



Interested in ...

- ... an independent performance assessment of your application?
- ... an estimate of potential performance gains and identification of the techniques to get them?
- ... guidance/help on how to implement those techniques?

The EU POP Centre of Excellence provides 3 levels of free services

? Parallel Application Performance Audit

- Primary service
- Identify performance issues of customer code (at customer site)
- Small effort (< 1 month)

! Parallel Application Performance Plan

- Follow-up on the audit service
- Identifies the root causes of the issues found and qualifies and quantifies approaches to address them
- Longer effort (1 – 3 months)

✓ Proof-of-Concept

- Experiments and mock-up tests for customer codes
- Kernel extraction, parallelisation, mini-apps experiments to show effect of proposed optimisations
- 6 months effort

Target customers

Code developers

- Assessment of detailed actual behaviour
- Suggestion of most productive directions to refactor code

Users

- Assessment of achieved performance in specific production conditions
- Possible improvements modifying environment setup
- Evidence to interact with code provider

Infrastructure operators

- Assessment of achieved performance in production conditions
- Possible improvements from modifying environment setup
- Information for computer time allocation processes
- Training of support staff

Vendors

- Benchmarking
- Customer support
- System dimensioning/design

A team with

- Excellence in performance tools and tuning
- Excellence in programming models and practices
- Research and development background AND
- proven commitment in application to real academic and industrial use cases

