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Comparison between CephFS, CFFS (Comtrade FastFS), HDFS (Apache Hadoop), GPFS (IBM Spectrum Scale), Lustre

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Different high-performance, high-available file systems can store big data (hundreds of PB) and provide high data throughput (hundreds of TB per second). Each of these solutions highlights its advantages, and it is challenging to compare them.

Based on 30 years of storage development experience, Comtrade provided test scenarios to compare these file systems. On the appropriate high-performance hardware, here are the results from January 2023 that helps companies to choose appropriate high-performance file systems that fulfil given requirements. The limitation of this comparison is limited only to performance, while other essential features, such as software maintenance and upgradeability, are not covered in this comparison.

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