

# An Evaluation of the Go Programming Language

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# What, why and how?

- **What?** Comparing performance of OpenMP and Go
- **Why?** The rise of parallel computing
- **Why?** Go vs. libraries -> general purpose vs. specificity
- **How?** Set of benchmarks to run on clusters
  - 4 sets of benchmarks: sequential, micro, component, suite
  - Different algorithms and patterns

# Workflow

- Github
- Focus on automation
- Issue -> Implement on dev. branch -> Push -> Merge

# Progress

- **Sequential:** implemented
- **Micro:** implemented
- **Component:** not yet started
- **Suite:** only needs translation to Go
- **Experiments:** not yet started

# Data management

- Data visualizations in R
- No previous knowledge
- **Current status:** can generate graphs, need to figure out how to handle columns and rows to extract data

# Next steps

- <https://github.com/ss1891/go-parallel-benchmarks>
- Issue tracker to keep track of what to do
- **Urgent:**
  - plot data correctly
  - implement component benchmarks
- **As for experiments:** automated, can run all programs using a run script - data plotting is what will take time