



Bilkent University

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Department of Computer Engineering

# **CS342 Project 1**

## **Operating Systems**

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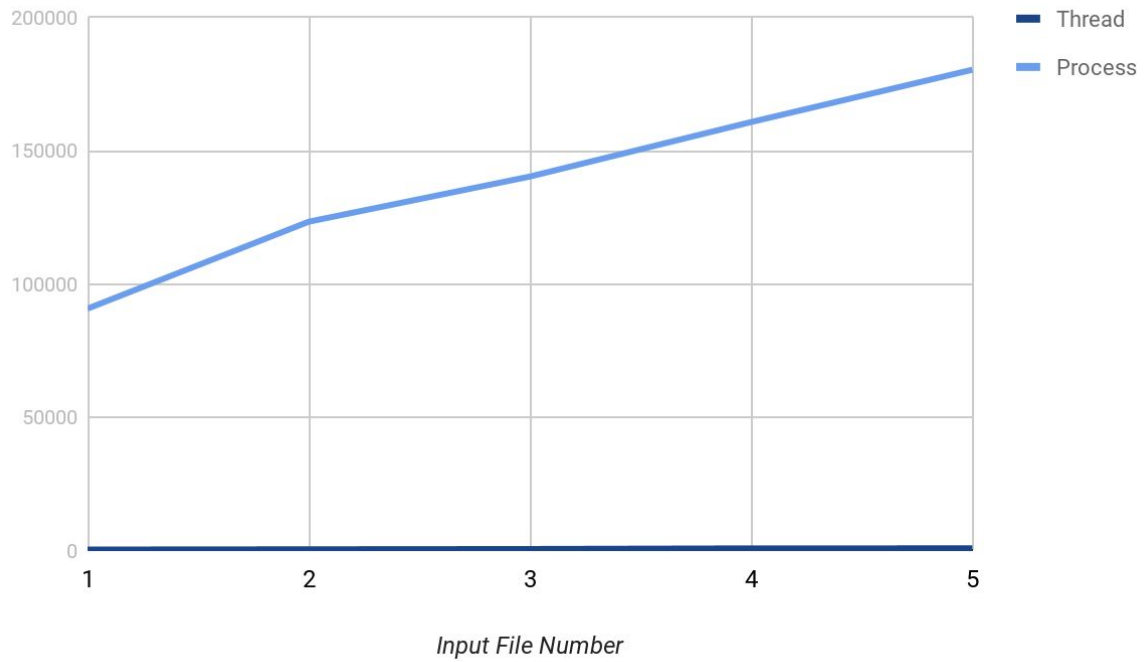
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Section 1

23.10.2020

## Experiments

### Points scored



N(Input File Number)\Microseconds	Multithreading	Multiprocessing
1	547	90907
2	646	123500
3	752	140433
4	992	160871
5	1004	180478

The experiments applied by using the same files. It can be observed that there is a huge difference between using the multiprocessing version and the multithreading version. This can be caused by several factors. First of all, each hardware behaves differently from others. Additionally thread creation is much more efficient than process creation. Also in order to communicate with each other, processes do not need creating additional data structures. Data sharing capability of threads also provides fast and efficient execution unlike multiprocessing.