

Investment Firm Doubles Oracle Performance and Eliminates User Complaints with DymaxIO

A DYMAXIO CASE STUDY

CHALLENGES

- Users unable to access applications and complaints related to slow performance.
- Oracle database job running too long.
- Excessive RAM required for key Bloomberg Anywhere app.
- Sluggish Exchange
- Limited IT staff of 2.

RESULTS SNAPSHOT



2X
ORACLE
DATABASE SPEED



22 DAYS
STORAGE I/O
TIME SAVED



90%
REDUCTION IN DRIVE
FAILURES

ENVIRONMENT

- Key applications – Oracle Enterprise Edition, Bloomberg Anywhere, Exchange
- Servers – Dell PowerEdge R740 and R640
- Operating System – Windows Servers 2016 and 2019, Windows 10 and 11
- Hypervisor – VMware ESXi 7.3, 4 Hosts and 2 clusters
- Storage – Nimble HP Hybrid HF40

AT A GLANCE

When the shift to remote work caused sluggish Oracle database performance and user complaints with the Bloomberg Anywhere application, the investment firm needed a solution. By deploying DymaxIO® on their Windows VMs running on their VMware ESXi hosts, they doubled Oracle processing speed, eliminated user complaints, and optimized performance – all without adding hardware or increasing RAM.

“We doubled our data processing speed. After installing DymaxIO, the time to run our Oracle warehouse job dropped from 4 minutes to 2. This dramatically enhanced operations.”
— *Manager of Business Systems*

THE CUSTOMER

The customer is an investment firm with a long-standing reputation for integrity and thoughtful investment practices. It manages a global investment portfolio through a small, agile team and operates with a strong commitment to core values such as integrity, transparency, agility, and accountability.

THE CHALLENGES

The investment firm encountered two major performance hurdles:

- **Oracle Database Slowness:** Data warehouse jobs slowed significantly, delaying data processing and impacting business operations.
- **Bloomberg Anywhere Access Issues:** When users transitioned to remote work, they complained of experiencing frequent login failures via Horizon VMs. The critical Bloomberg Anywhere application, known for its high RAM usage – up to 32 GB per VM – threatened to exceed the capacity of the existing VMware ESXi Hosts, which would have required time-consuming and costly infrastructure upgrades.

DYMAXIO BENEFITS

- Faster performance for Windows Servers, desktops, and laptops
- Better application performance
- Fast SQL and database performance
- Fast data transfer rates
- Increased throughput and reduced latency
- Fast file reads and writes
- Optimal performance from your storage, HDDs and SSDs
- More reliable Windows Servers, desktops, and laptops
- Reduced timeouts, crashes, freezes, hangs
- Reduced file corruption and data loss
- Reduced “phantom” IT issues
- Reduced user support calls
- Extended hardware lifecycle
- Increased VM Density
- Faster backups allowing backups to complete in named window’s timeframe
- Reduced network traffic, increasing your network bandwidth for other work
- Reduced cloud compute costs
- Overall increased system and network-wide efficiency due to increased performance, reliability, longevity, and energy conservation
- True “Set It and Forget It”® management
- Compatible with all SAN/NAS and hyperconverged systems
- Deploys to hundreds or thousands of servers with just a few clicks – no reboot required
- “Time saved” reporting dashboard to validate benefits
- Enterprise-wide visibility into I/O performance health from the operating system to storage

THE CHALLENGES (CONTINUED)



With a lean IT team of two, they needed a cost-effective, low-maintenance solution that would deliver enterprise-grade performance gains without a hardware overhaul.

“Instead of increasing RAM again, I installed DymaxIO and all performance problems disappeared. We stayed at 12 GB per VM instead of 32 and **avoided new hardware purchases.**”

— *Technology Analyst*

THE SOLUTION



The customer deployed DymaxIO across all VMs on their four VMware ESXi hosts. DymaxIO is “set and forget” software that optimizes Windows I/O at the OS level with near-zero overhead. It:

- **Prevents split I/Os** via IntelliWrite®, converting random traffic into large, sequential writes.
- Uses IntelliMemory® to **dynamically cache reads** in idle DRAM, accelerating performance without the need for dedicated memory.

By streamlining I/O traffic and offloading unnecessary reads and writes from storage, DymaxIO frees up bandwidth and significantly improves response times. Most customers experience at least **50% faster system performance**, and often much more. The results were immediate and measurable.

“A large share of I/O is no longer hitting storage. By replacing small, random I/Os with larger, sequential ones, the systems now work more efficiently and complete tasks faster. By eliminating 42% of Reads and Writes, **more work gets done in less time.**”

— *Howard Butler, Conduktiv Engineer*

DYMAXIO FEATURES

- IntelliWrite® enhances system performance by automatically preventing split I/Os at the source, in the logical disk layer inside the Windows OS before being written to disk. It replaces hard-to-process random I/O, with sequential I/O, eliminating the I/O Blender effect.
- IntelliMemory® utilizes intelligent caching algorithms to create a read-only cache, using only the idle, available free memory on the server.
- “Time Saved” Benefits Dashboard shows ongoing benefit of the software by displaying the amount of I/O offloaded from storage and the corresponding time saved.
- Set-It-and-Forget-It® feature ensures that DymaxIO is nondisruptive, operating seamlessly in the background, and optimizing I/O generated by the Windows OS in real-time without requiring a reboot for installations or upgrades.

Download a 30-day evaluation »

ConduSiv Technologies

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THE RESULTS



The deployment delivered measurable and immediate results:

- **Oracle job runtimes dropped from 4 minutes to 2 minutes**, doubling performance.
- **Exchange performance** slowness completely disappeared.
- **User complaints disappeared** despite maintaining lower VM memory allocations (~12–24 GB instead of 32 GB).
- **No additional RAM or hosts were needed**, preserving their infrastructure and budget.

From their 31 servers, DymaxIO offloaded over 804 million I/Os in just 30 days, **saving 22 days of storage processing time**, including:

- 484 million read I/Os eliminated
- 320 million write I/Os eliminated
- 54% of reads and 44% of writes offloaded from storage

“It’s not just hardware savings—it’s VMware licenses, SAN connections, and power charges. DymaxIO helped us avoid all of that.”

— *Manager of Business Systems*

“It’s always better to have a user base that’s happy with performance. In that regard, DymaxIO has helped us look good and provide great service.”

— *Manager of Business Systems*

THE CONCLUSION



For a two-person IT team, every minute counts.

“With just two IT staff, we don’t have time for constant tuning. A ‘set it and forget it’ solution like DymaxIO is a welcome relief.”

— *Manager of Business Systems*

By deploying DymaxIO, the investment firm’s lean IT team achieved faster performance, reduced costs, and made happier users—all with software that just works.