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The Lustre file system at IHEP

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Lustre has been selected as the main distributed file system solution in IHEP for more then four years. The Lustre File System at IHEP is currently at a scale of 2.2 PB capacity, 50 OSSs and 500+ OSTs, running Lustre 1.8.6. The file system which was built on top of commodity disk arrays, servers and 10 Gbit Ethernet, provides 24 GB/s bandwidth for five high energy physics experiments.

The presentation will mainly report the status of the Lustre file system at IHEP.It includes three parts: 1) an overview of the Lustre File system at IHEP, including the deployment history, current configuration and real performance captured during production usage; 2) the I/O pattern of High energy physics computing, including the file size, the read/write extent size and offset size and performance optimization according to this pattern; 3) management experience abstracted from 4 years'production run.

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