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ASUH: API for Scientific Utilization of Heterogeneity

High performance computing simulations generate vast amounts of data that cannot be stored practically. This requires scientists and programmers working together to include analysis of simulation results during runtime. Because this often leads to extended utilization of high performance machines, and thus makes a whole project cost more, our group has created an application programming interface (API) for accelerating the vital analysis that occurs during and after high performance simulations with the help of CPUs and GPUs.

Patrick Gray and Siva Yedithi

Automated Testing for BigJob

BigJob is a Pilot-Job Framework created by the SAGA-Project that foregoes typical resource managers in order to cut down on submission time. During the semester, we worked with Ole Weidner and Professor Shantenu Jha on building an automated testing system, based on the open source software BuildBot, that would download, compile, and thoroughly test the BigJob Pilot-Job Framework.