


High-Performance C++ in Weather Prediction

Challenges, Achievements and Future Models

Pascal Spörri¹, Andrea Arteaga², Oliver Fuhrer², Tobias Gysi³, Carlos Osuna², Thomas C. Schulthess^{4,5,6}

¹Center for Climate Systems Modeling, ETH Zürich; ²Federal Office of Meteorology and Climatology, MeteoSwiss; ³Department of Computer Science, ETH Zürich; ⁴Swiss National Supercomputing Centre, ETH Zürich;
⁵Institute for Theoretical Physics, ETH Zürich; ⁶Computer Science and Mathematics Division, Oak Ridge National Laboratory



Contact

Pascal Spörri
 MeteoSchweiz
 Operation Center 1
 8058 Zürich Flughafen
 Switzerland
 pascal.spoerri@env.ethz.ch

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Code Versions and Setup

COSMO	Version 5.0_2017.5 (Basil)	CPU Setup	CCE 8.4.4 (PrgEnv-Cray 15.10)
STELLA	Version 1.04.16 (Deneb)	CPU Setup	GCC 5.3.0, MVAPICH 2.1
COSMO-1 Case	6h MeteoSwiss reference test case, updated 15. Mai 2017	GPU Setup	CCE 8.4.4 (PrgEnv-Cray 15.10, CUDA 7.0)
COSMO-E Case	2h MeteoSwiss reference test case, updated 15. Mai 2017	CPU Setup	GCC 4.9.3, CUDA 7.0, MVAPICH 2.1 GDR