

Applications Run Faster & Perform More Consistently on our Storage!

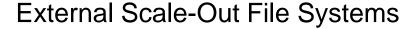
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www.pavilion.io

WHY We Exist - Applications Run Faster on Pavilion...

Databases (SQL or NoSQL)



Lustre

































AI & Machine Learning

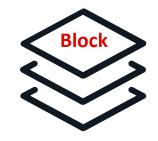




What We Deliver – Predictable and Consistent Performance and Scale

Single Storage Platform Unit = 4 RU up to 2.2PB

Flexibility to support multiple STORAGE types on a single platform



20M IOPS Read
5M IOPS Write
100 μs Read Latency
25 μs Write Latency
120 GB/s Read
90 GB/s Write





Shared Global Namespace

78 GB/s Read 52 GB/s Read 56 GB/s Write 28 GB/s Write

File and Object **Shared Global Namespace** can be clustered with multiple systems to linearly scale performance and capacity

Not just high performance READ but also high performance WRITE!



WOW the Results







2x+ the Queries per Second (QPS) and
7x+ the Transactions per Second (TPS) at
<50% the Latency

1.8x the Queries per Second (QPS) and 6x the Transactions per Second (TPS) at <60% the Latency</p>



1.5x the Queries per Second (QPS) and67% the Latency

1.13x the Queries per Second (QPS) and89% the Latency



2.3x the Transaction per Minute (TPM) and2.3x the Operations per Minute (NOPM)

2x the Transaction per Minute (TPM) and 1.3x the Operations per Minute (NOPM)



1.10x the Documents / Second
1.47x the Operations / Second

1x the Documents / Second
.47x Operations / Second



1.14x the Operations / Second77% the Read Latency76% the Update Latency

1.06x the Operations / Second
94% the Read Latency
101% the Update Latency



< 200 µsec Latency for Reads & Write

Similar or Same
Performance as Bare Metal

How do we do it?

Thank you!

Not 2 controllers – 20 controllers

Not $\frac{4}{32}$ Gb FC or $\frac{50}{6}$ GbE $-\frac{40}{100}$ x $\frac{100}{6}$ GbE/EDR

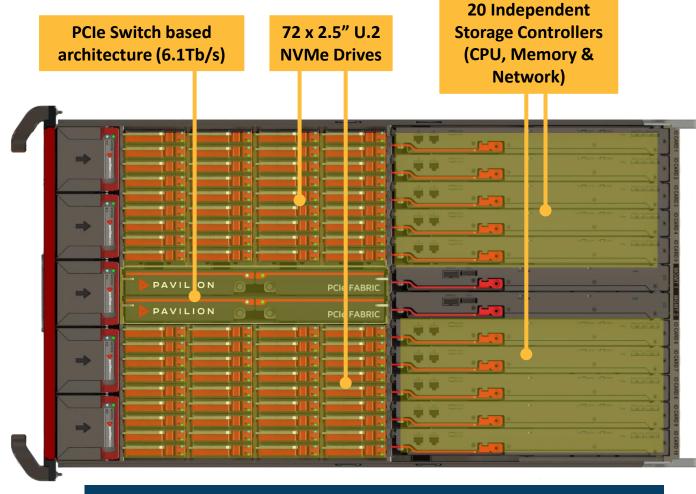
Not just BLOCK but also FILE & OBJECT

Not RACKS of equipment but 4 Rack Units



4RU Chassis

40 x 100 GbE/EDR or 10 x 200 HDR InfiniBand ports



Unrivaled Performance Density





Thank You!