Università della Svizzera italiana

Institute of Computational Science ICS





Center for Computational Medicine in Cardiology CCMCInstitute of Computational Science ICS
Faculty of Informatics





Eurohack 2018 Utopia an EDSL for scientific computing

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GPU porting status

- Compiling successful!
- Tpetra backend
 - several bugs resolved
- Kokkos integration:
 - we replaced binary and reduction operations
 - fill-in of tensors in progress
- Integration of Intrepid2
 - warming up
- Recursive multilevel trust region (RMTR)
 - runs successfully on single node GPU
 - experiencing problems with multinode GPU assembly
 - profiling is in the progress

FASTER

- integration with UTOPIA successful
- encountering some problems with pure Trillions at the moment