



Hewlett Packard
Enterprise

HPE Persistent Memory

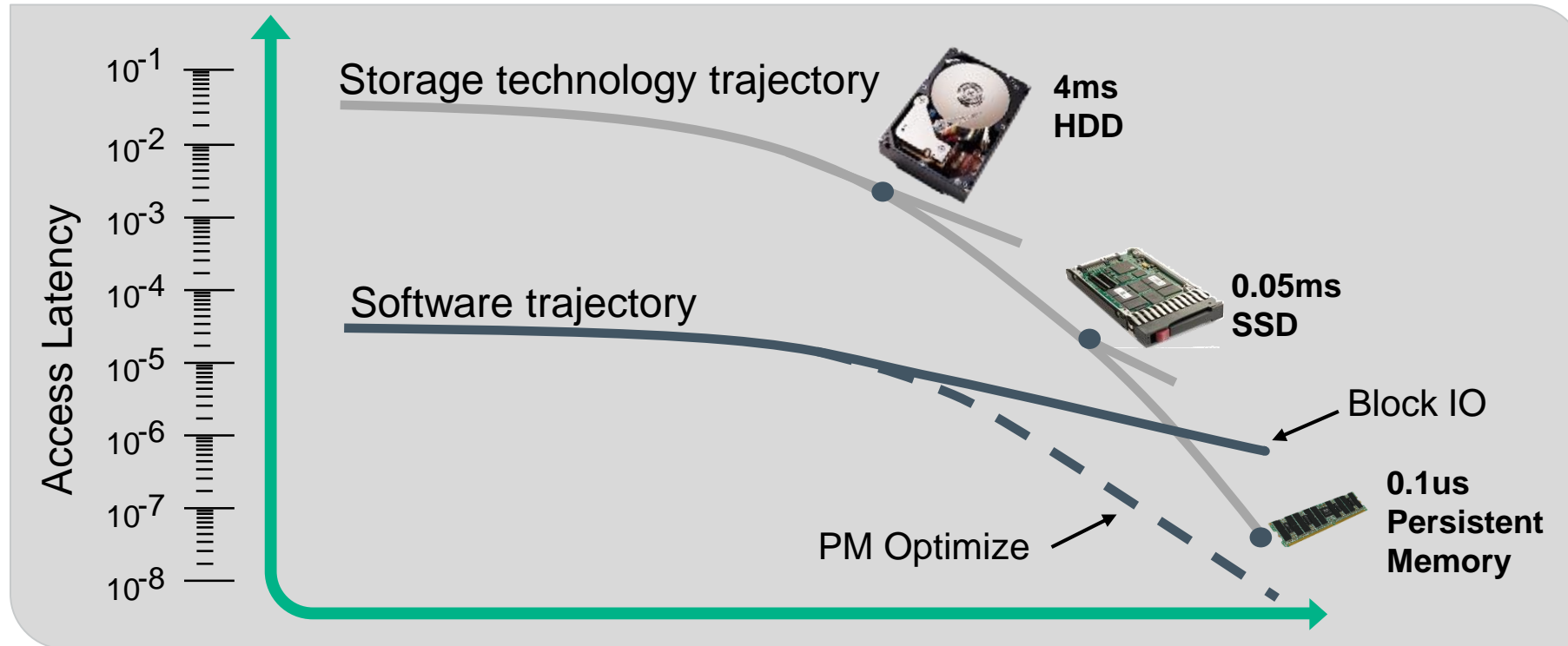
Name: Joe Foster

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What's all the Hoopla About?



Application Access Methods to Persistent Memory

Existing applications unchanged
– writes to special volume
specified for certain operations

Conventional I/O Access

Filesystem
APIs

Block I/O

OS Driver

(Block Device Emulation)

Indirect I/O Access

Applications partially changed -
source code re-written to use
new APIs for specific data

Abstract PM Access

DAX/
NVML
(Linux)

DAS
(Microsoft)

Middleware APIs

Indirect PM Access

Application source code
manipulates data structures
directly in Persistent Memory

Native PM Access

Object
Stores

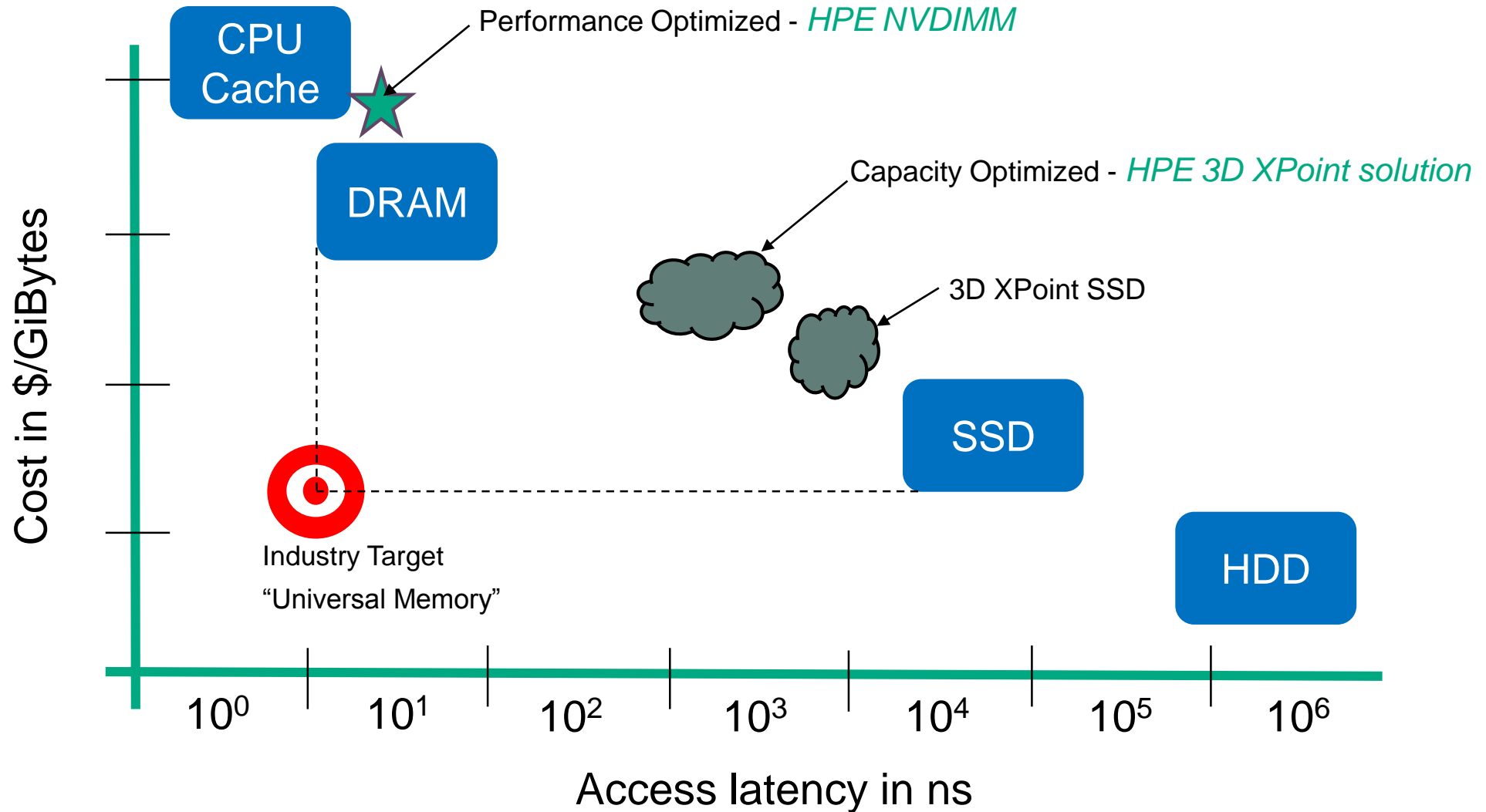
New
Apps

Data
Analytics

Standard Open Interfaces

Direct PM Access

Not all Persistent Memory is Created Equal



Additional HPE Collateral

HPE Persistent Memory Whiteboard video: https://www.youtube.com/watch?v=BKA_SOPqHfg

HPE Persistent Memory DLON 2015: <https://www.youtube.com/watch?v=vMrzXOBSeqA>

HPE Persistent Memory website: www.hpe.com/servers/persistentmemory

Until distribution releases are available, use the nvdimm kernel patches from

- <http://linux.hpe.com/nvdimm/>
- HPE Windows 2012 R2 driver in the works

Need answers now: bret.gibbs@hpe.com