

## **VIRTUAL ACCELERATOR USING JAVA**

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Control software for accelerator control systems tends to grow in size and complexity since the evolution of accelerator physics and new experiments often require improvements in the accelerator performance. Due to such potential problems for accelerator-control systems which are different from industrial control systems, the specification and requirement analysis cannot be carried out completely beforehand, resulting in costly software. An approach, the concept of the virtual accelerator using Java is discussed in this paper. Instead of physically accelerating the particles, the virtual accelerator provides the same software-compatible environment as that of a physical accelerator.