



# Extend the Effective Lifespan of Your Java Applications with Azul Zing

Gain headroom for growth and resolve performance issues with advanced JVM technology from Azul Systems

## Java applications may reach limits of current infrastructure

Over time, usage growth, changes in functionality and older hardware can cause your Java application's performance and reliability to suffer. Before you decide to perform a major rewrite or buy expensive new hardware, consider replacing your conventional JVM.

Many Java performance or scalability issues are not related to the application, database, network or container, but are more often related to the choice of JVM. Conventional JVMs have known limitations which can affect how a given application scales and performs under load. The most obvious and well-understood limitation is an application's memory heap size. Using a larger heap meant longer execution pauses for garbage collection.

Because of these pauses, older Java applications were often architected to 'scale out' using lots of small JVM instances within one or more large servers. Now as usage has grown and more features are added, many organizations are reaching the scalability limits of their existing Java infrastructure. Because these scalability issues are due to the JVM they can be fixed without application changes or buying new hardware.

Zing<sup>®</sup> is a Java SE compliant JVM based on Oracle's HotSpot. Zing is the only commercially available JVM that can utilize very large memory heaps with pauseless operation. Zing can allow your applications to squeeze years of additional life out of your existing investments while providing a better customer experience.



## ZING BENEFITS FOR EXISTING JAVA APPLICATIONS

- Utilize existing hardware resources more efficiently
- Gain years of additional life with current hardware and software
- Provide a better customer experience – faster response and better reliability
- Deploy quickly with practically no up-front JVM tuning – works well “out of the box”
- Implement with no code changes
- Improved stability, availability, performance and scalability
- Rapid resolution of production issues using Zing's always-on visibility tools



## Solution: A Scalable, High Performance JVM

Azul Zing provides existing Java applications with more scalability and better reliability than conventional JVMs. Zing prolongs the life of your existing applications and hardware.

### Prolong the life of your software and hardware

- Resolves out-of-memory errors and crashes
- Utilizes available hardware resources more efficiently
- Allocates temporary extra memory based on application needs for better performance under load
- Reduces risk: Java SE compliant and based on Oracle's HotSpot
- Requires no changes to your application
- Supports more simultaneous users, even at peak times, with greater responsiveness
- Lowers costs and avoids large capital expenditures
- Provides a zero-overhead, always-on production visibility tool to resolve performance issues quickly

### Low risk and fast to deploy

Zing removes the risk, cost and time commitment of a major infrastructure project. Zing can be easily and quickly integrated into your existing infrastructure. You simply need to point the Java\_home variable to Zing. Zing requires no coding changes to your application and very little tuning. You can deploy quickly, often in just weeks, and start enjoying the benefits of improved performance, increased headroom for growth and better reliability.

### Zing: the best JVM for your existing Java applications

Implementing a new application or buying expensive new hardware can be risky and take months or years to complete. By deploying existing applications on Zing, you will extend the life of your existing applications at low cost, with no coding changes and with very low risk.

## Example Use Cases

- **eCommerce** improve response times and handle more transactions/sec
- **Online Customer Portals** provide a great customer experience, even under load
- **Financial Services** expand sustained throughput of transactional systems and middleware integrations
- **Telecommunications** gain headroom for growth on proprietary apps
- **SaaS** scale existing applications to handle rapid growth

To get started, contact us:

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