Newsletter

CloudSkin

June, 2025

CloudSkin Consortium Advances Final Project Milestones and Highlights WebAssembly Research at CCGrid2025

On June 11–12, the **CloudSkin consortium convened for a project meeting** at the Sano Centre for Computational Medicine in Kraków. The event served as a key milestone to evaluate the project's final scientific progress, plan the concluding phases, and coordinate the integration of tools developed by various partners. Participants also engaged in in-depth discussions on practical use cases. Beyond technical reviews, the gathering offered a valuable opportunity to reinforce collaboration within the consortium and to explore future research directions.

by Marc Sanchez-Artigas (Universitat Rovira i Virgili)

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In parallel with these consortium-wide meetings, CloudSkin continues to advance through ongoing scientific work, daily research efforts, and international collaborations. A recent highlight includes the participation of Marc Sanchez-Artigas and Julen Bohoyo from the URV team at the 25th IEEE **International Symposium on Cluster, Cloud and Internet Computing (CCGrid2025)**, held on May 19–22 in Tromsø, Norway. Representing URV, Marc presented a research paper entitled 'Let It Unthread: The Good, The Bad, and The Ugly within WebAssembly Portable Multithreading', which, using standardized benchmarks and a deep analysis of a popular standalone runtime, reveals interesting findings on the lack of performance in multithreaded code cross-compiled to WebAssembly. The paper elaborates on the difficulty of correcting these inefficiencies and even proposes a mitigation for excessive thread locking caused by the default WASI libc memory allocator.

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