

1.7 PetaFLOPS Prometheus. Deployed.

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Abstract

Cyfronet High Performance Computing Department goal to offer the scientists from various domain of science the most powerful, reliable and universal system, yet economical and “green” one is supported by HP unique and innovative solution, Apollo 8000.

Presentation will cover a few concepts behind the architecture, like heat pipes, dry disconnect, primary and secondary loops, sub-atmospheric pressure in the last one, quick connect plumbing kit, and so on. Summarizing the adventures provided by them all, in area of power effectiveness, as well as money savings. Then the configuration delivered to Supercomputing Center will be listed and explained. Next the experiences from complex process of production, delivery, hardware installation, electrical and signal wiring, water filling and entire system testing will be shared. Finally, the system capabilities and possibilities for the future expansion will be described to allow the audience, Cyfronet’s supercomputers user’s effectively utilize existing system, as well as consider placing propositions to add new computing components like coprocessor or GPUs.