Define simulation parameters

Configuration parameters

Reference frequency	DCO gain	Initial frequency error
Divider modulus	DCO nominal frequency	Loop filter
TDC resolution	DCO phase noise power	Simulation steps

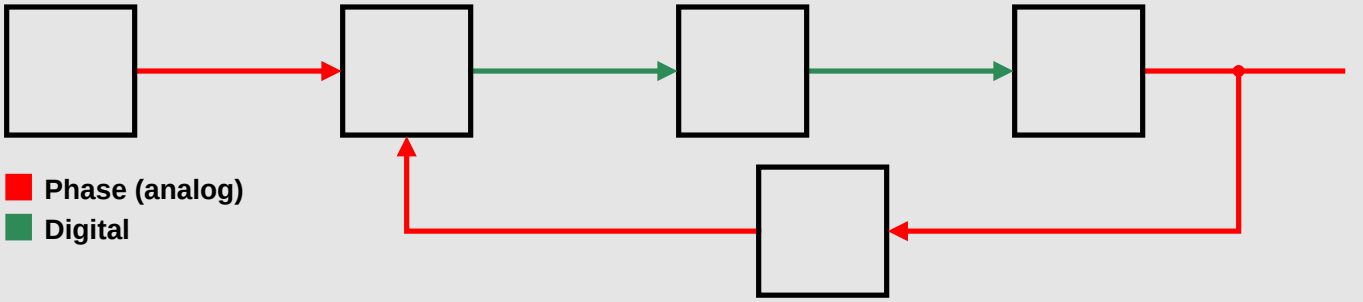
Initialize simulation

Instantiate model class objects

Initialize simulation data arrays

Run simulation

for n in range(simulation_steps):



Post-processing

Extract data and plot results

Phase noise spectrum

Transient responses

Lock time