

## GLOBAL 87: HPC ORCA36

### Description

The goal of this project is to assess the suitability of the NEMO code to run simulations on extremely high resolution global grids and provide information on the major bottlenecks constraining its scalability, in order to address the ever-increasing demands of oceanic forecasting and facilitate the deployment of these configurations in the next years. Special focus will be put into  $1/36^\circ$  resolution, one of the target configurations in the NEMO Development Strategy, whose performance will be assessed and compared with other resolutions. The experts that will develop this project belong to the Performance Team of the Earth Sciences Department at the Barcelona Supercomputing Center (BSC). This is an experienced team specialised in parallel model s performance, with proven expertise in analysing parallel programming model codes using cutting-edge performance tools.

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