

# Linux Plumbers Conference 2024



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## Experiments with non-temporal writes and application architectures

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The kernel networking stack provides a mechanism for enabling non-temporal (NT) writes at the NIC level (via ethtool). This setting is useful, but it is device wide and there may be other places in the kernel where NT writes might be desirable by userland.

This talk will discuss how the existing mechanism works and describe a case for why more fine grained control of NT writes by userland might be desirable. Application architectures where this might apply and performance numbers from a microbenchmark as described in an RFC sent to the mailing list will be discussed and examined.

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