

THE ONLINE DETECTOR CONTROL SYSTEM OF THE IFR AT THE BABAR EXPERIMENT

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The Instrumented Flux Return is the "muon detector" of the BaBar experiment at SLAC. It is based on the Resistive Plate Chamber detector covering an area of about 2000 m². An Online Detector Control system has been developed by the I.N.F.N section of Naples in order to control and monitor the performance of the 800 chambers and of their front-end electronic, the HV and LV systems, the gas system and other minor subsystems. The hardware is based on the VME technology and the DAQ system has been developed using the VxWorks/EPICS system. The project started in the 1995 and since the August 1998 is working at SLAC. The whole system will be described from the hardware and software point of view and the first results of the commissioning run will be showed.