



LTAT.06.007 Distributed Systems

Practical Seminar 1

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TEACHING ASSISTANT

Tartu, Estonia 10/02/2021

Agenda

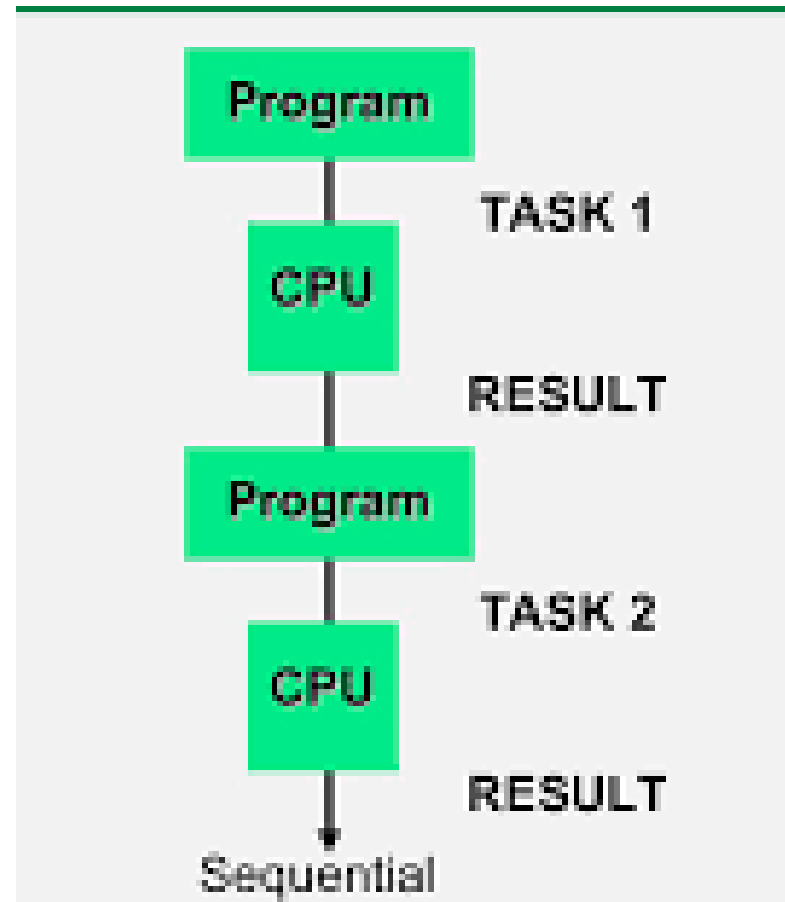
- Individual Work (Be careful about plagiarism)
- Practical exercises
 - Distributed Computing in practice
- Quiz 1

Session Content

- Exercise 1: Sequential Processing (30 pts)
- Exercise 2: Parallel Processing (30 pts)
 - Using multiprocessing library in python
 - Using pooling
- Exercise 3: Comparison of Sequential vs Parallel (40 pts)
 - Plot Speedup for sequential and parallel
- Use Google Colab
 - <https://colab.research.google.com>
 - Download the *seminar1.pynb* file from course webpage
 - Upload it to google colab
- Total Exercise Points = 100

Sequential Processing

Processes are executed in a sequential way.

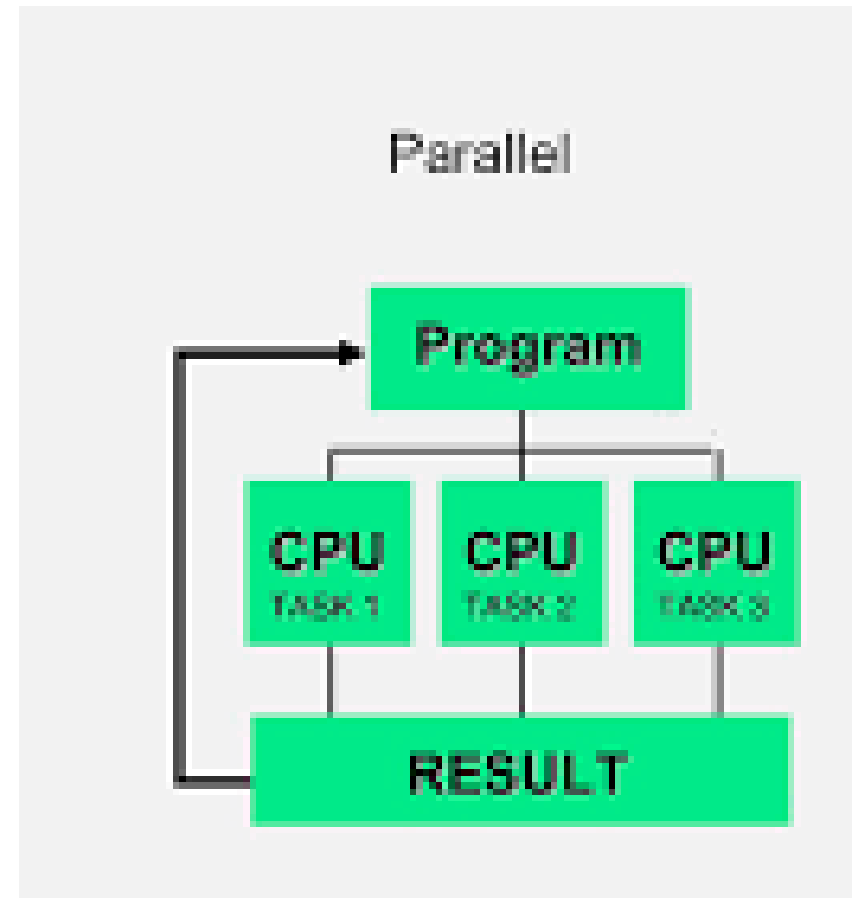


Parallel Processing

Processes or tasks are executed in a parallel manner

CPU is not dedicated to just one process

Processes don't have to wait for the CPU



Hands on Session ...

Quiz 1

- Content from Lecture 1
- Two Attempts
 - One in Seminar Session
 - Next available until Sunday 23:59 (deadline)
- Open Quiz in moodle
- Total Quiz Points = 100



Questions?

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