

A night sky with the Milky Way galaxy visible, a person sitting on a rock in the foreground, and a starry background.

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# HPCG on Arm

SC19 update

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# HPCG on Arm

A community initiative

- We are starting a new community-driven HPCG optimization effort!
- To kick-start the initiative: [https://github.com/ARM-software/HPCG\\_for\\_Arm](https://github.com/ARM-software/HPCG_for_Arm)
  - Fully open-source shared-memory optimized HPCG using SVE and NEON intrinsics, respectively.
  - Utilizing our latest changes described here: <https://bit.ly/2KgsCTC>
  - How we optimized for SVE (non-platform specific): <https://bit.ly/32JtE0V>
- Why?
  - We have a diverse set of Arm-based platforms and we believe it's best to bring a strong start in the hands of the experts who can fine-tune for their platforms.
    - Our work offers a platform-generic starting point that everyone can build upon.
  - More contributors implies higher potential for novel optimization solutions and, overall, a high performance implementation.
- Call to action: please contribute and register your interest!
  - Collaboration site: <https://arm-hpc.groups.io/g/hpcg>

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Thank You

Danke

Merci

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Gracias

Kiitos

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