

The Exodus to GPU. The case of scientific analysis for the Euclid mission.

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All the main HPC facilities in the world rely on GPUs for their new computational systems. CINECA's Leonardo powerful computing capabilities are rooted on GPU performances. Missions like Euclid that make a lot of use of computing power to perform scientific analysis with their data will now need to produce and optimize codes that adapt to the GPU in a short timescale.

In this presentation I will show how the Julia programming language could be the game changer in the updates of scientific analysis codes with GPU for the Euclid mission.

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