



Institute of Engineering and Technology (IET) JK Lakshmipat University, Jaipur

Design & Analysis of Arithmetic Circuit from Reversible Logic Gates:

Faculty Guide:  
Dr. Gaurav Mani Khanal

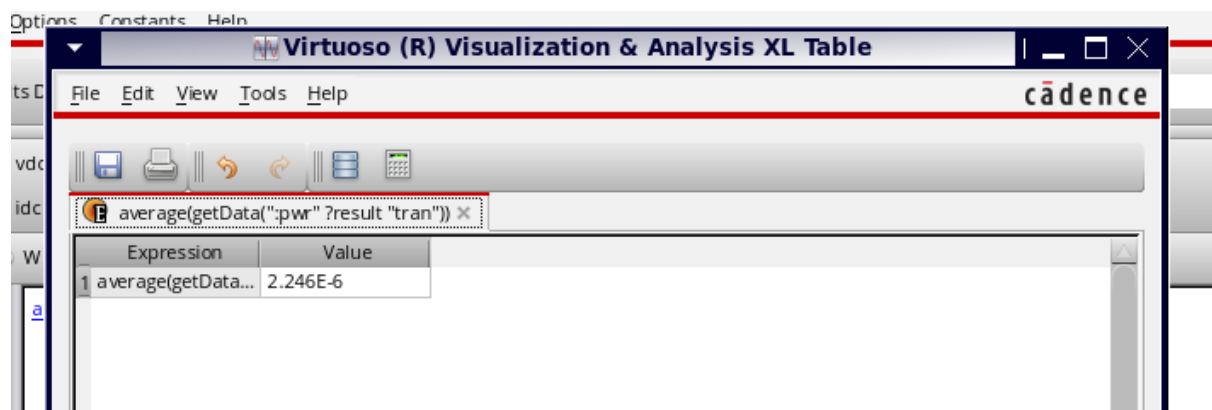
Student:  
Abhimanyu sharma (2022Btech003)

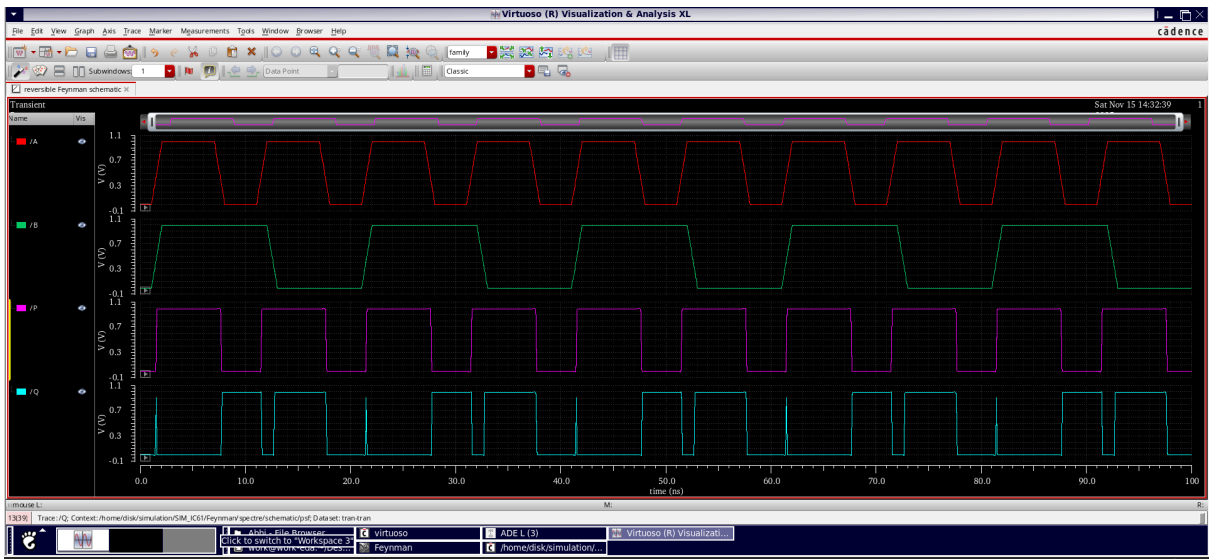
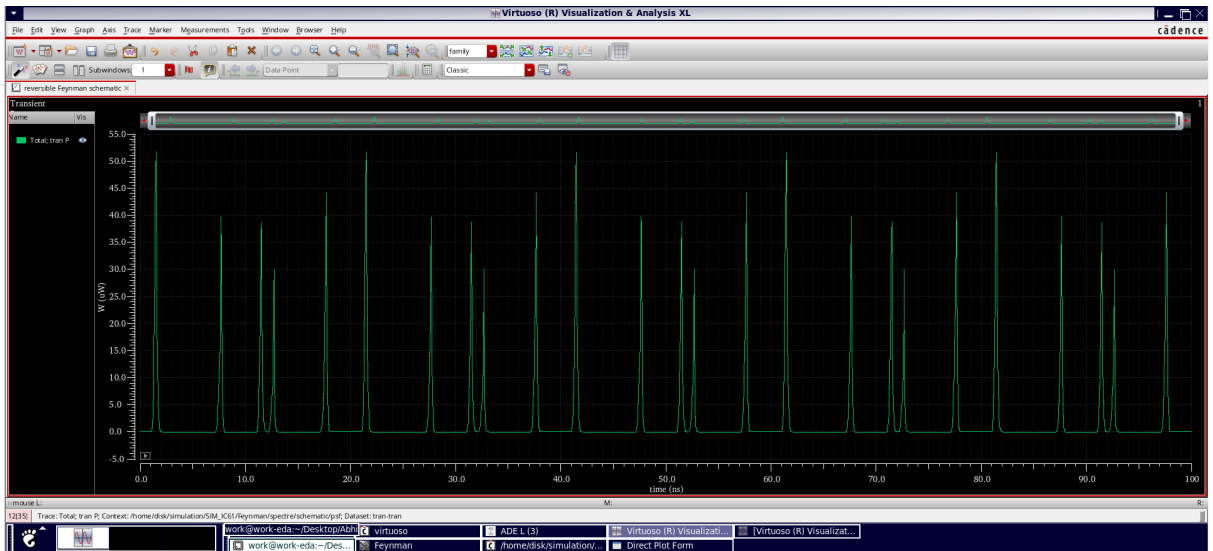
Submitted To:  
Dr. Gaurav Raj

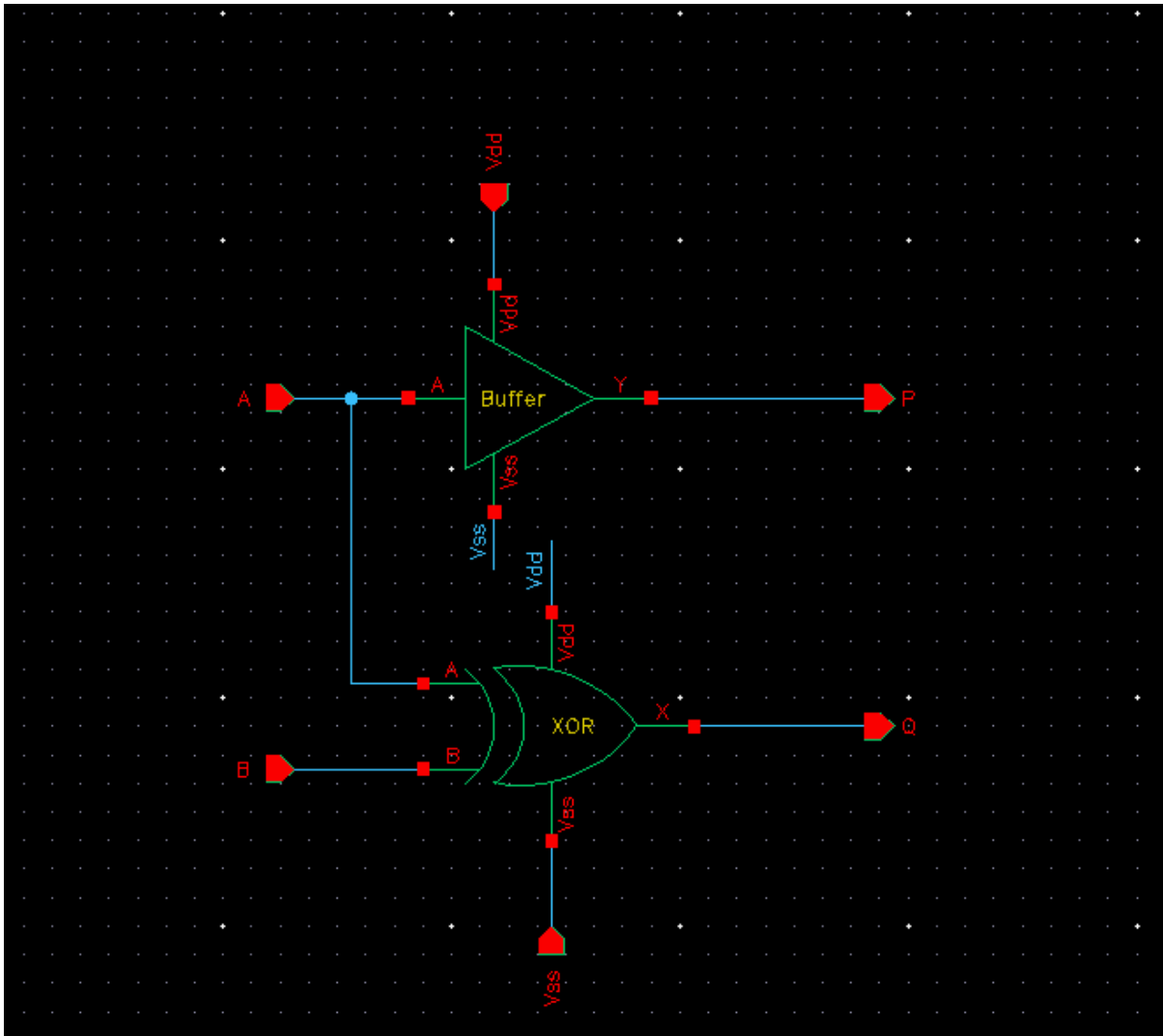
## Work:

This work was carried out during the midterm.

## Feynman gate:

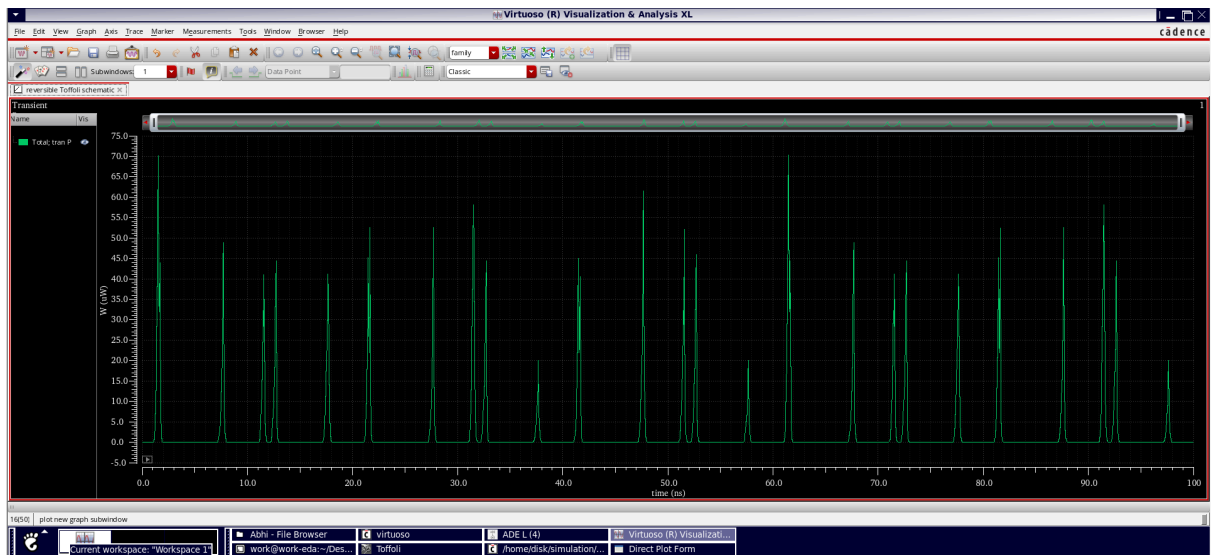






# Toffoli Gate:





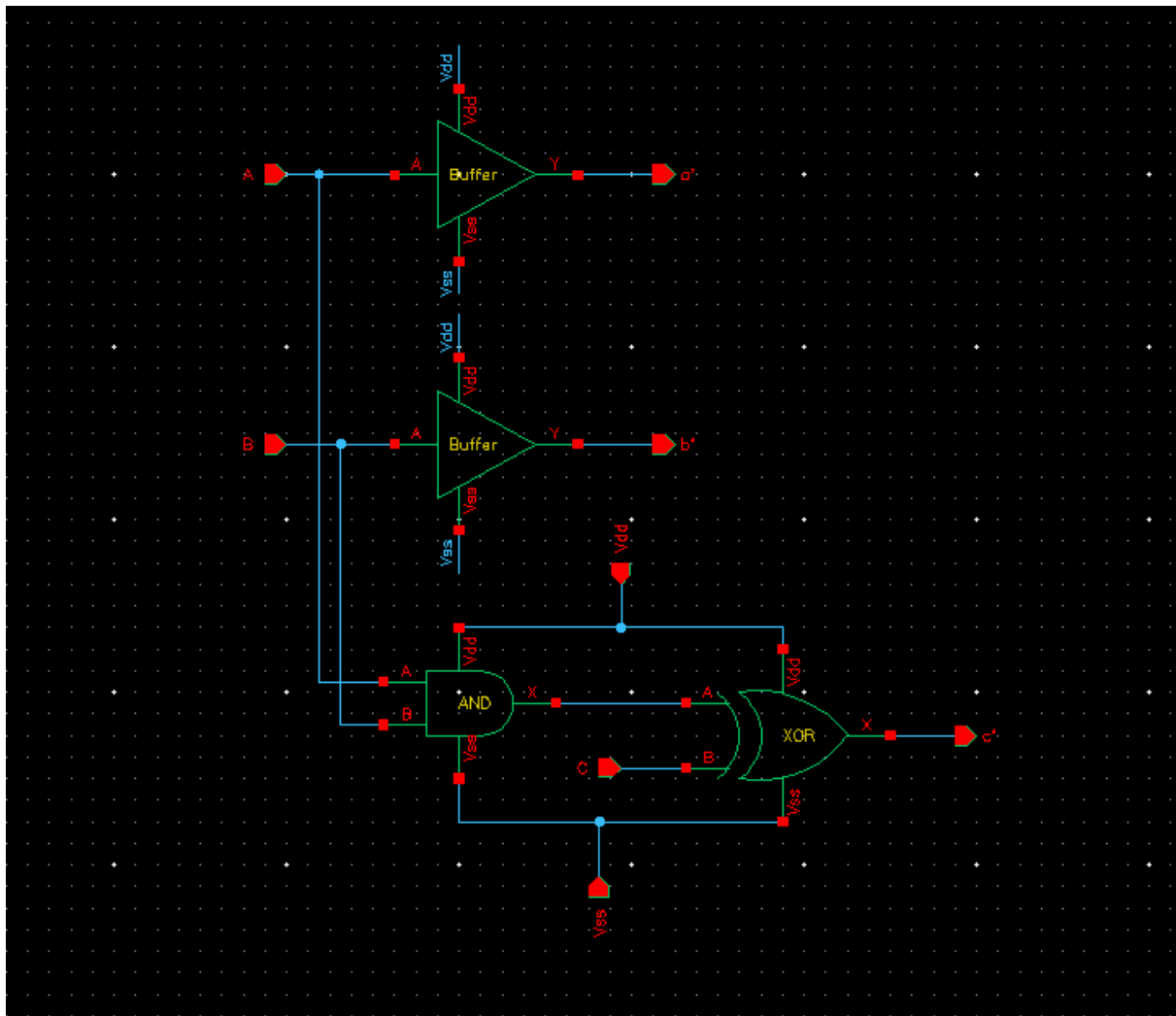
Virtuoso (R) Visualization & Analysis XL Table

File Edit View Tools Help

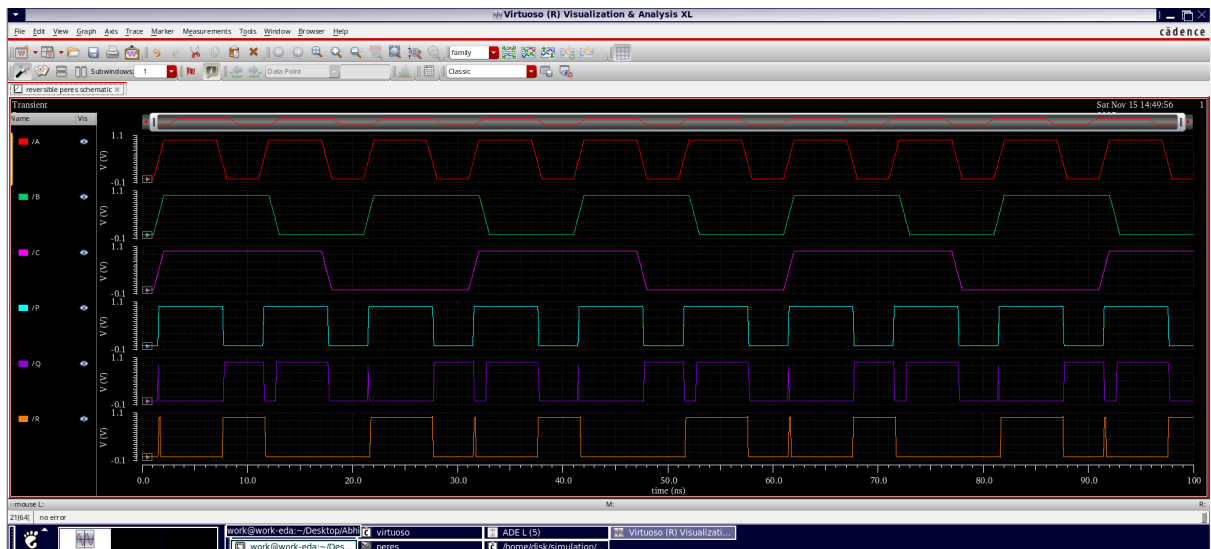
cadence

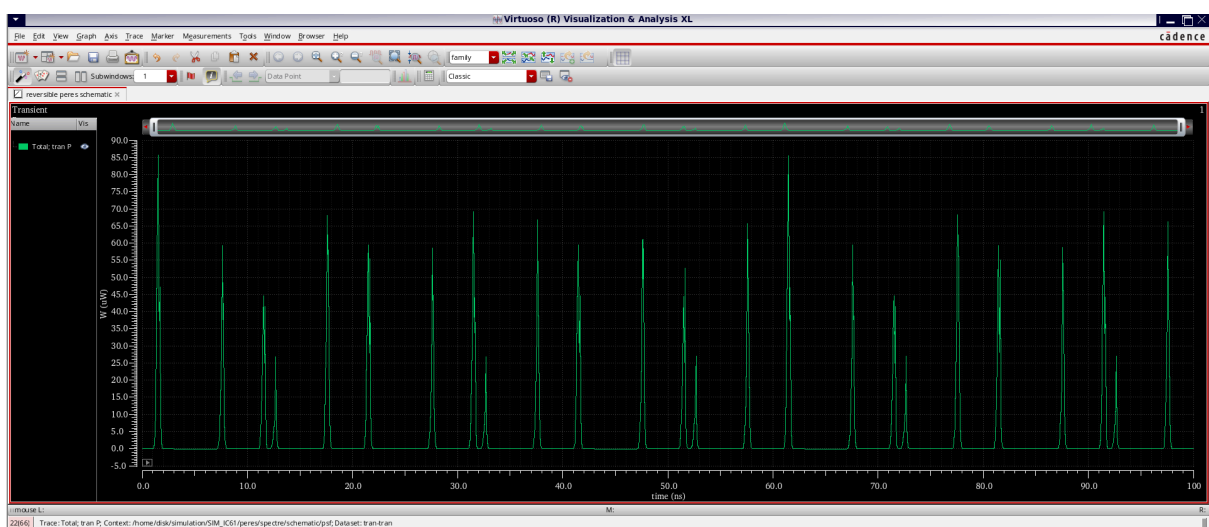
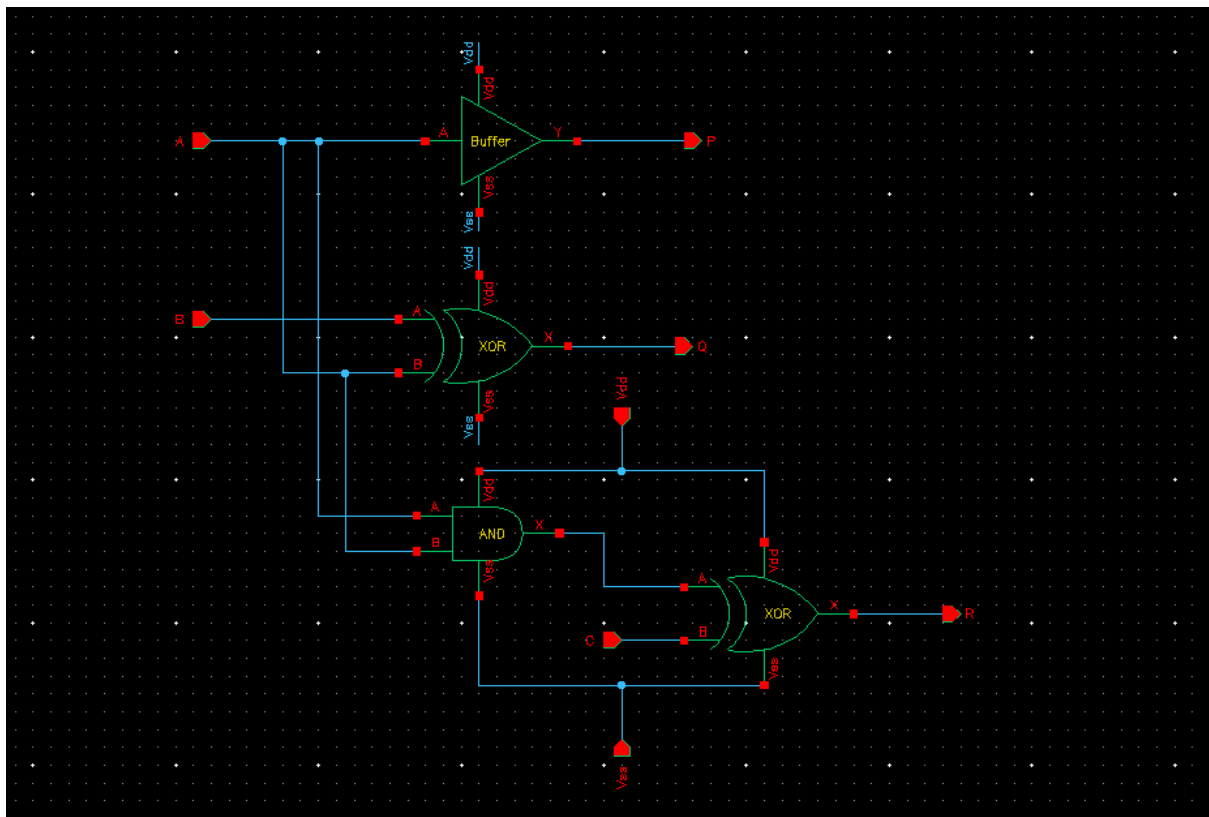
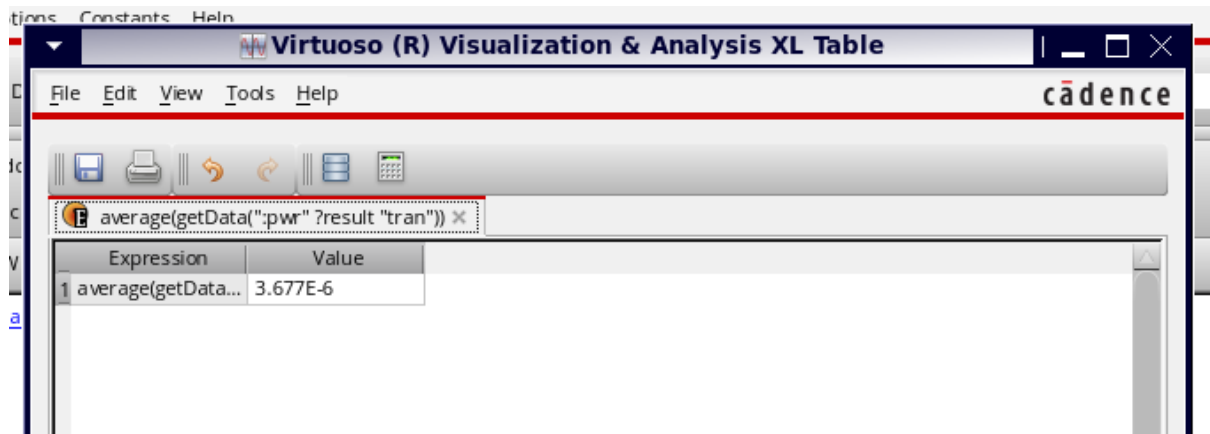
average(getData("pwr" ?result "tran")) x

Expression	Value
1 average(getData...	2.657E-6

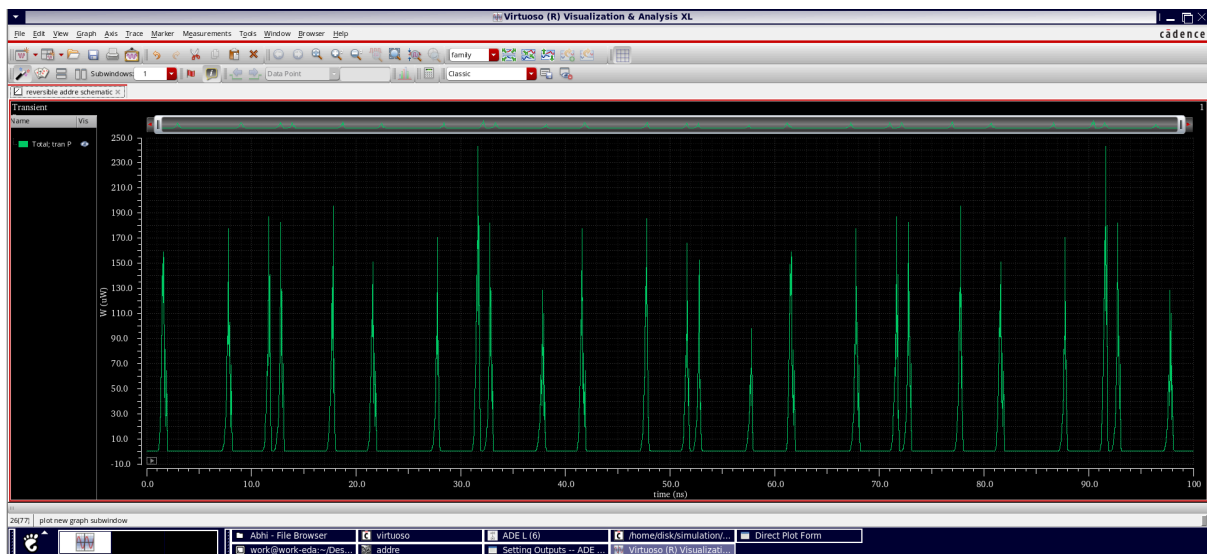


Peres gate:





# Adder90nm:

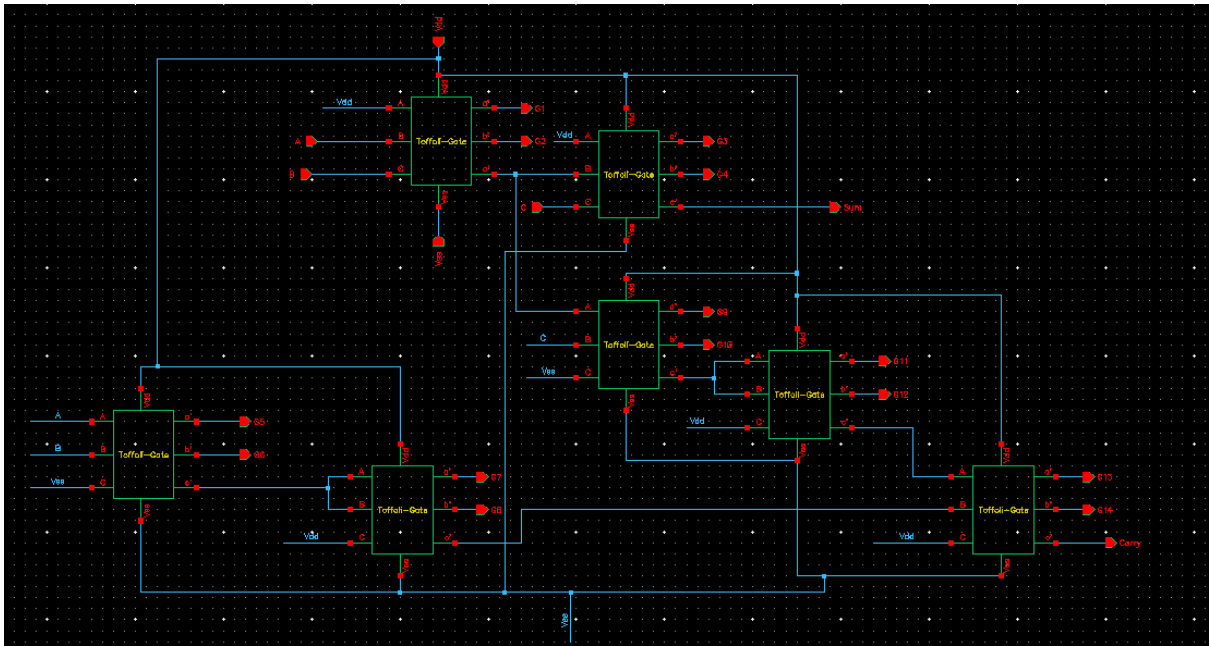


Virtuoso (R) Visualization & Analysis XL Table

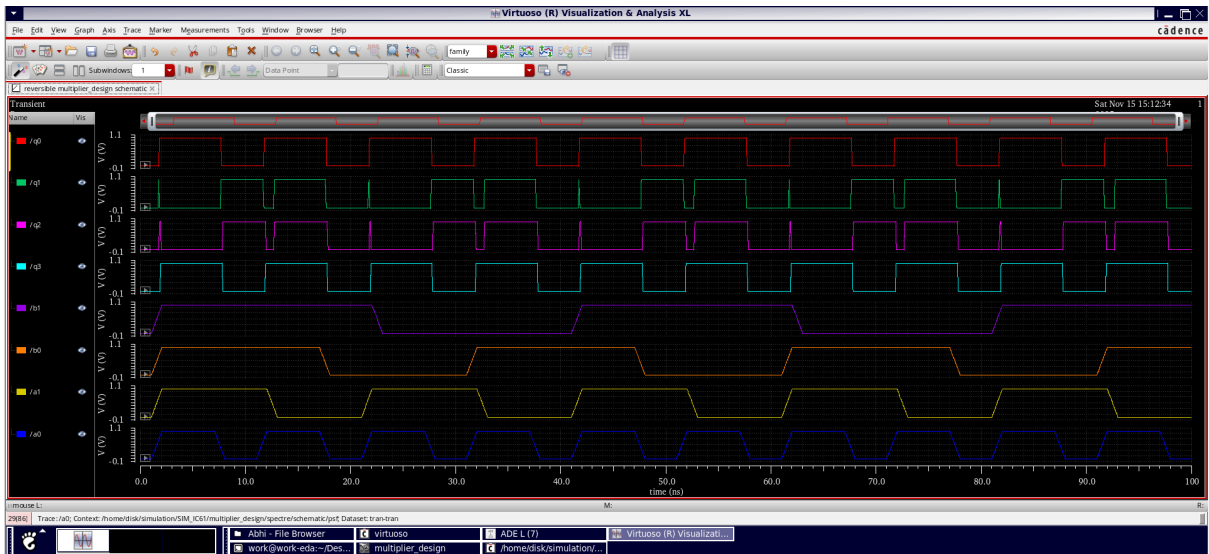
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average(getData("pwr"?result "tran")) x

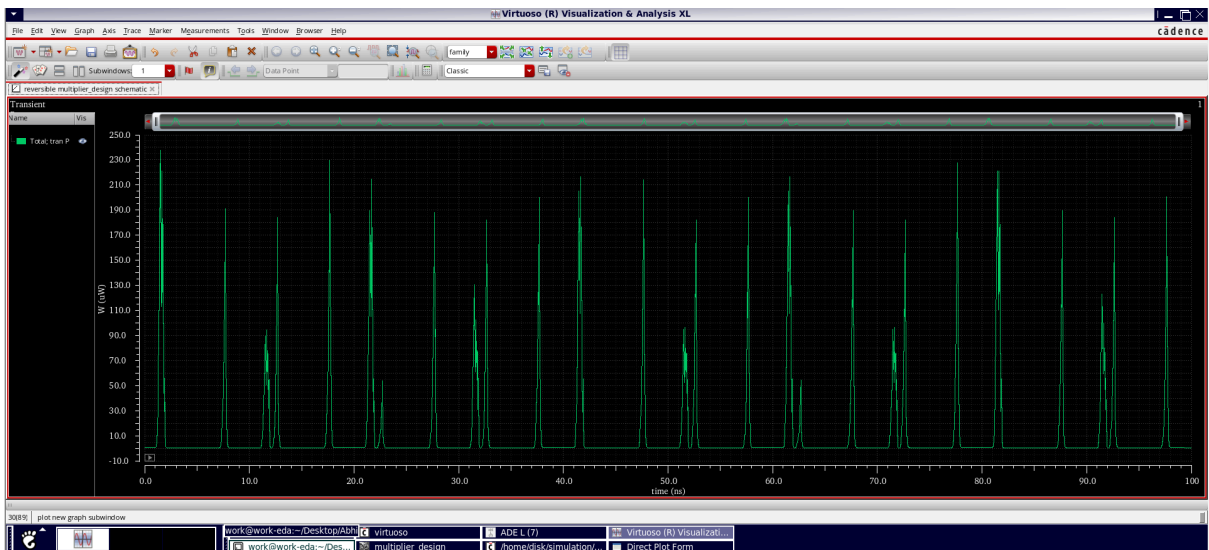
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1 average(getData...	10.97E-6



# Multiplier\_90nm:







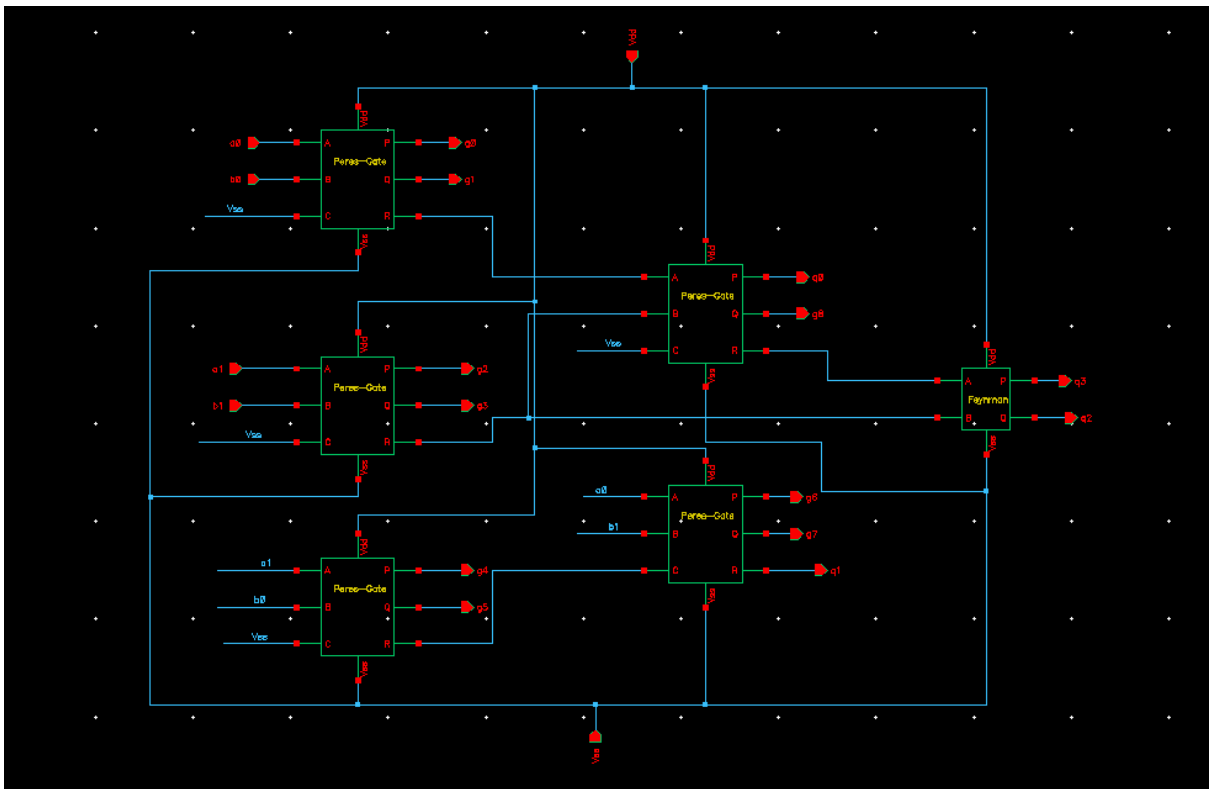
Virtuoso (R) Visualization & Analysis XL Table

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cadence

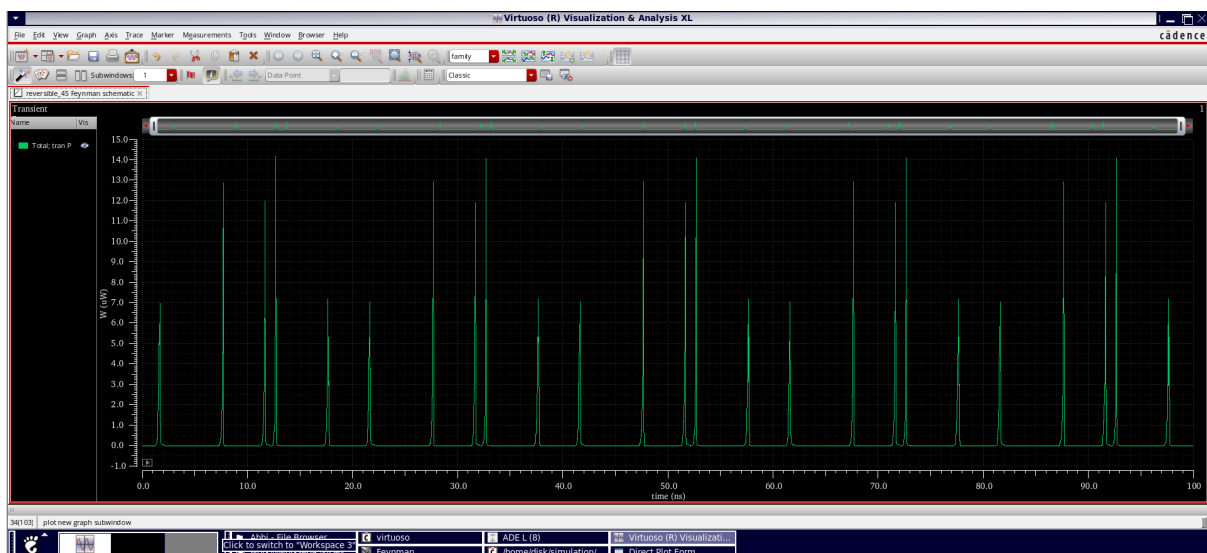
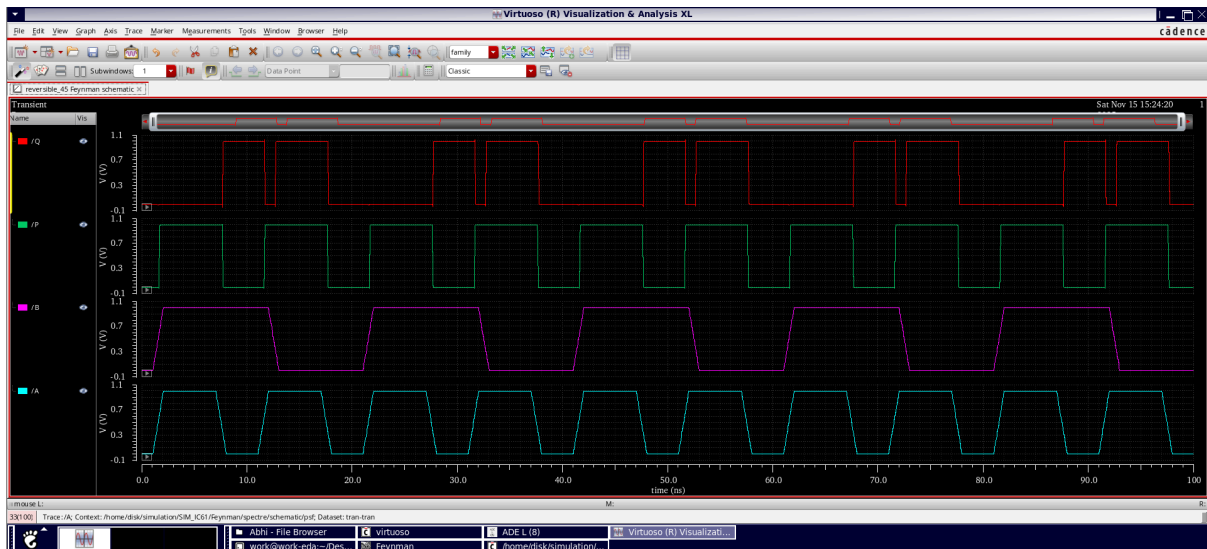
average(getData("pwr" ?result "tran")) x

Expression	Value
1 average(getData...	12.62E-6



# 45nmtech:

## Feynman gate:



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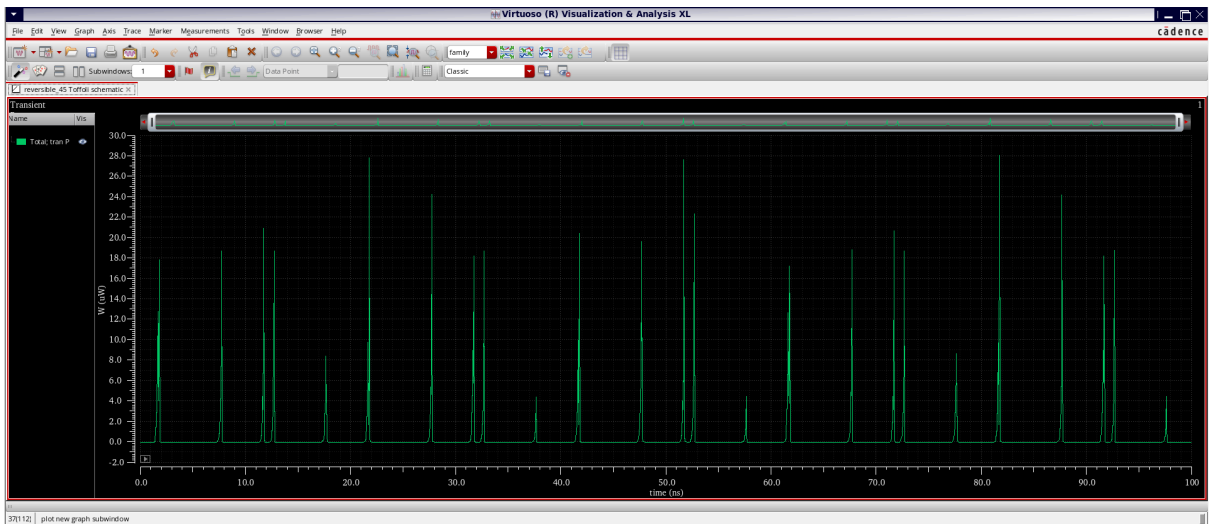
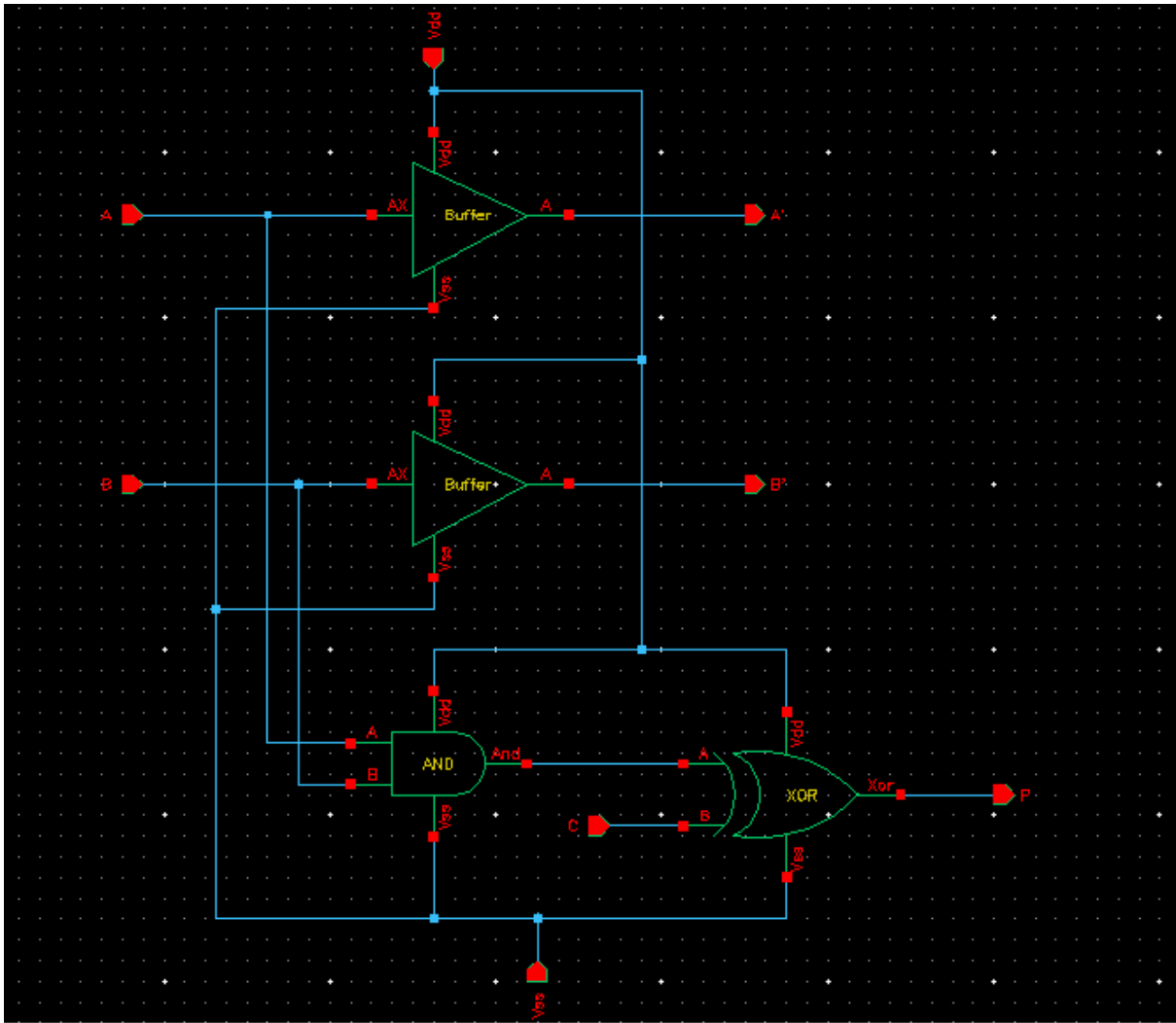
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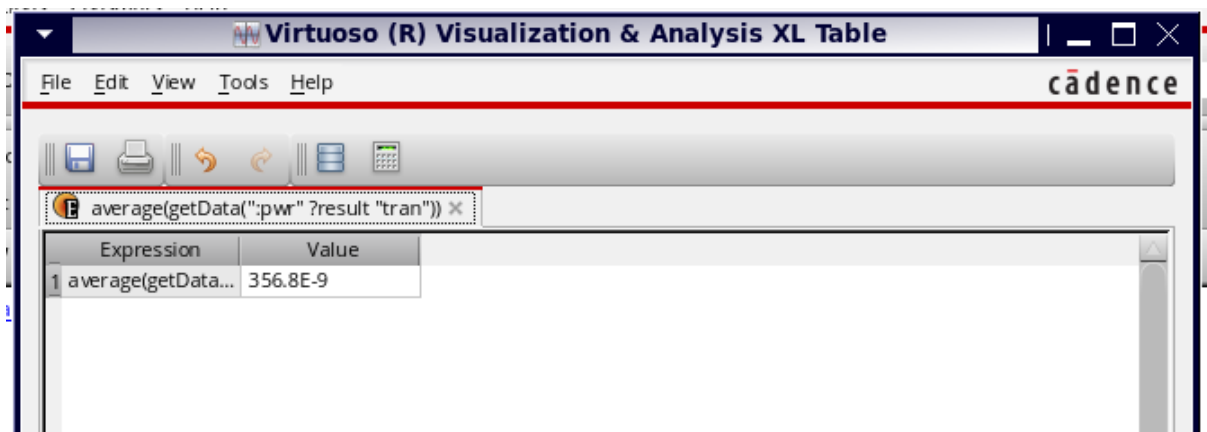
cadence

average(getData("pwr"?result "tran"))

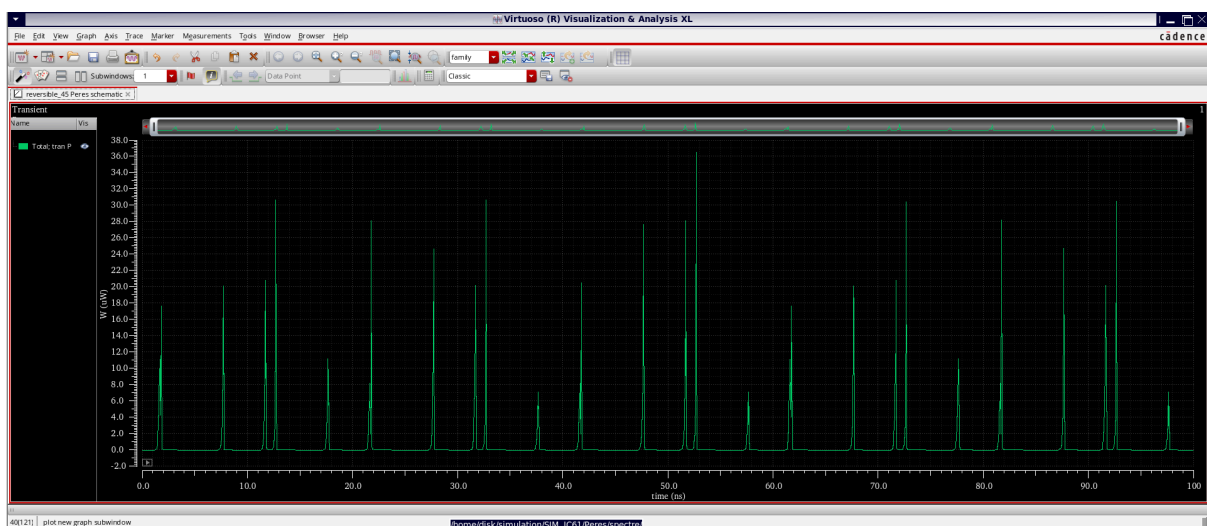
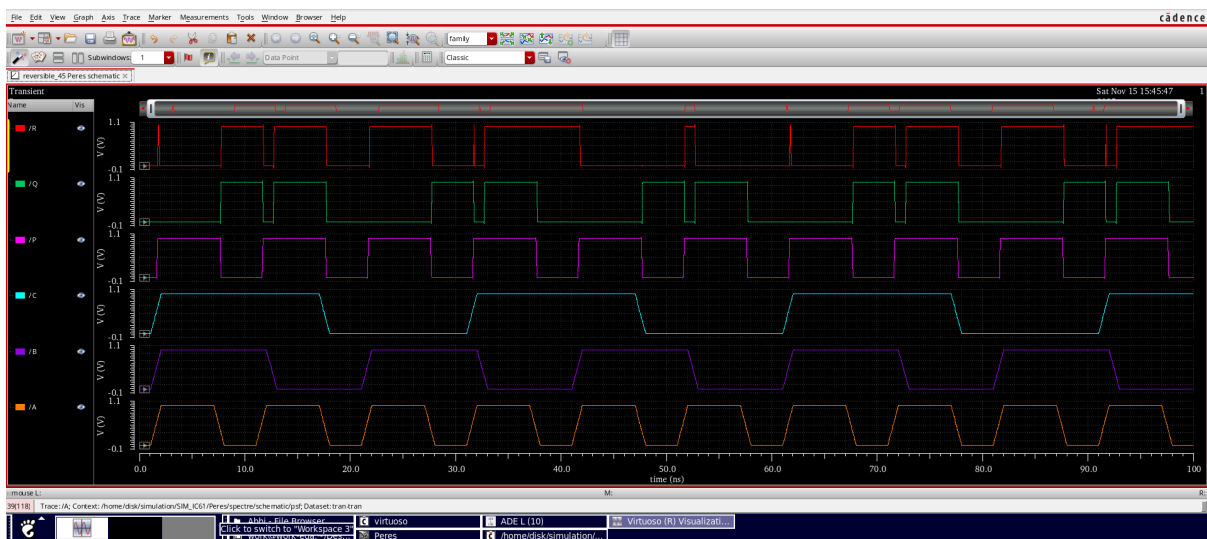
Expression	Value
1 average(getData...	228.4E-9



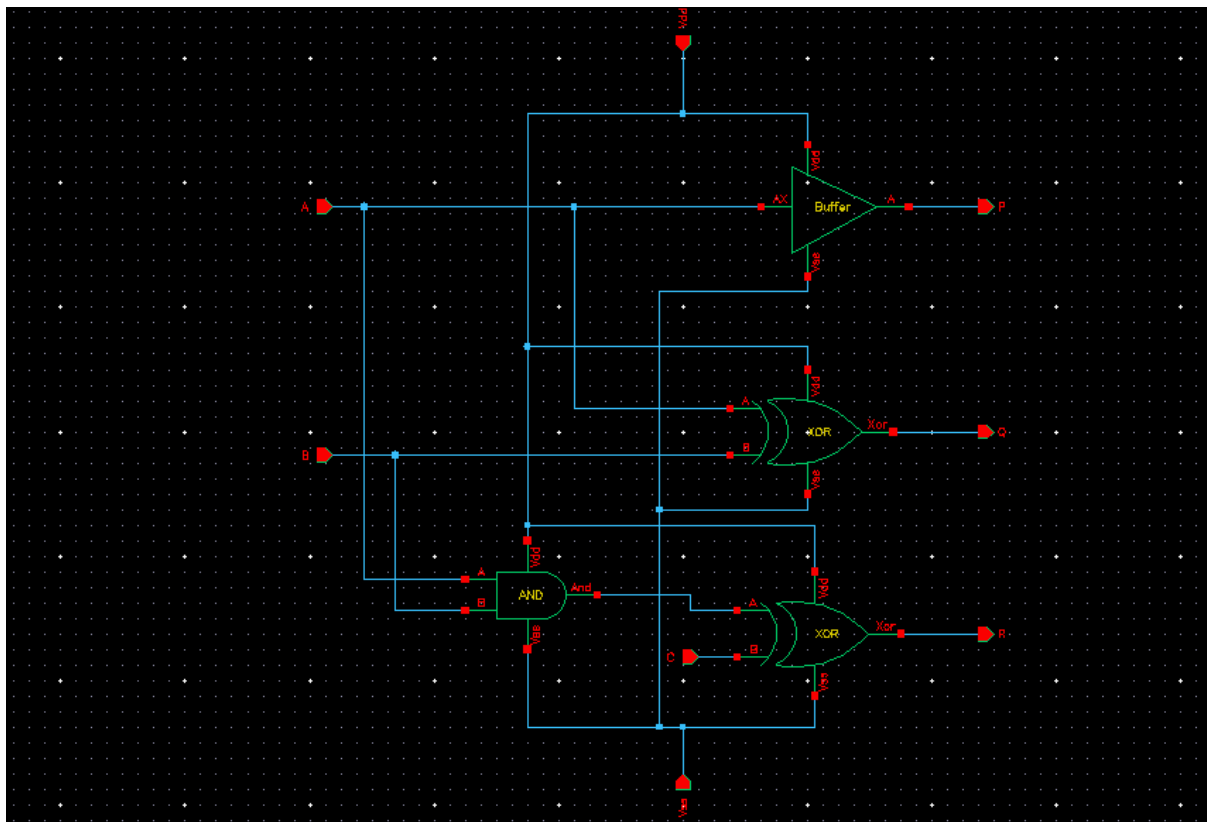




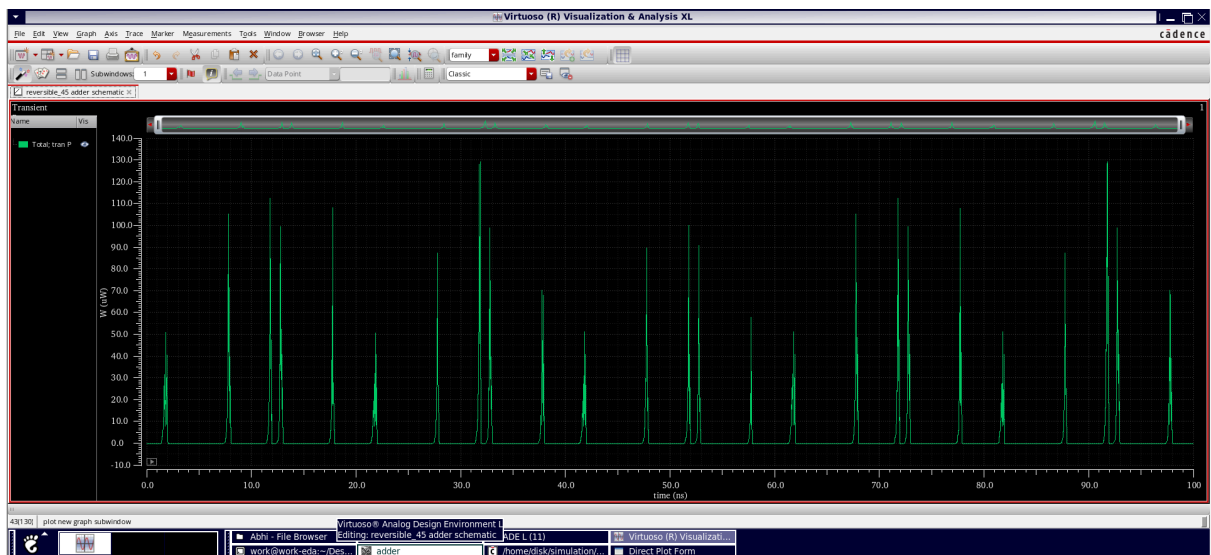
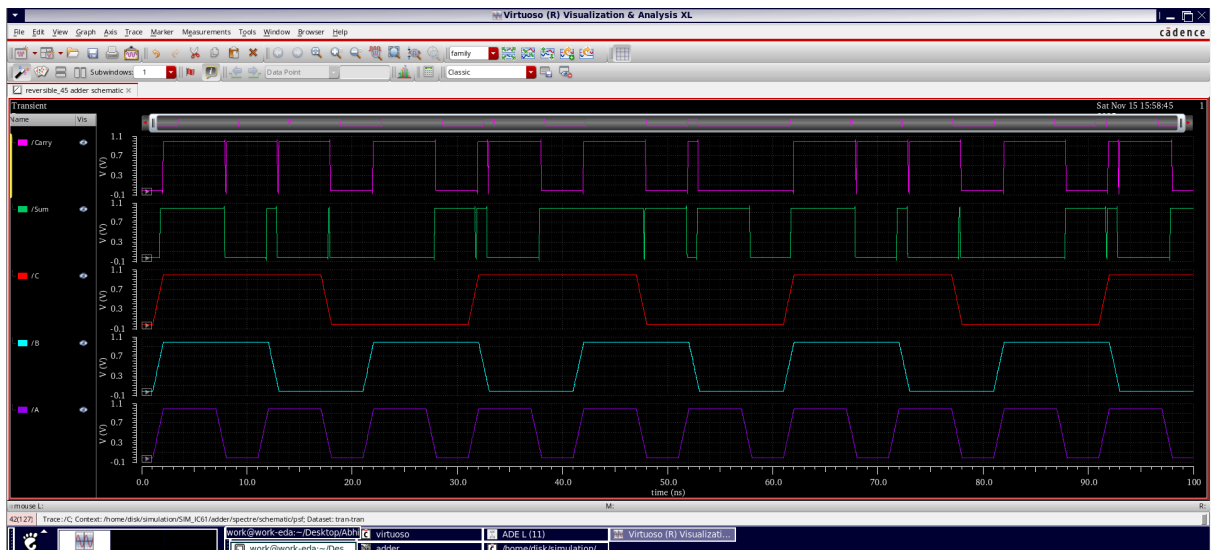
## Peres Gate:



Virtuoso (R) Visualization & Analysis XL Table	
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average(getData("pwr" ?result "tran")) x	
Expression	Value
1 average(getData...	490.4E-9



**Adder\_45nm:**



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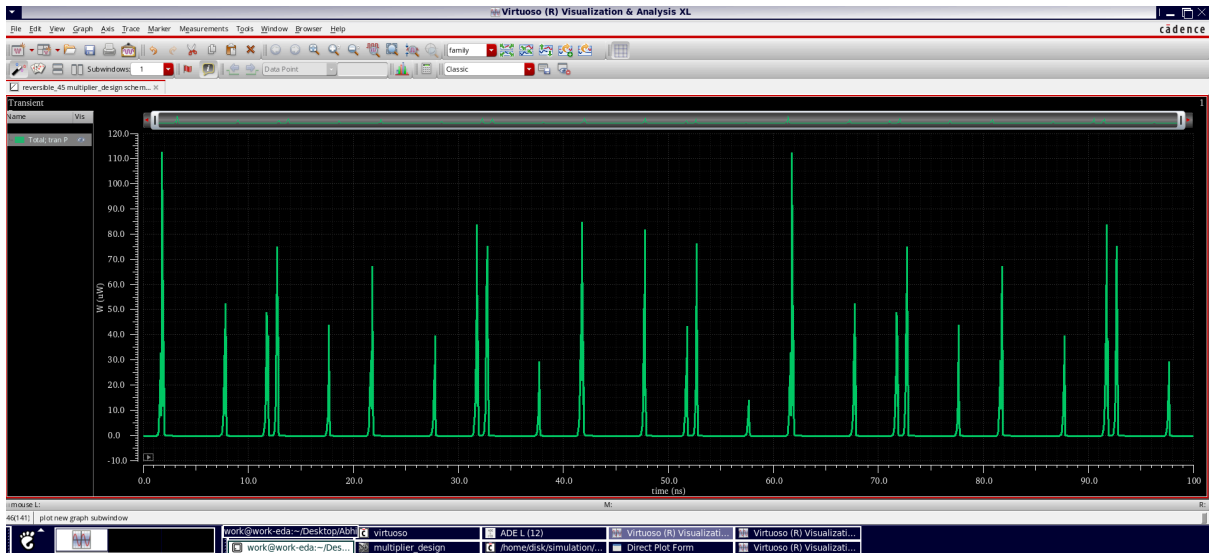
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average(getData(":pwr"?result "tran"))

Expression	Value
1 average(getData...	2.545E-6







Virtuoso (R) Visualization & Analysis XL Table

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cadence

average(getData("pwr" ?result "tran")) x

Expression	Value
1 average(getData...	1.999E-6

