

BigMemory

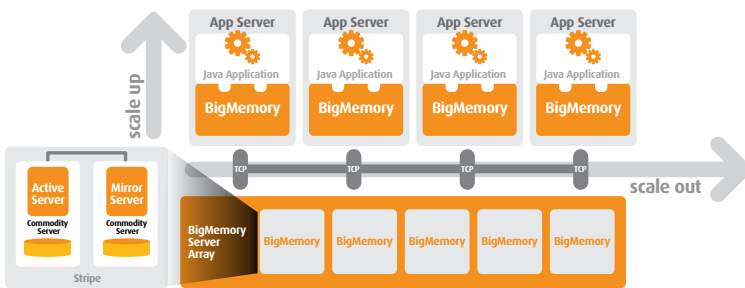
The in-memory solution for real-time Big Data

BigMemory delivers ultra-fast access to hundreds of terabytes of in-memory data. Nothing else goes this big and this fast. BigMemory snaps into enterprise applications to deliver unmatched performance at any scale. **Start using it free!**

BigMemory MAX

Easily manage distributed in-memory data for real-time Big Data applications

- Enjoy predictable, low latency with ultra-high availability
- Get going quickly with as few as two lines of config
- Make garbage collection pauses a thing of the past without expensive tuning



BigMemory Max:
Scale The Most
Demanding Real-Time
Big Data Apps With
Distributed In-Memory
Data Management

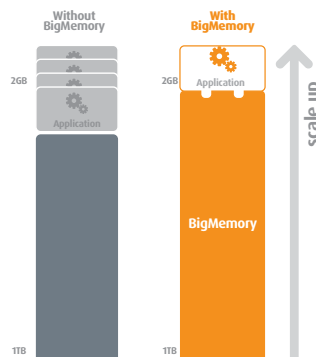
CAPABILITIES:

- **Automatic Resource Control™** moves data where it's needed—without programming or tuning—for lowest possible latency
- **Full fault-tolerance and Fast Restartable Store™** technology delivers 99.999% uptime ^(NEW)
- **Hadoop Readiness** speeds the exchange of data between BigMemory and Hadoop for real-time intelligence ^(NEW)
- **10-100x more data** on a single server (versus classic P2P in-memory grids like Oracle Coherence) delivers cost-effective scaling
- **Terracotta Management Console™** gives you a customizable Web dashboard for advanced monitoring and control of in-memory datasets ^(NEW)
- **Ehcache interface** (Java's de facto get/put API) means no need to rip up code
- **Faster search** of distributed in-memory data ^(NEW)
- **Configurable consistency** keeps data in synch across your array
- **Java 7 compatible**

BigMemory GO

On a standalone JVM, turbocharge your app by giving it ALL the RAM in the box

- Use the entire in-memory capacity of a single machine without garbage collection pauses
- Enjoy the same predictable, low latency at scale delivered by BigMemory Max
- Comes with 32GB of ultra-fast in-memory capacity per application



DOWNLOAD FREE
terracotta.org

Why In-Memory?

- It's very, very fast: microsecond latency at TB scale, or up to 1000x faster than disk-bound, networked stores
- It's cheap: RAM costs have plummeted
- It's abundant: servers with 100+GB of RAM are now common, and TBs are available

Why Big?

- Your data volumes continue to grow
- Your apps need to access, process, and analyze Big Data much faster
- You're on the hook to deliver Big Data results

Why BigMemory?

- Unlock new revenue streams and overtake competition
- Use as much RAM as you can pack into your data center—100s of TB or more—without tuning or proprietary hardware
- Meet business demands for speed, accuracy, and availability

Enterprises use Terracotta BigMemory to:

- Detect fraud in real-time during a credit card swipe
- Stream media content to 1,000s of concurrent viewers
- Speed up online travel bookings
- Ensure real-time gameplay for multiplayer online games
- Boost customer service transaction throughput by orders of magnitude

Why BigMemory is a Big Deal

Game-Changing Innovation for Every Industry

Before BigMemory, many software architects wouldn't even THINK about putting more than a few GBs of data in RAM for fear of garbage collection pauses. BigMemory stores data off the Java heap, meaning you can max out the largest servers on the market. Capacity is unlimited. Scale up, scale out—even scale to the cloud—while achieving lightning-fast access to Big Data.

Companies large and small have turned to BigMemory to accelerate Big Data initiatives. Here are just a few examples of how BigMemory is creating opportunities for market leaders in a wide range of industries.



FINANCIAL SERVICES

A Fortune 500 global financial services firm slashed its fraud detection time from 45 minutes to mere seconds, generating tens of millions of dollars in annual profit.

- Accelerate the processing of trade orders, credit card authorizations and other high-volume transactions
- Speed up large-scale data analysis for risk management, asset management or real-time fraud detection
- Share Hadoop insights in real time throughout the firm
- Provide fast, reliable access to aggregated account data on customer portals



ENTERTAINMENT AND MEDIA

A U.S. cable operator guarantees seamless TV viewing on the iPad with real-time user authentication.

- Scale Web services to millions of concurrent users/viewers
- Display dynamic or aggregated data blazingly fast
- Ensure consistently superior user experience
- Reduce hardware costs



TRAVEL, TRANSPORT AND LOGISTICS

Europe's leading hotel portal reduced database use by more than 50%, ensuring speedier online reservations and happier customers.

- Slash the time it takes to book and ticket travel and other high-value services
- Instantly display dynamic data such as weather, delivery status, arrival time and traffic updates to enhance the value of customer portals and consumer electronics



LOYALTY AND MARKETING SERVICES

A top provider of global loyalty programs added six new global retail chains as customers thanks to BigMemory-powered POS system that slashed response times by 83% over traditional disk-bound databases.

- Quickly deliver custom marketing and loyalty data to customers whenever they want it
- Slash processing times for loyalty point transactions
- Share deep marketing intelligence more quickly by connecting BigMemory to Hadoop



ECOMMERCE

A Fortune 500 lifestyle brand cut page load time on its ecommerce site by 16% and search time by 30%, all while reducing load on core backend services by 40%.

- Scale to millions of global online shoppers across multiple devices
- Improve success of cross-selling by integrating BigMemory with Hadoop
- Speed shopping cart and checkout processes by keeping entire product catalogs in memory



TELECOMMUNICATIONS

A major broadband carrier slashed processing time for customer service transactions by 99%, making it possible to scale to millions of online customers.

- Speed up billing, subscriber provisioning and other high-volume transactions
- Improve call center efficiency with faster access to account data
- Expand subscriber self-service offerings with scalable online applications
- Implement a scalable, ultra-fast solution for network management



GOVERNMENT

A U.S. Government agency can now meet internal SLAs for three applications in two data centers.

- Improve the performance and scalability of mission-critical applications
- Support real-time data analysis and high-velocity data processing
- Deliver Web services scalable to millions of users
- Comply with mandated SLAs

Contact us to learn more about Terracotta products, services and support. Please visit terracotta.org, e-mail us at info@terracottatech.com or contact one of our sales professionals at +1 (415) 738-4000.