



Task Scheduler

Parallel Computing

Goals

- ★ Schedule a graph of tasks in parallel.
- ★ **Relevant videos:** if you want to get started as quick as possible, follow the videos annotated with “fast track”. Of course, all videos should be watched eventually.
 - Why shared read/write memory?
 - Atomic
 - Compare-and-swap
 - Task parallelism (**fast track**)
 - Dynamic task scheduling (**fast track**)
 - Task Parallelism with OpenMP
 - Producer-consumer problem (**fast track**)
 - Dining philosophers problem (**fast track**)

Deliverables

1. The code on your Github repository generated by clicking here: <https://classroom.github.com/a/TNDLYUnm>
2. **Reviewer:** Hakan Hasan (Github: haki-1)
3. **Video:** Produce a 5 minutes (maximum) explanatory video of your code (provide the link in the README). Record your screen and your voice. You can upload the video on the University onedrive.
4. **Report:** Write a brief report describing your system and answering some questions in the README.

Rules

1. You can discuss your design and your results on Discord or orally, but please don't share your code.
2. This is a solo project.

Exercise 1 – Task Scheduler

The description of this assignment is available in the README of the repository.