# Supercomputer Fugaku Development

*RIKEN named the Post-K computer Fugaku

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 Supercomputer Fugaku National Project

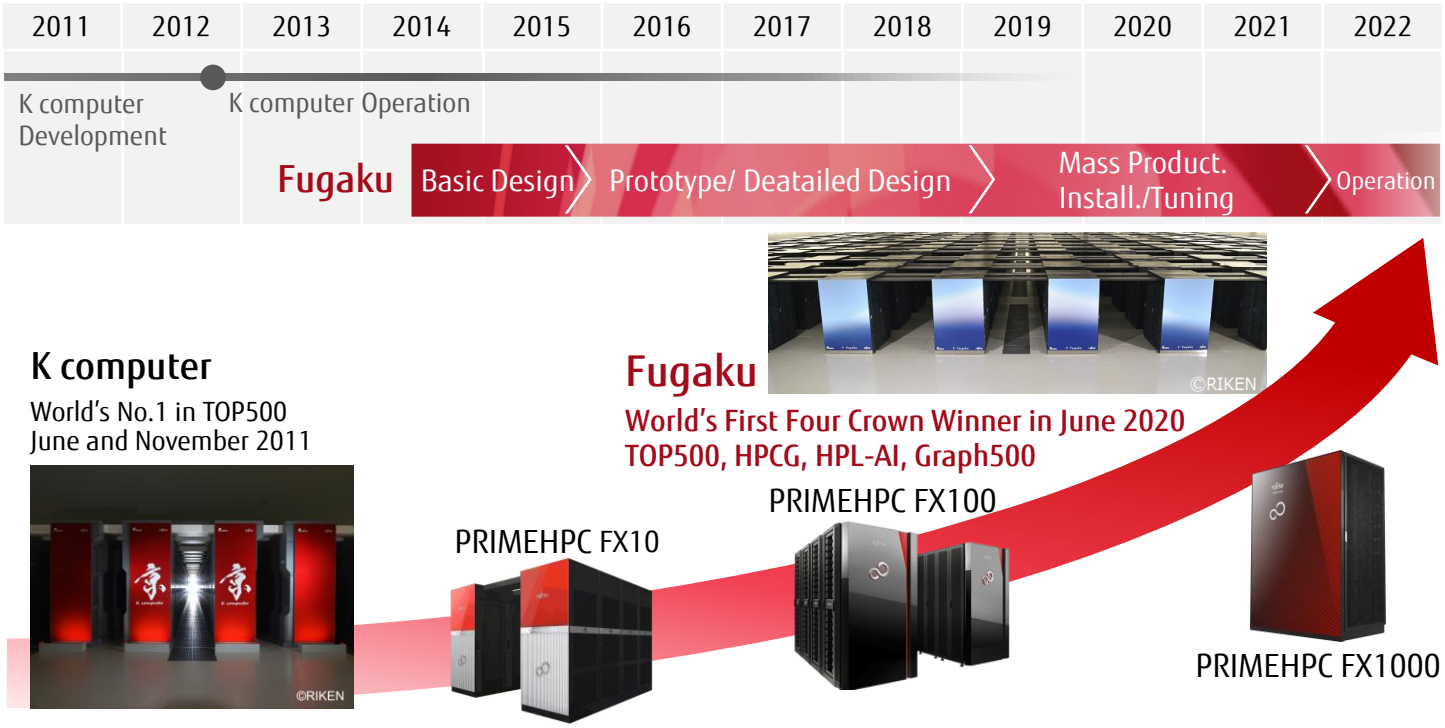
### ■ Fugaku Development

・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 Armv8-A SVE, the latest instruction set architecture for high performance servers, and is working hard to extract the potential maximum performance from it. Moreover, utilizing the technologies created through the development of Fugaku, Fujitsu will productize the commercial supercomputer, and launched globally in November 2019.

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