

My current research in the field of Big Data

Friday 16 June 2023 13:20 (10 minutes)

My talk would be about our current research in the field of big data, where we try to implement a system that would scale its speedup to over a hundred nodes. Currently, we are working with astronomers and took the simulation and analysis of pulsars as a first use case for our implementation. My colleague, as a Phd in Physics, came up with the calculations of the simulations in python and I translated it into C++ to increase the performance. This first step is done now and we achieved a runtime increase of over factor one hundred by switching to a lower level programming language. The next task will be to decide on an architecture for the parallel processing and I hoped that presenting this at the tCSC could spark some interesting discussions.

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Session Classification: Student Lightning talks