



6,26E+07	6,71E+07	6,65E+07	6,14E+07	7,03E+07	6,56E+07	1,52E+08	1,48E+08	1,52E+08	1,50E+08	1,48E+08	1,50E+08	2,29
6,07E+07	7,29E+07	6,08E+07	6,99E+07	7,25E+07	6,74E+07	1,49E+08	1,49E+08	1,51E+08	1,52E+08	1,49E+08	1,50E+08	2,23
6,82E+07	6,74E+07	6,72E+07	6,66E+07	6,86E+07	6,76E+07	1,49E+08	1,46E+08	1,51E+08	1,49E+08	1,50E+08	1,49E+08	2,21
6,84E+07	9,33E+07	5,77E+07	6,69E+07	6,76E+07	7,08E+07	1,49E+08	1,48E+08	1,51E+08	1,47E+08	1,48E+08	1,49E+08	2,10
6,76E+07	6,38E+07	8,27E+07	6,73E+07	1,03E+08	7,69E+07	1,51E+08	1,49E+08	1,51E+08	1,50E+08	1,46E+08	1,49E+08	1,94
6,45E+07	6,67E+07	5,98E+07	6,32E+07	6,70E+07	6,42E+07	1,49E+08	1,47E+08	1,50E+08	1,52E+08	1,48E+08	1,49E+08	2,32
6,70E+07	1,89E+08	1,09E+08	8,92E+07	7,67E+07	1,06E+08	1,48E+08	1,49E+08	1,47E+08	1,55E+08	1,46E+08	1,49E+08	1,40
6,80E+07	6,26E+07	6,68E+07	5,88E+07	1,07E+08	7,27E+07	1,47E+08	1,52E+08	1,50E+08	1,47E+08	1,48E+08	1,49E+08	2,05
1,09E+08	6,94E+07	6,94E+07	6,71E+07	6,68E+07	7,63E+07	1,52E+08	1,49E+08	1,50E+08	1,49E+08	1,50E+08	1,50E+08	1,96
6,47E+07	8,69E+07	5,87E+07	5,77E+07	6,83E+07	6,73E+07	1,53E+08	1,48E+08	1,49E+08	1,48E+08	1,47E+08	1,49E+08	2,21
6,63E+07	6,73E+07	6,69E+07	6,73E+07	9,38E+07	7,23E+07	1,48E+08	1,48E+08	1,50E+08	1,52E+08	1,52E+08	1,50E+08	2,07
6,75E+07	6,43E+07	6,70E+07	6,41E+07	6,39E+07	6,54E+07	1,48E+08	1,50E+08	1,48E+08	1,50E+08	1,51E+08	1,49E+08	2,29
6,73E+07	9,17E+07	5,78E+07	7,21E+07	7,86E+07	7,35E+07	1,49E+08	1,48E+08	1,48E+08	1,51E+08	1,50E+08	1,49E+08	2,03
6,09E+07	6,45E+07	1,33E+08	1,02E+08	6,72E+07	8,55E+07	1,50E+08	1,48E+08	1,49E+08	1,49E+08	1,46E+08	1,48E+08	1,74
1,94E+08	7,26E+07	5,81E+07	6,25E+07	1,39E+08	1,05E+08	1,48E+08	1,49E+08	1,50E+08	1,49E+08	1,50E+08	1,49E+08	1,42
6,93E+07	6,76E+07	7,95E+07	6,40E+07	6,81E+07	6,97E+07	1,49E+08	1,48E+08	1,48E+08	1,49E+08	1,53E+08	1,49E+08	2,14
6,81E+07	6,69E+07	6,52E+07	1,20E+08	7,13E+07	7,83E+07	1,47E+08	1,47E+08	1,49E+08	1,49E+08	1,50E+08	1,48E+08	1,89
6,82E+07	6,86E+07	6,75E+07	1,02E+08	7,04E+07	7,53E+07	1,51E+08	1,48E+08	1,50E+08	1,52E+08	1,51E+08	1,50E+08	2,00
6,45E+07	6,70E+07	5,97E+07	5,79E+07	6,85E+07	6,35E+07	1,52E+08	1,49E+08	1,49E+08	1,51E+08	1,51E+08	1,50E+08	2,37
9,99E+07	6,62E+07	6,71E+07	6,85E+07	7,19E+07	7,47E+07	1,48E+08	1,51E+08	1,54E+08	1,53E+08	1,49E+08	1,51E+08	2,02
7,14E+07	6,31E+07	1,45E+08	6,73E+07	6,54E+07	8,25E+07	1,51E+08	1,46E+08	1,50E+08	1,51E+08	1,51E+08	1,50E+08	1,82
6,12E+07	6,58E+07	6,67E+07	6,76E+07	6,65E+07	6,56E+07	1,49E+08	1,50E+08	1,48E+08	1,50E+08	1,49E+08	1,49E+08	2,28
6,69E+07	6,25E+07	7,14E+07	6,60E+07	9,72E+07	7,28E+07	1,48E+08	1,49E+08	1,52E+08	1,53E+08	1,48E+08	1,50E+08	2,06
6,65E+07	6,85E+07	6,19E+07	1,22E+08	6,78E+07	7,74E+07	1,49E+08	1,47E+08	1,50E+08	1,51E+08	1,49E+08	1,49E+08	1,93
6,69E+07	7,57E+07	7,94E+07	6,15E+07	6,78E+07	7,03E+07	1,48E+08	1,49E+08	1,47E+08	1,54E+08	1,50E+08	1,50E+08	2,13
1,15E+08	6,35E+07	5,84E+07	7,24E+07	6,63E+07	7,52E+07	1,53E+08	1,51E+08	1,50E+08	1,51E+08	1,50E+08	1,51E+08	2,01
1,09E+08	6,66E+07	6,72E+07	6,33E+07	6,68E+07	7,45E+07	1,53E+08	1,48E+08	1,49E+08	1,50E+08	1,50E+08	1,50E+08	2,01
6,20E+07	6,73E+07	9,92E+07	7,04E+07	6,27E+07	7,23E+07	1,48E+08	1,47E+08	1,50E+08	1,50E+08	1,51E+08	1,49E+08	2,07
6,11E+07	6,47E+07	6,92E+07	6,68E+07	7,34E+07	6,71E+07	1,47E+08	1,47E+08	1,50E+08	1,50E+08	1,52E+08	1,49E+08	2,23
6,65E+07	6,96E+07	6,99E+07	6,15E+07	6,76E+07	6,70E+07	1,48E+08	1,48E+08	1,49E+08	1,50E+08	1,48E+08	1,48E+08	2,21
9,47E+07	7,01E+07	6,61E+07	5,93E+07	7,44E+07	7,29E+07	1,47E+08	1,51E+08	1,52E+08	1,49E+08	1,50E+08	1,50E+08	2,05
7,13E+07	7,11E+07	6,64E+07	7,02E+07	6,83E+07	6,95E+07	1,49E+08	1,49E+08	1,51E+08	1,51E+08	1,49E+08	1,50E+08	2,16
6,75E+07	6,32E+07	5,84E+07	7,05E+07	6,17E+07	6,42E+07	1,48E+08	1,51E+08	1,50E+08	1,50E+08	1,49E+08	1,50E+08	2,33
6,77E+07	6,42E+07	5,72E+07	6,69E+07	7,20E+07	6,56E+07	1,49E+08	1,48E+08	1,50E+08	1,52E+08	1,51E+08	1,50E+08	2,29
6,67E+07	6,92E+07	6,12E+07	1,29E+08	7,00E+07	7,93E+07	1,48E+08	1,51E+08	1,53E+08	1,51E+08	1,48E+08	1,50E+08	1,89
6,80E+07	6,76E+07	9,86E+07	6,19E+07	7,24E+07	7,37E+07	1,49E+08	1,51E+08	1,52E+08	1,51E+08	1,46E+08	1,50E+08	2,03
1,07E+08	6,18E+07	6,76E+07	6,71E+07	6,87E+07	7,45E+07	1,54E+08	1,50E+08	1,52E+08	1,54E+08	1,50E+08	1,52E+08	2,04
6,13E+07	6,90E+07	6,55E+07	6,47E+07	6,59E+07	6,53E+07	1,48E+08	1,46E+08	1,49E+08	1,48E+08	1,47E+08	1,48E+08	2,26
9,29E+07	6,74E+07	5,99E+07	5,75E+07	6,71E+07	6,90E+07	1,51E+08	1,49E+08	1,48E+08	1,50E+08	1,49E+08	1,49E+08	2,17
1,54E+08	6,81E+07	6,77E+07	6,74E+07	6,74E+07	8,49E+07	1,50E+08	1,51E+08	1,47E+08	1,47E+08	1,48E+08	1,49E+08	1,75
7,11E+07	7,08E+07	1,78E+08	5,88E+07	6,30E+07	8,84E+07	1,52E+08	1,50E+08	1,50E+08	1,49E+08	1,47E+08	1,50E+08	1,69
6,04E+07	6,32E+07	6,84E+07	6,26E+07	9,28E+07	6,95E+07	1,49E+08	1,49E+08	1,53E+08	1,48E+08	1,50E+08	1,50E+08	2,15
6,08E+07	6,65E+07	6,76E+07	9,82E+07	7,12E+07	7,29E+07	1,49E+08	1,50E+08	1,51E+08	1,50E+08	1,50E+08	1,50E+08	2,06
1,27E+08	6,73E+07	6,71E+07	6,55E+07	6,35E+07	7,81E+07	1,48E+08	1,49E+08	1,58E+08	1,50E+08	1,49E+08	1,51E+08	1,93
6,73E+07	6,69E+07	1,02E+08	5,90E+07	6,56E+07	7,21E+07	1,46E+08	1,50E+08	1,50E+08	1,51E+08	1,48E+08	1,49E+08	2,07
6,69E+07	7,15E+07	9,88E+07	7,06E+07	6,50E+07	7,46E+07	1,47E+08	1,48E+08	1,48E+08	1,52E+08	1,47E+08	1,48E+08	1,99

# 1 Performances optimization and input parameter analysis

The work-stealing scheduler module takes as input three different execution parameters:

- Array size;
- Number of servers that must be created by the scheduler;
- The sequential cut-off parameter that is the size of array that will be processed sequentially even in multi-threading execution of the scheduler.

All these parameters affects the concurrent ordering execution time, and relative speed-up on the sequential one. To estimate the

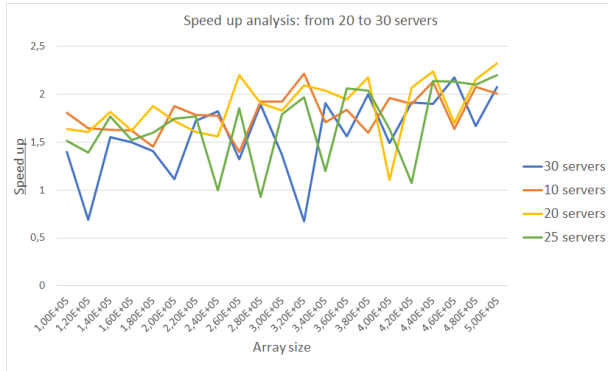


Figure 1:

## 2 Prova

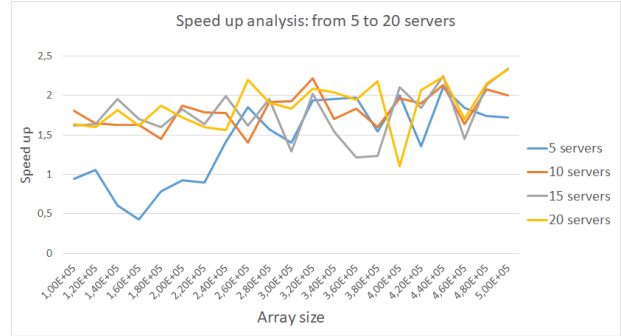


Figure 2:

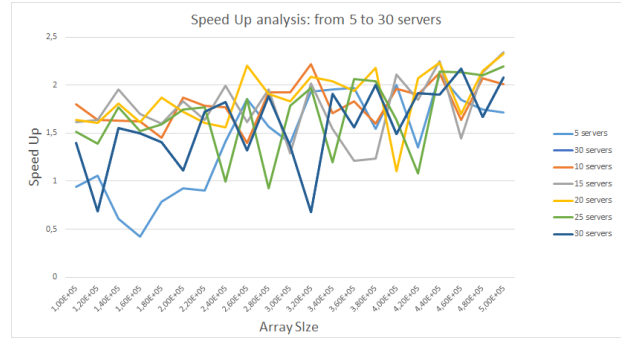


Figure 3:

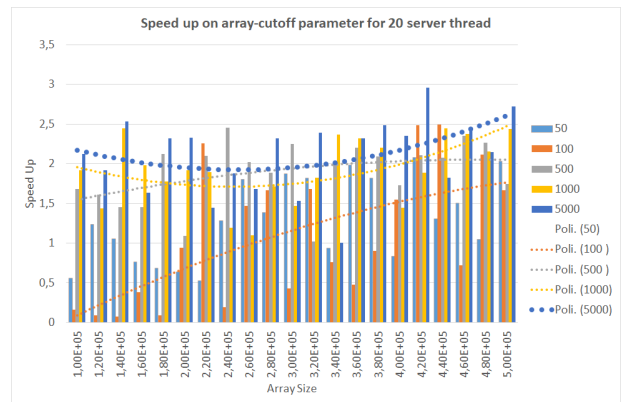


Figure 4:

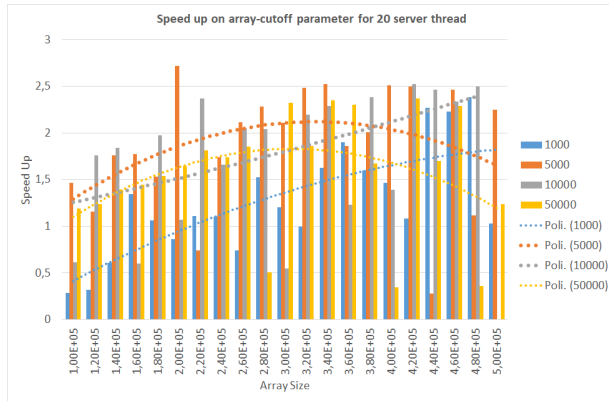


Figure 5:

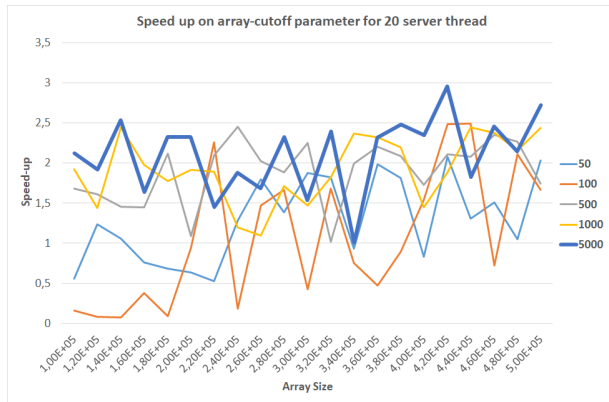


Figure 6:

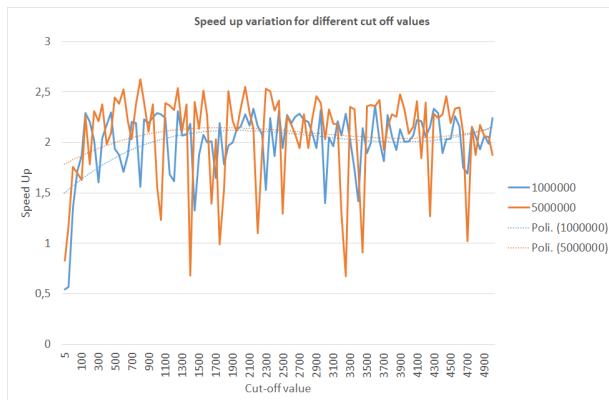


Figure 7: