Beitrag ID: **96** Beitragskennung: **49** Typ: **Poster**

BORGES: A database for the storage, search and retrieval of ICON data

BORGES tackles the handling of the ever-growing climate model data produced. It is a semantic database for the storage, search and retrieval of model data. It serves mainly demands of the up-to-date, competitive Earth system model ICON, developed and used at the MPI-M, Hamburg. BORGES excels for both large ensembles of model experiments as well as very high-res, large volume, „storm-resolving“model configurations. In a classical HPC context, the system retrieves large data streams and the associated metadata from the model experiments using semantic data management.

For storing the data stream, BORGES builds on the domain-specific object storage Field Database, developed by the European Centre for Medium-Range Weather Forecast. This ensures metadata storage consistent with stream data in classical databases.

Find me @ my poster

1,2

Keywords

Semantic data management
HPC
ICON
fdb

Autoren: SEGURA BERMUDEZ, Jairo Alonso (Max-Planck-Institut für Meteorologie); Dr. KORNBLUEH, Luis (Max-Planck-Institut für Meteorologie); Herr SCHLARB, Raphael (Max-Planck-Institut für Meteorologie); Herr BUDICH, Reinhard (Max-Planck-Institut für Meteorologie); Dr. WILLNER, Sven (Max-Planck-Institut für Meteorologie)

Vortragende(r): SEGURA BERMUDEZ, Jairo Alonso (Max-Planck-Institut für Meteorologie)