

Integrating Tools With `sys-sage`

Working Group Outbrief

Discussion Topics

1. How sys-sage can be used
2. What data the potential users are interested in
3. GPU-related data

How sys-sage can be used

- Using information from sys-sage to provide parameters to other benchmarks
 - Various benchmarks may benefit from knowing e.g. the TLB, cache sizes
 - > the benchmark results could be fed to sys-sage again

Extending Provided Data

What the users will be interested in

- Network Information
 - e.g. network topology, network speeds, ...
- I/O
 - e.g. local FS vs shared FS, locking possibilities, ...
- CPU-GPU bandwidth and latency
- Integrating existing benchmarks for feeds and speeds
 - e.g. SHOC

Providing GPU-related information

- PAPI provides basic information on GPU
 - Integration of PAPI?
- Using benchmarking to obtain cache sizes, load latency, ...
 - Different algorithms to auto-evaluate spikes in data series