The iterative refinement via GMRES on a suitably pre-conditioned system. This can be accelerated by using a mix of half, double and quadruple precision, allowing the solution to be sped up. The general philosophy is performing the majority of the computations in half precision, and only using single precision at the end.

Energy. The main motivation is that last-generation GPUs may be up to eight times faster when they perform arithmetic operations in half precision than when they do so in single precision. This is due to the architecture of modern GPUs, which are designed to efficiently handle half-precision arithmetic.

High performance computing (HPC) is a critical area of research for engineering and scientific applications, and is also shaping new paradigms in the way we do research. The next ICIAM will take place in August 2023.

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“Tokyo is the center of Japan and we have important companies like Toyota, NTT and Panasonic, which have a lot of influence on the industry,” said Oishi. “This is also the home of many top universities.”

The next ICIAM will take place in August 2023.

Volunteer opportunities are a tradition of ICIAM, so we are keen to organize them for 2023. The Volunteer Committee is working on the details, and we will share updates as they become available. Please check back here, or visit the conference website for updates, or install the app ICIAM2019 from your Android smartphone.

The biannual meeting of the SIAM Chapter on Mathematical Aspects of Materials Science (MS20) will take place in Bilbao, Spain, May 18-22, 2020.

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