EURO-PAR
CONFERENCE 2019

PMACS

(W 5) PMACS
Performance Monitoring and Analysis of Cluster Systems

DATE

Monday 26.08.2019, 14:00 - 17:30

LOCATION

Heyne-Haus, Papendieck 16, 37073 Göttingen, room 2/right ▶ Map

SCOPE

For a long time, hardware performance monitoring was used on a small scale to measure and analyze data of single application runs in order to detect performance limitations caused by hardware and/or software. Monitoring the whole cluster system for observing hardware failures has been the duty of system administrators with emphasis on operating the system and changes in the system parameters. In recent years, many HPC providers have extended or replaced their monitoring system to additionally track performance data from hardware monitoring facilities and even from the applications. The analysis of the data provides deeper insight in resource utilization and the quality of software. In addition, system administrators use performance data to track the causes of system instabilities to specific user codes. Due to the diversity of HPC centers, many tailored solutions for collection, storage, evaluation and visualization exist today. The workshop wants to bring together developers and users of such infrastructure in order to find ways of collaboration and exchange ideas for further developments.

WORKSHOP CHAIRS

- **Thomas Gruber**, Friedrich-Alexander-University Erlangen-Nuremberg (FAU), Erlangen Regional Computing Center (RRZE), Erlangen, Germany
- **Anthony Danalis**, University of Tennessee, Department of Electrical Engineering and Computer Science, Knoxville, USA

AGENDA

14:00 - 15:00
Stephane Eranian, Google. Mountain View, CA, USA
Keynote TBA

15:00 - 15:30
Luka Stanisic and Klaus Reuter
MPCDF HPC Performance Monitoring System: Enabling Insight via Job-Specific Analysis

15:30 - 16:00 Coffee Break

16:00 - 16:30
Philipp Neumann
Sparse Grid Regression for Performance Prediction Using High-Dimensional Run Time Data

16:30 - 17:00
Gence Ozer, Sarthak Garg, Neda Davoudi, Gabrielle Poerwawinata, Matthias Maiterth, **Alessio Netti** and Daniele Tafani
Towards a Predictive Energy Model for HPC Runtime Systems Using Supervised Learning

17:00 - 17:30
Saurav Nanda, **Ganapathy Parthasarathy**, Parivesh Choudhary and Arun Venkatachar
Resource Aware Scheduling for EDARegression Jobs

Submission deadline for the Euro-Pas PhD Symposium has been extended to 27 May, 2023. Click here for more information - https://t.co/wWxisICJSC

17.05.2023 - 11:51

The Euro-Par PhD Symposium is a welcoming and supportive forum for PhD students to present their work. Click here for more information: https://t.co/wWxisICJSC

04.04.2023 - 09:25

Submit your paper for EURO-PAR 2023 Workshops and Minisymposia! Click here for more information. https://t.co/UEseXWb3Dz

07.03.2023 - 08:18

Abstract submission is due tomorrow 24 Feb, 2023 https://t.co/eH2C9CRZA3

23.02.2023 -

CONTACT US

HOSTS

GEORG-AUGUST-UNIVERSITÄT GÖTTINGEN

GWDG
Gesellschaft für wissenschaftliche Datenverarbeitung mbH Göttingen

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