INF-3200 Distributed Systems

Enrico Tedeschi
ete011@post.uit.no

I. Introduction

A. Requirements

- A given sequential Mandelbrot set creates a parallel static and dynamic version using MPI
- Run it on a cluster
- Evaluate speedup

II. Technical Background

– Concurrency and parallelism concepts
– Basic programming approach
– Knowledge of C language
– Notion of design pattern principles
– Theory about software engineering
– Knowledge of git to manage the software versions

III. Analysis

The interesting thing about DHTs is that storage and lookups are distributed among multiple machines [1]

IV. Implementation

A. Design and Main Schema

B. Static Implementation

1) ***Master****:*
2) ***Slave****:*

C. Dynamic Implementation

1) ***Master****:*
2) ***Slave****:*

D. Environment

V. Result and Benchmarking

VI. Discussion

VII. Conclusion

References

[1] Article about dht. http://www.linuxjournal.com/article/6797, 2006.