Singapore expands 3rd APAC HPC-AI competition to address COVID-19

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To address education and applied learning towards accelerating bioscience research and discovery

The HPC-AI Advisory Council (HPCAIAC) and the National Supercomputing Centre (NSCC) Singapore has announced that they have joined the global fight against COVID-19 by expanding the 2020 APAC HPC-AI competition to address education and applied learning towards accelerating bioscience research and discovery.

As part of the updated competition, student teams are now tasked to research, find and choose an HPC or AI application that can potentially be used as part of the global fight against COVID-19.

Teams must demonstrate testing and benchmarking of the application, as well as explain how this application can best be accelerated. In addition, teams will also be required to focus on tuning and accelerating NAMD, a molecular dynamics code designed for high-performance simulation of large biomolecular systems.

The NAMD application is being used at various supercomputing sites to run massive simulations of COVID-19 to aid researchers design new drugs and vaccines to combat the virus.

The APAC HPC-AI competition promotes the latest HPC and AI technologies to the universities and research centers and trains the students with the latest HPC and AI technologies to help bridge the gap between universities/research institutes and industries. The competition also trains the undergraduate and graduate students to practice on the newest HPC and AI platforms, and provides the key ingredients and industry tools to optimize the production applications.