

DIAGNOSTIC SYSTEM USING JAVA APPLET AND DATABASE FOR HIGH ENERGY ACCELERATORS

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The Diagnostic system has been designed and implemented using Java applet for high energy accelerators. The system was implemented on PC computers running under WindowsNT4.0. The system allows to diagnose the accelerator using Java Applet at any place in the field through the network. The system provides functionality of accessing the Oracle database in which operational and control data of the accelerator are automatically stored. The operator can, if a failure occurs in the accelerator, diagnose the accelerator in the vicinity of the faulty accelerator component, resulting in greatly reducing shutdown time caused by the malfunctioned accelerator component. The design and implementation of the system is described.