

Case study:

Fast Cache for Tape library

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ABOUT XINNOR



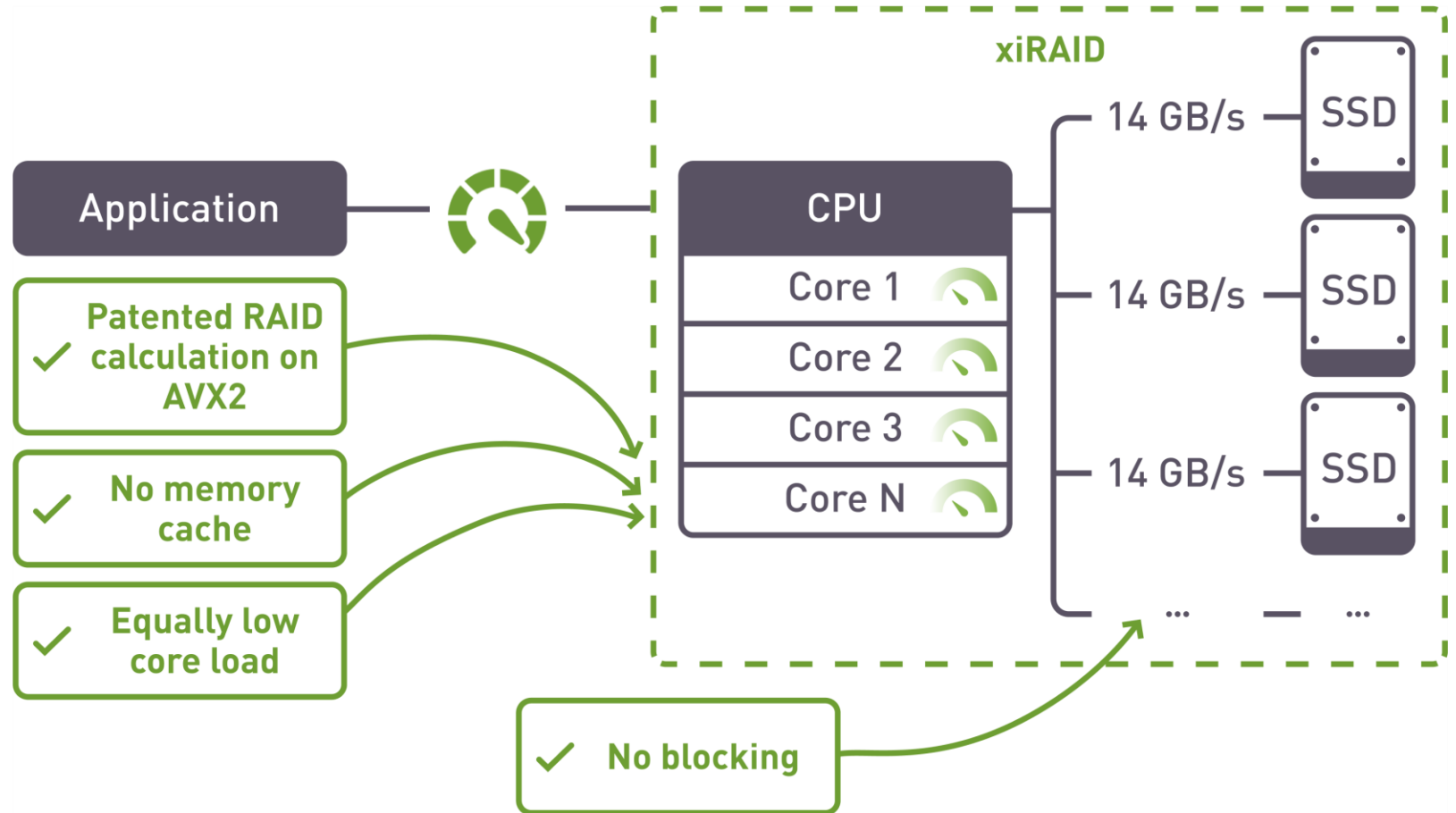
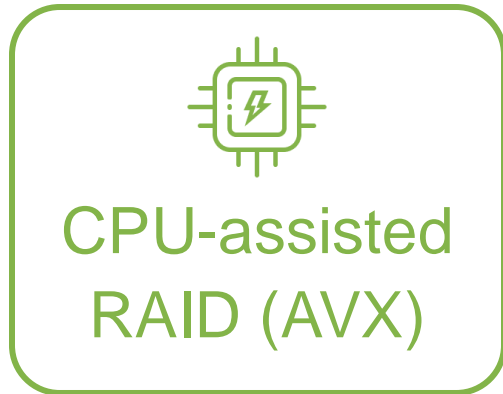
Most Innovative Flash Memory
Customer Implementation

- Founded in Haifa, Israel, May 2022
- Background: 10+ years of experience with software RAID
- Mission: to be the fastest RAID Engine
- Team: Around 50 people; >35 are accomplished mathematicians and industry talents from Global Storage OEMs
- >25 selling partners worldwide
- >100PB of end-customers data

Technology partners

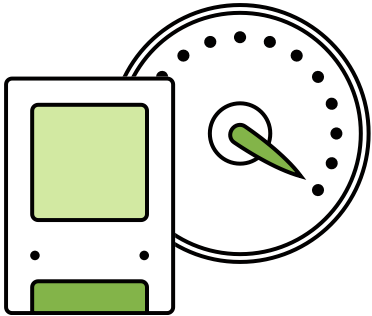


What we do: xiRAID Classic



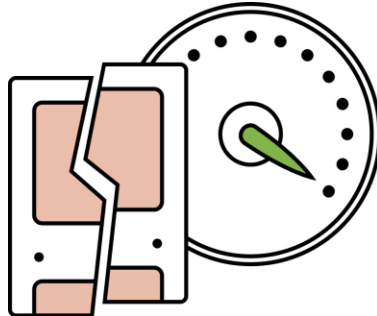
xiRAID key benefits

High performance in
normal operation



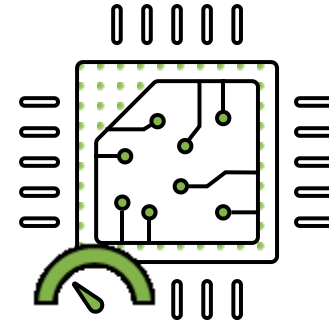
Superior
performance

High performance in
degraded mode



>10X performance
boost

Low CPU
consumption



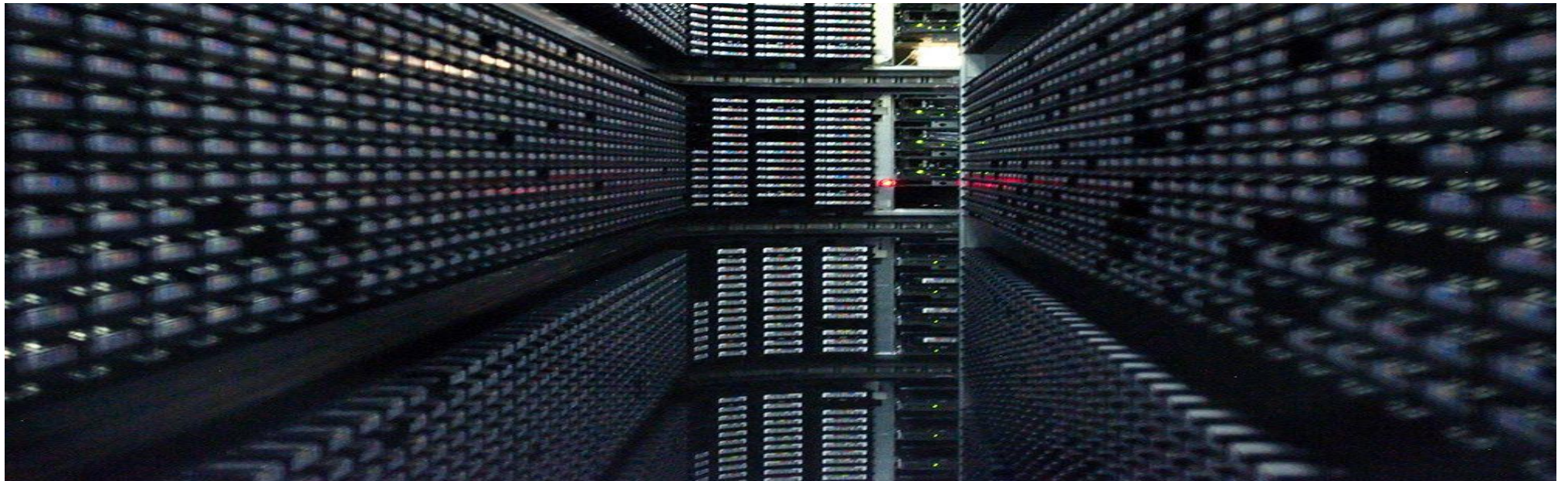
Only 2% CPU load
for checksum
calculation

High-performance Cache for Cold Storage

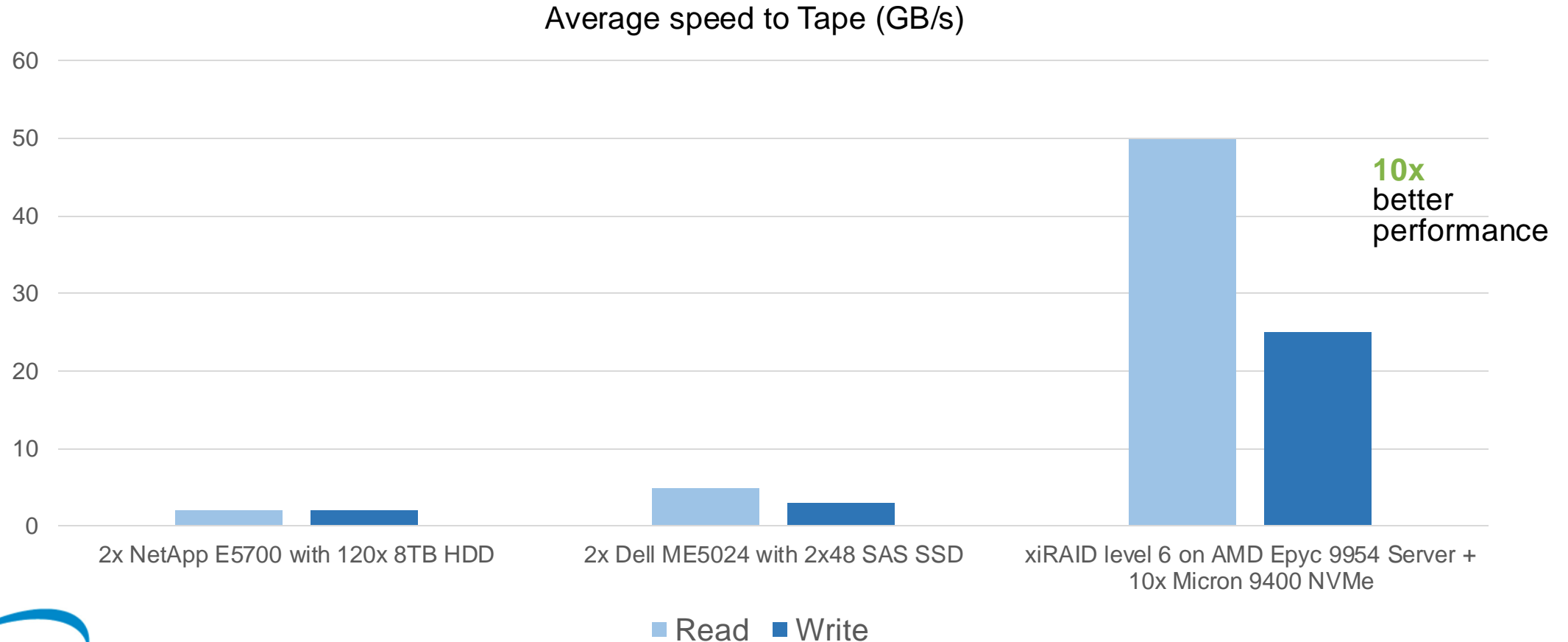
Karlsruhe Institute of Technology (KIT) was looking for a solution for a fast cache to manage 100PB tapes libraries to:

- aggregate writes into files of 300GB, to reduce the number of tape marks. Each write to tapes implies 2 reads and 1 write
- handle Full Aggregate Return (FAR) in reading, as the request for one file triggers the recall of a full aggregate. Each read implies 1 read and 1 write to the cache.

Tape drives expect constant streams above 380MB/s, generating high random write and read workload on the cache



High-performance Cache for Cold Storage



Details: <https://xinnor.io/partners-resellers/karlsruhe-institute-of-technology/>



Prove it yourself:
<https://xinnor.io/>

