ECEN 454
Lab 9

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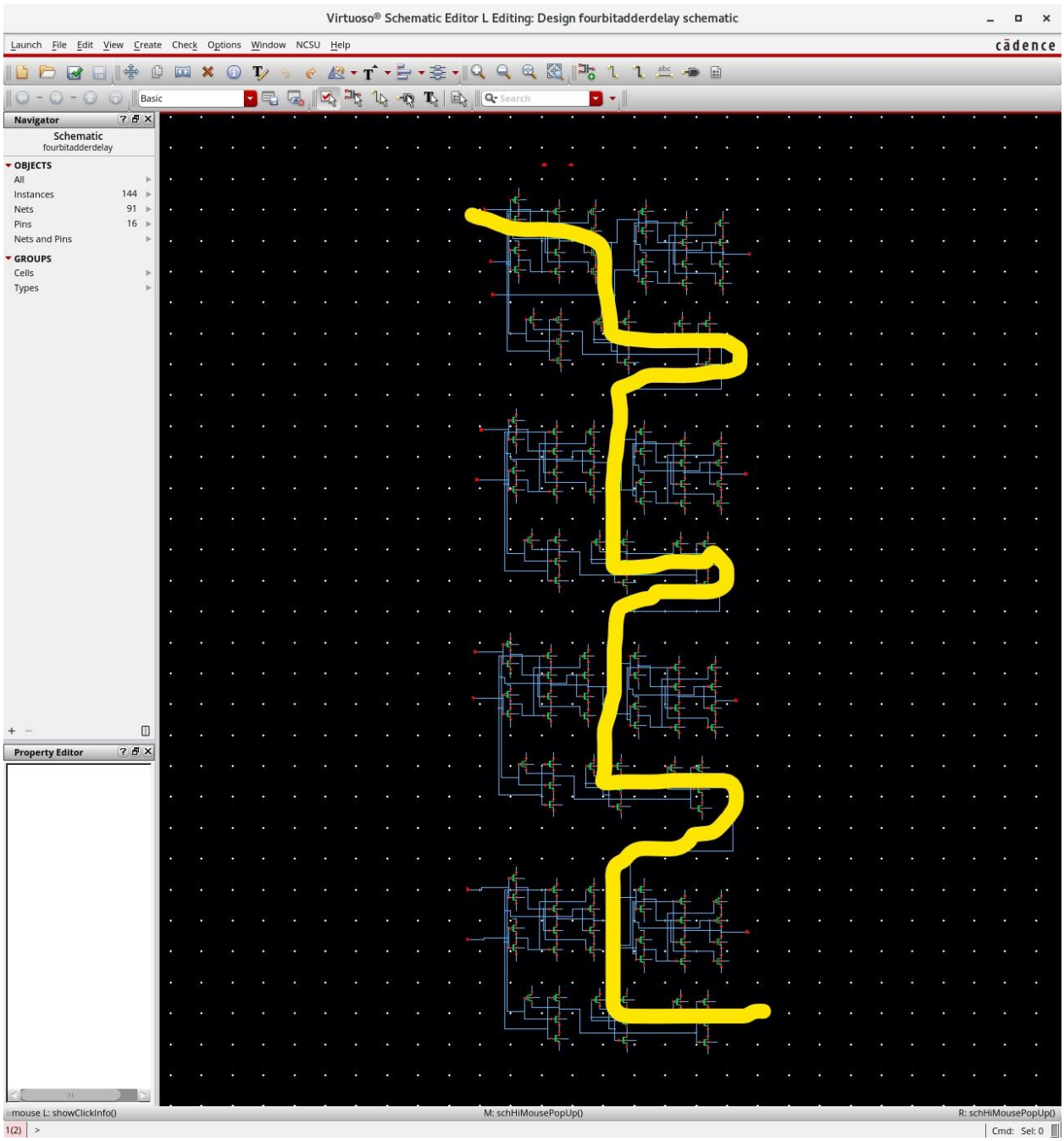
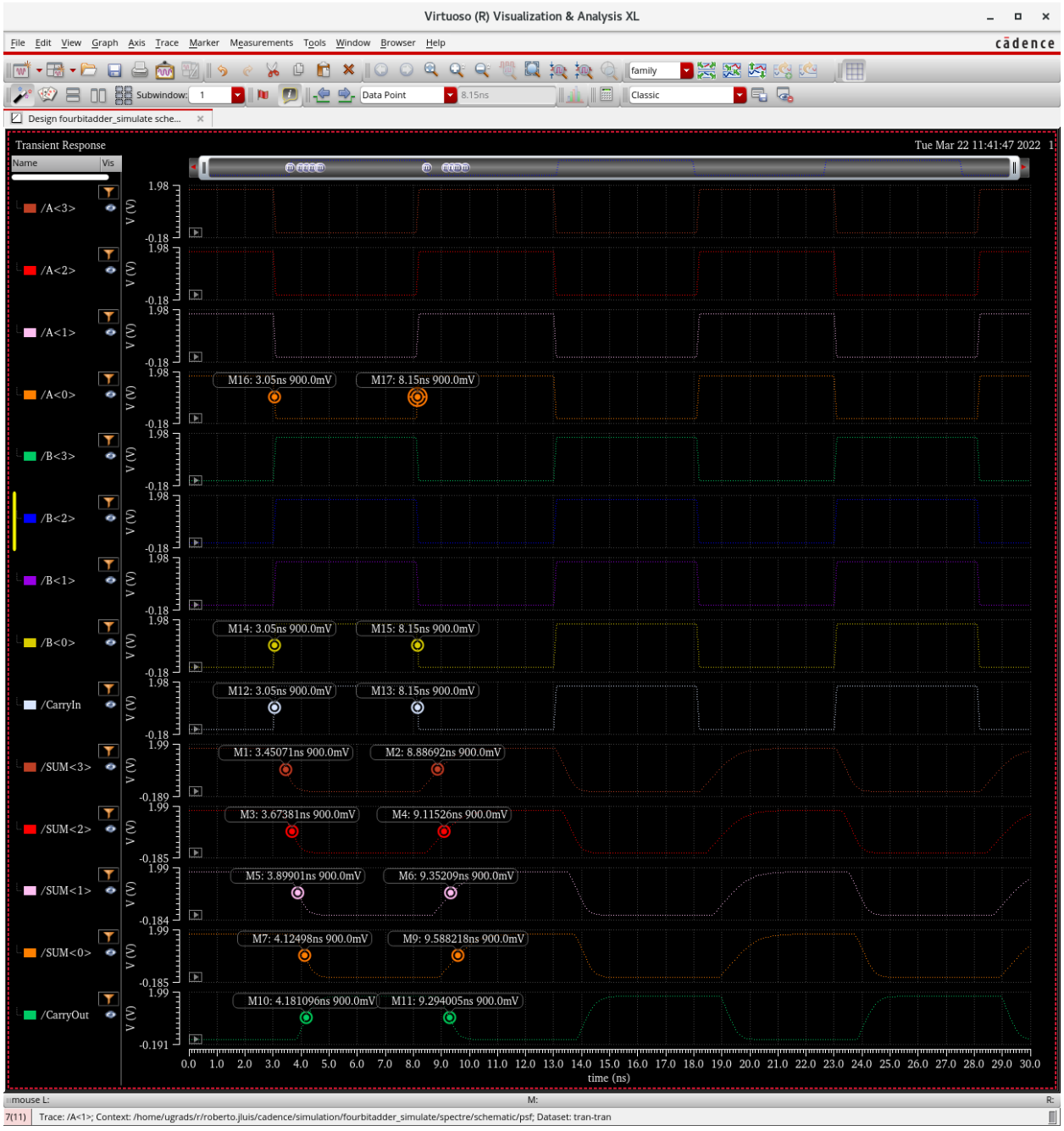
Four-bit adder:

Schematic:



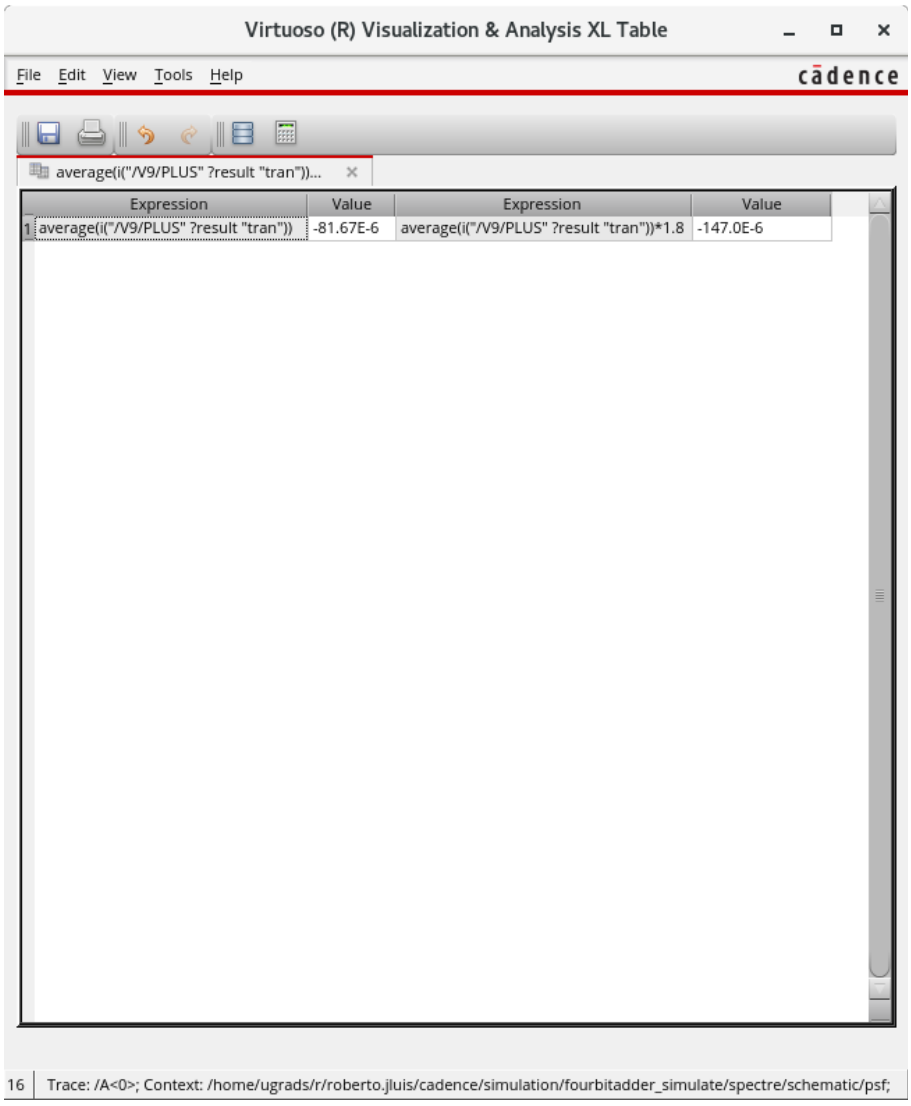
Test 1 waveform:



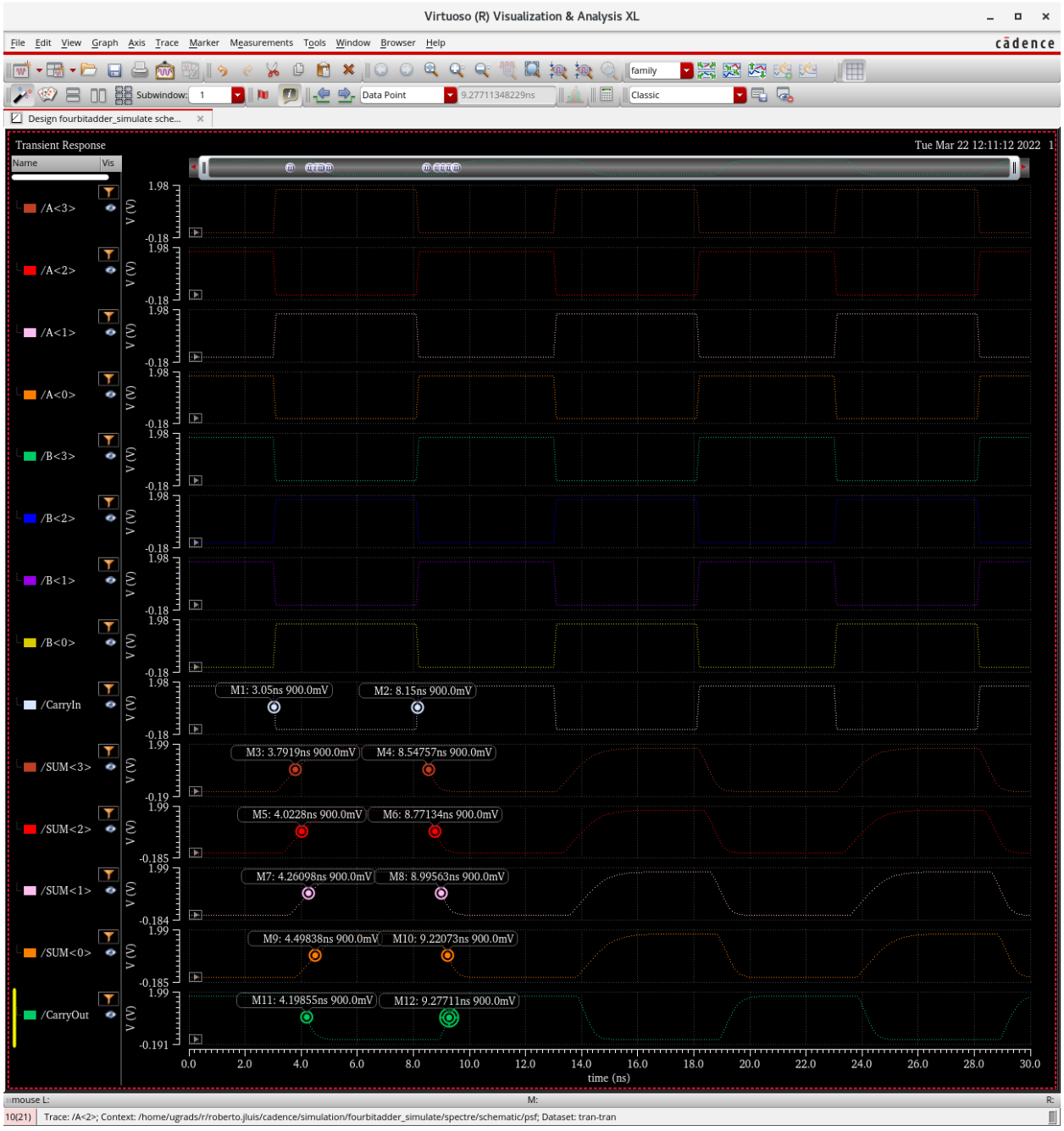
Delay:

SUM<3>	.4 ns
SUM<2>	.62 ns
SUM<1>	.849 ns
SUM<0>	1.07 ns
CarryOut	1.13 ns

Power:



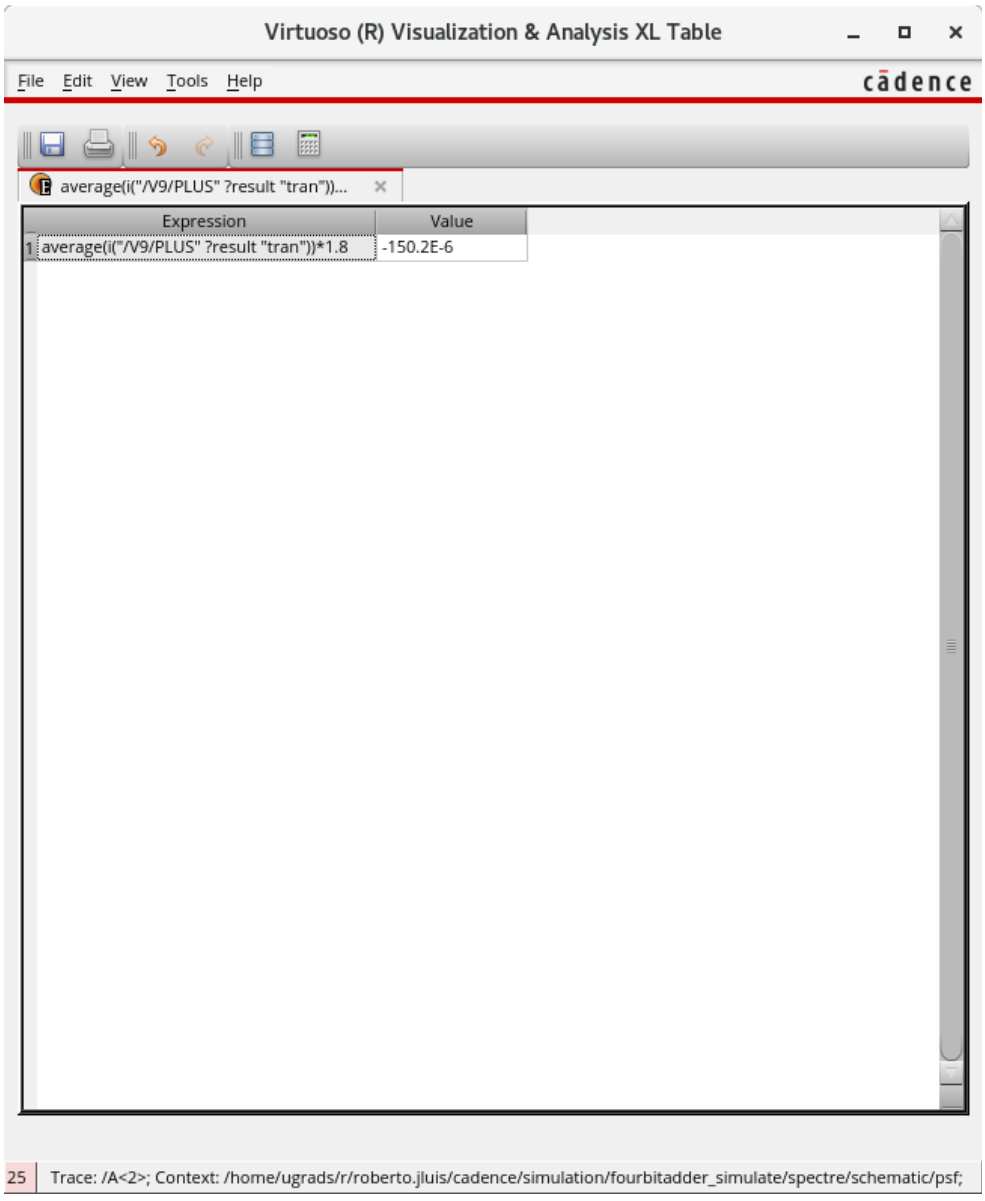
Test 2 waveform:



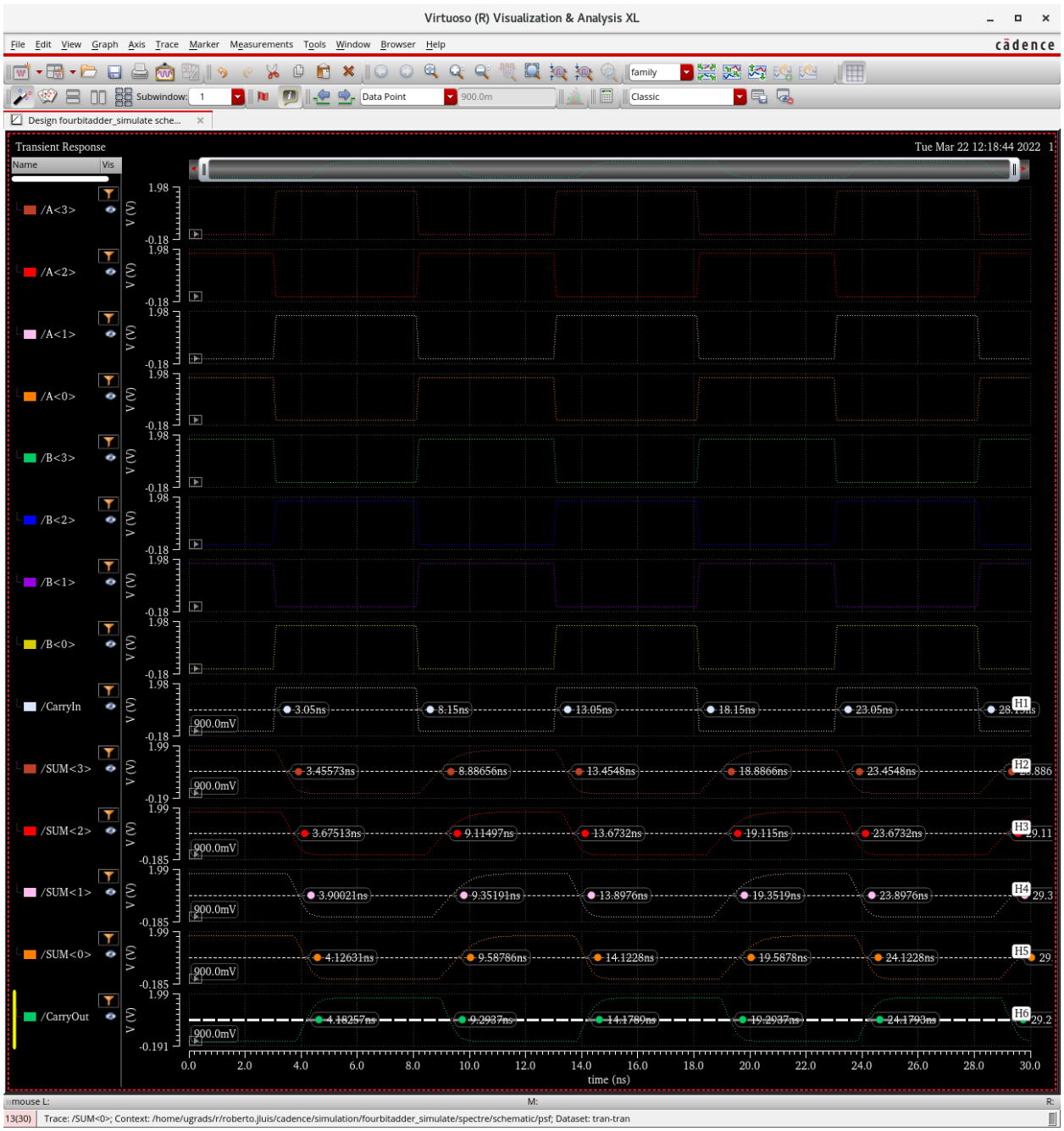
Delay:

SUM<3>	.74 ns
SUM<2>	.97 ns
SUM<1>	1.21 ns
SUM<0>	1.448 ns
CarryOut	1.148 ns

Power:



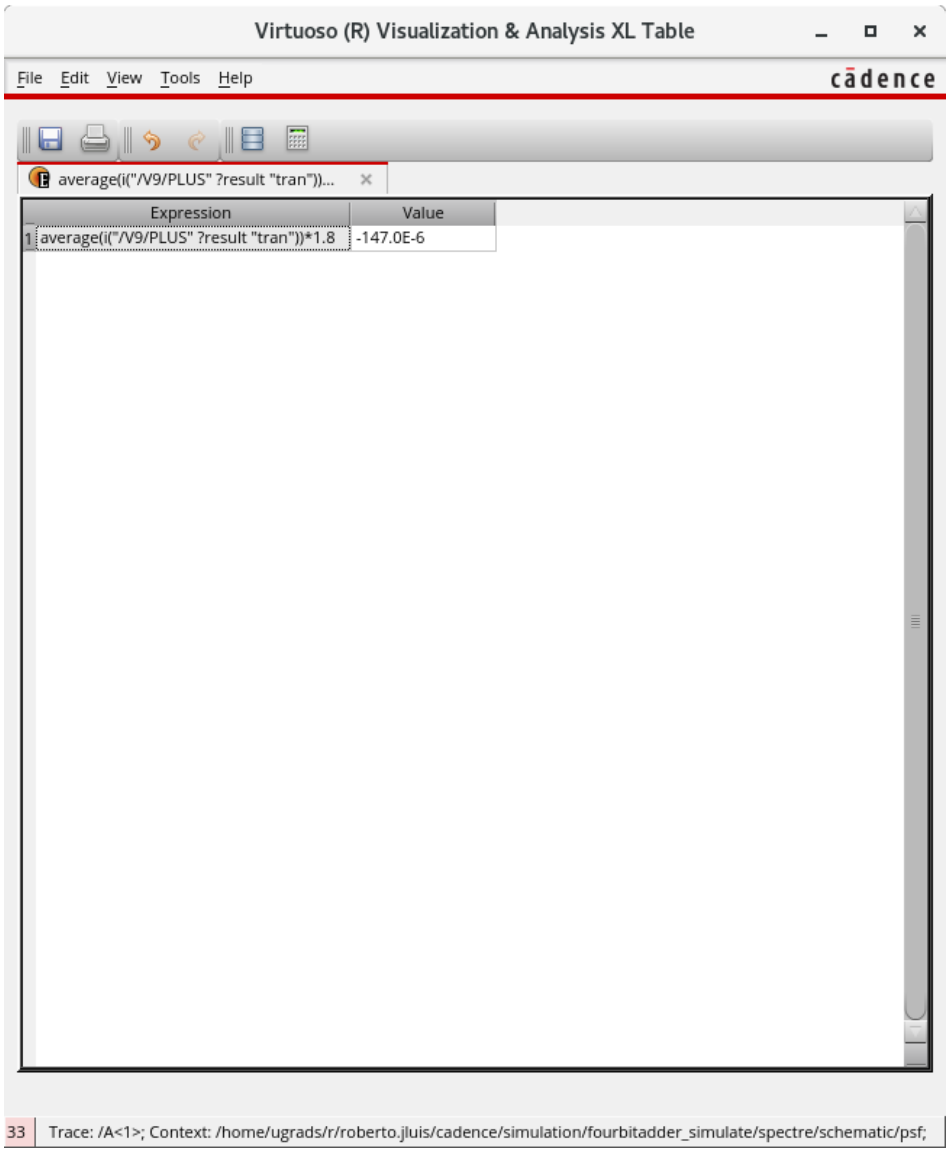
Test 3 waveform:



Delay:

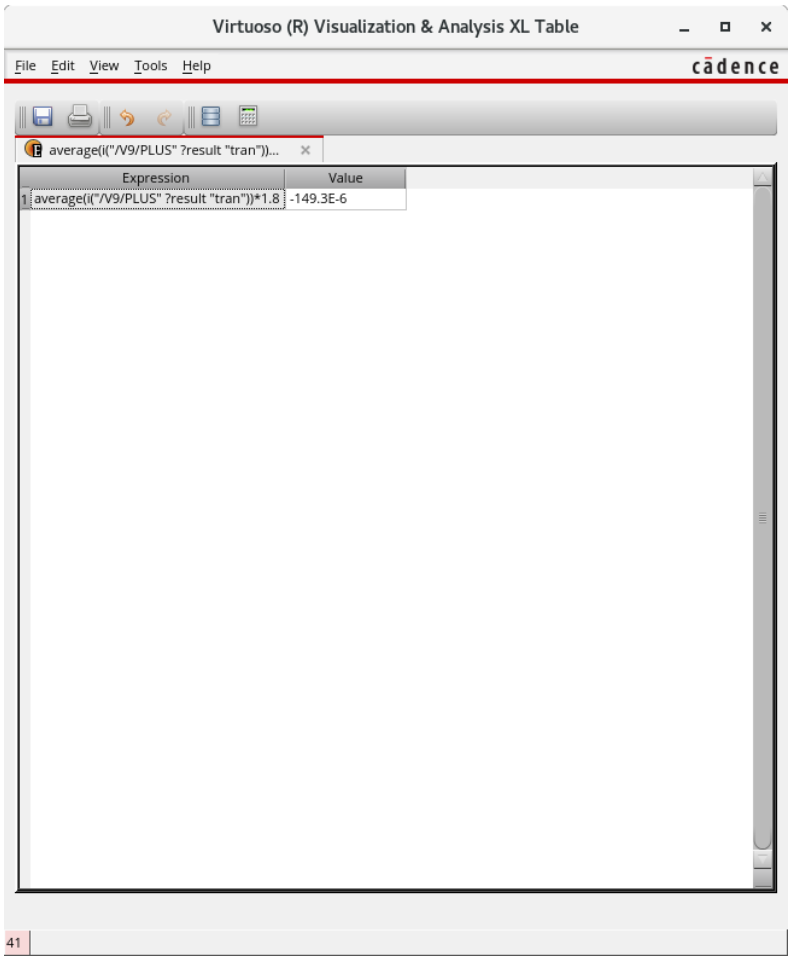
SUM<3>	.41 ns
SUM<2>	.625 ns
SUM<1>	.849 ns
SUM<0>	.85 ns
CarryOut	1.132 ns

Power:



Test 4 waveform:

Delay:

SUM<3>	.44 ns
SUM<2>	.639 ns
SUM<1>	1.251 ns
SUM<0>	.64 ns
CarryOut	.407 ns

Power: