



Grid resources share - from MC to analysis

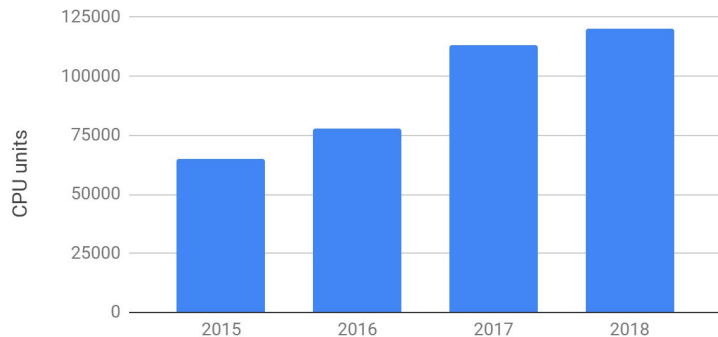
L. Betev

The winter is back!

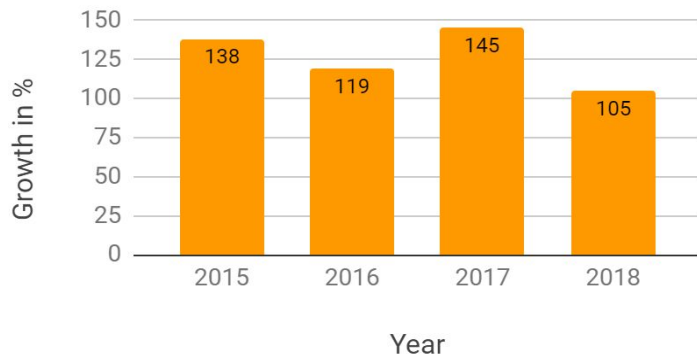


Evolution of CPU power per year and per task

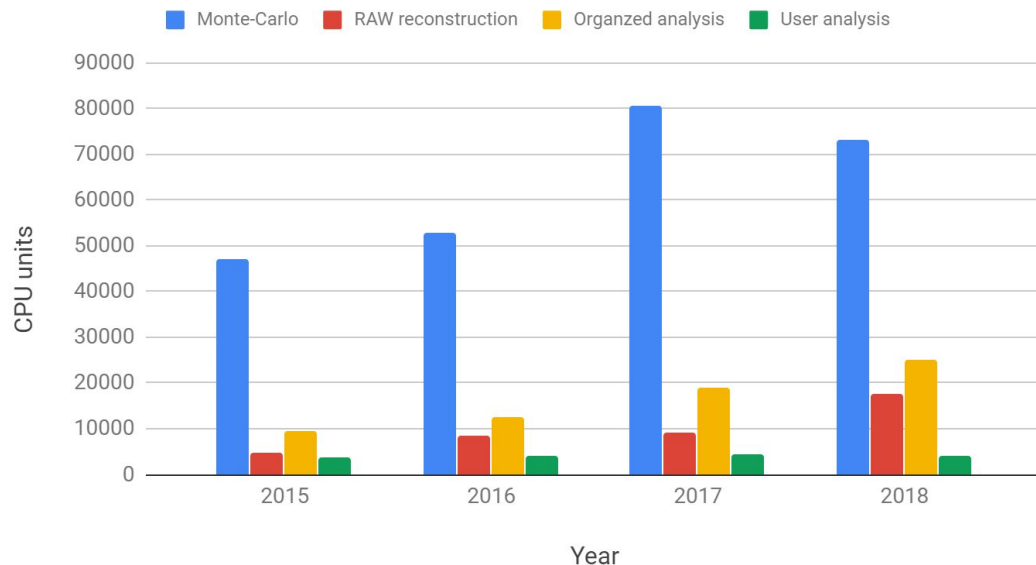
CPU resources evolution



Total resources year on year growth

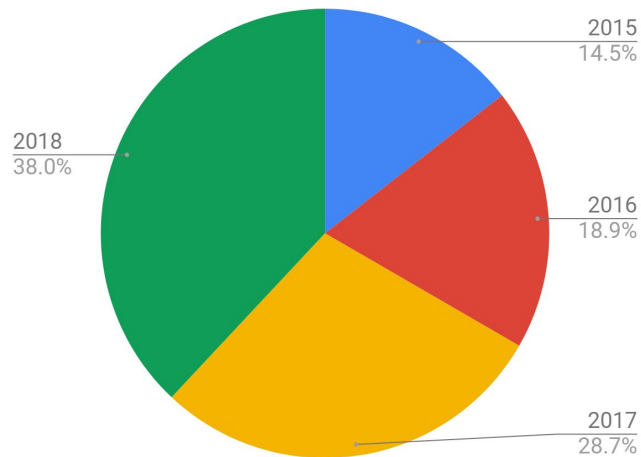


Evolution of CPU power per task in 2015, 2016, 2017 and 2018

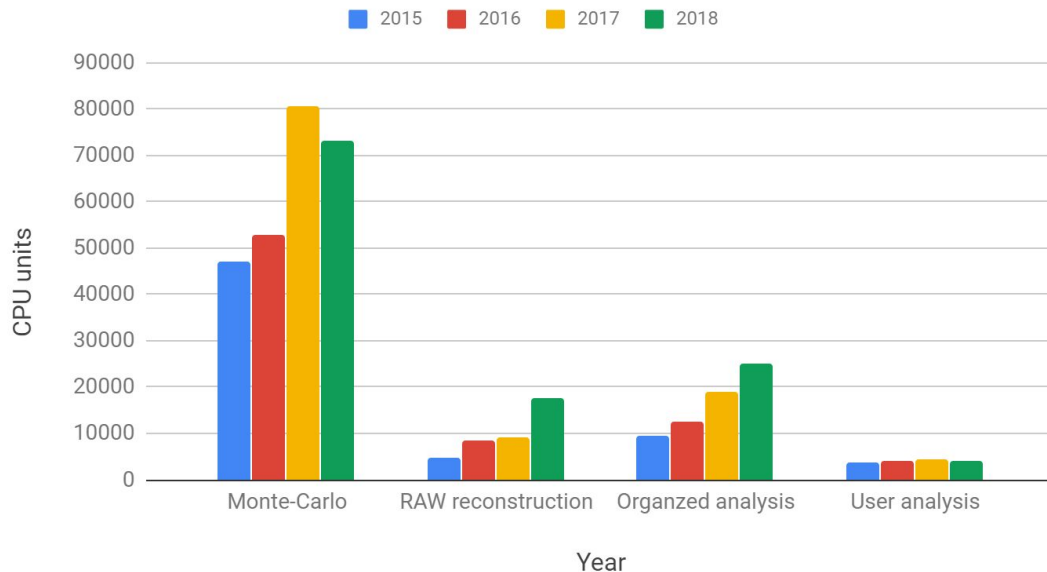


Another view of resources evolution

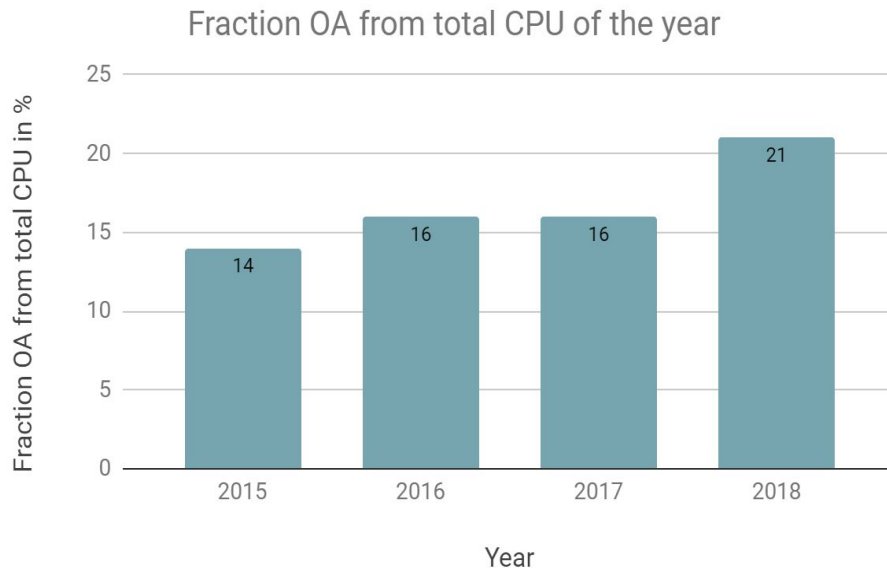
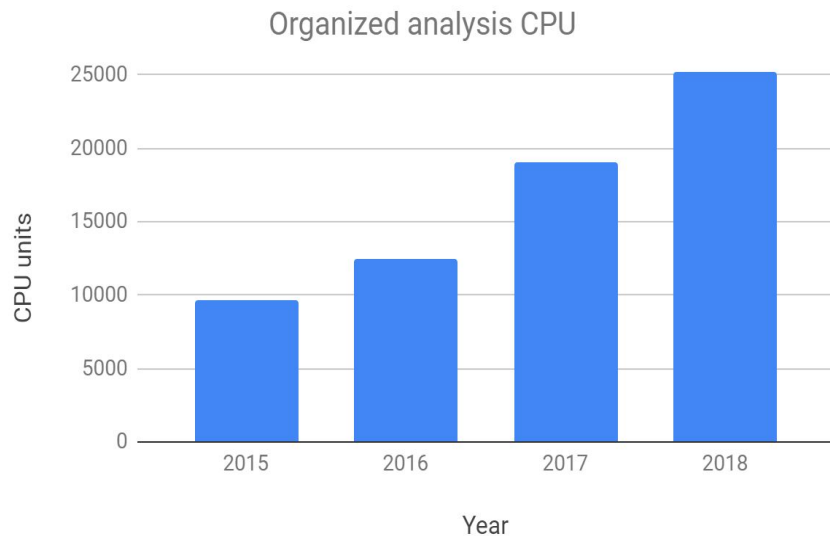
Fraction of resources for organized analysis from total used



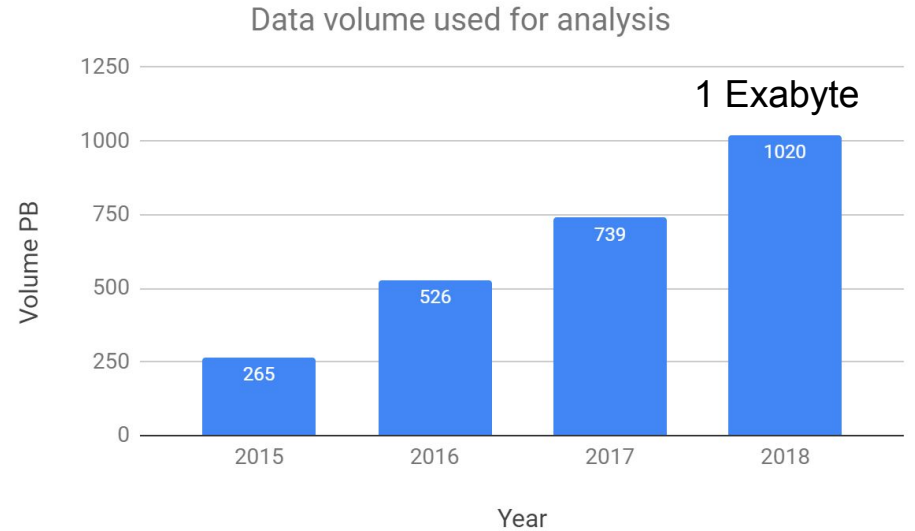
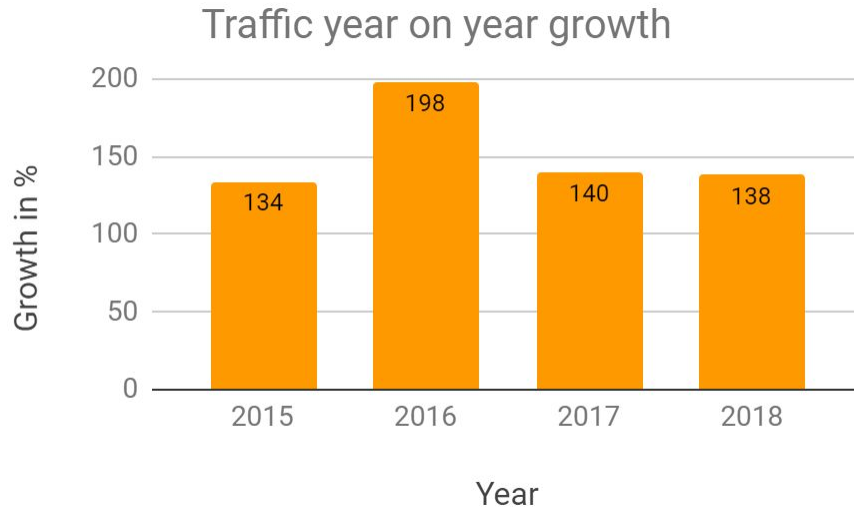
Evolution of CPU power per task in 2015, 2016, 2017 and 2018



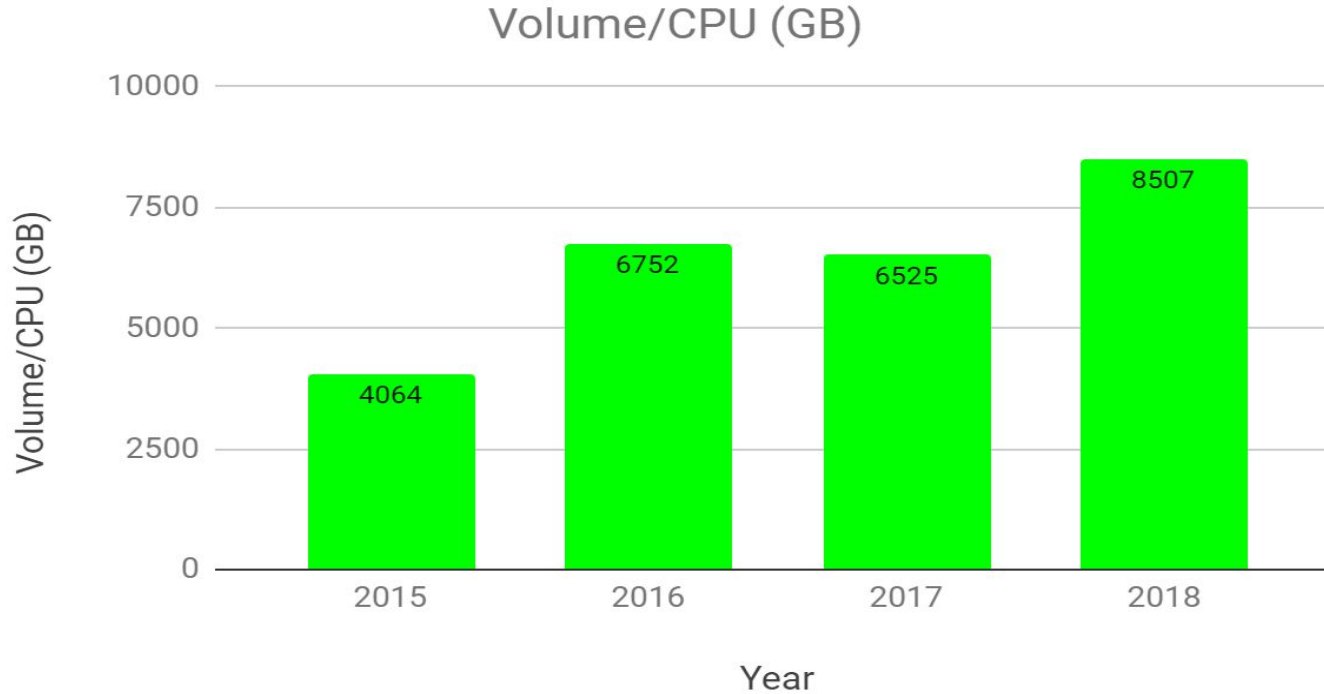
Organized analysis resources evolution



Data volume used for analysis

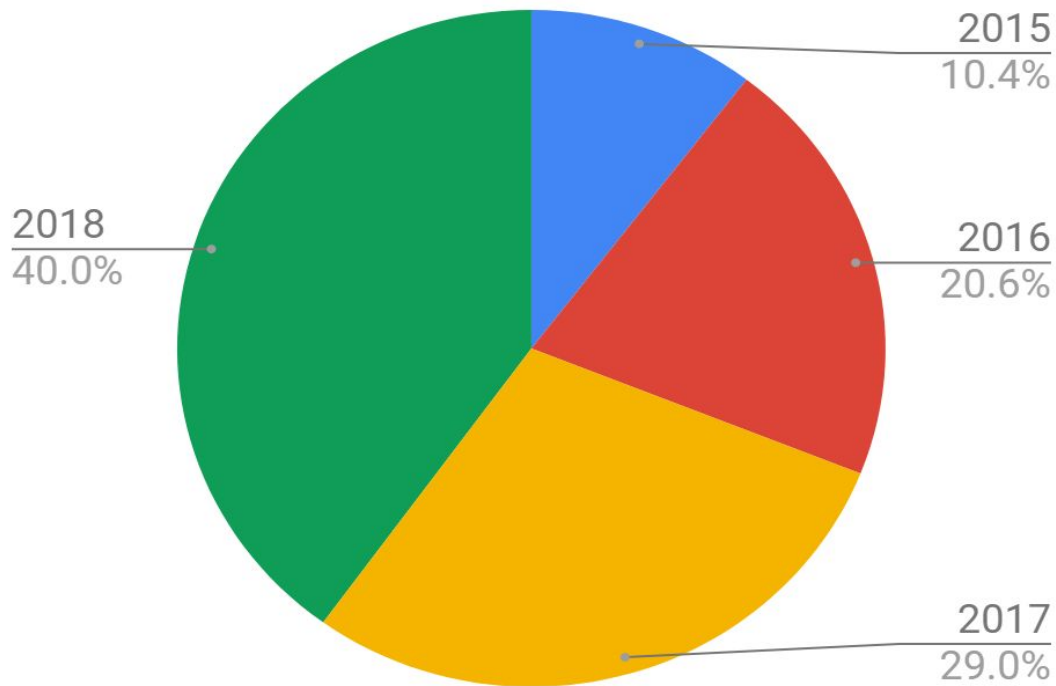


Data volume per CPU



Fraction of data in organized analysis

Fraction of OA data read per year from total



Conclusions

- Grid CPU resources continue to grow at $\sim 25\%$ year on year, storage is at $\sim 15\%$
- The fastest growing (by fraction) use of the resources is organized analysis
 - More than x2.5 CPU since 2015
 - About x4 in data volume since 2015
 - Does not track the absolute data volume growth
- So far, the infrastructure does not appear to be a bottleneck
 - Certainly helped by the improvements in the PWG analysis train operations
- Appetite for analysis is increasing - will not diminish in the next years (before Run3)