

Supercomputing on-demand

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I attempt to clarify several myths associated with cloud in the context of high-performance computing. First of all, the best cloud is a hybrid cloud, with the ability to build friendly coexistence with on-premises (locally deployed) computing resources. I will discuss how cloud fares with key factors of success like security, cost, performance, innovation potential, regulatory compliance. I will talk about how several platforms ranging from CPU, GPU, FPGA (field programmable gate array) and even Cray can work together in a consistent manner in the same cloud. I will present a consistent AI environment built from open source tooling like Spark, containers, Hadoop, python and many other domain specific tools.