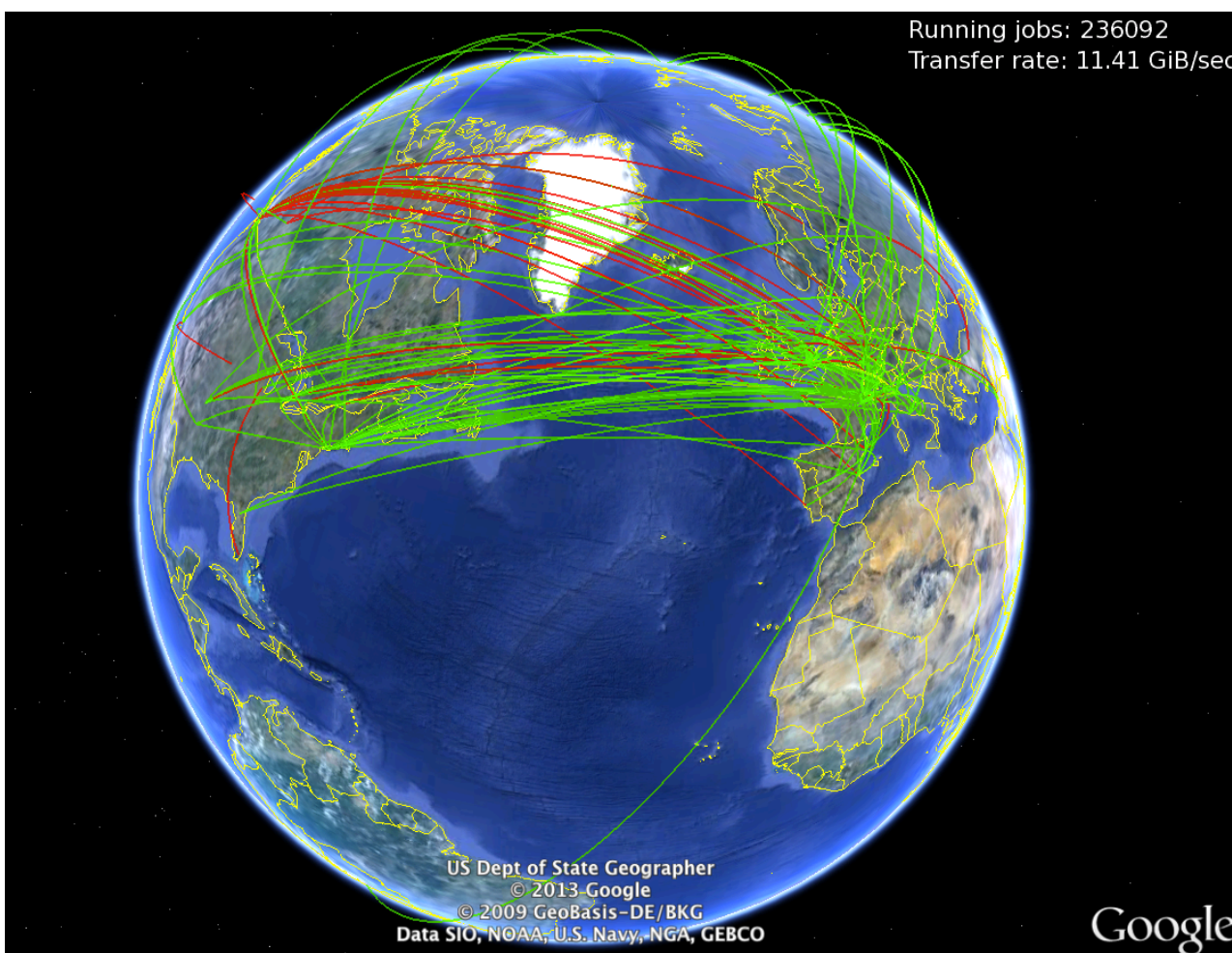


Running jobs: 236092
Transfer rate: 11.41 GiB/sec



Google & WLCG

RWTH Aachen ErUM Data IDT Area A&B – Status & Plans



Thomas Kreß for the Aachen Computing Team
Video Meeting, Mar 11th, 2020



Aachen + Karlsruhe Cooperation

RWTH Aachen only ,indirect' (= no funding) participant in ErUM Data Area A&B
- contribute by testing, ...

Two weeks ago we had a very fruitful FSP-CMS computing workshop in Aachen
Similar to KIT+Bonn workshop



Federating HTCONDOR-pools

R. F. von Cube, R. Caspart, M. Fischer, M. Giffels, G. Quast, M. J. Schnepf.
Cloudworkshop Aachen – February 27, 2020

INSTITUTE OF EXPERIMENTAL PARTICLE PHYSICS (ETP), KIT

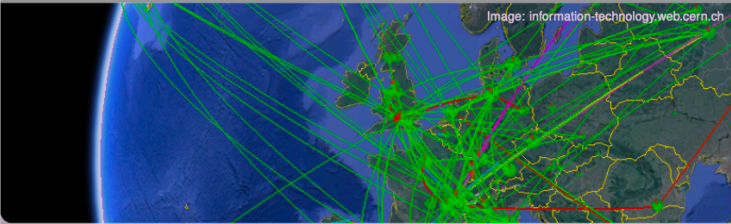


Image: information-technology.web.cern.ch

KIT – The Research University in the Helmholtz Association www.kit.edu

RWTH Aachen, III. Phys. Inst. A+B - Grid Experts Workshop with KIT

27 Feb 2020, 10:00 → 28 Feb 2020, 13:00 Europe/Zurich
26C-201 (2. OG, gelber Flur) (Aachen Physikzentrum)

Videconference Rooms RWTHAachenIIIB_CMS_meeting_indico_203415 [Join](#)

THURSDAY, 27 FEBRUARY

10:00 → 12:00	Institute III a/b only: Computing at the institute Speaker: Andreas Nowack (Rheinisch Westfaelische Tech. Hoch. (DE)) pre workshop comp...	2h	28A-207 (2nd floor, red) (Vide...
10:00 → 12:00	free	2h	26C-201 (2. OG, gelber Flur)
12:00 → 13:30	Lunch break	1h 30m	26C-201 (2. OG, gelber Flur)
14:00 → 14:05	Introduction Speaker: Alexander Schmidt (RWTH Aachen (DE))	5m	26C-201 (2. OG, gelber Flur)
14:10 → 15:05	CMS Computing Status & Plans Speaker: Christoph Wissing (Deutsches Elektronen-Synchrotron (DE)) Wissing_DCMS_Aa...	55m	26C-201 (2. OG, gelber Flur)
15:05 → 15:30	Aachen Tier-2/3 Status & Plans (& Crisis ?) Speaker: Thomas Kress (Rheinisch Westfaelische Tech. Hoch. (DE)) AC-KIT-Workshop_F...	25m	26C-201 (2. OG, gelber Flur)
15:30 → 16:00	Coffee Break	30m	26C-201 (2. OG, gelber Flur)
16:00 → 16:45	Dynamic Integration and Management of Opportunistic Resources with COBAlD and TARDIS Speakers: Max Fischer (Karlsruhe Institute of Technology), Manuel Giffels (KIT - Karlsruhe Institute of Technology (DE)), Ralf Florian Von Cube (KIT - Karlsruhe Institute of Technology (DE)) 2020_aachencloud..., 2020_Aachen_Coba..., giffels_COBAlD_TA...	45m	26C-201 (2. OG, gelber FL)
16:45 → 17:25	Dynamic Integration and Management of Opportunistic Resources with COBAlD and TARDIS Speaker: Manuel Giffels (KIT - Karlsruhe Institute of Technology (DE))	40m	26C-201 (2. OG, gelber FL)
17:25 → 17:45	Dynamic Integration and Management of Opportunistic Resources with COBAlD and TARDIS Speaker: Ralf Florian Von Cube (KIT - Karlsruhe Institute of Technology (DE))	20m	26C-201 (2. OG, gelber FL)
19:00 → 21:00	Dinner in the Aachen City	2h	26C-201 (2. OG, gelber Flur)

FRIDAY, 28 FEBRUARY

09:00 → 11:00	Tutorial Speaker: Manuel Giffels (KIT - Karlsruhe Institute of Technology (DE)) cobald.yaml Tutorial	2h	26C-201 (2. OG, gelber Flur)
11:00 → 11:30	Coffee Break	30m	26C-201 (2. OG, gelber Flur)
11:30 → 12:30	Discussion about further steps	1h	26C-201 (2. OG, gelber Flur)

Joint KIT+AC Project on ‚Remote Tier Operation‘ has started

Connecting resource pools



- HTCondor offers different mechanisms to execute jobs in other resource pools
 - Routing: jobs description (ClassAds) are edited, possible to send to other batch system
 - Flocking: jobs move from one resource pool to another
- HTCondor can take care of file transfers and execution of jobs in containers
- No need for experiment specific software

Federating HTCONDOR-pools
R. Florian von Cube (ETP, KIT)

2
Cloudworkshop Aachen – February 27, 2020

Already started to work on it at KIT and AC
- preparation of remote CE@KIT for T2@AC
run first on an AC WN test cluster
- next week expert from KIT will come to AC
- proof of concept to be expected very soon
- perhaps afterwards use it in production environment

Big Thank-You to our KIT colleagues for an excellent project and great willingness to share their expertise and to help

Summary



- Flocking enables uncomplicated connection of HTCONDOR-pools
⇒ Federated German infrastructure (‘German Science Grid’ GSG)
- Allows for operating lightweight T2/3

Very likely to be very useful for operating opportunistic resource centers