

Math Special Interest Group

November 12, 2025

Agenda

- Opens
- Harnessing Arm Scalable Vector Extension (SVE) for Accelerated OpenBLAS and NumPy Performance – Aniket Garade and Kuldeep Pal (CDAC)
- Updates from last meeting – Sarah Knepper
 - oneMath open source project and specification

oneMath Open Source Project and Specification

oneMath v0.9 released!

- ARM performance library backend added for DFT (#[702](#))
- RFC for OpenBLAS backend support for oneMath (RFC #[707](#))
- Backend Maintainer Roles (RFC #[673](#); Documentation updates: #[674](#))
- Numerous testing and other improvements

Recent updates to oneMath specification:

- [Vector Math] Typo fixes in Mathematical Functions (#[626](#))

Resources

- Unified Acceleration Foundation: <https://uxlfoundation.org/>
- GitHub for UXL Foundation: <https://github.com/uxlfoundation/foundation>
- Latest release of oneMath Spec (currently 1.4): <https://oneapi-spec.uxlfoundation.org/specifications/oneapi/latest/elements/onemath/source/>
- GitHub for oneAPI Spec: <https://github.com/uxlfoundation/oneAPI-spec>
- GitHub for oneMath open source project (currently BLAS, RNG, LAPACK, DFT, and sparse BLAS domains): <https://github.com/uxlfoundation/onemath>
- [UXL Foundation Slack #sig-math #onemath channels](#)