

Serial non-optimized Code

PROFILING
tools: profiler

See where most of the time is spent

Part of the code can be optimized?

YES

STEP 1

Create simplified framework to test

Tools:
- mex
- oct
- faster algorithms

back in original code

optimize framework

analyse new performance

Test for consistent results

NO

PARALLELISATION of code

Check for independent sections 1st and where time is spent on

Section of the code can be ported in parallel?

YES

STEP 2

Create simplified framework to test

Tools:
- parfor Matlab
- p- Matlab, Matlab.MF libraries

parallelize framework

back in original code

benchmark code on larger data & Number of processors

Test for consistent results with $N_{proc}=1$ than $N_{proc}>1$

NO

Optimized & parallel code