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TEST BENCH FOR SILICON STRIP DETECTORS TESTING.

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A heavy-duty test bench for silicon strip detectors (SSD) testing is presented. The complete device, including hardware and software has been designed and developed by Warsaw and Nantes groups of STAR Collaboration. The several hundreds of SSD modules will constitute the fourth layer of STAR [*] vertex detector and all of them have to be thoroughly tested. The aim is to get set of dynamic characteristics of all SSD modules before their installation in STAR experiment. The mechanical part of test bench consists of pulse laser, step motors and x-y table. Fast ADC, boundary scan module allowing access to 128C readout chip and step motor controller are the main parts of electronics. Software architecture is type client-server. Linux has been chosen as an OS and CERN package ROOT is also involved. Our test-station provides a framework for fully automated execution of measurements. It also incorporates versatile logging facilities based on sophisticated distributed database management system.