



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. Starting code: https://github.com/ptal/task_scheduler
2. **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.