



Performance Optimisation and Productivity

A Centre of Excellence in HPC



POP Newsletter 33 – Issue September 2026

Welcome to the 33rd newsletter from the EU [POP](#) Centre of Excellence.

In this edition, we give you an overview of the recent and upcoming POP activities like POP webinars and training events, as well as a recent success story.

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](#).

Success Story

From Performance Assessment to Faster Simulations: Optimising Alya through POP3

Alya, developed at the Barcelona Supercomputing Center (BSC), is a high-performance computational mechanics code capable of solving complex, coupled-physics problems and is one of the codes included in the EXCELLERAT CoE.

In collaboration with EXCELLERAT POP has conducted a performance assessment of an Alya use case to analyse a combustion simulation. The simulation uses the external ISAT-CK7 library to accelerate the computation of chemical reactions by retrieving results from a previously computed table.

Read the full story details [here](#).

POP Webinars

Recent Webinars

43rd POP Webinar - Experiences of an HPC analyst in AI Land

Although deeply rooted in the HPC domain, the POP CoE has made efforts to apply HPC tools and methodologies to the AI world. In this talk POP expert Jesus Labarta (BSC) described his experiences of this transition and explained how POP has reached a point where it can carry out very detailed analyses of AI application execution and provide more insight into actual performance ('HPC performance') than application developers or users often have.

Watch the recording and find out more [here](#).

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

Upcoming Webinars

44th POP Webinar - Can our Scales Handle the Weight? Testing the POP Tools on Large Systems

In this [live webinar](#), Valentin Seitz (BSC) will report on experiments with the POP tools at large scale on up to 112,000 CPU cores and 2,048 GPUs on MareNostrum 5 using two HPC applications that maintain a reasonable granularity at this scale. He will explore the overheads and costs of measuring applications at scale during data collection, post-processing and visualization.

POP Events

Upcoming Events

POP @ ACM womENCourage 2026

On Oct 1, 2026, instructors from the POP partners Barcelona Supercomputing Center (BSC) and Jülich Supercomputing Centre (JSC) will present the tutorial "Introduction to High Performance Computing and Performance Metrics and Tools" at the [ACM womENCourage 2026 conference](#) in Sophia Antipolis, France.

Introduction and Coaching with POP Methodology and Tools

In cooperation with the Czech National Competence Centre in HPC POP experts will present the [Introduction and Coaching with POP Methodology and Tools course](#), to be held on-site at IT4Innovations on Nov 4, 2026.

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>



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