# Why Buy *eXtreme*DB?

**m⊕bject** ®
precision | data management

*eXtreme*DB, the real-time in-memory database system for eXtremely innovative solutions

Given the wide choice of available database system (including NoSQL) and caching software options, why choose McObject's *eXtreme*DB for high-volume, real-time enterprise applications? Here are a few of the compelling reasons:

**Fastest database system available**. As an in-memory database system (IMDS), *eXtreme*DB eliminates I/O and other sources of latency. Your system gains speed without rewrites or expensive new hardware.

**Highly Scalable**. The 64-bit *eXtreme*DB-64 supports the largest real-time data stores in financial, social network, object-caching and other high volume enterprise applications. Linear performance gains proven with in-memory database scaling to 160 cores, 15.54 billion rows and 1.17 TB.

**Multi-core optimized**. With advanced memory management and a Multi-Version Concurrency Control (MVCC) transaction manager, *eXtreme*DB fully leverages multi-core, multi-threaded systems.

**Real-time caching solution**. Deploy *eXtreme*DB as the front end cache for your enterprise DBMS and gain in-memory data access, reliability, recoverability, data definition and querying languages, plus other "real" database features.

**Business continuity**. When an object-caching layer goes down, data is lost. With *eXtreme*DB, transaction logging provides the means to recover and get back to business quickly.

**Storage efficient**. Object-caching solutions require complex data views to be generated and stored in memory, anticipating user requests. In contrast, *eXtreme*DB supports on-the-fly querying, with only core data stored in RAM.

**Reliable**. In contrast to NoSQL solutions' loose transactional guarantees, *eXtreme*DB transactions fully support the ACID properties, to safeguard data integrity.

**Logical storage devices**. A database can be spread across multiple disks, including RAID-like striping. Or, a database can be mirrored to two (or more) disks for perpetual backup.

**Fault-tolerant**. Committed to 99.999% uptime or better? *eXtreme*DB High Availability (HA) edition ensures continuous database operation even in the face of hardware or software failure.

**Code quality enforced**. A type-safe API and run-time verification mean data typing and usage errors are caught early. Result: higher quality code, shorter development cycles and dramatically fewer costly errors.

**Multiple database interfaces**. Access the database using its fast native API or optional, standard SQL (*eXtreme*SQL). For Java developers, the *eXtreme*DB Java Native Interface (JNI) provides the ease of working with plain old Java objects (POJOs).

**Flexible persistence**. Store all or part of your data on disk using *eXtreme*DB Fusion. Configure storage precisely to meet your application's performance and persistence requirements.

**Rich development tools**. Go beyond opaque key/value pairs with a wide range of supported data and query types that add to developer efficiency. The *eXtreme*DB API is highly intuitive, for quick learning, and lends itself to readable and maintainable code.

**Choice in database indexes**. The right index boosts performance and minimizes footprint. *eXtreme*DB offers the widely-used B-Tree plus specialized index types such as KD-tree for highly efficient Query-by-Example, hash index for exact match searches, and more.

**Proven database solution**. Track record of performance and reliability ranges from mission critical embedded (aerospace, industrial control, telecom, etc.) to highly scalable, real-time enterprise including financial trading, e-commerce and top ten social network sites.

**Low ownership cost, high return on investment**.
Organizations integrate *eXtreme*DB in highly scalable real-time systems such as finance, e-commerce, and social network applications to accelerate data management while providing benefits missing in traditional object caching and NoSQL solutions. Advantages including performance, scalability, reliability and storage efficiency both reduce cost of ownership and deliver a better end-user experience, resulting in a higher ROI in real-time database software for companies that choose McObject's *eXtreme*DB.