

Matlab Profiler Save to HTML

back to [Fan's Intro Math for Econ](#), [Matlab Examples](#), or [MEconTools Repositories](#)

Profiling Lines of Code

There is a program that we have written. We want to know which lines of code is taking more or less time, and identify opportunities for speed improvement. Use Matlab Profiler to run through code and generate performance report line by line. This can be achieved by clicking on the Run and Time button under the Editor Pane. Below, we start the profiler inline, run a function, and save profiling results to a HTML file.

The function below finds the file to the current m file where the profiler is running at, and generates a subfolder which will contain a subfolder that contains all HTML results from a particular profiler timing run.

```
% Define profiling folder and file names
% Find current path to m file and generates profiling subfolder
srn_profile_folder = '_profile';
% Name of the profiling output folder (including HTML files)
srn_mprofile_subfolder = 'fs_profiler_tester';

% Turn profiler on
profile on

% OLS Regression
fci_ols_lin = @(y, x) (x'*x)^(-1)*(x'*y);
% Regression inputs
it_obs_n = 10000;
it_k_n = 5;
rng(123);
ar_y = rand([it_obs_n,1]);
mt_x = rand([it_obs_n, it_k_n]);
% Regression
ar_esti = fci_ols_lin(ar_y, mt_x);

% Turn Profiler off
profile off;

% Save profiling results to file
% Find current file folder and generate a profiling subfolder
spn_path2file = matlab.desktop.editor.getActiveFilename;
[spt_path_folder_root, ~, ~] = fileparts(spn_path2file);
spn_profiler = fullfile(spt_path_folder_root, srn_profile_folder);
if ~exist(spn_profiler, 'dir')
    mkdir(spn_profiler);
end

% Store results to file
spn_profiler_results = fullfile(spn_profiler, srn_mprofile_subfolder);
profsave(profile('info'), spn_profiler_results);
```