

# Computational chemistry optimized cluster JUSTUS. Advance via new storage technologies.

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## **Abstract**

In this talk the first part will be on the background and architecture of the computing system JUSTUS specifically designed to support the computational chemistry applications. The major focus of the second part will be on discussing how the challenge of very fast local I/O requirements of applications in particular in quantum chemistry has been addressed so far. Several choices have been considered ranging from open source and commercial tools for using the local SSDs as cache for the network connected storage as well as concatenated file systems. The talk concludes with initial results for the different options and future challenges to be addressed in this context.