BIH Berlin Institute of Health
Charité & MDC

intel®

14x faster

genomic analysis pipeline compared to an industry standard pipeline[1]

Tremendous Potential to Make Bioinformatics More Insightful, Efficient, and Easy to Scale

The Berlin Institute of Health (BIH) at Charité is dedicated to improving healthcare through medical translation. Scaling genomic analysis applications has been limited by demanding computational workloads that generally require specialized HPC solutions. This has led to a high cost-per-sample and a significant carbon footprint. To find a new way to make genomic insights more accessible, Intel teamed up with a premier research institute, the BIH, and precision medicine-focused bioinformatics software developer Sentieon. This collaboration developed an optimized analytic pipeline that analyzed long-read next-generation sequencing (NGS) data using standard data center CPUs from Intel. The initiative's success was enhanced by systems integrator SVA, which led the process of building the Dell PowerEdge Server to run Sentieon's software pipeline and integrating it into Charité BIH's private cloud.

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