Post-K Computer Development

In collaboration with RIKEN, Fujitsu is developing the world's top-level supercomputer, capable of realizing high effective performance for a broad range of application software.

Advanced Technology

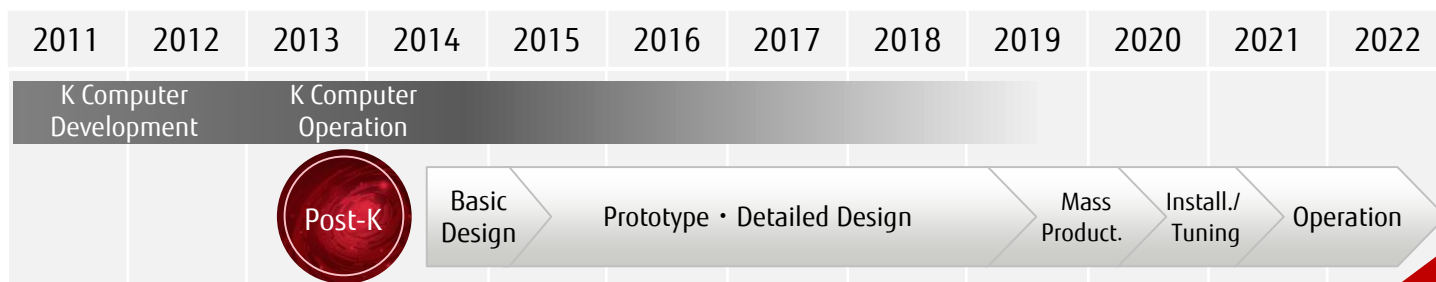## Fujitsu Contributions to the Post-K Computer National Project

■ Post-K Development

・System Characteristics

We are aiming to achieve the development goals of having an effective application performance that is up to 100 times greater than that of the K computer and power consumption of 30-40 MW (the K computer's power consumption is 12.7MW), and to create the world's top-performing general-purpose supercomputer. To be more precise, our aim is to balance various factors, such as i) power consumption, ii) computational performance, iii) user convenience, and iv) ability to produce ground-breaking results, characterized by its all-around capabilities, compared to any other system in the world.

・Fujitsu's Efforts

Fujitsu, through efficient use of not only cutting-edge technology, but also the cultivation of know-how and performance experience with the K computer and the Supercomputer PRIMEHPC Series, is developing the entire system; from the processor to the software. In particular, in regards to the processor, Fujitsu chose the Arm instruction set architecture with supercomputing extensions co-created with Arm, and is working hard to extract the potential maximum performance from it.

2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022

K Computer Development | K Computer Operation

Post-K

Basic Design | Prototype・Detailed Design | Mass Product. | Install./ Tuning | Operation

K computer

The K computer is used in various fields from advanced research to manufacturing.

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PRIMEHPC FX100

PRIMEHPC FX10

Post-K

RIKEN and Fujitsu are developing with the goal of beginning full operations around 2021.

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