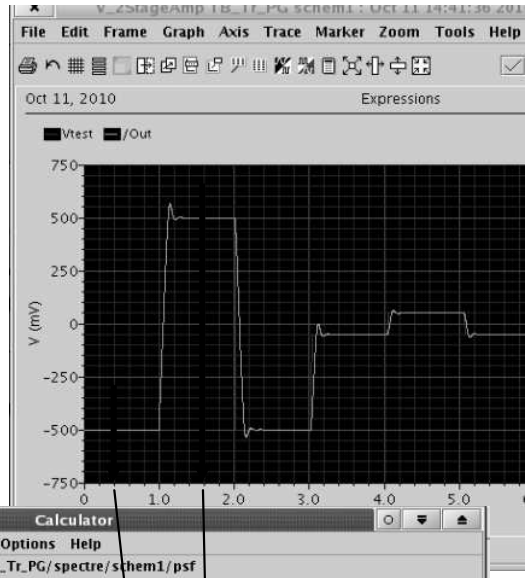
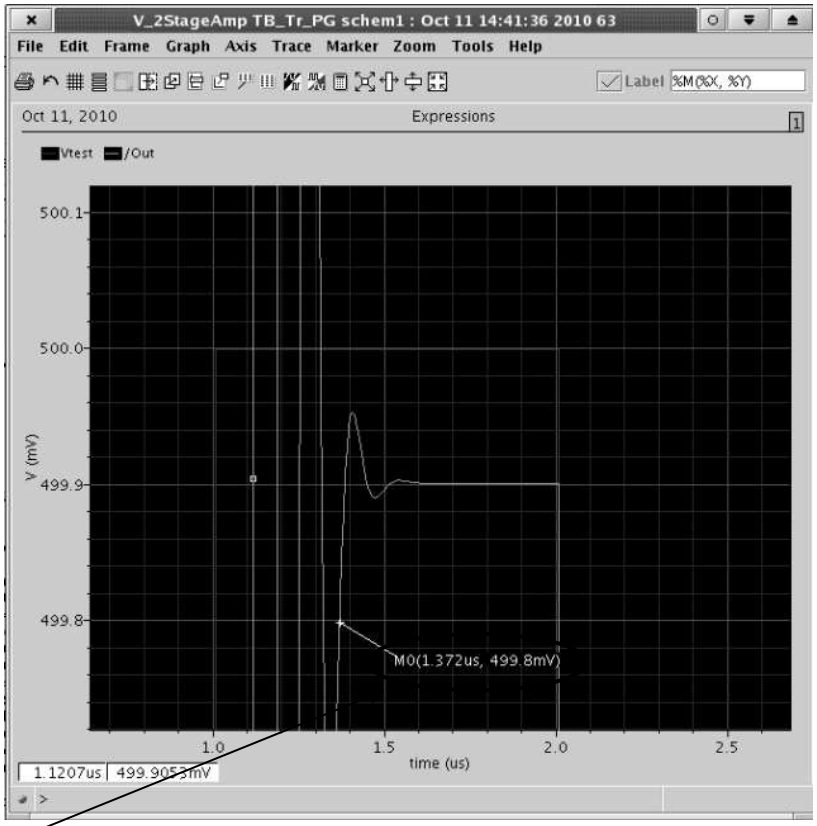
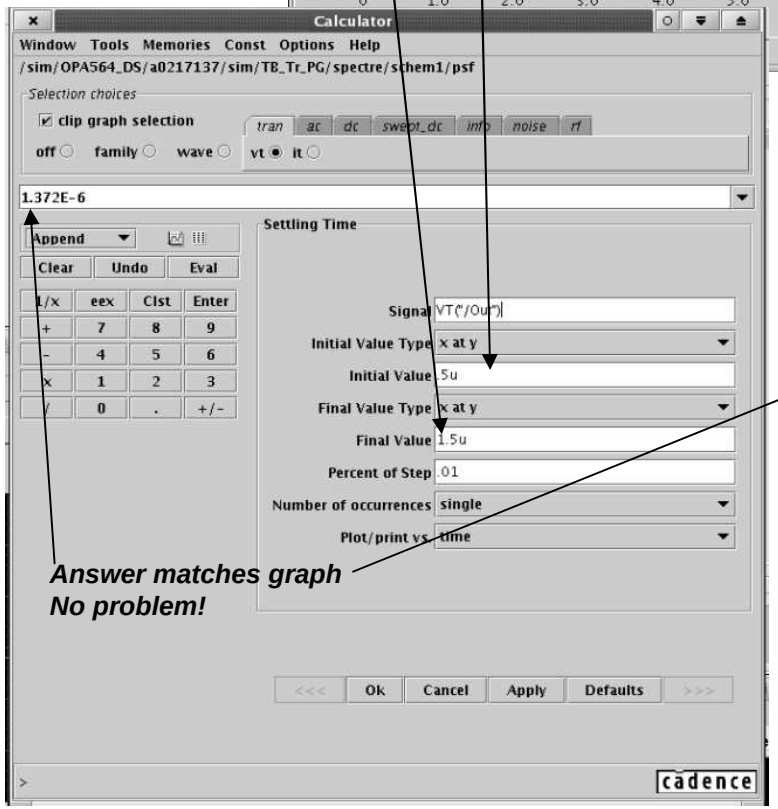
Problem: “settling time” function does not give correct answer for a signal with more than 1 step.

This happens even after setting the initial and final values such that they bound the step of interest.

Settling Time of first pulse







Answer matches graph
No problem!

Calculator function:

settlingTime(VT("/Out") .5u t 1.5u t 0.01 nil "time")

Signal of interest

Range in x:0.5u à 1.5u

Percent:0.01%

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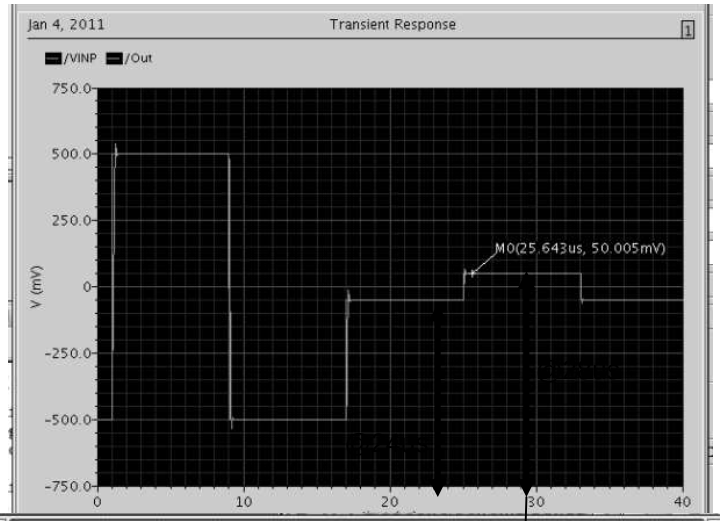
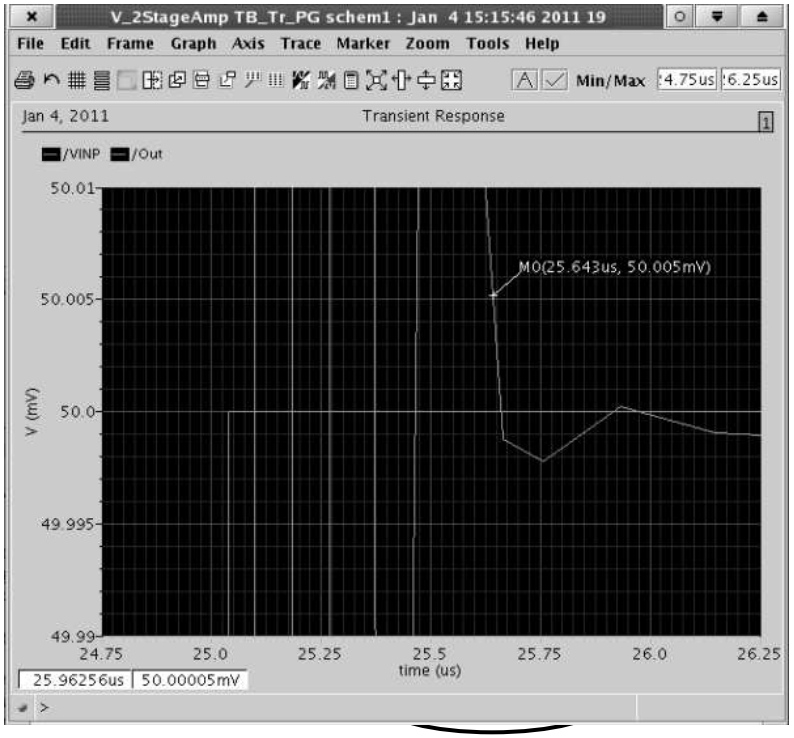
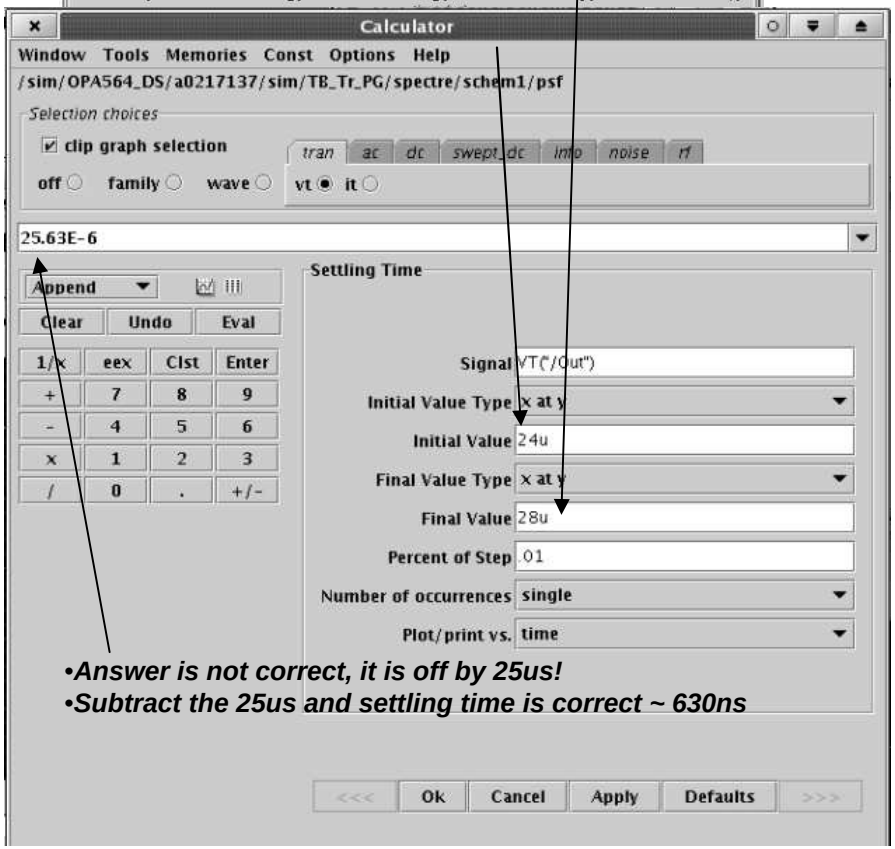
Settling Time of second pulse







- ***Answer is not correct, it is off by 25us!***
- ***Subtract the 25us and settling time is correct ~ 630ns***

(settlingTime(VT("/Out") 2.3e-05 t 3.3e-05 t 0.01 nil "time") – 25u)