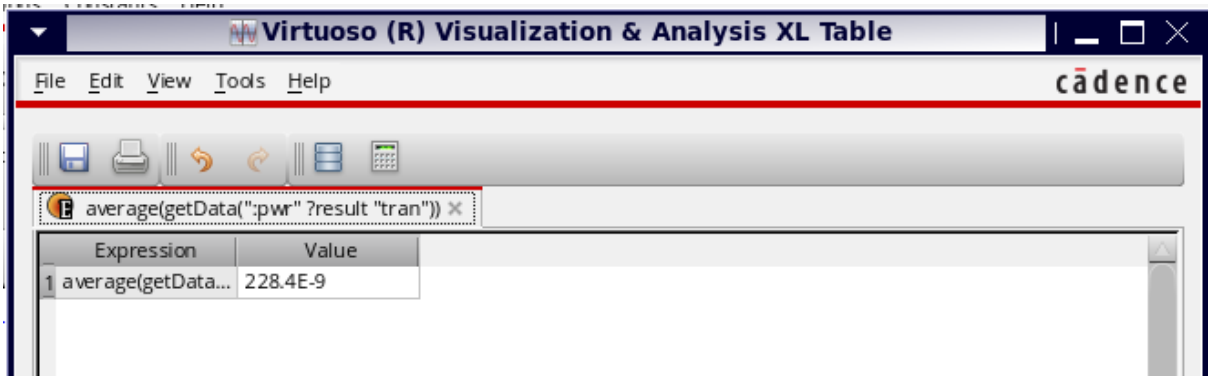

Vdd
Vss
Peres_Gate
Feynman

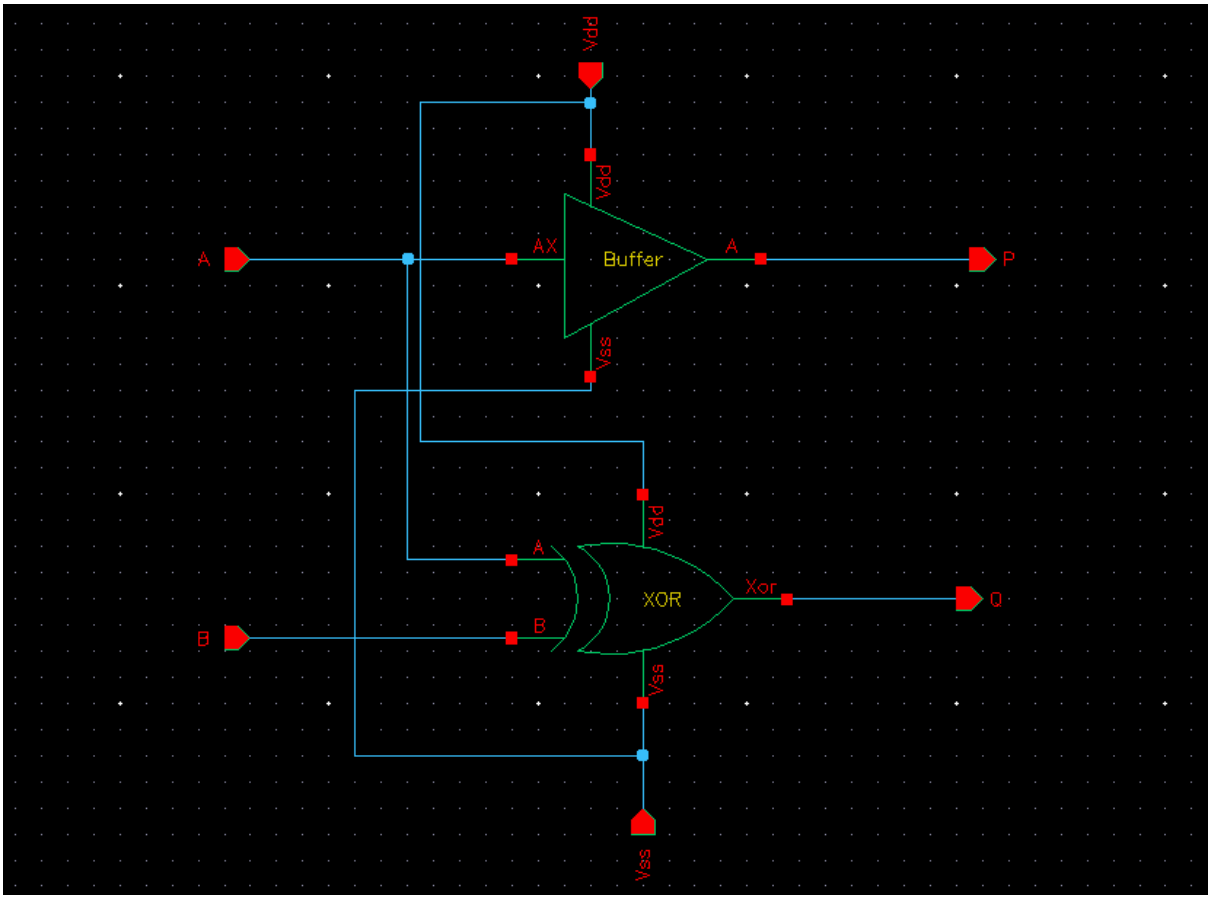
45nmtech:

Feynman gate:

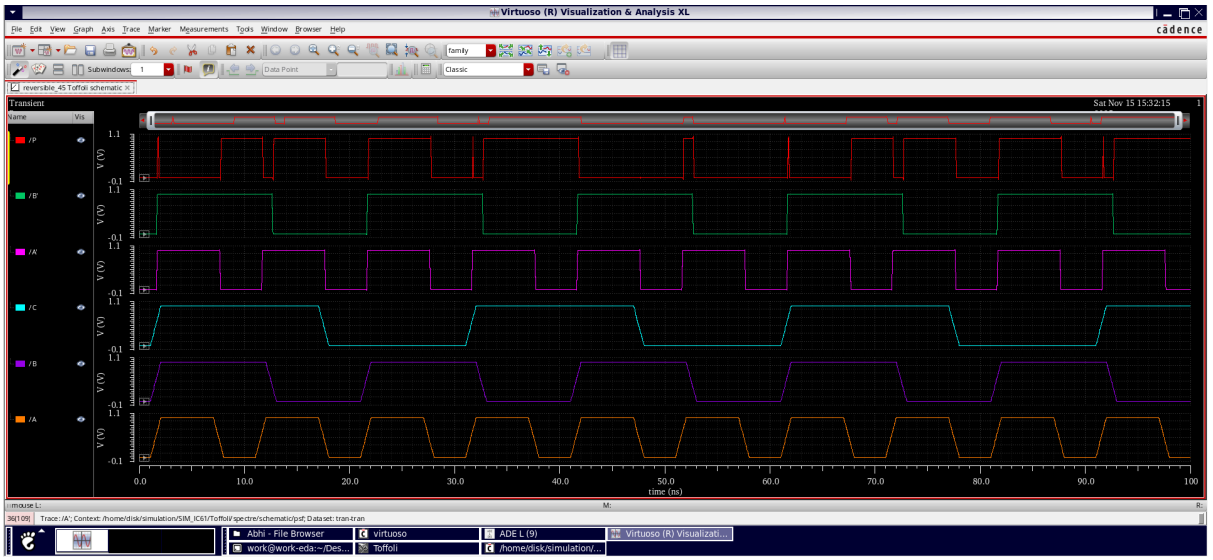


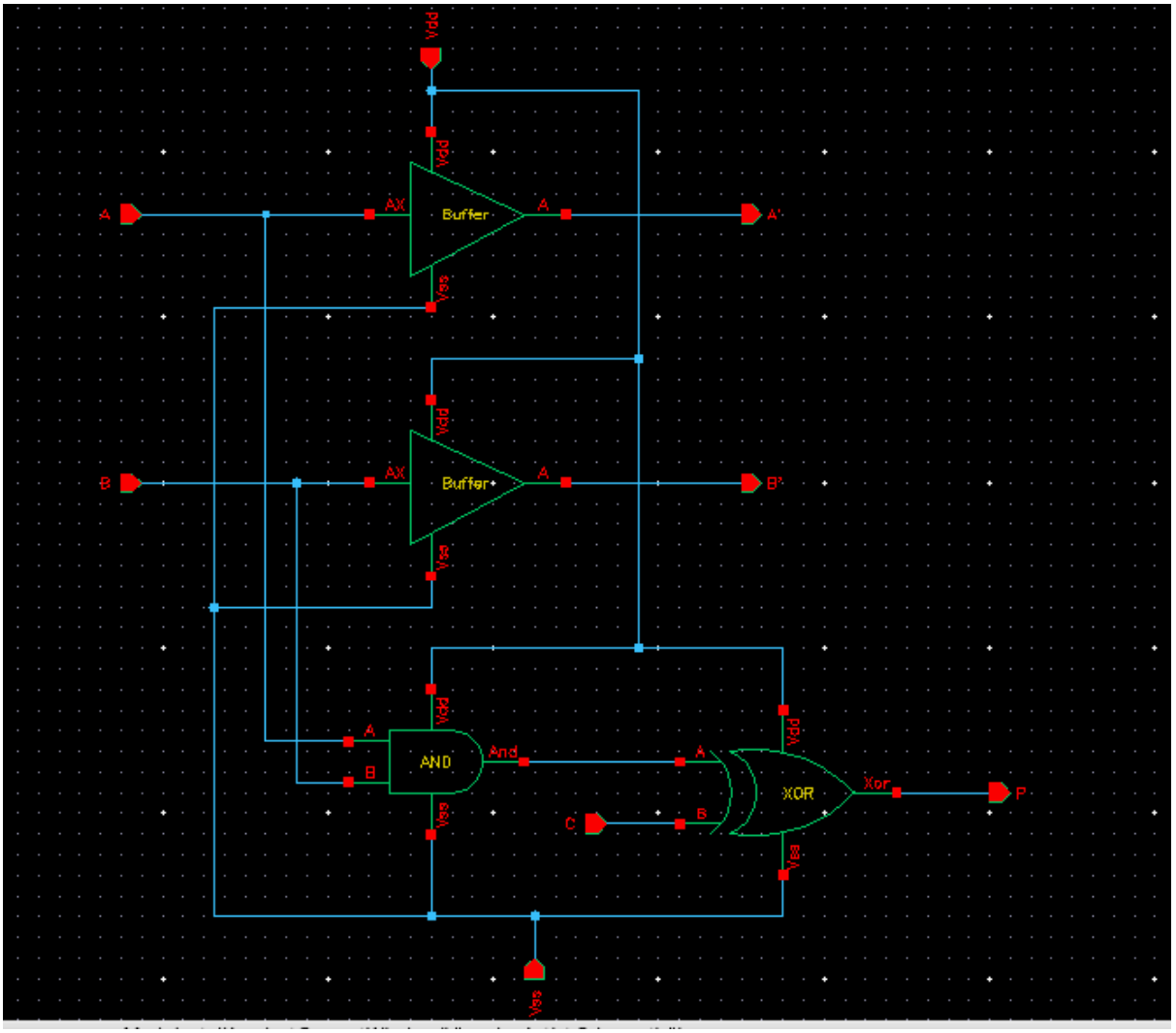


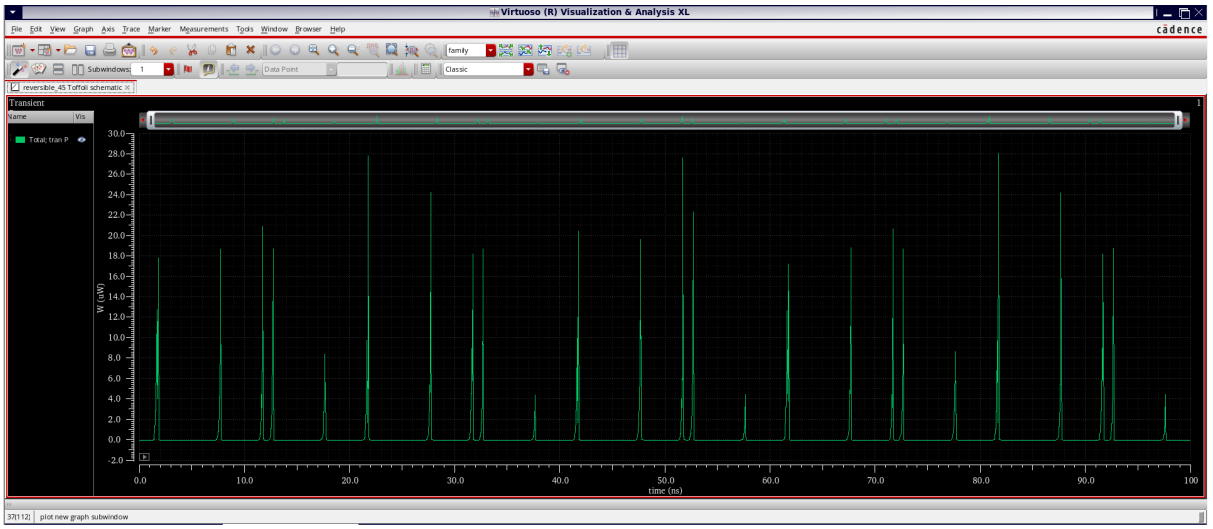


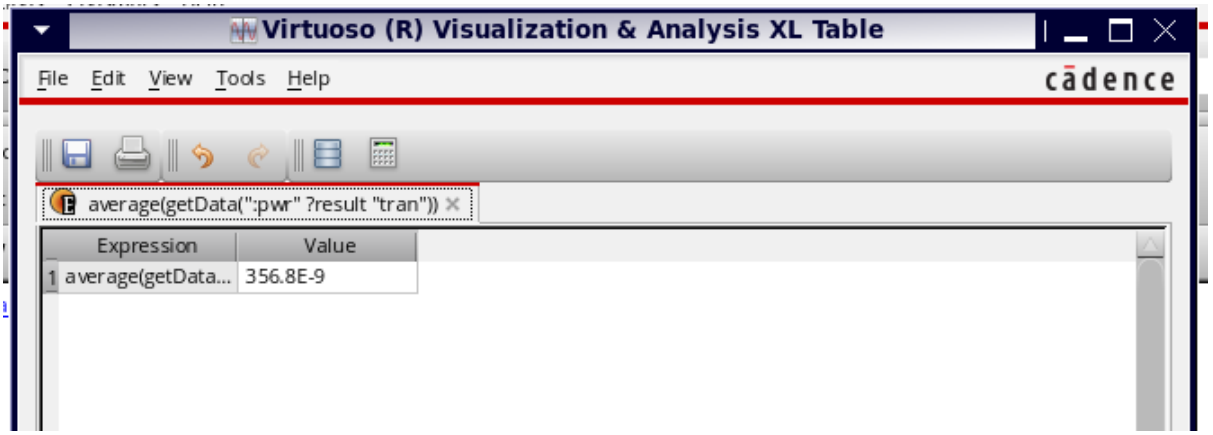


Toffoli Gate:




Vdd
Vdd
A
AX
Buffer
A
A'
Vss
Vdd
B
AX
Buffer
A
B'
Vss
Vdd
A
B
AND
And
Vss
Vdd
A
B
C
XOR
Xor
P
Vss
Vss


Virtuoso (R) Visualization & Analysis XL
File Edit View Graph Axis Trace Marker Measurements Tools Window Browser Help
cadence
reversible_45 Toffoli schematic
Transient
Name
Vis
Total; tran P
W (nW)
time (ns)
plot new graph subwindow


Virtuoso (R) Visualization & Analysis XL Table
File Edit View Tools Help
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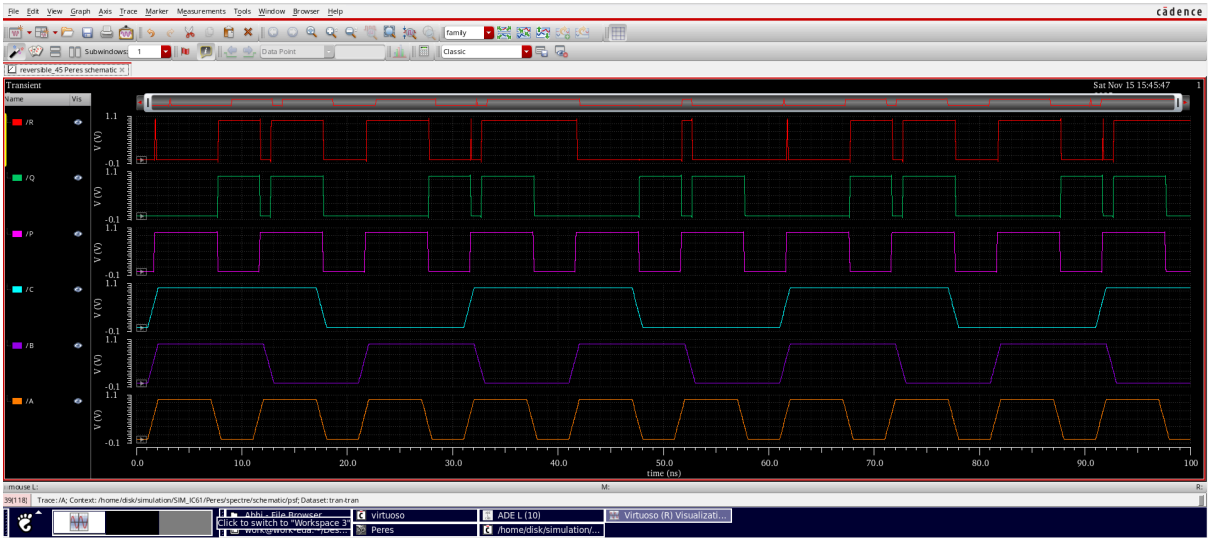
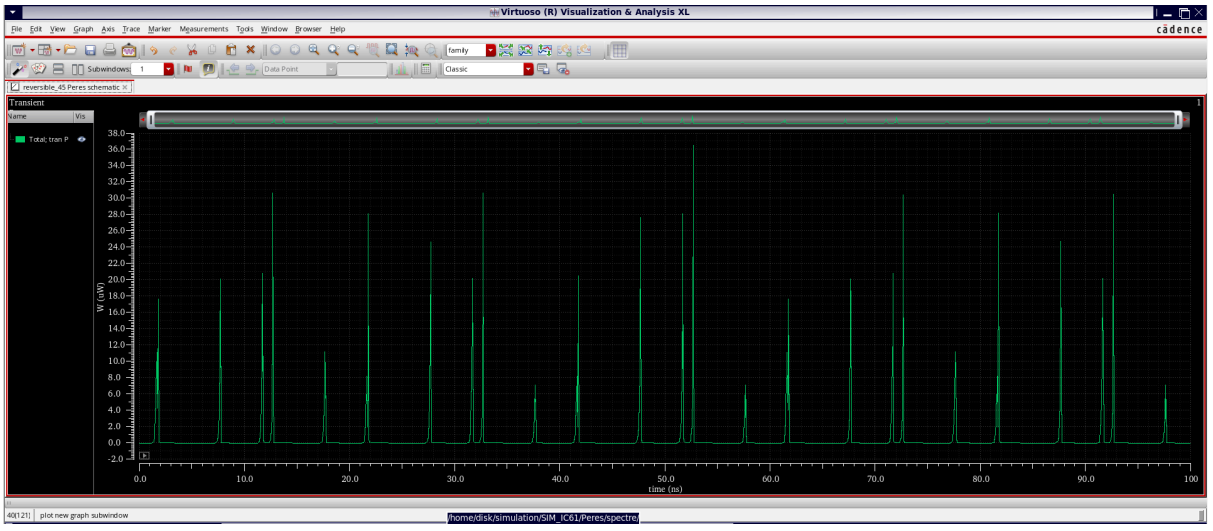
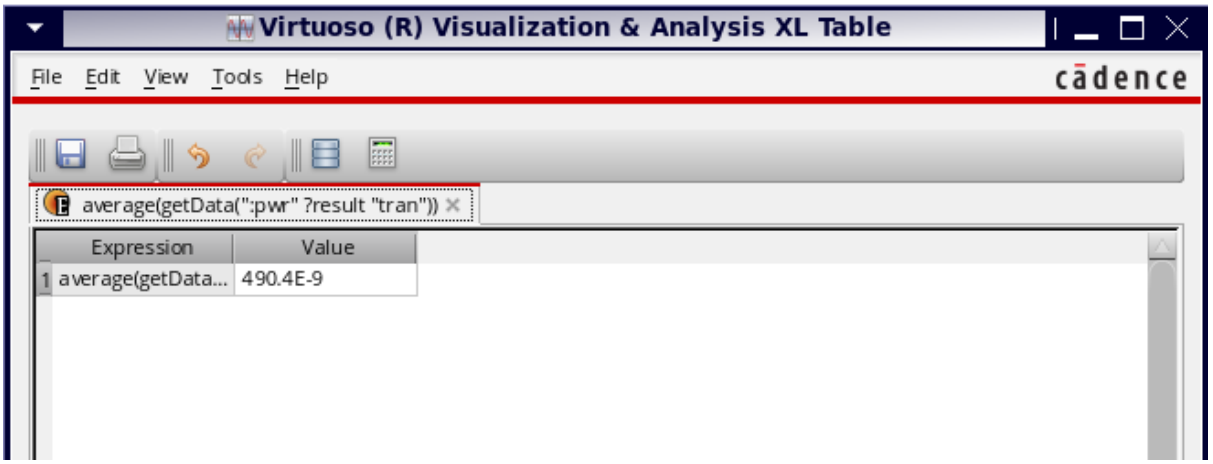
average(getData(":pwr" ?result "tran"))
Expression
Value
1 average(getData...
356.8E-9

Peres Gate:


cadence
Transient
/R
/Q
/P
/C
/B
/A
V (V)
time (ns)


Virtuoso (R) Visualization & Analysis XL
cadence
Transient
Total; tran P
W (uW)
time (ns)


Virtuoso (R) Visualization & Analysis XL Table
File Edit View Tools Help
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Expression
Value
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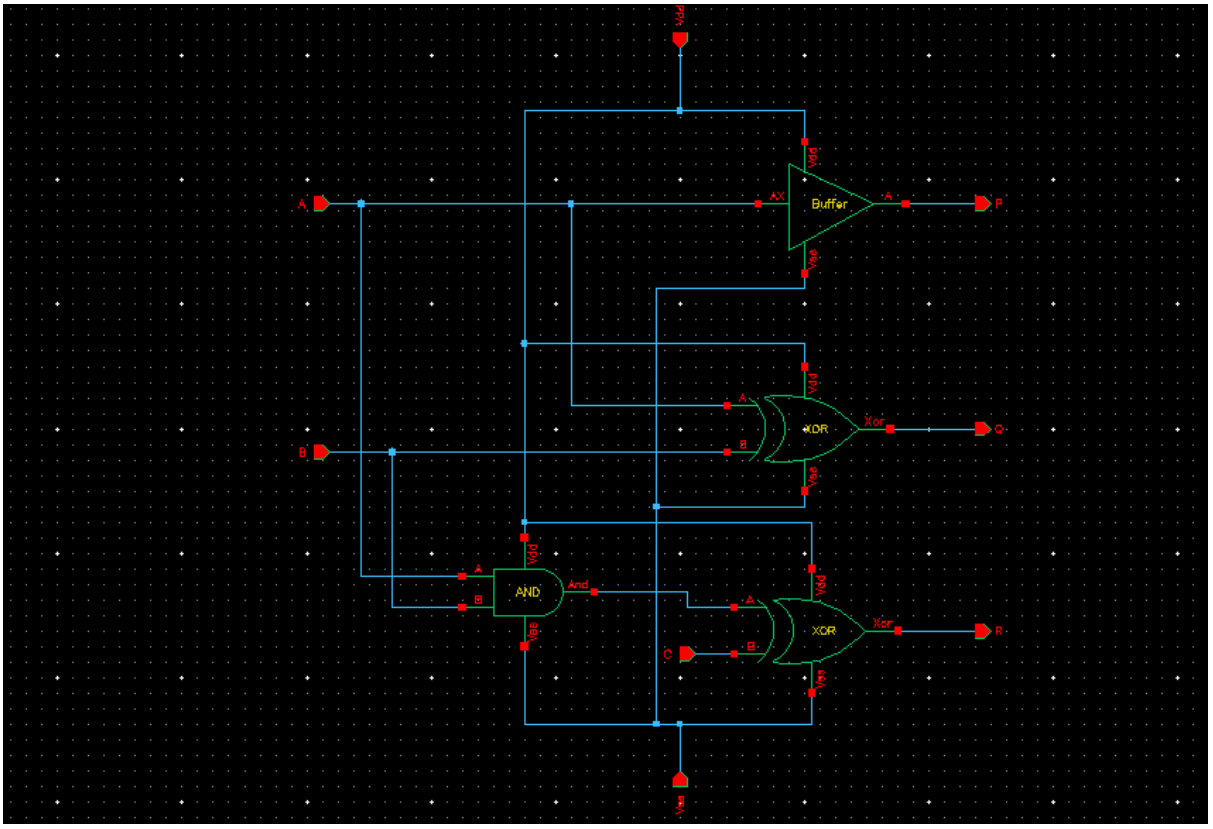
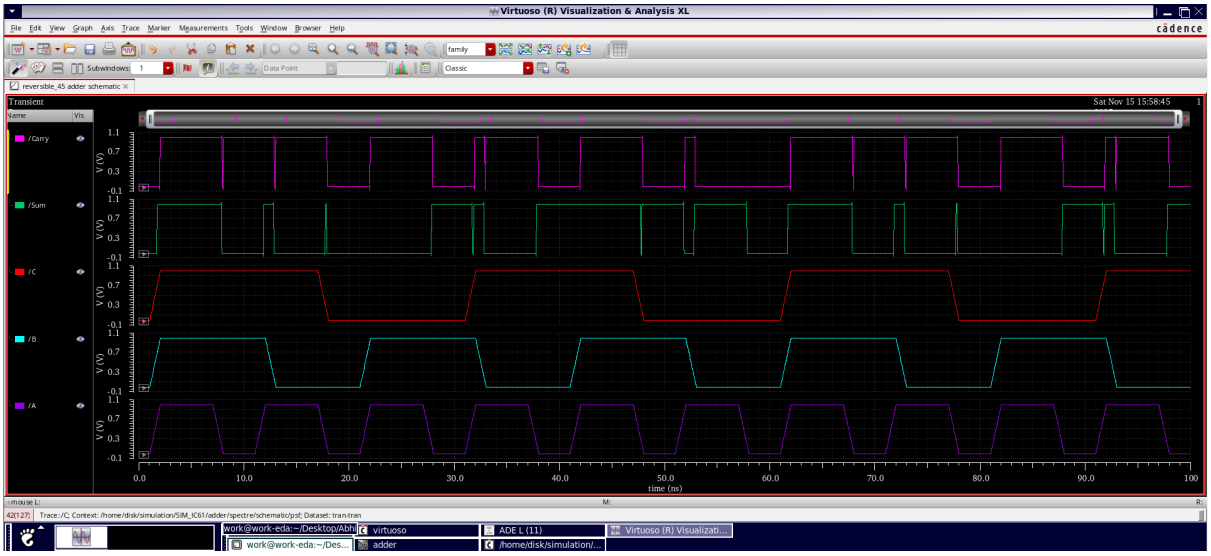
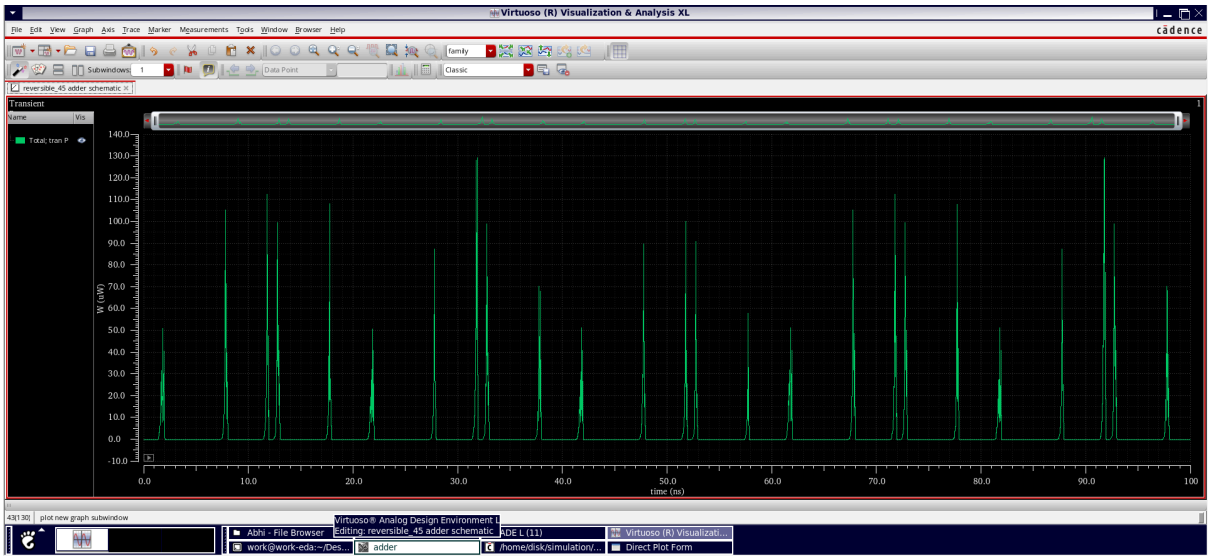
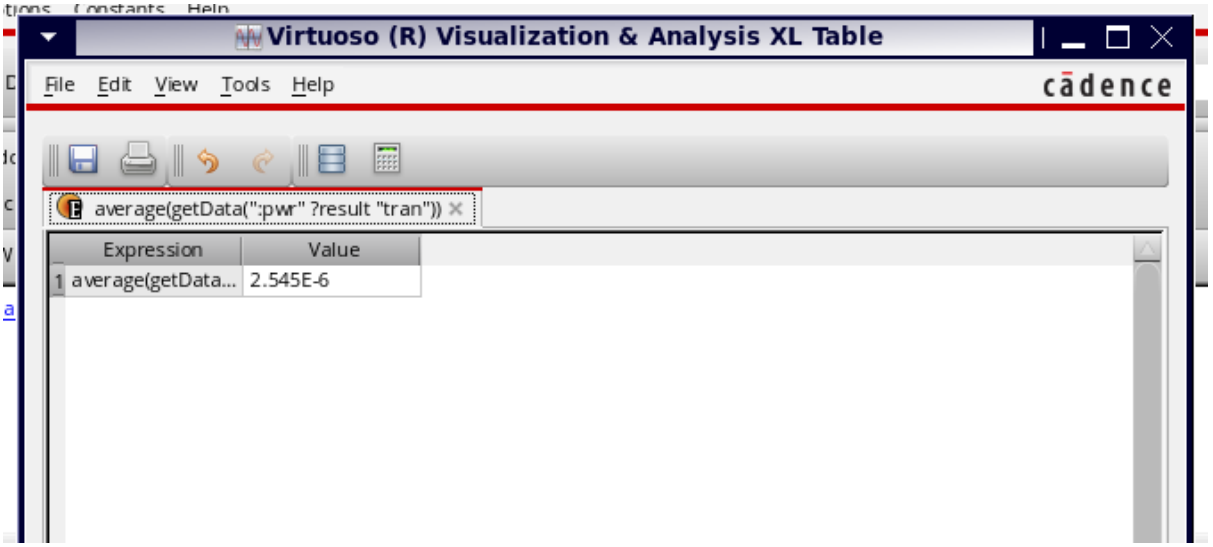
490.4E-9


Vdd
Vss
A
B
Buffer
AX
P
XOR
Xor
Q
AND
And
R

Adder_45nm:


Virtuoso (R) Visualization & Analysis XL
File Edit View Graph Axis Trace Marker Measurements Tools Window Browser Help
cadence
reversible_45 adder schematic
Transient
Sat Nov 15 15:58:45
/Carry
/Sum
/C
/B
/A
V (V)
time (ns)
0.0 10.0 20.0 30.0 40.0 50.0 60.0 70.0 80.0 90.0 100
work@work-eda:~/Desktop/Abhi
virtuoso
ADE L (11)
Virtuoso (R) Visualizati...
work@work-eda:~/Des...
adder
/home/disk/simulation/...


Virtuoso (R) Visualization & Analysis XL
File Edit View Graph Axis Trace Marker Measurements Tools Window Browser Help
cadence
reversible_45 adder schematic
Transient
Total: tran P
W (uW)
time (ns)
0.0 10.0 20.0 30.0 40.0 50.0 60.0 70.0 80.0 90.0 100
plot new graph subwindow
Abhi - File Browser
Virtuoso® Analog Design Environment L
Editing: reversible_45 adder schematic
ADE L (11)
Virtuoso (R) Visualizati...
work@work-eda:~/Des...
adder
/home/disk/simulation/...
Direct Plot Form


Virtuoso (R) Visualization & Analysis XL Table
File Edit View Tools Help
cadence
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Expression
Value
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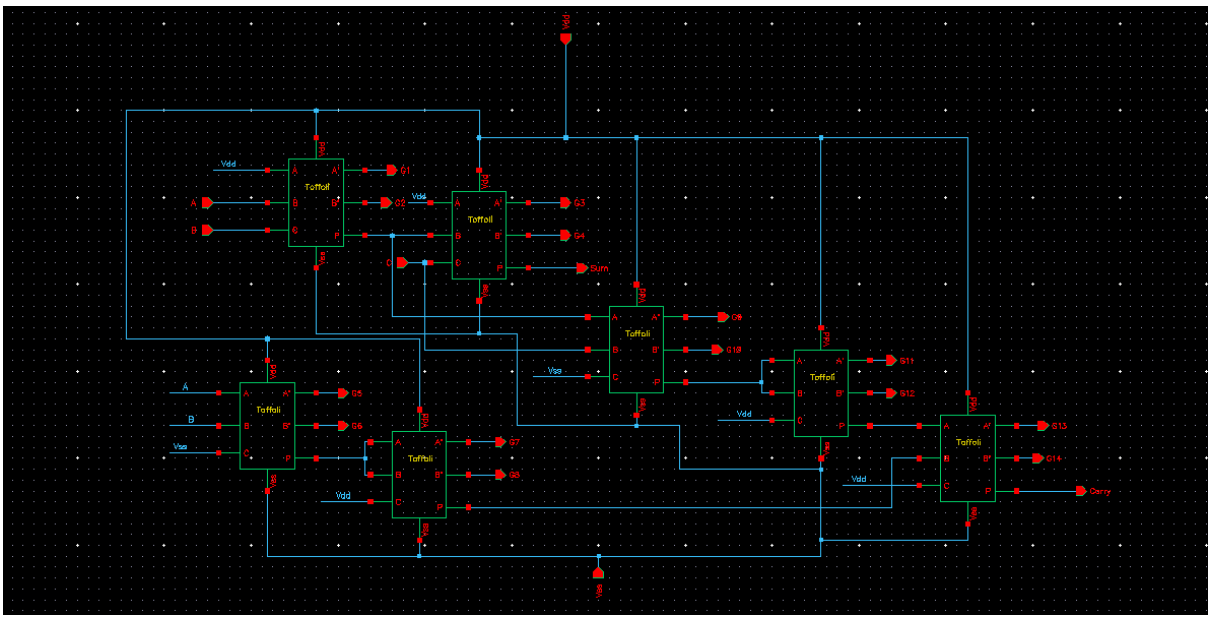
average(getData...
2.545E-6



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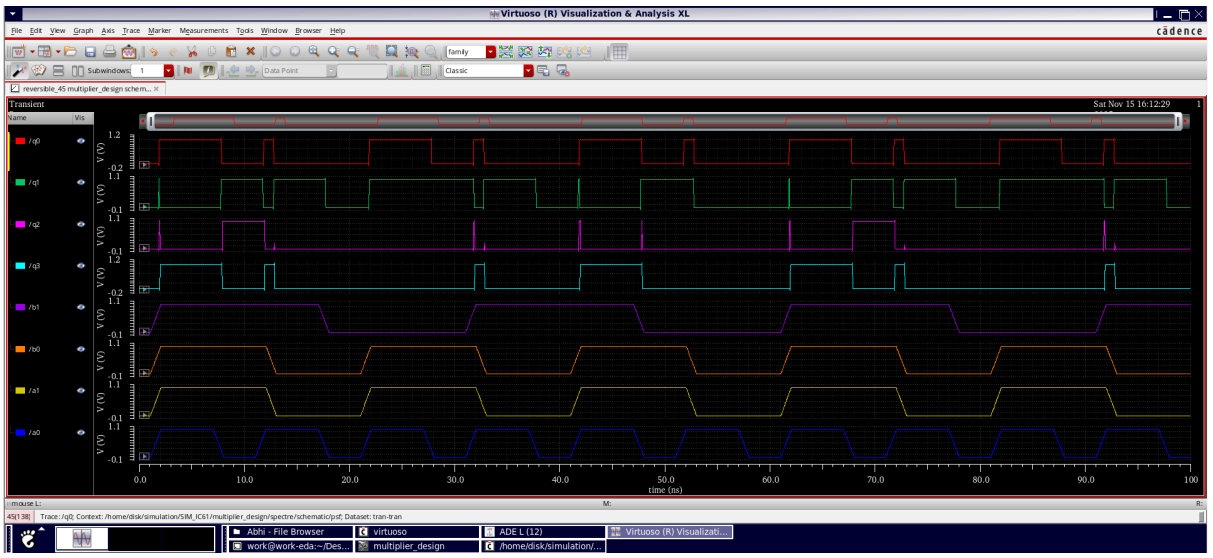
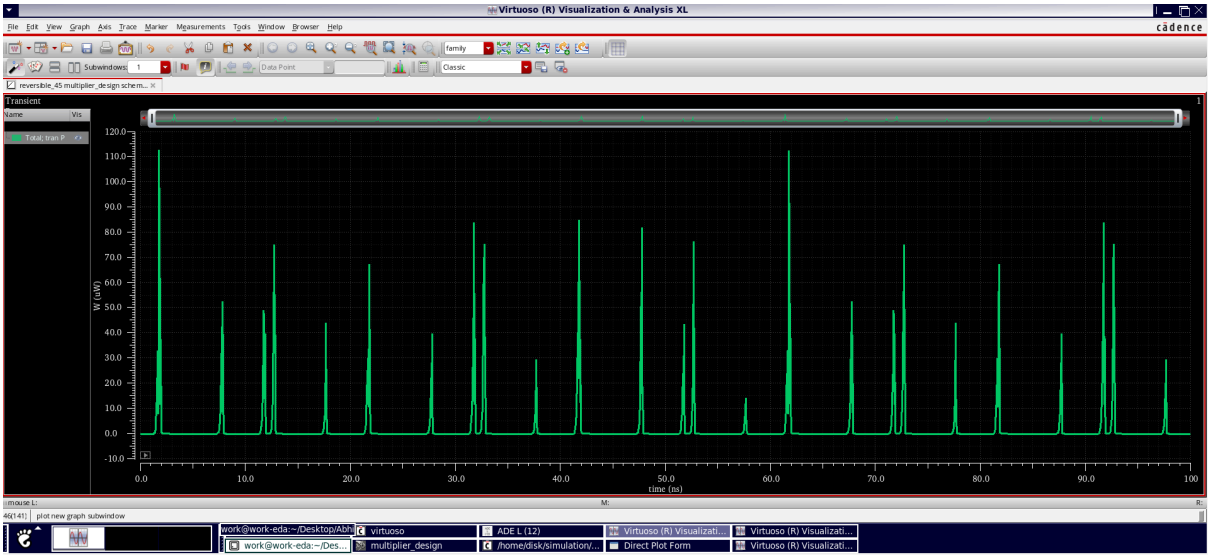
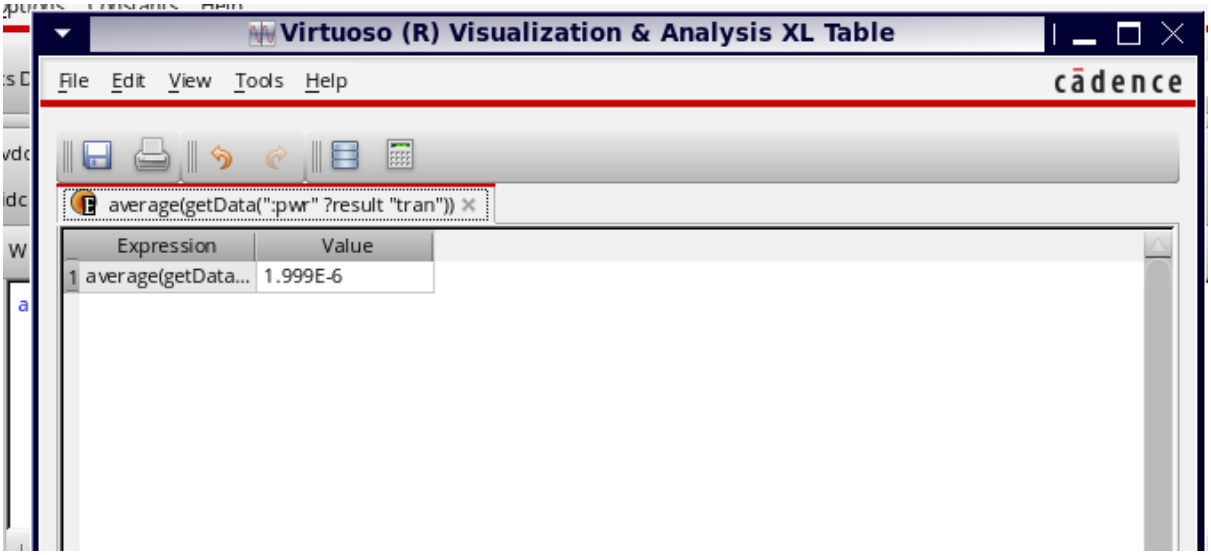



Virtuoso (R) Visualization & Analysis XL
File Edit View Graph Axis Trace Marker Measurements Tools Window Browser Help
cadence
Transient
W (uW)
time (ns)


Virtuoso (R) Visualization & Analysis XL Table
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Expression
Value
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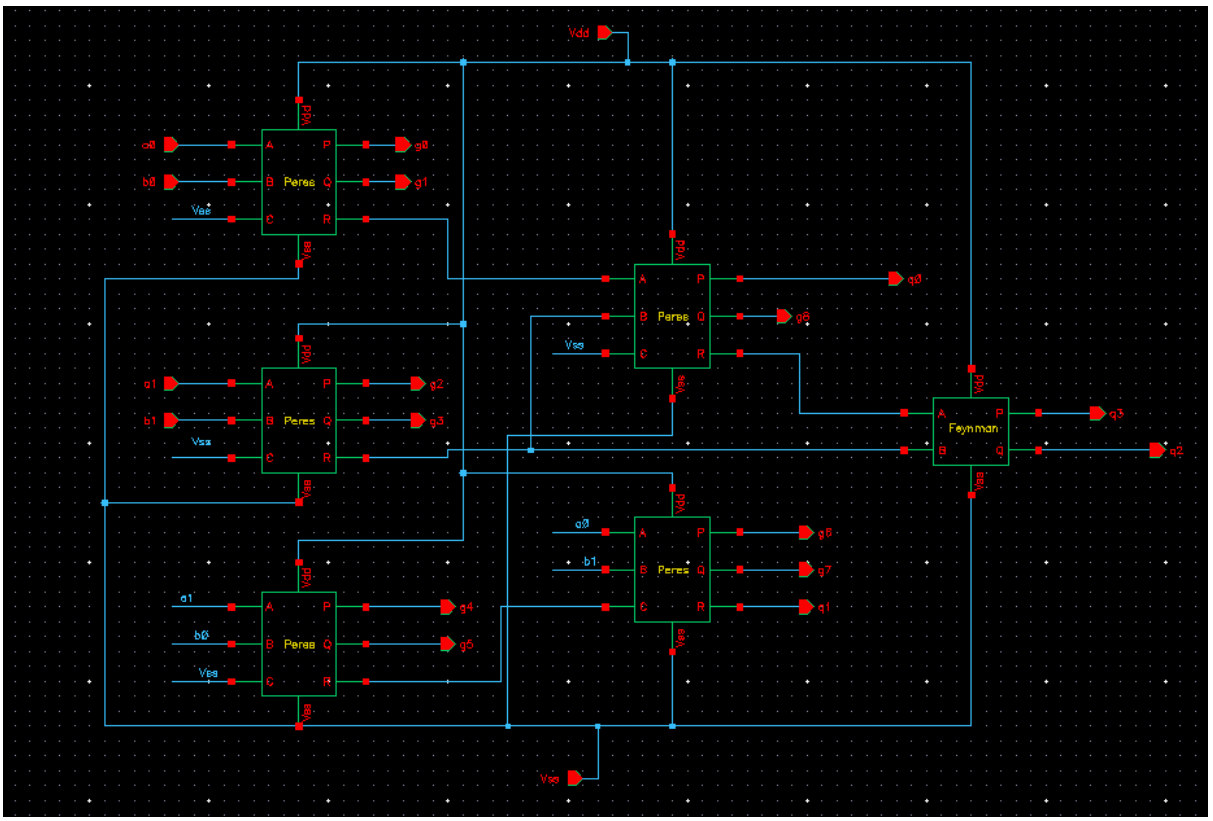
1.999E-6


Vdd
a0
b0
Vss
Peres
g0
g1
a1
b1
g2
g3
g4
g5
g6
g7
Feynman
q0
q1
q2
q3