

Eurohack 2018

Utopia an EDSL for scientific computing

Team: Patrick Zulian, Alena Kopanicakova, Maria Nestola

Mentors: Nur Fadel, Andreas Fink, Carter Edwards (NVIDIA), Christian Trott (SNL)



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- **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