Contribution ID: **24**   Type: **not specified**

Infrastructures for scientific computing & sutainability at DESY-IT

Monday 1 July 2024 17:40 (20 minutes)

Within the EU-Project RF2.0, DESY focus on sustainable scientific computing infrastructure splitted into more classical/obvious directions like, new architectures, longer system lifetimes, software efficiencies etc. and the model to operate a decent amount of compute resources with variable power consumption coupled to 'true RE power' availability at DESY location by steering the compute load - with dependencies amongst them. Beside these core technical challenges, which we believe are manageable within the project team, the true effective GHG emission reduction strongly depends on user acceptance. In other words - assume that will all be done and works, you will see job completion times extended (vary) and shifted job starting times (even if compute resources are available) due to unavailable RE power:
- what will be the motivation for each user to accept that ?
- i.e. bonus, directorate directive, being a good citizen, …

Primary authors: VOSS, Christian (DESY); GASTHUBER, Martin (IT (IT Scientific Computing)); KEMP, Yves (IT (IT Systems))

Co-author: Dr SCHWARZ, Kilian (IT (IT Scientific Computing))

Presenters: VOSS, Christian (DESY); GASTHUBER, Martin (IT (IT Scientific Computing)); KEMP, Yves (IT (IT Systems))

Session Classification: Scientific Computing I