

Job-Specific Monitoring

- batch system data
- Telegraf plugins:
pfit-jobID Plugin
pfit-procstat Plugin
- pfitCollect:
a lightweight metric collection tool

Job Report

- automated:
script-based generation in the postexecution
- modular:
job summary, resource consumption, recommendations, general information and more can be configured
- helpful:
includes easy to understand summaries and recommendations, identifies pathological cases



Visual Dashboards

- automated:
script-based generation in the postexecution
- interactive:
users can zoom into their data
- structured:
different levels of detail:
global, node-based, process-based

Goals

- increase awareness:
of the importance of performance of HPC applications
- automatic feedback:
on the performance and resource consumption of a job
- **recommendations:**
for optimization of the job

Achievements

- **requirement analysis**
Tier 3 infrastructure survey and requirement analysis
- **performance indicators**
definition based on monitoring data
- **prototype**
first version in test and to be rolled out soon

Next Steps

- integration of user feedback
include experiences of different data centers into the release
- integration of profiling tools
integrate profiling tool metrics into the reports
- integration of additional metrics
integrate network and file system metrics