The biggest benefit with DataCore is not being locked into a single vendor for storage. This gives us the flexibility to purchase what we need — high performance SSD or low cost archival storage at affordable prices.

– Ryan Tetzlaff, IT Manager, Open Systems International Inc.

Learn about hands-free data migration from premium to lower cost storage as it cools.

AS STORAGE CONSUMPTION INCREASES EXPONENTIALLY

Stop Throwing Money Away on Cold, Dormant Data

ON AVERAGE IN 2016 organizations managed 1.45 PB of data

ON AVERAGE IN 2018 organizations managed 9.7 PB of data

1.45 PB of data

9.7 PB of data

That is a growth of 569%

With all of this data, it’s important to consider how data temperature is driving data placement decisions — and ultimately, overall storage costs.

Value of Data

Time

The most frequently accessed records appear hotter (higher in the chart) mostly at the left edge. The temperature slopes off quickly at about 20% — which means that only about 20% of the data in this storage pool is actively being read, written or updated.

That means 80% is mostly cold, idle data

Not only is most of your data cold and idle, it is sitting on expensive storage for a long time because no one has the time to move it elsewhere.

Below is the relative proportion of data in a typical data center:

VOLUME OF DATA

AGE OF DATA

HOT DATA

WARM DATA

COLD DATA

FROZEN DATA

Where should you put hot, warm and cold data?

DATA PLACEMENT DECISIONS

Match your storage spending to the type and time value of data:

To keep costs down, place data on the class of storage most appropriate for its value. All Flash Arrays (AFAs) cater to red-hot data, hybrid arrays target some compromise, with high capacity/low-cost HDD arrays covering the colder range. Similar categories are available on-premises and in the cloud.

$2,000

$1,500

$1,000

$500

$0

SSD Array

Hybrid Array

HDD Array

The price per TB of each data tier drops off accordingly.

That is a growth of 569%

SELDOM COLD

MODERATE WARM

HIGH HOT

FREQUENCY OF USE

IMPORTANTLY - Data Temperature Changes QUICKLY!

Today’s hot data is tomorrow’s cold data.

THE SOLUTION

DataCore lets you use diversity to your advantage. How? Only DataCore can effectively pool and auto-tier unlike storage arrays from different manufacturers!

START SAVING MONEY WITH AUTO-TIERING:

Automatically provides the most demanding workloads with fastest tier of storage

Increases application performance while contributing to total usable storage capacity

Works with existing storage hardware and future storage technologies

You define which disks make up each tier (e.g., high performance, mid-range, low cost)

Access frequency determines which disk blocks should be moved into each tier

Monitor tiering effectiveness through real-time heat maps

Override automatic migration for special circumstances

Modify the ratio of Flash to spinning disk as needed non-disruptively


Learn more about DataCore from our YouTube channel.