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EAST Real-Time VOD System Based on MDSplus

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As with EAST（Experimental Advanced Superconducting Tokamak）experimental data analyzed by more and more collaborator, the video from 2D camera which directly reflecting the spatially distributed phenomena in high-temperature plasma, attracts more and more researchers'attention. EAST now have four high-speed cameras and the image capture rate is very from 120 to 1000 frames per second. Archiving and retrieving the video is a challenge for repositories and network. The real-time VOD（Video On Demand）system based on MDSplus [1] allows users viewing the plasma discharge video through Web browser and analyzing the video frames by jScope in real time as same as the other signal data which is also stored in the MDSplus database. The system mainly includes the frames storage and video synthesis. The storage strategies of the camera data into MDSplus will be described to realize instantaneity. The video synthesis technology will be presented to retrieve frames from MDSplus and synthetic video to be displayed on demand. The system offers a uniform way to access the signal data and video during the EAST experiment, which is more convenient and faster than the formal VOD system [2] based on the traditional SQLServer database.

Minioral

Yes

Description

Video DAQ

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