



Contribution ID: 152

Type: **not specified**

## Supporting non-power of 2 zoned devices

*Wednesday, 14 September 2022 11:45 (25 minutes)*

The zone storage implementation in Linux, introduced in v4.10, first targeted SMR drives with a power of 2 (po2) zone size alignment requirement. The newer NAND-based zoned storage devices do not naturally align to po2, so the po2 requirement introduces a gap in each zone between its actual capacity and size. This talk explores the various efforts[1] that have been going on to allow non-power of 2 (npo2) zoned devices so that LBA gaps in each zone can be avoided. The main goal of this talk is to raise community awareness and get feedback from current/future adopters of zoned storage devices.

[1]<https://lore.kernel.org/linux-block/20220615101920.329421-1-p.raghav@samsung.com/>

### I agree to abide by the anti-harassment policy

Yes

**Primary authors:** Mr GONZALEZ, Javier (Samsung); CHAMBERLAIN, Luis (Samsung); RAGHAV, Pankaj

**Presenter:** RAGHAV, Pankaj

**Session Classification:** Zoned Storage Devices (SMR HDDs & ZNS SSDs) MC

**Track Classification:** LPC Microconference: Zoned Storage Devices (SMR HDDs & ZNS SSDs)  
MC