Parallel and Distributed Computation (IN480)

First Homework

October 31, 2019

1. Get a source file `2019-10-30/test-01.jl` from course repository.

2. Look and execute. It should finish normally.

3. Then change `n = 10 -> n = 3`. The program should again execute normally and terminate.

4. Finally change `n = 3 -> n = 12`. The program should loop and not terminate. Stop it.

5. Look for the statement going to loop.

6. Start **debugging** by following the function calls.

7. On the way try **optimizing / rewriting** some code, according to the techniques learned on the **first 4 chapters** of the book *Julia High Performance*: Optimizations, distributed computing, multithreading, and GPU programming with Julia 1.0 and beyond, 2nd Edition, Pakt>, 2019.

8. **Document your changes** by writing a *markdown* document, including `btime` statistics. (use *Pandoc* on markdown file)

9. **Email** the document to me by *November 11*, according to the following format:

```
To: apaoluzzi@gmail.com
Title: [IN480] Homework 1
Contents:

<url of your repo> (your forked module, with modified code)

<your family name>-homework-1.pdf
```