

Scilab Manual for
Basic Analog VLSI lab
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Experiment: 1

CMOS Inverter Amplifier

This code can be downloaded from the website www.scilab.in

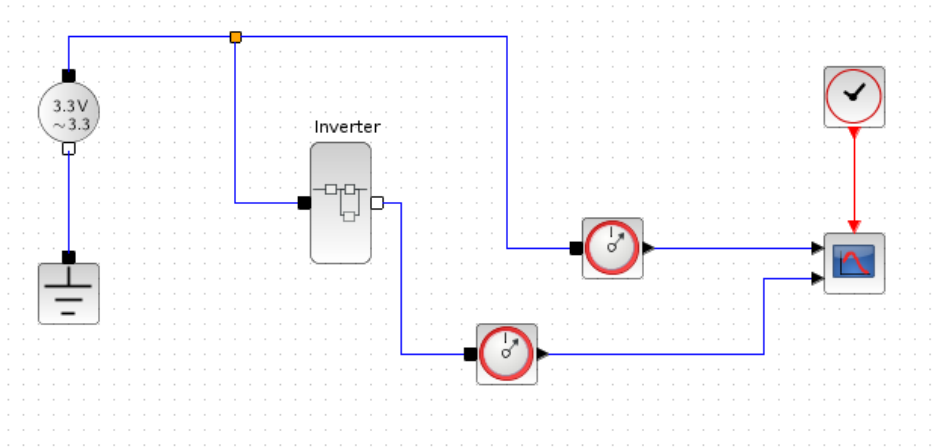


Figure 1.1: CMOS inverter

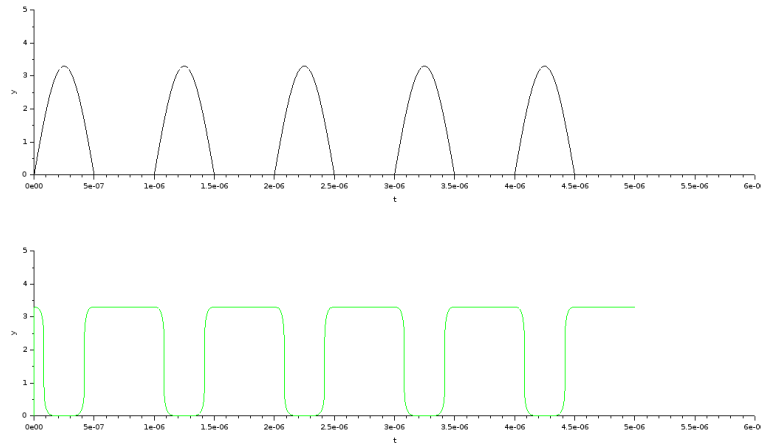


Figure 1.2: CMOS inverter

Experiment: 2

CMOS transmission gate

This code can be downloaded from the website www.scilab.in

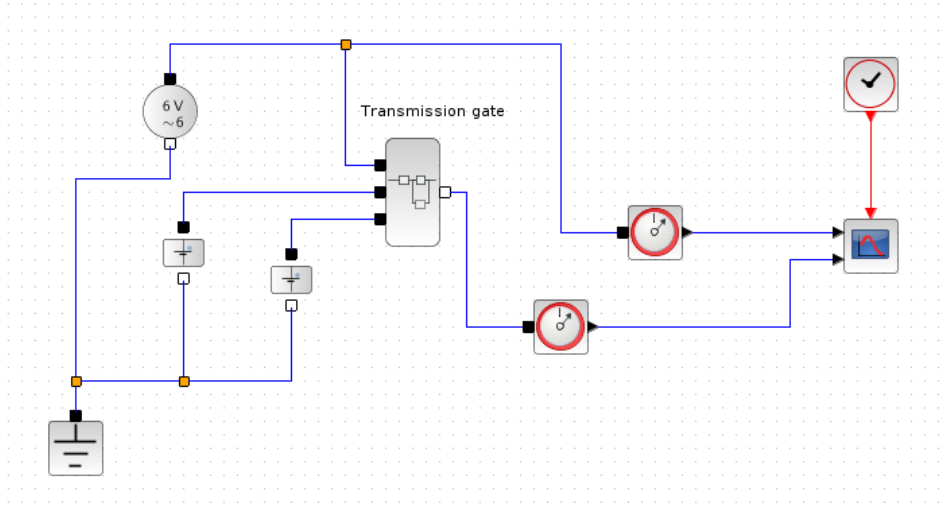


Figure 2.1: CMOS transmission gate

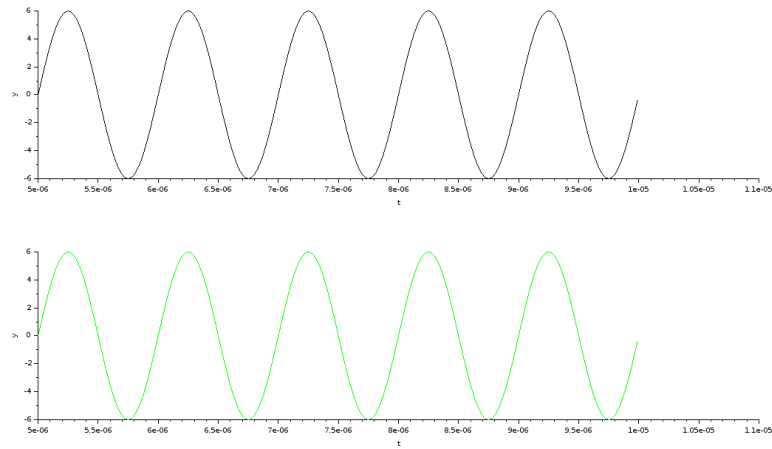


Figure 2.2: CMOS transmission gate

Experiment: 3

NMOS current mirror circuit

This code can be downloaded from the website www.scilab.in

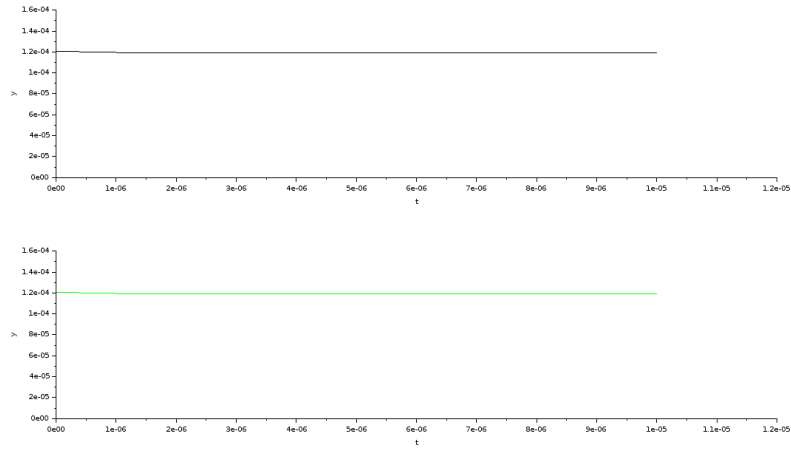


Figure 3.1: Basic current mirror circuit

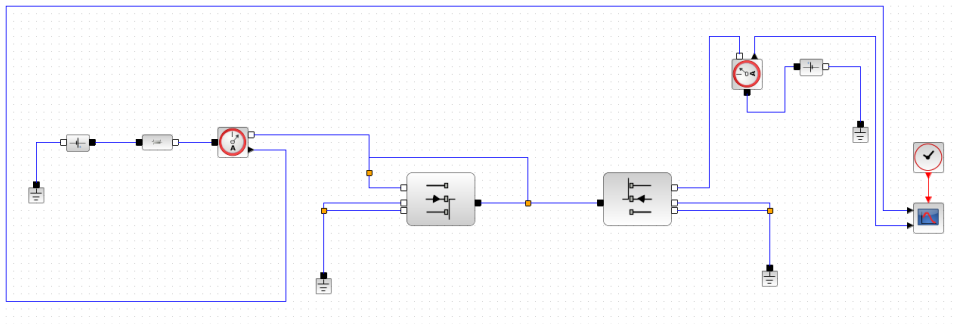


Figure 3.2: Basic current mirror circuit

Experiment: 4

NMOS Cascode current mirror circuit

This code can be downloaded from the website www.scilab.in

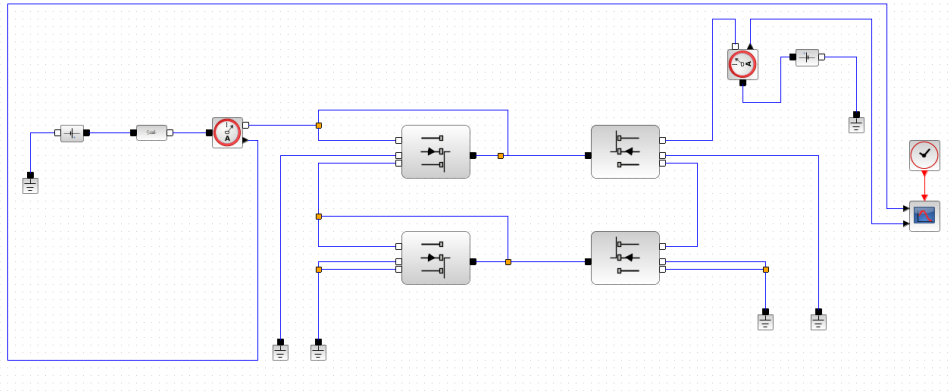


Figure 4.1: Cascode current source

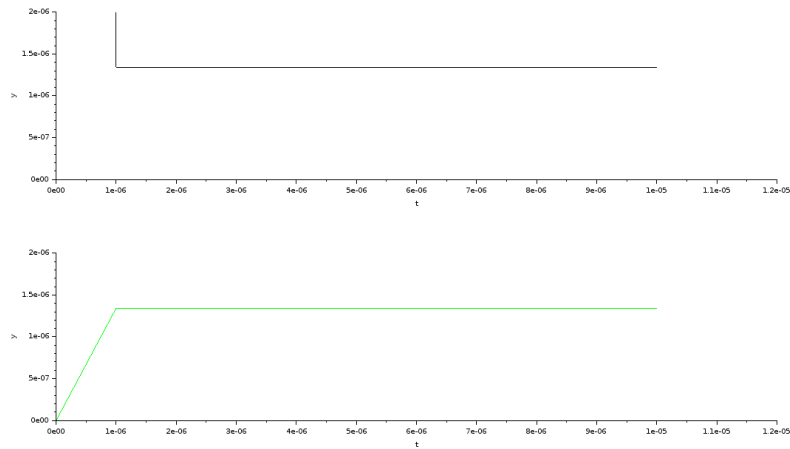


Figure 4.2: Cascode current source

Experiment: 5

NMOS Wilson current mirror circuit

This code can be downloaded from the website www.scilab.in

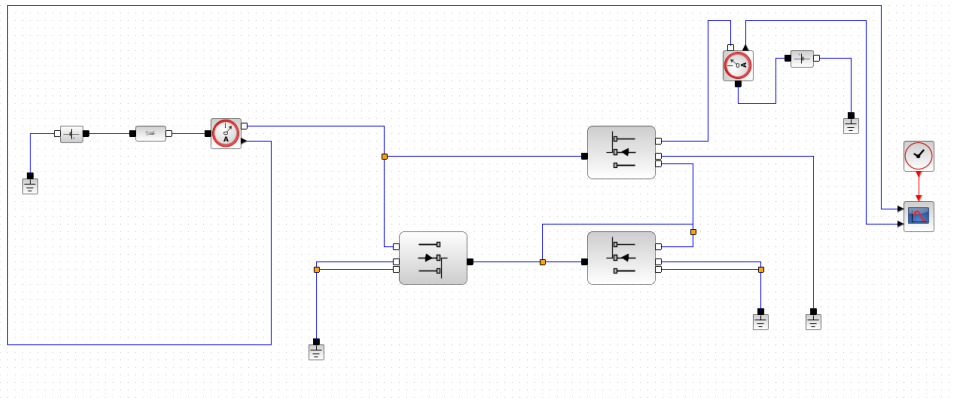


Figure 5.1: Wilson current mirror

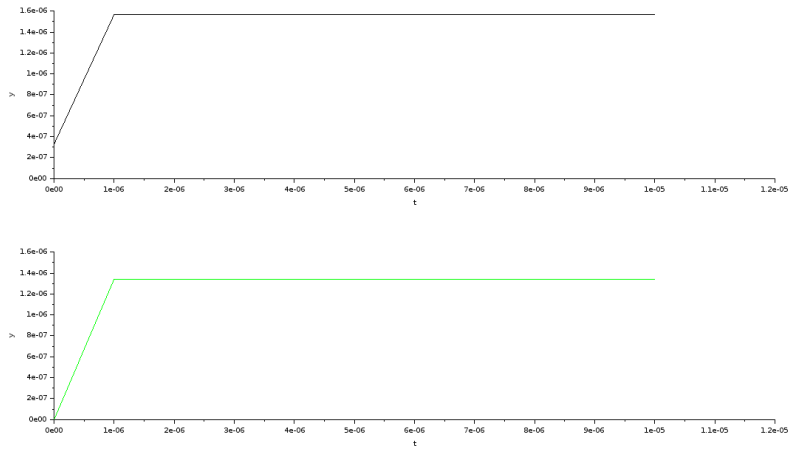


Figure 5.2: Wilson current mirror