

VxFS Commands

SETTING UP A FILE SYSTEM

Action	Command Line
Make a VxFS file system	<code>mkfs -F vxfs [generic_options] [-o vxfs_options] char_device [size]</code>
Mount a file system	<code>mount -F vxfs [generic_options] [-o vxfs_options] block_device mount_point</code>
Unmount a file system	<code>umount mount_point</code>
Determine file system type	<code>fstyp [-v] block_device</code>
Report free blocks/inodes	<code>df -F vxfs [generic_options] [-o s] mount_point</code>
Check/repair a file system	<code>fsck -F vxfs [generic_options] [y Y] [n N] character_device</code>

ONLINE ADMINISTRATION

Action	Command Line
Resize a file system	<code>fasdm [-b newsize] [-r raw_device] mount_point</code>
Dump a file system	<code>vxdump [options] mount_point</code>
Restore a file system	<code>vxrestore [options] mount_point</code>
Create a snapshot file system	<code>mount -F vxfs -o snapof=source block_device,[snapsize=size] destination_block_device snap_mount_point</code>
Create a storage checkpoint	<code>fsckptadm [-nrv] create ckpt_name mount_point</code>
List storage checkpoints	<code>fsckptadm [-clv] list mount_point</code>
Remove a checkpoint	<code>fsckptadm [-sv] remove ckpt_name mount_point</code>
Mount a checkpoint	<code>mount -F vxfs -o ckpt=ckpt_name pseudo_device mount_point</code>
Unmount a checkpoint	<code>umount mount_point</code>
Change checkpoint attributes	<code>fsckptadm [-sv] set [nodata nomount remove] ckpt_name</code>
Upgrade the VxFS layout	<code>vxupgrade [-n new_version] [-r raw_device] mount_point</code>
Display layout version	<code>vxupgrade mount_point</code>

DEFRAGMENTING A FILE SYSTEM

Action	Command Line
Report on directory fragmentation	<code>fsadm -D mount_point</code>
Report on extent fragmentation	<code>fsadm -E [-l largesize] mount_point</code>
Defragment directories	<code>fsadm -d mount_point</code>
Defragment extents	<code>fsadm -e mount_point</code>
Reorganize a file system to support files > 2GB	<code>fsadm -o largefiles mount_point</code>

INTENT LOGGING, I/O TYPES, AND CACHE ADVISORIES

Action	Command Line
Change default logging behavior	<code>fsck -F vxfs [generic_options] -o delaylog tmplog nodatainlog blkclear block_device mount_point</code>
Change how VxFS handles buffered I/O operations	<code>mount -F vxfs [generic_options] -o mincache=closesync direct dsync unbuffered tmpcache block_device mount_point</code>
Change how VxFS handles I/O requests for files opened with O_SYNC and O_DSYNC	<code>mount -F vxfs [generic_options] -o convosync=closesync direct dsync unbuffered delay block_device mount_point</code>

QUICK I/O

Action	Command Line
Enable Quick I/O at mount	<code>mount -F vxfs -o qio mount_point</code>
Disable Quick I/O	<code>mount -F vxfs -o noqio mount_point</code>
Treat a file as a raw character device	<code>filename::cdev:vxfs:</code>
Create a Quick I/O file through a symbolic link	<code>qiomkfile [-h header_size] [-a] [-s size] [-e -r size] file</code>
Get Quick I/O statistics	<code>qiostat [-i interval] [-c count] [-l] [-r] file</code>
Enable cached QIO for all files in a file system	<code>vxtunefs -s -o qio_cache_enable=1 mnt_point</code>
Disable cached QIO for a file	<code>qioadmin -S filename=OFF mount_point</code>