



EMC FLASH STRATEGY

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VMware Integration

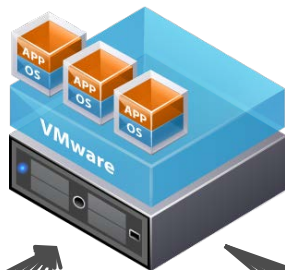
Full VAAI Support

- Easy-to-manage multi-TB volumes
- Accelerated formatting
- Enhanced copy services (VAAI + Data Reduction)



IN-MEMORY METADATA OPERATIONS

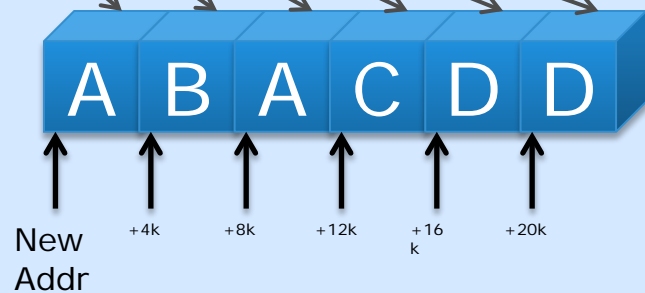
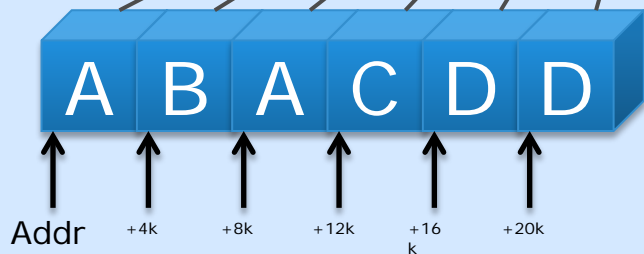
Full Copy w/o VAAI



Host reads/writes
every block

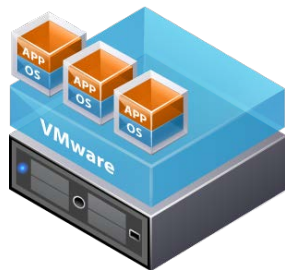
Read

Write



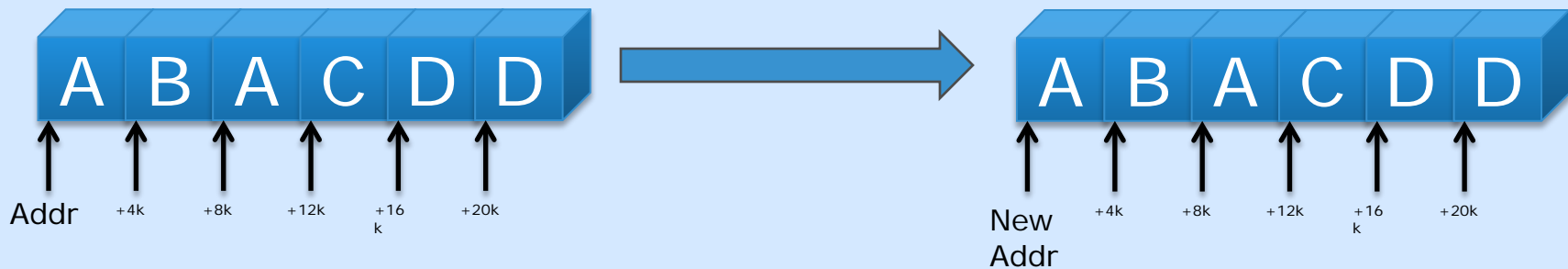
Storage Array

Full Copy with VAAI



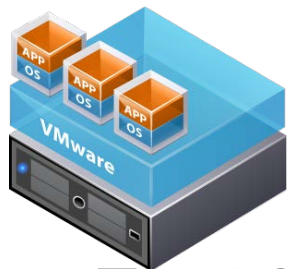
Array offloads the host

X-Copy command



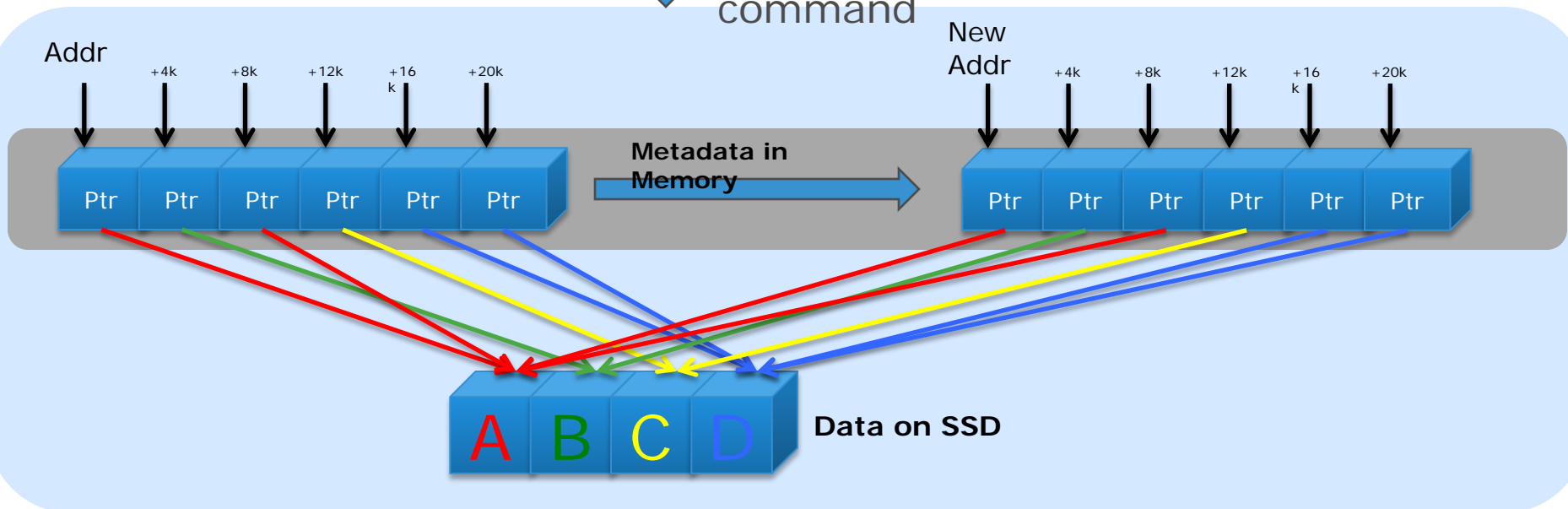
Storage Array

Full Copy on XtremIO



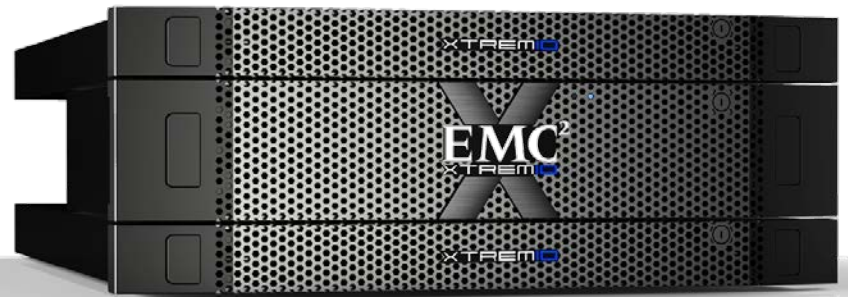
Free lunch!

X-Copy
command



XtremIO

RETHINKING CORE DESIGN CRITERIA



Software-Defined

Commercial Off The Shelf Hardware

Inherently Balanced

Linear Scale-Out Architecture

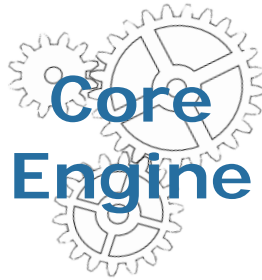
Flash-Optimized

"Always On" Data Services

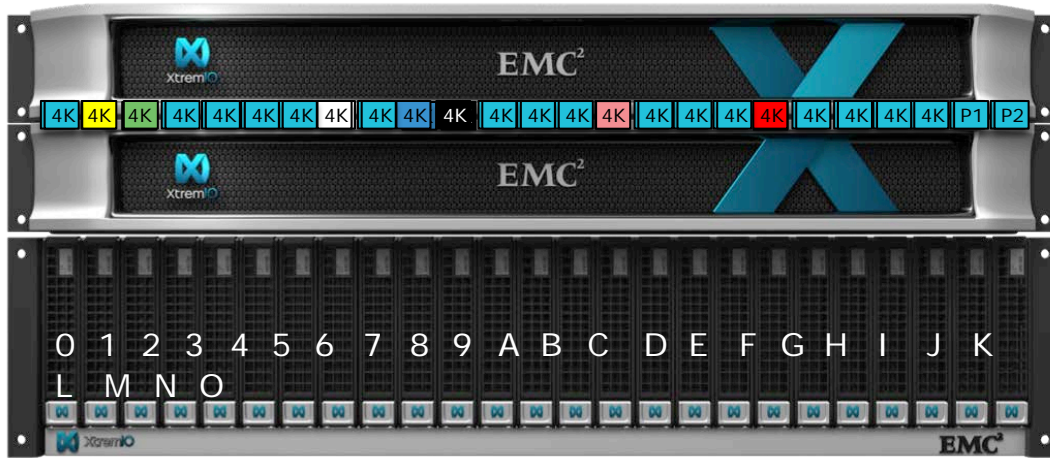
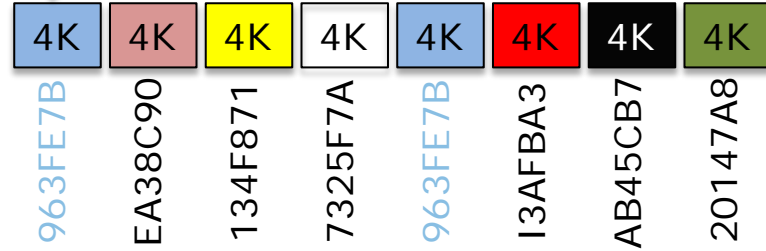
XtremIO Content Engine

Incoming Data Stream

32K



Deduplicate

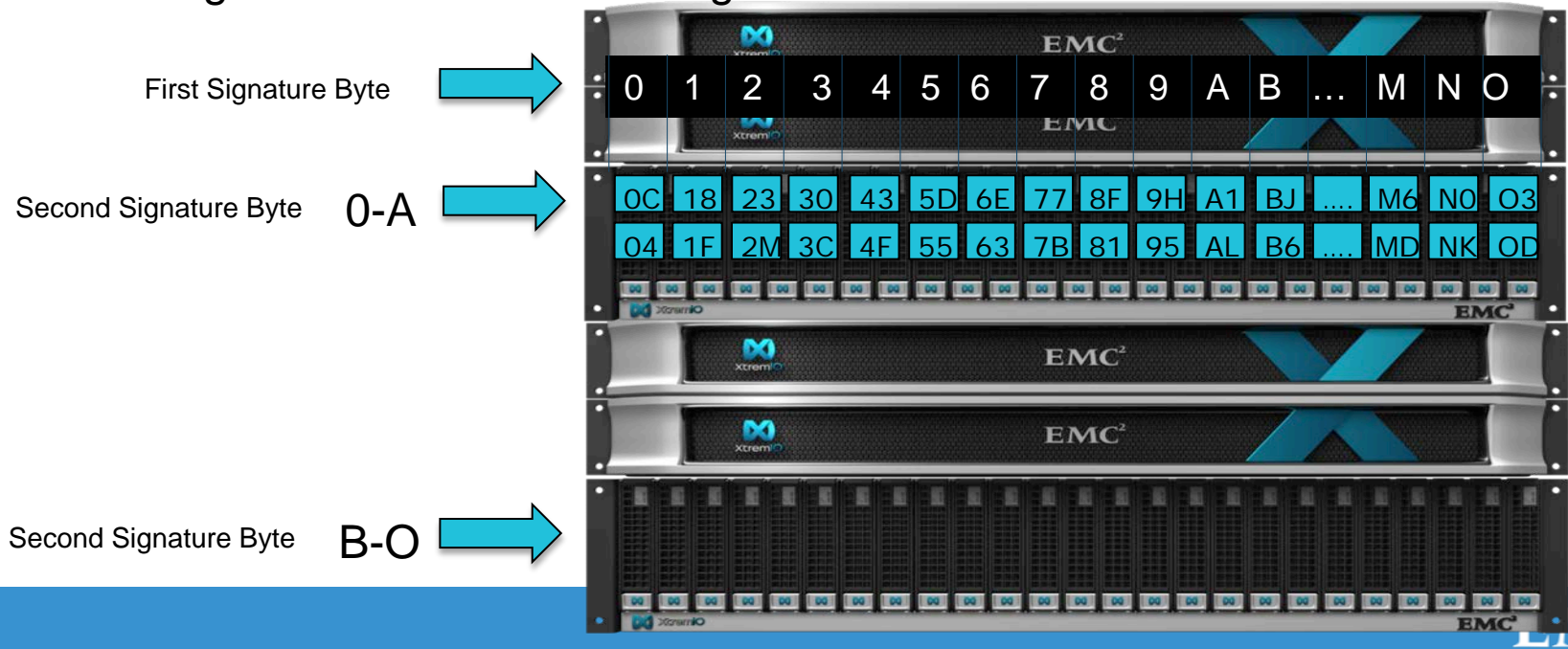


Scale-out Data Distribution

Performance is always maximized across all SSDs

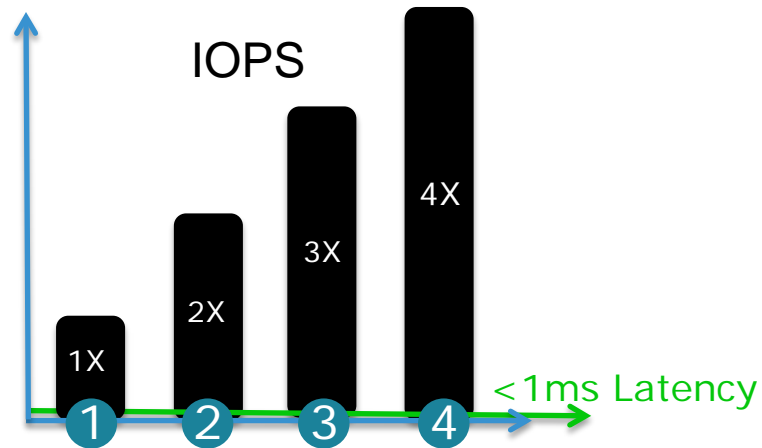
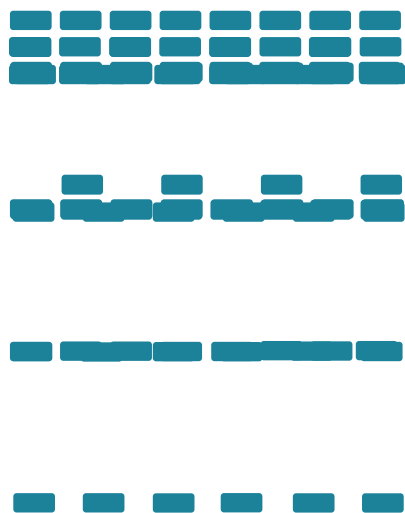
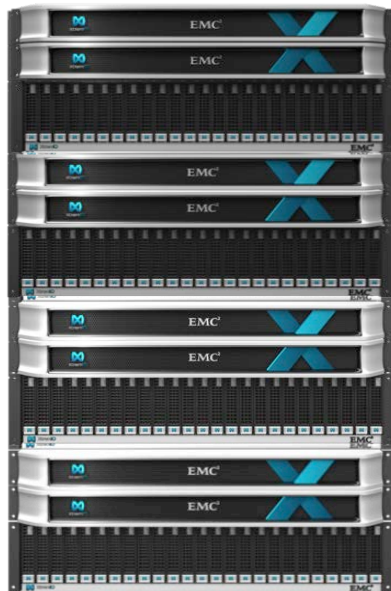
Nothing to administer

Maintains signature based addressing scheme



XtremIO Scale-Out

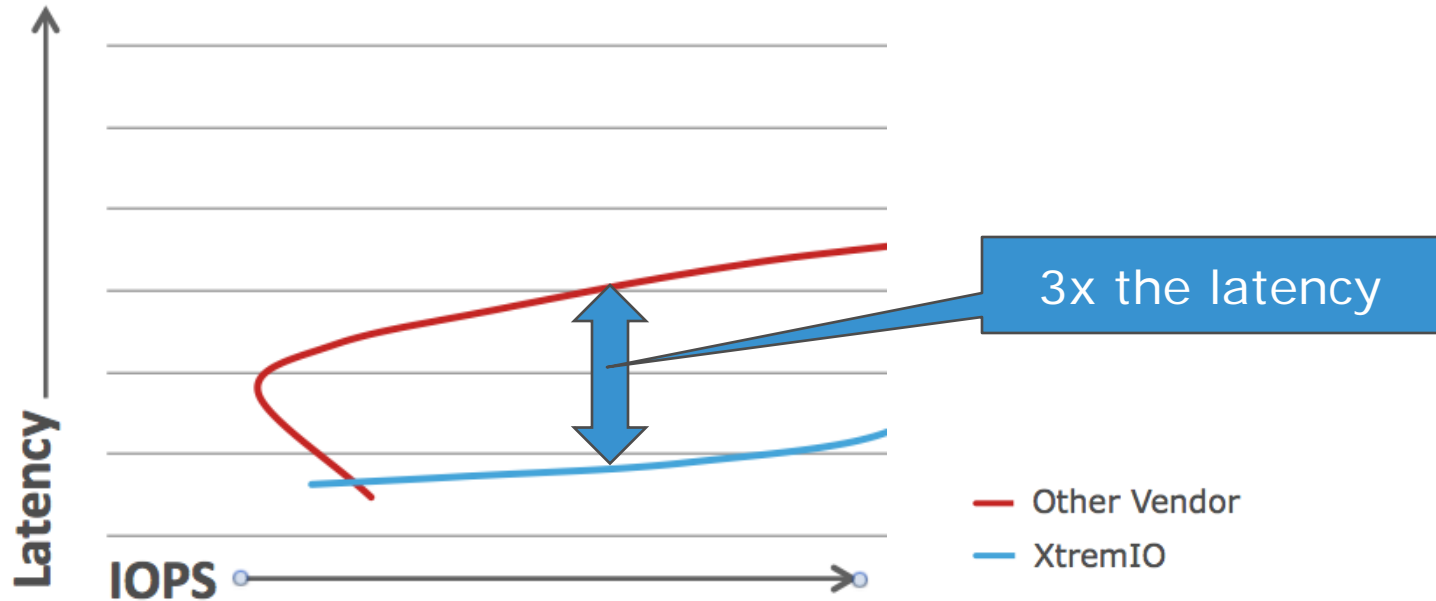
Achieve any performance or capacity level



Consistently Low Latency
Linear Performance Scalability

Flash Locking Effects

8KB 50% Writes / 50% Reads



EMC²®