

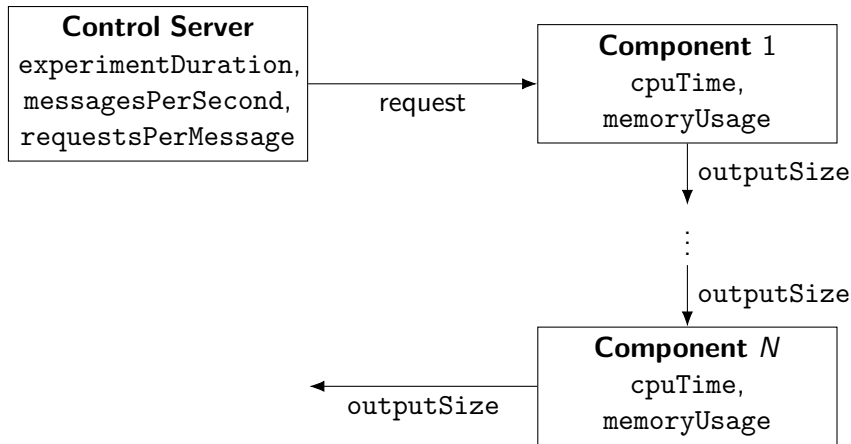
# Automated Benchmarking of Container Applications

Paulius Dilkas

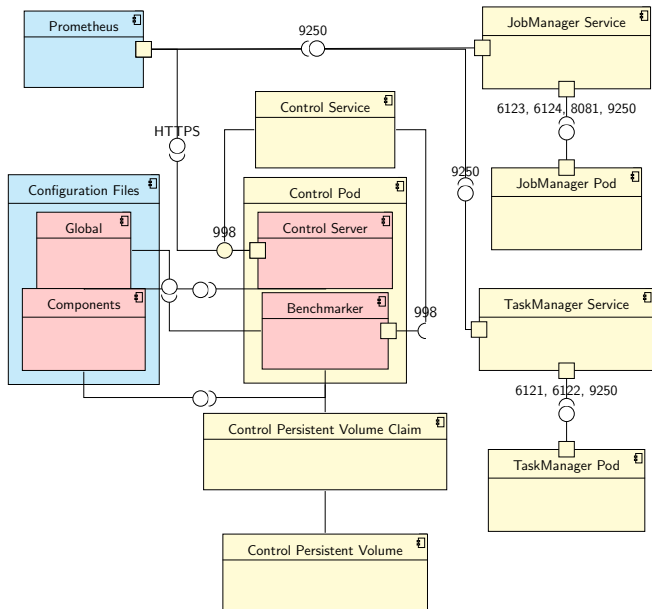
1st August 2019

# Introduction

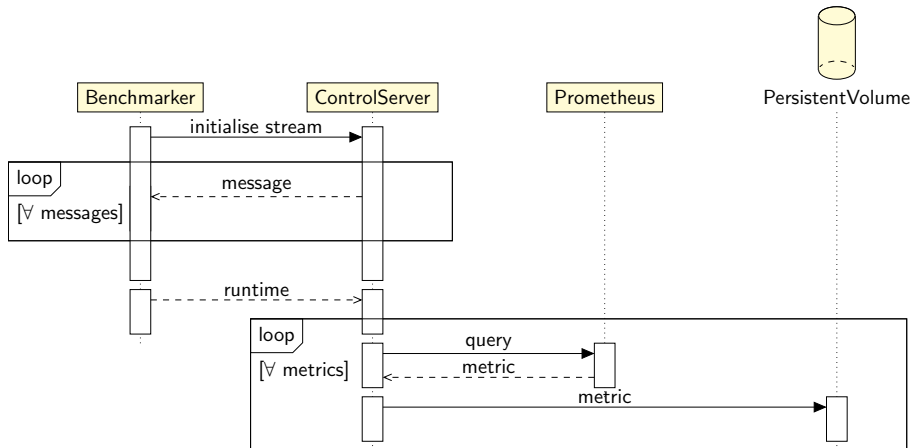
# The General Idea



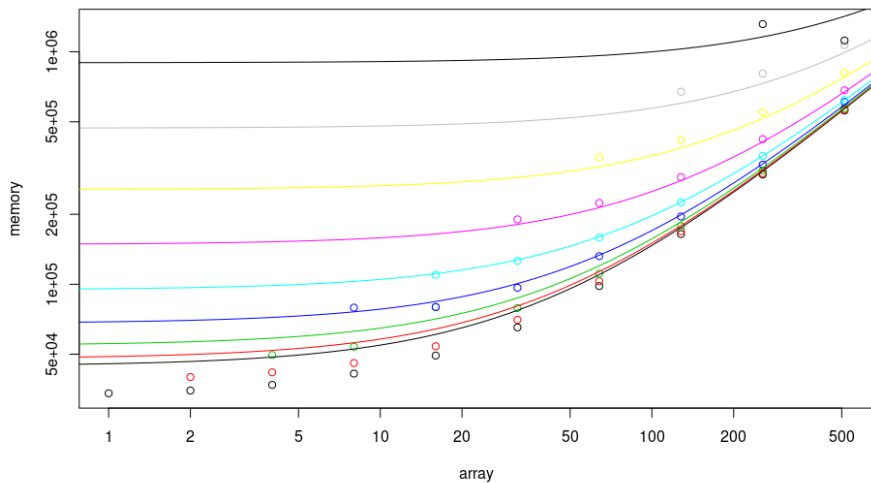
# Deployment



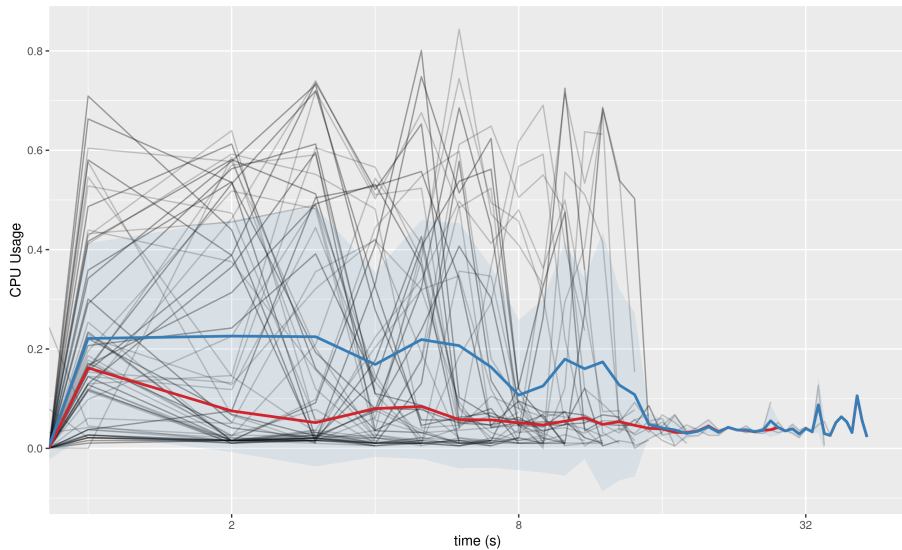
# Execution



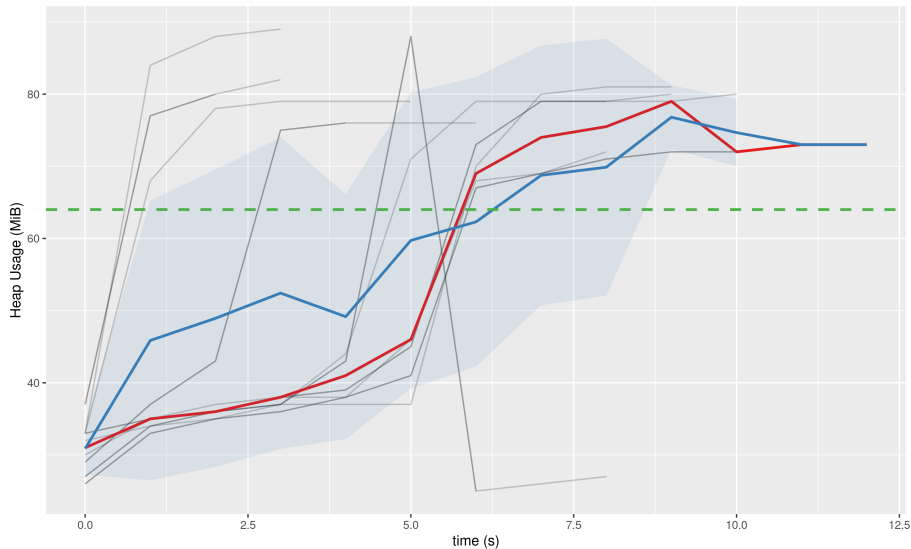
# Calibration



# Evaluation: CPU

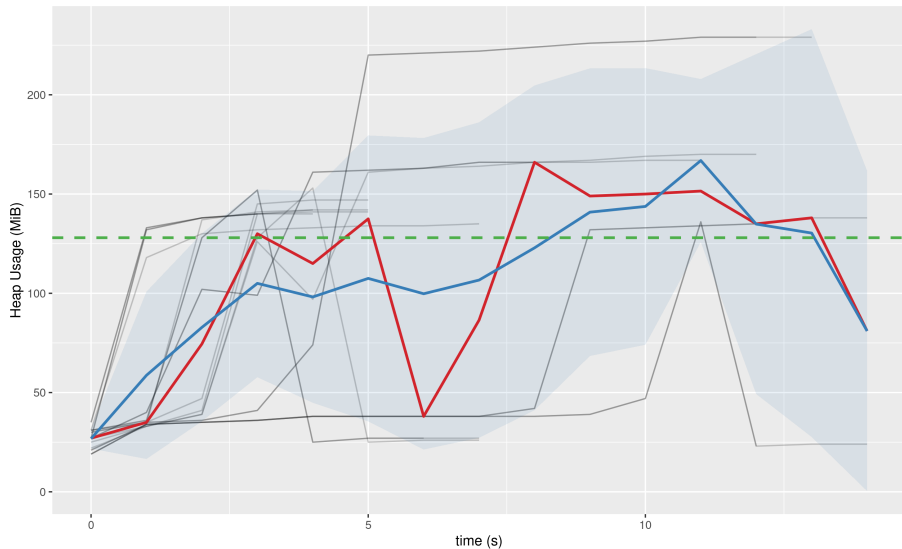


# Evaluation: Memory (64 MiB)

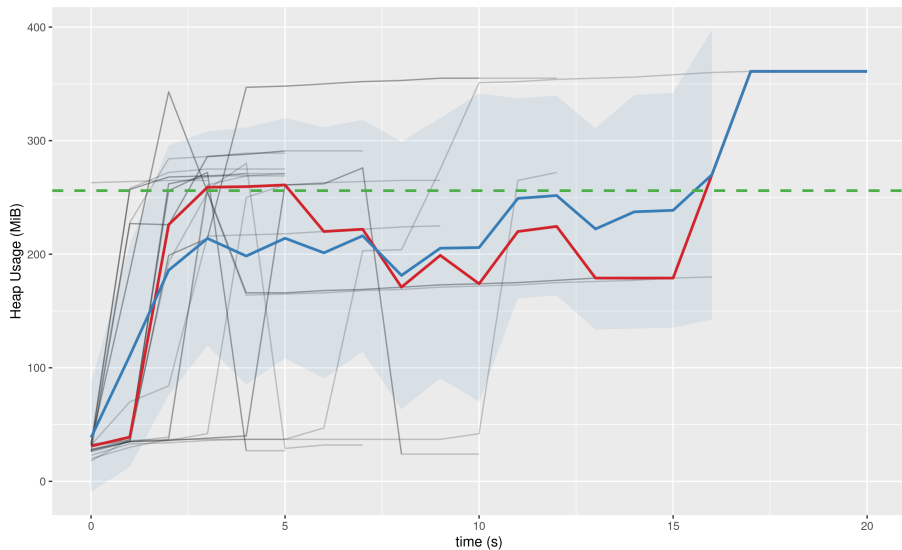




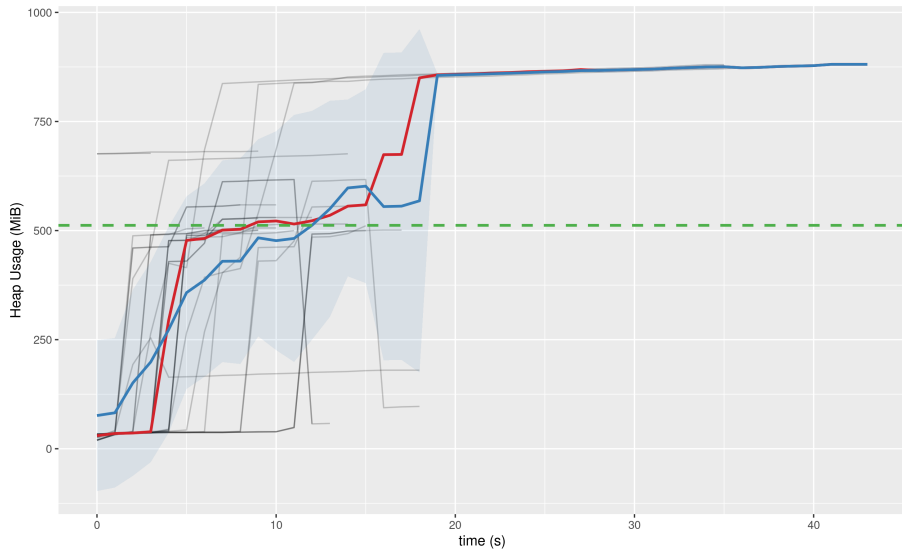
# Evaluation: Memory (128 MiB)



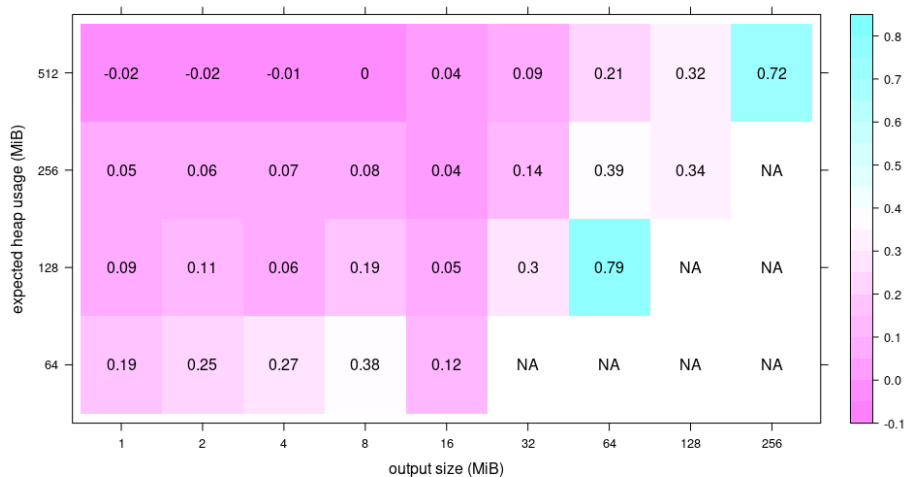
# Evaluation: Memory (256 MiB)



# Evaluation: Memory (512 MiB)



# Using Maximum Value as a Predictor



- Input/output simulation
- Complex usage patterns
- Automatically answering the question:
  - ▶ does this experiment show that the application could benefit from more resources?
- Complex component topologies
- More performance metrics (e.g. end-to-end latency)