

Filesystems and Volume Mangers.....

- bio hints
 - release
 - issued by FS when space is freed
 - indicates space is unreferenced and the device does not need to continue to track it
 - COW now (snapshot)
 - pre-allocate (COW) the range so that a subsequent write is guaranteed to succeed and not get an ENOSPC because the repository is ENOSPC
 - Don't COW (snapshot)
 - range of blocks that we never need to snapshot

Discussion Topics

- Why aren't people using DM-Multipath?
- power-of-2 chunk sizes
 - does not fit well with hw raid
 - need non-power-of-2 to allow proper alignment of filesystem on hw-raid
- Barriers
 - cache flushes now done by barriers