Red Hat container technologies for HPC

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Podman paves the road to running containerized HPC applications on exascale supercomputers

June 22, 2020 | Yan Fisher

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Following the rise of Linux container use in commercial environments, the adoption of container technologies has gained momentum in technical and scientific computing, commonly referred to as high-performance computing (HPC). Containers can help solve many HPC problems, but the mainstream container engines didn't quite tick all the boxes. Podman is showing a lot of promise in bringing a standards-based, multi-architecture enabled container engine to HPC. Let's take a closer look.

The trend towards using AI-accelerated solutions often require repackaging of applications and staging the data for easier consumption, breaking up otherwise massively parallel flow of purely computational solutions.

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