



Performance Optimisation and Productivity

A Centre of Excellence in HPC



POP Newsletter 25 – Issue September 2024

Welcome to the 25th newsletter from the EU [POP](#) Centre of Excellence.

In this edition, we invite you to register for our next webinar on “Assessing CPU Code Quality” and report on the recent events and workshops attended and held by POP3.

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:

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For past editions of the newsletter, see the [POP newsletter web page](#).

POP Webinars

Upcoming Event

29th POP Webinar – Assessing CPU Code Quality

Join us on the 22nd of October

In the upcoming POP webinar William Jalby (UVSQ) will talk about how suboptimal codes can affect performance for various reasons and how the MAQAO performance analysis can be used to assess code quality and help identify steps to improve performance. William will illustrate the MAQAO capabilities through real code examples and demonstrate strategies for comparative studies between different compilers and compiler settings.

Find out more and sign up for the webinar [here](#)

Past Events

Last webinar: The CARM Tool: Cache-aware Roofline Model for HPC

On the 5th of September 2024, José Morgado (INESC-ID) presented the Cache-aware Roofline Model (CARM), which offers effective guidance by providing insights into bottlenecks that limit the application's ability to reach the system's maximum performance. Furthermore, José demonstrated the capabilities of the tool during the webinar and gave a short tutorial of its usage. The recording and the slide presentation can be found [here](#).

Browse the full list and catch up on all our previous webinars [here](#).

Recent POP Events

POP @ 46th VI-HPS Tuning Workshop

POP and the National HPC Competence Centres (NCCs) for Austria, Czech Republic, Hungary, Poland, Slovakia and Slovenia co-organised the 46th VI-HPS Tuning workshop, which was led by the IT4Innovations National Supercomputing Center. This 3-day virtual training event was part of the CASTIEL 2 / Euro CC Training Sprint series. Our experts gave an overview of the VI-HPS programming tool suite and explained how to use the tools effectively. The workshop also provided hands-on experience as well as expert assistance.

Read everything about the tuning workshop [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.



<https://pop-coe.eu>



H L R I S



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).

