An OBJective Competition

A Quick Look at File vs. OBJ Performance

And our broad portfolio from core to cloud

#1

NAS[1]
Storage Software[2]
Unstructured Storage[1]
Hyperconverged Systems[3]
All-Flash and Hybrid Flash Arrays[1]
External Enterprise Storage Systems (Entry, Midrange and High-end)[1]
Data Replication & Protection Software[4]
Data Protection Appliance & Software[5]
Purpose-Built Backup Appliance[6]
Converged Systems[3]

Data Protection & Cyber Recovery

PowerProtect DD Series Appliances
PowerProtect Data Manager
Data Protection Suite

Modern Storage

PowerMax
PowerStore
Unity XT
PowerVault
PowerFlex

PowerScale
ECS
Streaming Data Platform

Hyperconverged & Converged Infrastructure

VxRail
PowerFlex
Azure Stack family
vSAN Ready Node
VxBlock

Worldwide rankings, Q2CY21

[1] IDC WW Quarterly Enterprise Storage Systems Tracker, 2021Q2, September 9, 2021, Vendor Revenue
[2] IDC WW Quarterly Storage Software & Cloud Services QView, 2021Q2, September 9, 2021, Vendor Revenue
[3] IDC WW Quarterly Converged Systems Tracker, 2021Q2, September 16, 2021, Vendor Revenue
[4] IDC 1Q21 Storage Software and Cloud Services Qview
[5] Based on combined revenue from the IDC 1Q21 Purpose-Built Backup Appliance (PBBA) Tracker, with select Storage Software segments from the 1Q21 Storage Software and Cloud Services Qview
[6] IDC WW Quarterly Purpose-Built Backup Appliance Tracker, 2021Q2, September 9, 2021, Vendor Revenue
Note: Unstructured Storage includes object-based storage (excluding HCI) and Scale-Out NAS (excluding HCI) combined

APEX

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Dell Technologies' ECS and PowerScale

ECS – Object Store

- Industry leading Object storage appliance
- Native OBJ store, not SW defined
- Integrated geo replication
- Highly scalable

PowerScale – File Store

- All Flash or all disc options for tiering and optimal spend
- Multi-protocol in and out
- Multi Tenancy and extreme concurrency

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The Curiosity

Is OBJ faster than File?

The Test

Resnet-50

- Easy to setup for both File and OBJ
- Provides a heavy load for storage

The Eq.

All-Flash ECS vs.
All-Flash PowerScale

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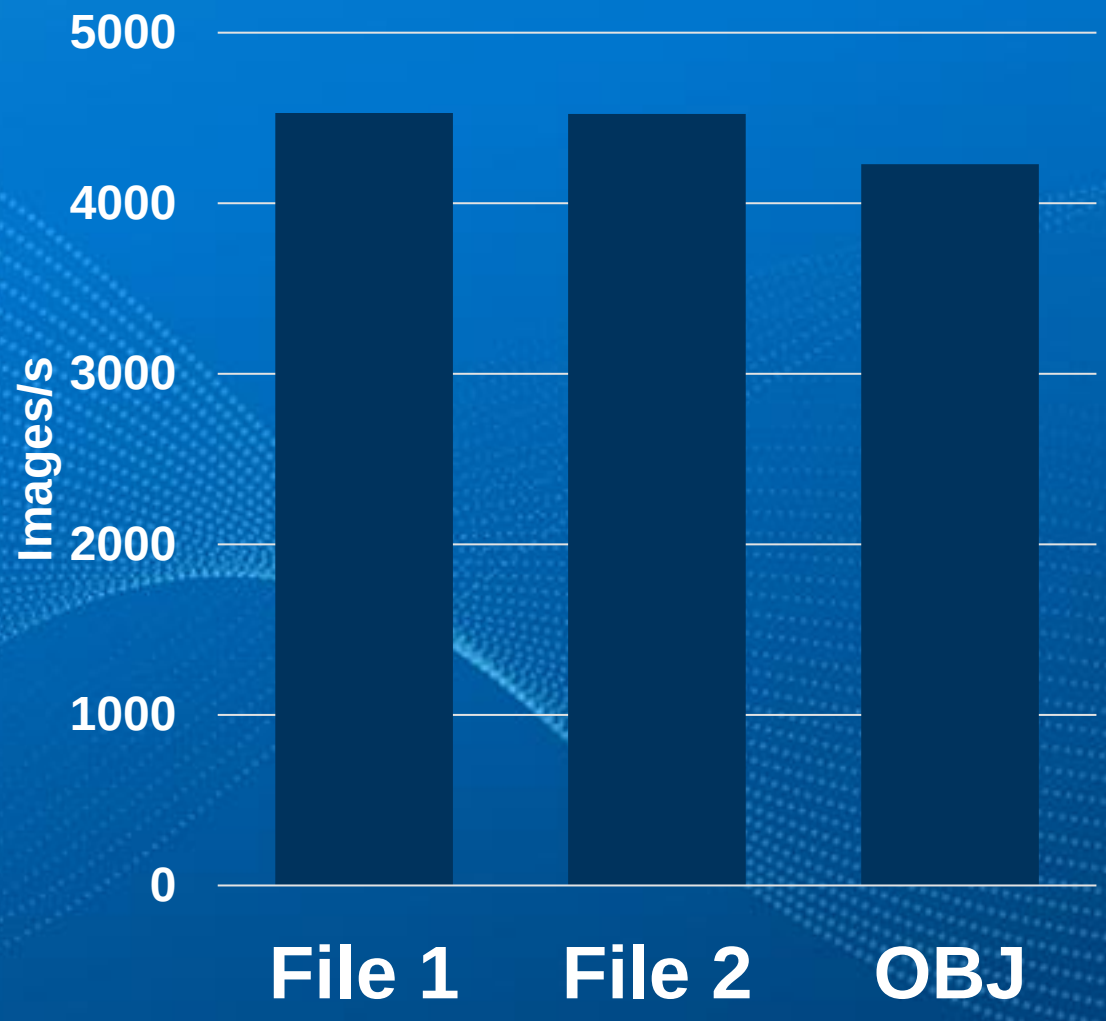
The Results

For the same single node testing, OBJ performed admirably and was within a few % pts of the File systems performance



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* File and Object systems used all flash disk models
* Not STAC Benchmarks

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