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# **This file contains everything to run your experiment automatically**

## **PLEASE READ THE INSTALL.md FILE FIRST**

```
%clear all;
%clc all;
%mkdir datasets reports
%Specify your needs
tF = 0:0.1:120; % Simulation Time
n = 2;          % n new datasets
profile on
% Load the MATLAB-model
matlab_model = model_toettcher2008matlab(tF);
% Load the IQM-model
iqm_model = model_toettcher2008iqm(tF);
% Load the MEX-model
mex_model = model_toettcher2008mex(tF);
% Verify IQM vs MATLAB
tic
run verification_iqm.m;
toc

% Verify MEX vs MATLAB
tic
run verification_mex.m;
toc

% Verify IQM vs MEX
tic
run verification_iqm_mex.m;
toc

% Change default ICs (Gaussian)
tic
random_ic = lognrnd_ic(n);
toc

% Check distribution of new ICs

% Generate data
tic
generation_temp(n);
toc

% Data2Wanderlust

% Print report
```

Elapsed time is 0.940910 seconds.  
Building with 'Xcode with Clang'.  
MEX completed successfully.  
Elapsed time is 5.153531 seconds.  
Elapsed time is 0.017133 seconds.  
Elapsed time is 1.400831 seconds.  
Elapsed time is 10.062839 seconds.  
Elapsed time is 1.396495 seconds.  
Building with 'Xcode with Clang'.  
MEX completed successfully.  
Elapsed time is 5.218736 seconds.  
Elapsed time is 0.020595 seconds.  
Elapsed time is 0.555770 seconds.  
Building with 'Xcode with Clang'.  
MEX completed successfully.  
Elapsed time is 5.627505 seconds.  
Elapsed time is 0.023492 seconds.  
Elapsed time is 0.516498 seconds.  
Elapsed time is 5.759809 seconds.  
Elapsed time is 12.481249 seconds.  
Elapsed time is 12.520231 seconds.







