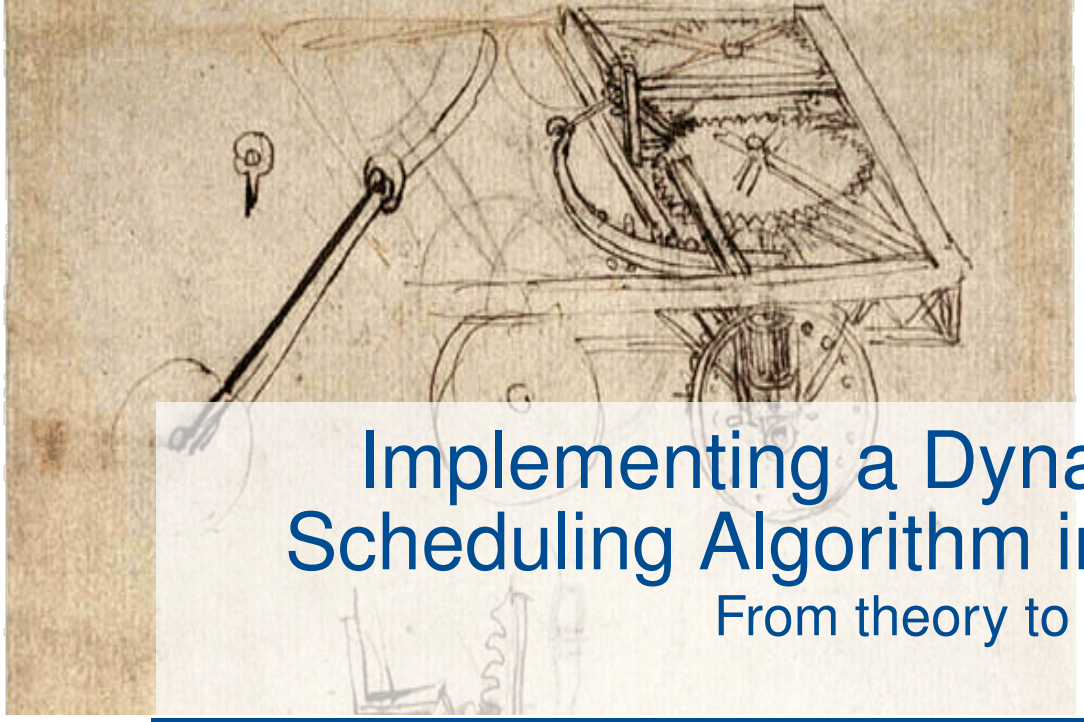


Preparatory Work for Master Thesis

Promoter : J. Goossens

Advisor : P. Rodriguez

Implementing a Dynamic and Global Scheduling Algorithm in a Real-Time OS

From theory to practice

August 25, 2017

Arabella Brayer

Computer Science Department
Université Libre de Bruxelles

ULB

RTOS

- Real-Time Operating System
  - Hard or Soft critical systems

Scheduling

- Mono-processor
- Multi-processor
  - Partitioned
  - Global

HIPPEROS

Internship

- Knowledge of the RTOS
- ... specific aspects

Internship

Work already done
State of the art

Choice of the algorithm

- There are plenty
- No ideal algorithm
- For interesting classes :
  - Sporadic
  - Arbitrary deadlines
- Sober in migrations

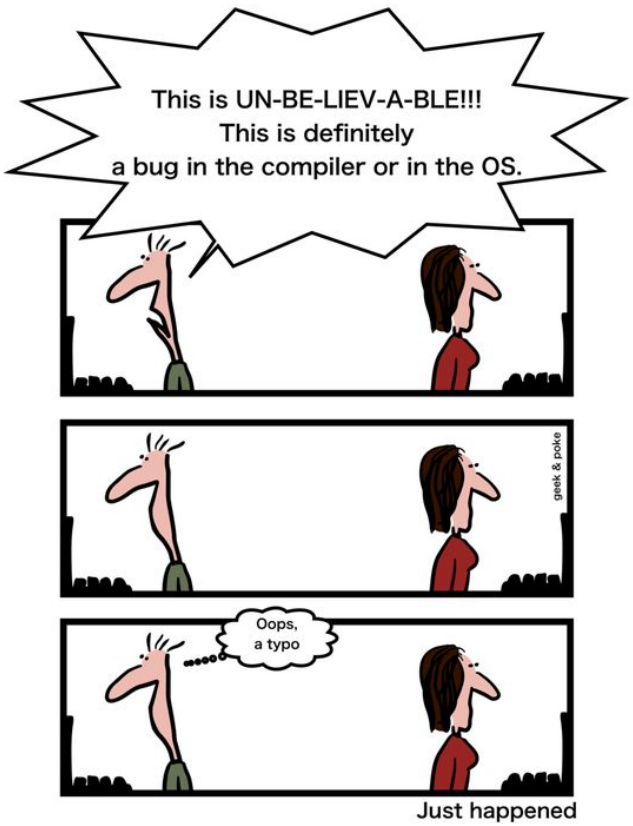
QPS

Work to do

1 – Implementation

2 – Benchmarks

3 – ... to be followed



Thank you!

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