Linux Plumbers Conference 2019



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Filesystem atomic writes / O_ATOMIC

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seems like the patches proposed by Fusion-io devs for general O_ATOMIC support within Linux kernel are in stand-by since 6 years... – any plans to address it ?.. What is the main reason to not guarantee atomicy of O_DIRECT writes on flash drives? – seems like most of flash storage vendors are able to provide atomic writes support on HW level, and just SW level (kernel/FS/etc.) is missed.. The main benefit for MySQL/InnoDB is to get a rid of "double write" to protect from data corruption (partially written pages) – so, every page is written twice, increasing IO write traffic + doubling page write latency + reducing by half flash drive life expectation.

I agree to abide by the anti-harassment policy

Yes

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