

Application of Remote Debugging Techniques in User-Centric Job Monitoring

Monday, 5 September 2011 16:55 (25 minutes)

With the Job Execution Monitor, a user-centric job monitoring software developed at the University of Wuppertal and integrated into the Pilot-based “PanDA” job brokerage system of the WLCG, job progress and grid worker node health can be supervised in real time. Imminent error conditions can thusly be detected early by the submitter and countermeasures taken. Grid site admins can access aggregated data of all monitored jobs to infer the site status and to detect job misbehaviour. To remove the last “blind spot” from this monitoring, a remote debugging technique based on the GNU C compiler suite was developed and integrated into the software; its design concept and architecture will be described and its application discussed.

Primary author: Dr DOS SANTOS, Tim (Bergische Universitaet Wuppertal)

Co-authors: Mr VOLKMER, Frank (Bergische Universitaet Wuppertal); Dr WULFF, Nikolaus (Fachhochschule Muenster); Dr MAETTIG, Peter (Bergische Universitaet Wuppertal); Mr AHRENS, Raphael (Bergische Universitaet Wuppertal); Dr KALININ, Sergey (Bergische Universitaet Wuppertal); Mr BEERMANN, Thomas (Bergische Universitaet Wuppertal); Dr HARENBERG, Torsten (Bergische Universitaet Wuppertal)

Presenter: Dr DOS SANTOS, Tim (Bergische Universitaet Wuppertal)

Session Classification: Monday 05th - Computing Technology for Physics Research

Track Classification: Track 1: Computing Technology for Physics Research