

# Get significantly better transactional database performance for less with value SAS and data center NVMe SSDs from Toshiba Memory

Value SAS and data center NVMe SSDs achieved better transactional database performance at a lower cost vs. enterprise SATA SSDs

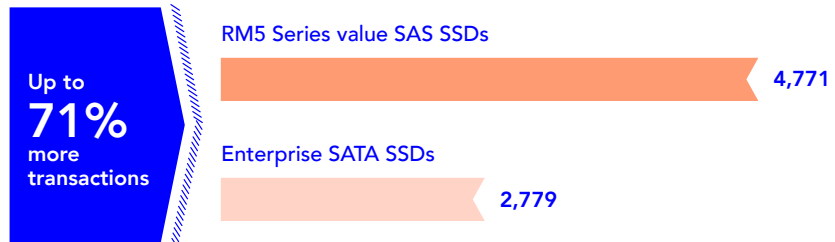
Dell EMC PowerEdge R740xd server running a transactional database workload

## Speed up your transactional database performance

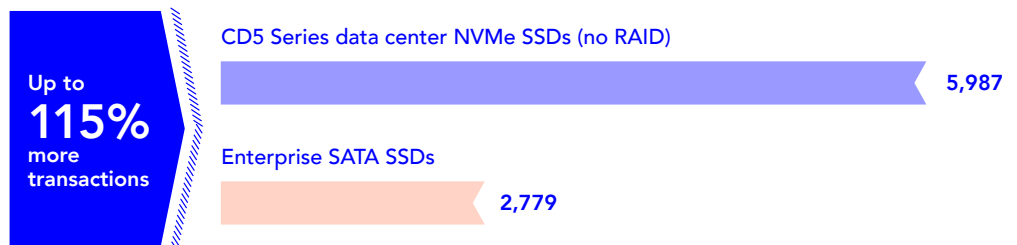


A Dell EMC™ PowerEdge™ R740xd server configured with RM5 Series value SAS SSDs boosted transactions per second by **71 percent** compared to the enterprise SATA SSDs we tested. CD5 Series data center NVMe™ SSDs delivered an increase of **115 percent** versus enterprise SATA SSDs.

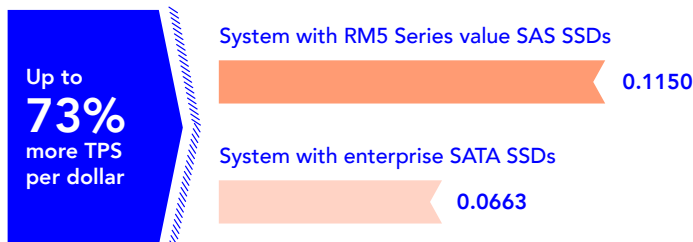
### Total transactions per second *higher is better*



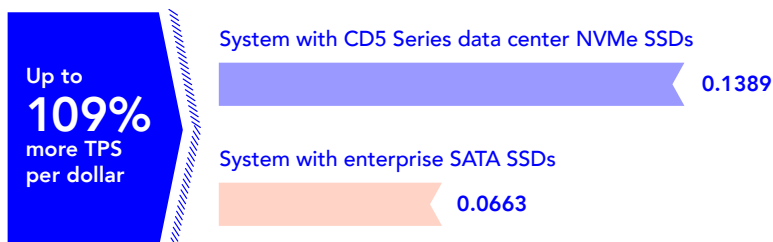
### Total transactions per second *higher is better*



### TPS per dollar *higher is better*



### TPS per dollar *higher is better*



## Get better performance for less

Value SAS and data center NVMe SSDs delivered, respectively, up to **73 percent** and **109 percent** better transactional database performance per dollar than the enterprise SATA SSDs we tested.



## RM5 Series value SAS and CD5 Series data center NVMe SSDs

Value SAS SSDs deliver a 12Gb/s connection,<sup>1</sup> and data center NVMe SSDs from Toshiba Memory push transfer speeds to 32 gigatransfers per second (GT/s).<sup>2</sup> SATA SSDs, by contrast, have had the same 6Gb/s transfer speeds since 2008.<sup>3</sup>

Learn more at <http://facts.pt/1l2fgw2>

- 1 Toshiba Memory, "Toshiba Memory America First to Deliver Value SAS SSDs Targeting SATA Applications," accessed March 22, 2019, <https://business.toshiba-memory.com/en-us/company/tma/news/2018/06/storage-20180619-1.html>.
- 2 Toshiba Memory, "Data Center SSD," accessed March 22, 2019, <https://business.toshiba-memory.com/en-emea/product/storage-products/da-ta-center-ssd/cd5.html>.
- 3 "New SATA Spec Will Double Data Transfer Speeds to 6 Gb/s," accessed April 5, 2019, [https://sata-io.org/system/files/member-downloads/SATA\\_6Gb\\_Phy\\_PR\\_Finalv2.pdf](https://sata-io.org/system/files/member-downloads/SATA_6Gb_Phy_PR_Finalv2.pdf).

