

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 and incremental implementation
- Issue -> Implement on dev. branch -> Push -> Merge

Progress

- **Stage 1**
 - **Sequential:** implemented
 - **Micro:** implemented
- **Stage 2**
 - **Component:** halfway through
 - **Suite:** only needs translation to Go
- **Experiments:** stage one done

Next steps

- <https://github.com/ss1891/go-parallel-benchmarks>
- Github issue tracker to keep track
- No deadlines, different levels of urgency
- **Urgent:**
 - implement component and suite benchmarks
 - run second set of experiments