NOTES.

UVSQ is involved in two CoEs:

- POP2: Performance Optimization and Productivity)
- TREX: Targeting Real Chemical Accuracy at the EXascale

Since around 20 years, UVSQ has been collaborating with CEA in the area of performance analysis and optimization tools. In particular, CEA has been and is still very active in funding MAQAO and Verificarlo development. These two tools are heavily used in UVSQ contribution to TREX: in particular, we have been training TREX developers how to use these tools and now all of the TREX codes habe been analyzed with these tools.

UVSQ is part of POP2 (Performance Optimization and Production) CoE. In this project, UVSQ has been involved in particular in unicore and single node performance analysis using MAQAO. For TREX, UVSQ has been able to leverage experience and knowledge acquired within POP2 for code analysis/optimization.

UVSQ is involved in a project (EMOPASS) with ATOS and SiPearl (EPI) : one of the objective of this project is to provide a few key performance oriented tools for supporting SiPearl upcoming architecture (code name RHEA) as well as optimize a few key applications selected by ATOS. Within this framework, UVSQ has been porting MAQAO on SiPearl architecture and we will be using TREX key kernels as some of the reference benchmark to analyze/characterize SiPearl RHEA.