

NEW INTEGRATED CONTROL SYSTEM OF IHEP ACCELERATORS COMPLEX

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The paper outlines the IHEP accelerators complex and its control problems. The structure of the three layers Control System hardware is presented. Layout of software realizing the distributed data base approach is considered. Control network organization with remote access options using two types of modem is outlined. General timing system synchronizing equipment controllers with the accelerators events and based on MIL1553 protocol for distribution of the timing messages is presented. Special attention is paid to adaptation of the existing technological equipment, manufactured long ago, to the Control System. Four categories of unified interface with a great variety of such an equipment is described. The present status and further activity plan are presented. Main results and problems of the first Control System runs are discussed.