Tips to use MATLAB parallel computing toolbox

Kai Du

21/12/2020



Figure 1: Structure

Parallel computing toolbox enables researchers to harness a multicore computer, GPU, cluster and even cloud to solve computationally and data-intensive problems.

However, there are some options to use it (e.g. *parfeval*, *parfor* and even *spmd*), such as

n = 100; parfor (or parfeval) i = 1:n output(i)=Function(input(i)) end

As MATLAB suggested, *parfor* and *parfeval* usually perform better than *spmd* for a set of tasks under these conditions:

▶ The computational time taken per task is not deterministic.