Process Management Stack

To follow up with this task, you need to do the following:

1. ***Create*** `*main.cpp*` file

2. ***Add*** the provided code, to the ***main.cpp*** file.

3. ***Compile*** code using the following command:

g++ main.cpp -g -o process

4. Run this ***commands***:
    a. ulimit -c unlimited
    b. sudo sysctl -w kernel.core_pattern=./core.%e.%p.%t

You are in-trouble the testing team informed you that in specific testing case your software (***process***), takes to much time from CPU Load and this affect the overall performance for the system,

And you are already shocked ��, because you tried the software in your environment and everything should be fine so you decided to try the software (***process***) with the tester to check the CPU load, and verify where is the issue.

So please: Your ***first*** task to check the CPU load for the system after running the ***process*** software.

While you checking the result of the CPU Load, You surprised that the software uses a lot of CPU time and this is unexpected, So you are trying hard to figure it out but the issue was ***sporadic*** ��, You walked a little bit in the floor thinking about solution ��, ooooooooh nooooooo ⁇ You got it ⁇, What if we have the opportunity to extract core-dump (tracing file) for this issue and then make some analysis on this file, mmmmmmm seems nice approche, So please: Your ***Second*** Task extract ***core-dump*** file for this process.