Performance Optimisation and Productivity
A Centre of Excellence in HPC

POP Newsletter 32 – Issue June 2026

Welcome to the 32nd newsletter from the EU POP Centre of Excellence.

In this edition, we give you an overview of the recent POP activities including several POP webinar, as well as a VI-HPS Tuning workshop and other recent events.

If you would like to contribute technical content for this newsletter on the topic of parallel performance profiling, please contact us at pop@bsc.es.

This issue includes:

- **POP Webinars**
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  - Recent Events
- **Tool Time**
- **The POP Helpdesk**

For past editions of the newsletter, see the POP newsletter web page.

POP Webinars

Recent Webinars

41st POP Webinar – From Code to Scale: EPICURE's Services, Stories, and Training for EuroHPC Users

João Barbosa introduced EPICURE's free high-level support services for EuroHPC users, explaining how researchers can access expert assistance with code enabling, scalability, performance analysis, benchmarking, and optimisation to improve the performance of applications on European supercomputers. It also showcased real-world success stories across scientific domains and highlighted the European HPC Application Support Portal as a resource for training materials, best practices, code examples, and guidance on applying for EPICURE support.

To find out more, watch the recording here.

42nd POP Webinar - A Compiler-Assisted Workflow for Efficiency-Guided Selective Tracing

This webinar presented a compiler-assisted workflow for efficiency-guided selective tracing, enabling scalable HPC performance analysis with much lower tracing overhead. Using a two-stage profiling and tracing approach, the method achieved a 10× reduction in trace size while preserving key performance insights in a 500-node Vlasiator case study.

Watch the recording and find out more here.

POP @ NHR PerfLab Seminar: The MAQAO performance analysis and optimization framework

On March 10, 2026, POP experts William Jalby and Cédric Valensi presented MAQAO as part of the NHR PerfLab seminar events. They showed how the MAQAO performance analysis and optimisation framework combines static and dynamic analysis, sampling, tracing and simulation to identify HPC bottlenecks and guide developers towards the most effective code optimisations.

You can find the slides and recording here.

POP @ NHR PerfLab Seminar: MERIC: Energy Efficiency Data Center Software Suite

On May 5, 2026, POP expert Ondřej Vysocký presented MERIC as part of the NHR PerfLab seminar events. He demonstrated tools for monitoring and optimising power and energy consumption in HPC systems through cluster monitoring, job energy budgeting and runtime tuning.

Watch the recording and find out more here.

Browse the full list and catch up on all our previous webinars here.

POP Events

Recent Events

49th VI-HPS Tuning Workshop

Instructors from the POP partners JSC and UVSQ supported the 49th VI-HPS Tuning Workshop, which took place at Durham University in Durham, UK, from 27th to 29th April 2026.

For a short overview read the blog here.

POP @ HPCSE26

The High Performance Computing in Science and Engineering (HPCSE) conference organised by IT4Innovations National Supercomputing Centre at the VSB – Technical University of Ostrava was held May 18-21, 2026 in the Beskydy Mountains in the Czech Republic. The POP consortium was represented by Radim Vavřík, Ondřej Vysocký and Lubomír Říha.

To see pictures and find out more read the blog here.

POP3 Online Training for NCC Latvia

In collaboration with RTU HPC Centre / NCC Latvia, POP CoE organised three half-day online introductory training sessions on parallel HPC application performance analysis, POP methodology and selected profiling and tracing tools.

Read the blog here to find out more.

POP @ ISC26

From 20-24th of June several of our POP experts attended the annual ISC conference in sunny Hamburg. Our partners could be found at several booths, gave presentations and contributed and organized workshops.

To find or more read the full blog here.

Tool Time

Release 3.6.0 of DLB includes Hybrid MPI+GPU Metrics in TALP

This tool time explores how the Cube performance-analysis tool can be deployed and used on HPC systems without complex installation steps. The article highlights Cube's capabilities for analysing profiling data and helping users identify performance bottlenecks in parallel applications.

Read the full article here.

Easy Access to Cube on your HPC System

This tool time introduces new TALP metrics for hybrid MPI+GPU applications, enabling more comprehensive performance analysis across CPUs and GPUs. The release helps HPC users better understand resource utilisation and identify optimisation opportunities in heterogeneous workloads.

Read the full article here.

Apply For Free Help with Code Optimisation

We offer a range of free services designed to help EU organisations improve the performance of parallel software. If you are not getting the performance you need from parallel software or would like to review the performance of a parallel code, please apply for help via the short Service Request Form, or email us to discuss the service further and how it can be beneficial.

These services are funded by the EuroHPC research and innovation programme so there is no direct cost to our users.

The POP Helpdesk

Past and present POP users are eligible to use our email helpdesk. Please contact our team of experts for help analysing code changes, to discuss your next steps and to ask questions about your parallel performance optimisation.

This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreements No 676553 (POP1) and 824080 (POP2).
Currently, the project receives funding from the European High-Performance Computing Joint Undertaking (JU) under grant agreement No 101143931 (POP3).