HPCG on Arm

SC19 update

Roxana Rusitoru
21 Nov 2019

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
  - 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

arm

arm

Thank You
Danke
Merci
谢谢
ありがとう
Gracias
Kiitos
감사합니다
धन्यवाद
شكرًا
תודה

arm