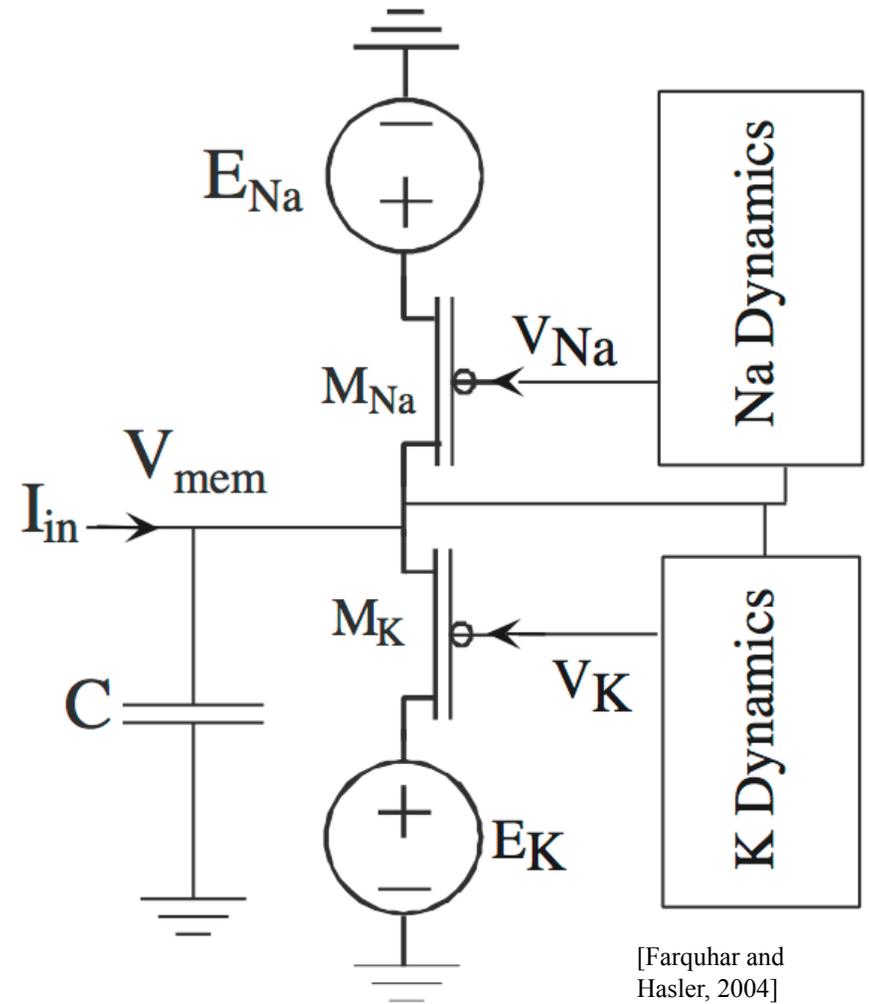
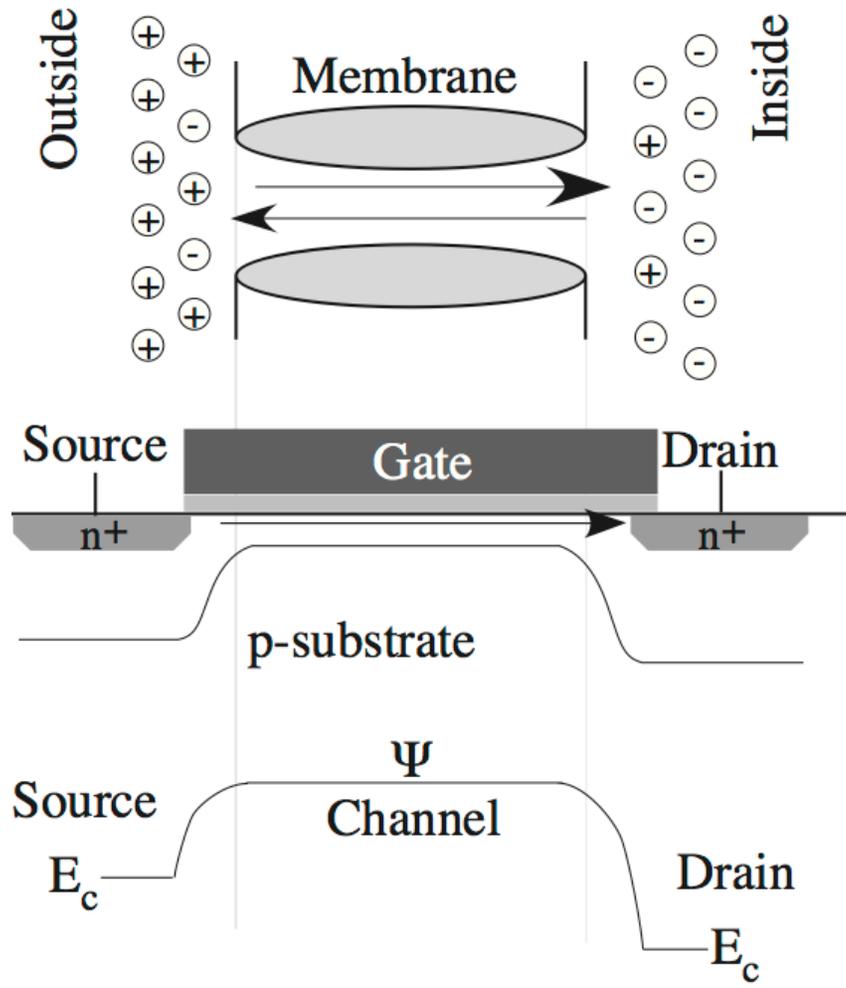
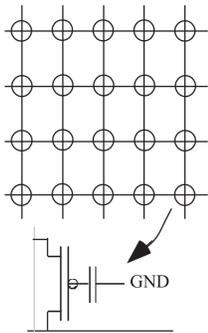


Transistor Channel Model



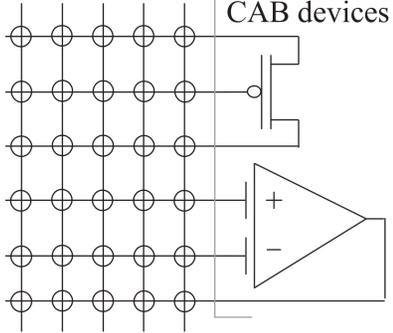
[Farquhar and Hasler, 2004]

Local Routing



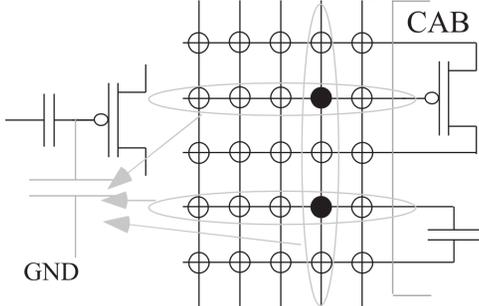
I. Switches as prog devices

Local Routing



II. Area ~ # of Routing Pins

Local Routing

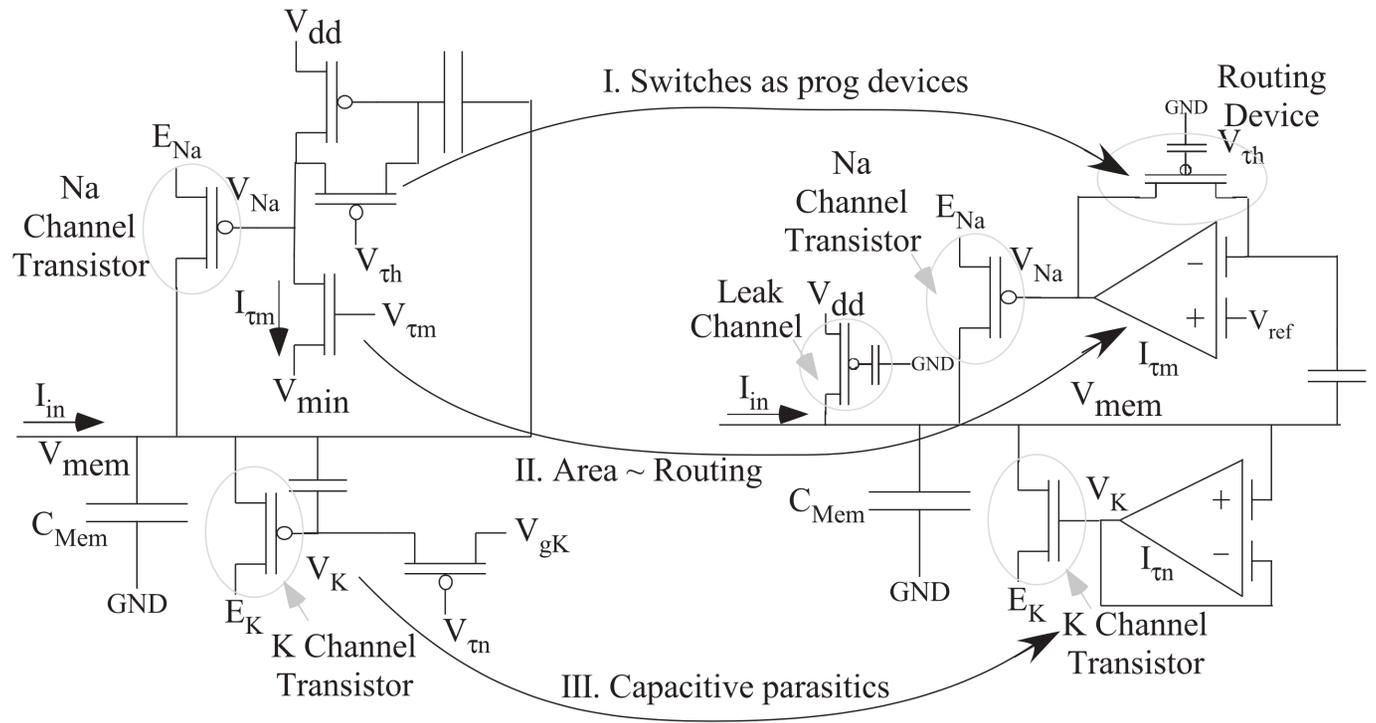


III. Capacitive inputs have large parasitics/attenuation

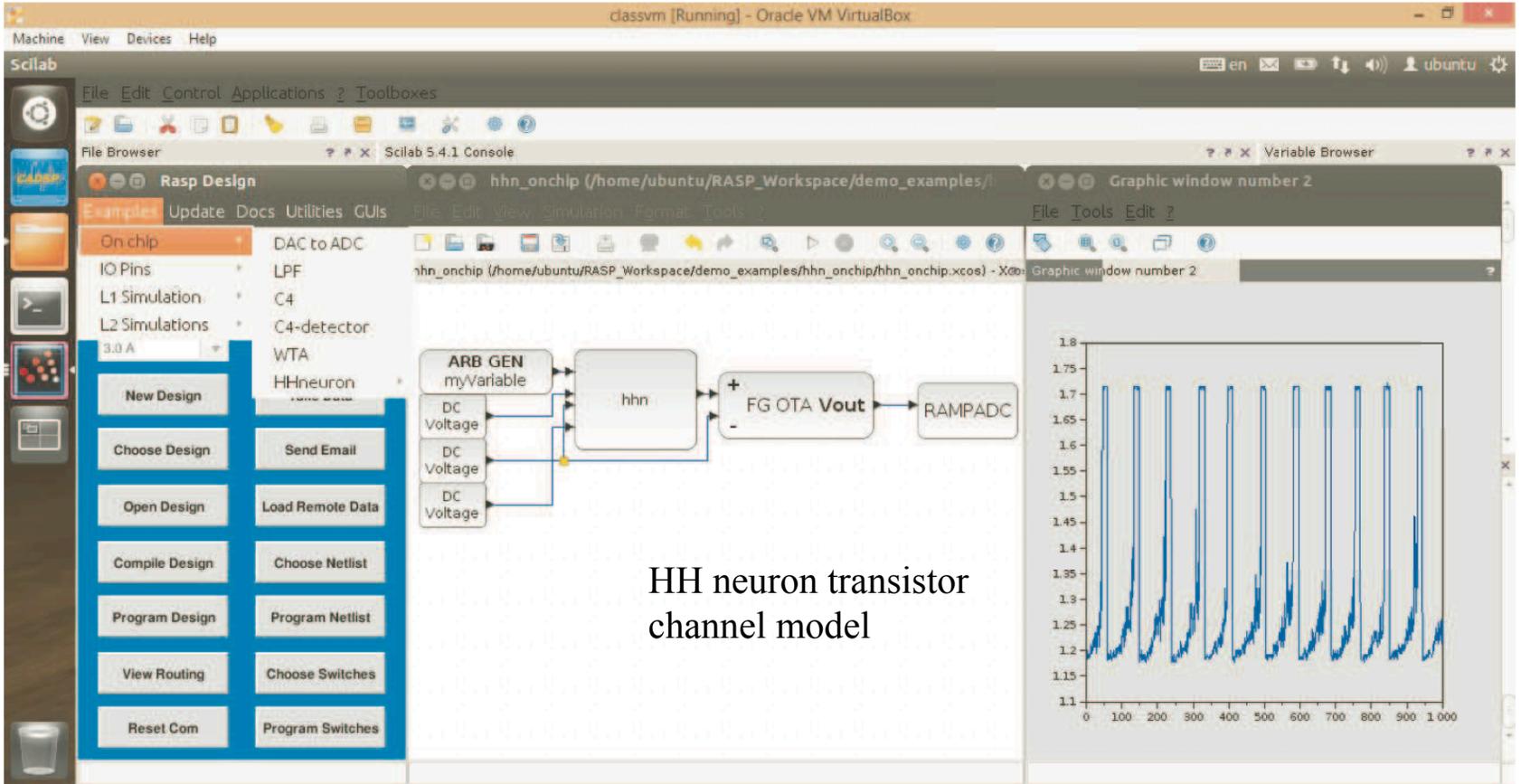
Conversion of HH Channel Neuron from Custom Design to Targeted FPAAs Design

Farquhar Transistor Channel Model

FPAAs Transistor Channel Model



FPAA HH Neuron Example Block and Measurement



Experiment Session

Compile an HH Neuron Block.
See the neuron spikes.
(No indirect programming
mismatch compensation)

You can modify the input signal
with a higher input current,
and re-run the computation.

