

## **INTEGRATION OF THE BOOSTER SYNCHROTRON CONTROL SYSTEM TO THE SPRING-8 CONTROL SYSTEM**

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We present that the control system of booster synchrotron has been successfully integrated to the SPring-8 control system. Replacement of control system of an accelerator in duty operation causes difficulties such as lack of machine time. But during our replacement and test, no interrupt occurred to SOR user experiments. At the SPring-8 accelerator complex, control systems of the linac, the booster synchrotron and the storage ring were designed and constructed independently. The old synchrotron control system was constructed with 5 OpenVMS workstations and 14 OS-9 VME systems. Since December 1996, synchrotron started its operation and this control system was useful enough in commissioning phase and steady operation. However, more tight combination to the storage ring control system was requested for future development and transparent operation of accelerators. It was decided to integrate the present control system of synchrotron to the SPring-8 standard control system. Also this integration decreases manpower and cost for maintenance and improvement. We replaced the software and CPU's (VME and console) and kept VME I/O cards and equipment controllers remained. This work started on February 1998 and replaced to new control system on January 1999.