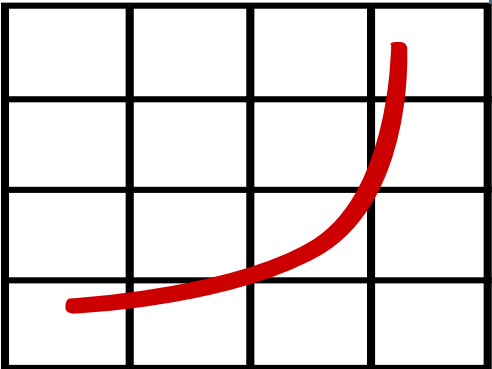


A decorative graphic consisting of a series of blue and light blue rectangular blocks arranged in a staircase pattern, ascending from left to right.

# Conclusion and Wrap-Up

Swen Boehm, Mayara Gimenes, Robert Henschel,  
Veronica G. Vergara Larrea, Junjie Li, Sandra Wienke



spec

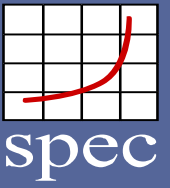
<https://www.spec.org/hpg/publications>

<http://pages.iu.edu/~lijunj/sc19/>

# What you have learned

- What are SPEC HPG Benchmark suites
- How to utilize SPEC HPG Benchmarks for research and commercial performance evaluations, and comparing systems
- How to run SPEC HPG benchmark suites
- How to interpret and publish results

# Future SPEC HPG Benchmarks – HPC2020



- First hybrid benchmark, posing lots of challenges for run rules and metrics
- It's MPI+X. "+X" can be anything, including, OpenMP, OpenACC, CUDA, TBB, Kokkos, PTHREADS, ...
- Search program in 2017, benchmark integration in 2018 & 2019.
- More than a dozen candidates submitted from 3 continents and 5 different countries

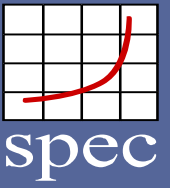
# Why and How to Contribute to SPEC HPG

- Download and run SPEC HPG benchmarks
- Use published results in your papers
- Submit results
- Join SPEC HPG
- Result review
- Help with benchmark development (work with programming model experts)
- Test new benchmark kits on your hardware
- SPEC members can publish results for free

# Benchmark Development Process

- Group effort, with lots of discussions
- Working with experts that are developing the programming model.
- Final decisions are by vote, we strive for consensus
- Technical and infrastructure work
  - Find benchmark components and define run rules
- Using SPEC provided tools
  - GIT, SPEC harness, “common rules”
  - Websites, mailing lists, meeting venues

# Thank you!



## Questions?

### Contact

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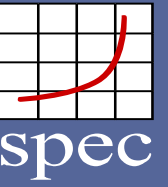
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# Thank you!



## Questions?

Please return the RSA tokens when you leave.  
Thank you!