Virtual Fugaku

Your Personal Fugaku, Empowering the World

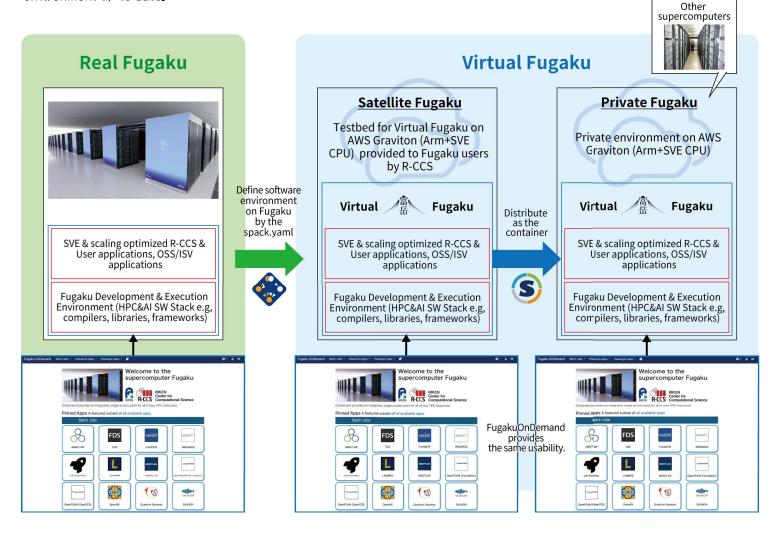


It is no exaggeration to say that the new value created continuously by the supercomputer Fugaku is supported by a highly developed software environment. Since the development of Fugaku began, R-CCS has developed and maintained an exceptionally high-quality software environment using methods such as co-design, and has continued to update it with cutting-edge software technology since its launch. This high-quality and sustainable software environment, which can be considered a cutting-edge research platform, will be made available for use on computers and cloud services beyond Fugaku. This is Virtual Fugaku.

Virtual Fugaku is a development environment that has the potential to become a global standard. Application programs developed on Virtual Fugaku can be run not only on Fugaku but also on any computers and cloud services that have installed Virtual Fugaku, contributing to the groundbreaking expansion of the software ecosystem for supercomputers.

R-CCS has begun providing Satellite Fugaku as an environment for experiencing Virtual Fugaku and testing individual programs. Additionally, we are also providing Private Fugaku, which allows users to utilize Virtual Fugaku in cloud services and other environments by containerizing it with container virtualization technology.

Looking ahead, we plan to expand "Virtual Fugaku" to upcoming platforms at RIKEN R-CCS, including the quantum-supercomputers hybrid platform nd the AI for Science Platform, as we prepare for its application to next-generation flagship supercomputer FugakuNEXT. This will help us support various computing architectures and keep the software environment up to date.





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