LAB 06: CONCORRÊNCIA E PARALELISMO (11158)

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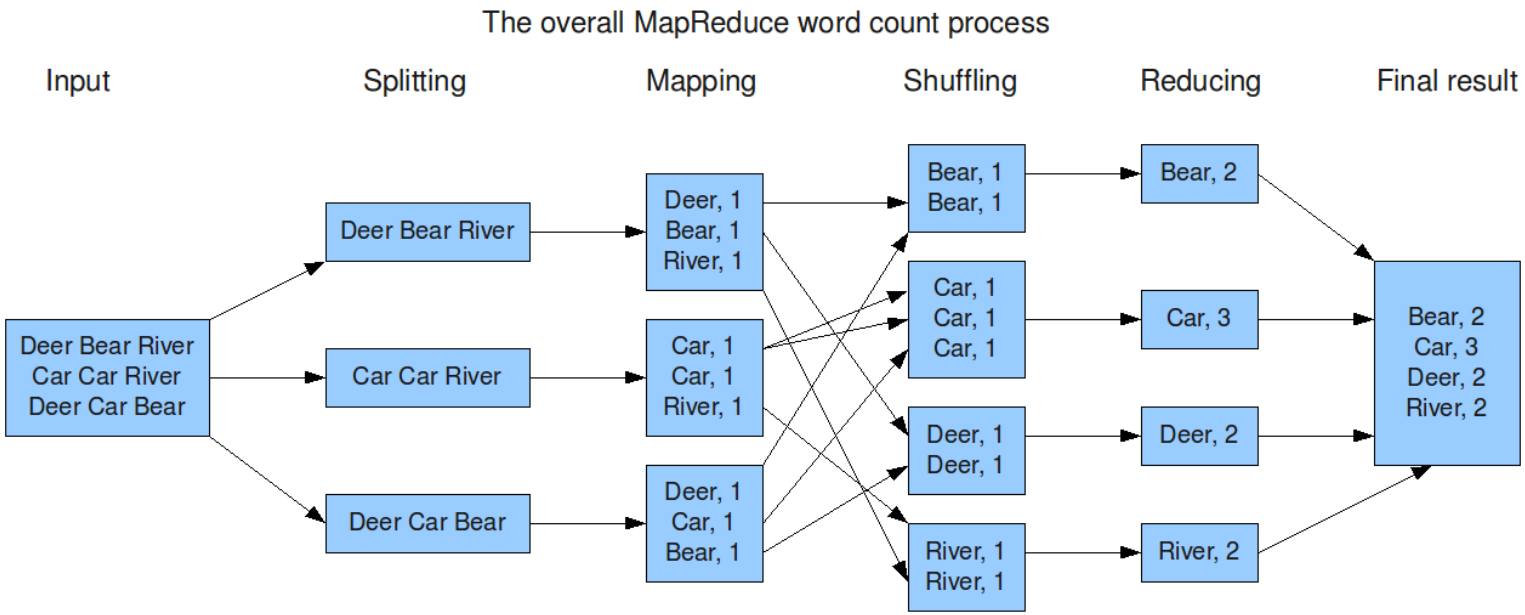
- Various mechanisms for parallelising programmes: Java, C, C++, OpenMP
- Various problems: Monte Carlo simulations, Game of Life, N-body problem
- Visualisation of results: plotting execution times, assessing speed-ups
- Performance profiling tools: analyse which parts of programmes are CPU expensive

LAST FIVE WEEKS

We are moving on to MapReduce



A programming model for processing and generating big data sets with a parallel, distributed algorithm on a cluster.

THIS WEEK: MAPREDUCE

- Use `jupyterlab` and a simple `Hadoop` cluster to complete MapReduce exercises
  - Word frequency counts
  - Web log analysis

Local web application for running applications as isolated code segments

- Assignment PDF: https://github.com/MEI-CP/lab-assignments/

- Key tasks:
  - Install `jupyterlab`
  - Work on MapReduce exercises using local Hadoop cluster

https://aulas.alxdavids.xyz/pergunta/q8a8a14

FEEDBACK

Key takeaways: Develop understanding of MapReduce, and how to use it to solve different tasks.

Remember: My office hours are `14:00-16:30` on Tuesdays (P2:17)

See you next week!