

NVMe Cancel Support

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NVMe Cancel Support

- Project goal
 - Add support for TP4097 to Linux Host/Target drivers
 - [Technical Proposal 4097a](#)
- For a full explanation of TP4097 see:
 - <https://www.youtube.com/watch?v=vRrAD1U0IRw>

Cancel Support V3 patches

- Latest Version 3 Patchset
 - [\[PATCH RFC v3 00/11\] Support for cancel command \(TP4097a\)](#)
 - Includes new patches which adds support for NVMe Cancel command to nvmet
 - New nvmet KConfig option: CONFIG_NVME_TARGET_DELAY_REQUESTS
 - Optionally compiles in support for command/delay tracking
 - Enables testing and debugging of command timeouts with nvmet
 - <https://github.com/johnmeneghini/linux/pull/4>

Future work

- Enhancements and WIP
 - Additional TP4097 features (invalid CID status, Abort SQE support)
 - Support for KATO Timeouts
 - Add support for FC & PCIe transports
 - develop blktests

Nvme Cancel Demo

- VM Demo
 - Set io_timeout to 6 seconds on host
 - Hang commands in nvmet
 - Timeout and Cancel commands on host
 - Cancel and return timed out commands in nvmet
 - Retry commands on host
 - Avoids Controller Resets on host.

- QUESTIONS