

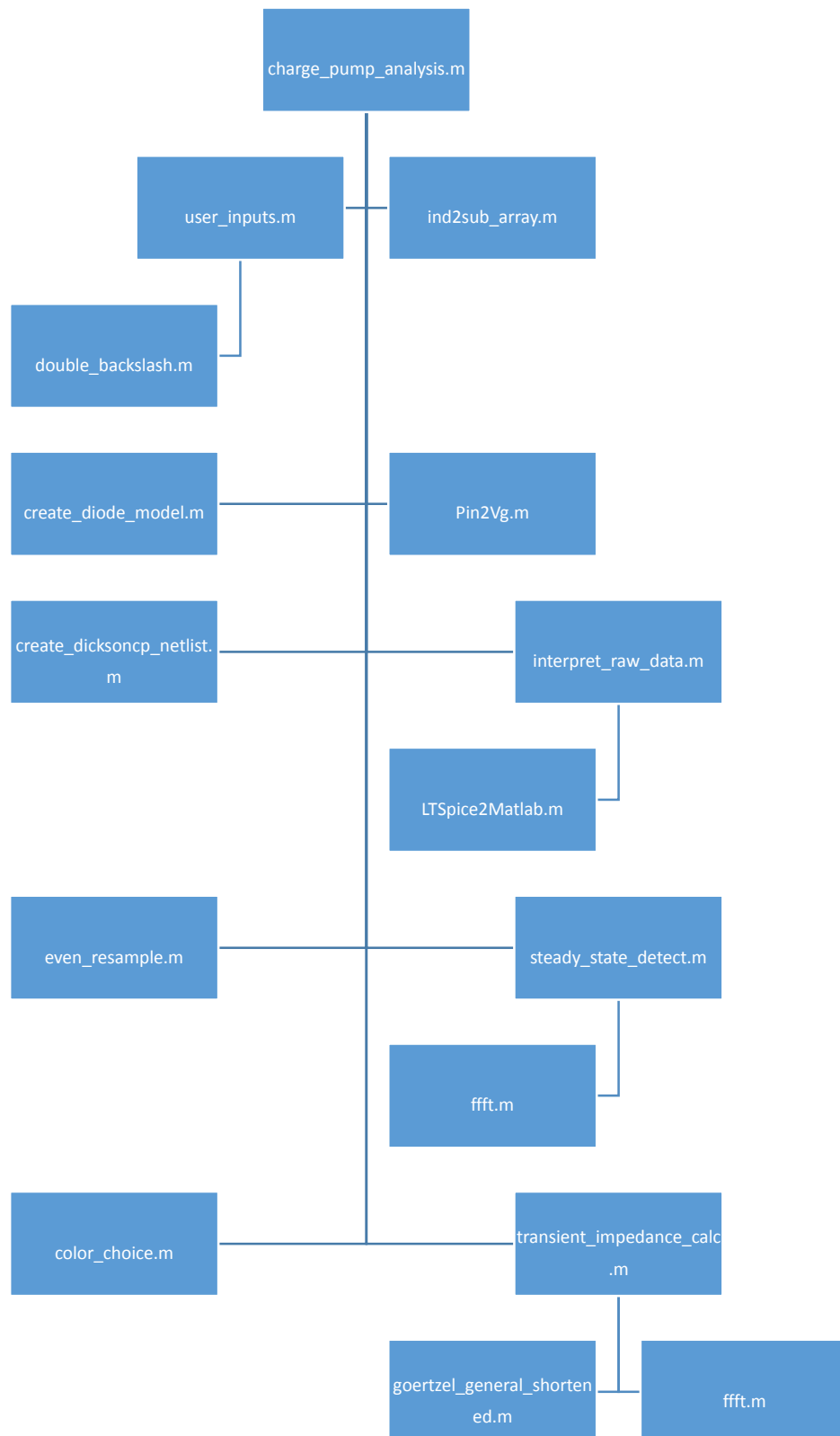
Charge Pump Analysis

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M-file Execution Hierarchy



Getting Started

Software requirements:

1. MATLAB (paid) or Octave (free)
2. LTspice IV (free)

Note: This software was developed under a Windows operating system. While it may work under OS X or other LTspice supported operating systems, this may require some changes to the code.

Running the code:

1. Add LTspice executable to the system path (first time only)
 - a. Find LTspice executable (scad3.exe) in Windows Explorer
 - i. By default this is C:\Program Files (x86)\LTC\LTspiceIV\scad3.exe
 - b. Add the path of scad3.exe to the system path
 - i. Click Start -> Control Panel -> System -> Advanced system settings -> Environment Variables...
 - ii. Under System variables, find Path in the list box
 - iii. Click on Path, then click "Edit..."
 - iv. Append the path of scad3.exe to the Environment value string
(For example, by default append ";C:\Program Files (x86)\LTC\LTspiceIV" to the end of the Variable value string. Do not delete any of the current values.)
2. Adjust the simulation settings in the user_inputs.m file and save. Under normal operation, there should be no need to make changes to any other files
3. Run the charge_pump_analysis.m script

Dickson Charge Pump Topology

