

# Dramatically Increase Performance by running your Applications In-Memory

## Forsa

### EXTREME DATABASE PERFORMANCE

READ and WRITE to MEMORY-BASED BLOCK STORAGE

### SUPERCHARGE APPLICATION PERFORMANCE

LATENCY MEASURED IN NANoseconds & MICROSECONDS

### NO MODIFICATION

NO NEED TO CHANGE UPGRADE OR REPLACE EXISTING APPLICATIONS

### DATA PROTECTION

IN MEMORY SNAPSHOTS, CLONES, FAILOVER / REPLICATION and BLINK for BACKUP / RESTORE

### REDUCE COST

REDUCE APPLICATION LICENSING AND INFRASTRUCTURE WHILE INCREASING MEMORY CAPACITY THROUGH FORSA DATA REDUCTION

Forsa, developed by Formulus Black, is a software technology that is unlocking the power of Memory-based Storage for all applications, delivering a level of performance unmatched by any SSD or other I/O bound technology. Forsa enables DRAM or Intel® Optane™ DC Persistent Memory to be easily and efficiently used as high performance storage media which can power the most demanding application workloads for organizations seeking to maximize throughput, minimize latency without modification to the existing applications.

### Why In-Memory?

For I/O intensive workloads, memory-based storage dramatically improves application performance by shortening the path that data needs to travel between storage and CPU.

### The Forsa Difference

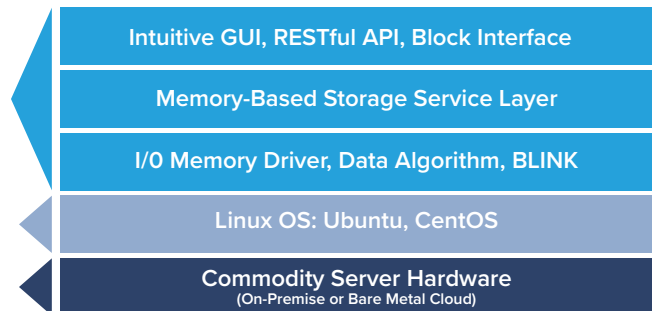
Traditional approaches require movement to expensive specialized hardware or purpose-built 'in-memory' applications. Unlike the traditional approaches, Forsa allows any application or database to benefit from 'in-memory' performance.

**ALL YOUR APPS & DATA**  
No Modifications Required



**Forsa SW Stack**  
Provision & Manage Memory-Based Storage

**Open Source OS**  
**Commodity Infrastructure**



Currently supports Ubuntu 18.04 and CentOS 7.3

Run any application from memory without modification. Forsa is designed to operate on any commodity 'Intel-based' server with Cascade Lake, Skylake, Broadwell or Haswell processors, and works with both DRAM and Intel® Optane™ DC persistent memory. The minimum required memory configuration per Server is 256GB of DRAM.