

# HPE CLUSTERED EXTENTS FILE SYSTEM

## HPC Storage Software



### OVERVIEW

Do you require rapid access to shared data between multiple servers within a Linux® high-performance computing (HPC) cluster on a Storage Area Network (SAN)? The HPE Clustered Extents File System is designed to provide simultaneous, high speed shared access to data between clustered Linux servers connected to a SAN, where each server in the cluster has direct high-speed data channels to a shared set of disks. The servers share a single name-space within the cluster, so each server can see all files, and can access files at local to near-local speeds. HPE Clustered Extents File System can scale for bandwidth or I/O by adding additional storage or network connections and provide for high availability (HA) of data

within a design that detects and automatically recovers from server or network failure.

## FEATURES

### **High Performance File Sharing for Clustered Linux Systems**

With the HPE Clustered Extents File System no network mounts or file copying is involved. Multiple servers can have direct access to the same file at the same time at near local speeds.

Streamlined metadata management is designed for performance with sophisticated algorithms and structures for fast buffering and lookups.

Dedicated metadata servers can be utilized for increased performance.

### **Highly Scalable for Capacity or Bandwidth**

The HPE Clustered Extents File System as a 64-bit file system, is able to handle individual files up to 9 Exabytes, and as an overall file system with sizes up to 18 Exabytes.

Increases bandwidth by adding additional network connections for increased flexibility and increases storage capacity by seamlessly adding additional drives.

Dynamic allocation algorithms allow thousands of files to be stored with reduced disk resources.

Disk volumes can be allocated across thousands of disks to allow for future storage needs.

### **High Availability**

The HPE Clustered Extents File System detects and automatically recovers from a single system failure, including metadata server failure, as well as a network failure.

HPE Clustered Extents File System is a journaling file system, which logs changes not yet committed to the file system, provides for file system consistency and for rapid recovery in the event of an improper system shutdown.

Multiple backup metadata servers can be designated for failover on detection of a metadata server failure.



For additional technical information, available models and options, please reference the [QuickSpecs](#)

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**Defective Media Retention** is optional and allows you to retain Disk or eligible SSD/Flash Drives replaced by HPE due to malfunction.

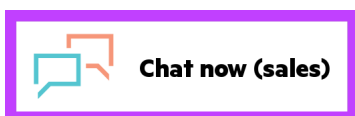
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