Time Machine®

Virtual Clock Software for Application Testing

Speed Up and Cut Costs on Critical Application Deployment with Virtual Clocks

Businesses are aware of the importance of deploying critical applications and transforming their IT environments to meet the ever changing technology landscape and stay competitive. Upgrading or migrating business information, practices and processes to advanced technology in order to increase business agility, productivity and cost savings is the key for IT.

Time Machine®, has revolutionized application testing, enabling thousands of companies, including many of the Fortune 100 US companies. It is a de facto standard that enables you to time travel with your applications into the future or the past with variable speed capability for any functional tests. With virtual clocks it facilitates time travel testing on your date and time-sensitive application logic, such as month/quarter/year-end processing, billing cycles, regulatory go live and policy life cycles across n-tier architecture with no delay. Trusted by over thousands of customers worldwide across diverse industries (including AIG, ATO, Atruvia, AMEX, BBC, Boeing, Discover, Lloyds Bank, SNCF, State of CA, ID, HI, MO, OH, NC, and more) and partnered with industry leaders like Accenture, Deloitte, DXC, IBM, Microsoft, Oracle, and Red Hat.

Our latest innovation, Time Machine for Containers, supports standalone Docker containers and large-scale K8s/OpenShift clusters (including a 16,000+ CPU core cluster, 1,300+ namespace deployments).

How does it work?

- No Code Change Required. Time Travel Your Application with Ease.
- Time Machine intercepts your file system's date and time calls. If the caller is configured with a virtual clock and the program is not on the exclusion list, virtual time is returned; otherwise system time is returned.
- Virtual time can be in the future or in the past. You can also adjust the clock speed: normal, frozen, accelerated or decelerated.
- Time Machine is transparent to applications and databases, so no code modification is required to time travel and the system clock is never modified.
- Simply install Time Machine and configure your application and database owner with a virtual clock; in less than five minutes you will be time traveling your application with ease.

Features

Offers up to 20,000 programmable virtual clocks to support a variety of application requirements.

Virtual clocks can be set to past or future, running or frozen in time, and specified by absolute or relative values.

Using the Variable Speed Clock function applications can run up to 1000 times faster or slower than real time.

Virtual and system clock activity logging.

Exclusion lists ensure normal system operations for authentication, backups, logging, reporting, etc.

Key Benefits

Concurrent testing of multiple virtual clocks enables one test environment to become multiple test environments.

Save hardware and software costs. Boost engineering team productivity. Mitigates risk for mission-critical application failures.

Ensure large scale software projects finish on time and under budget.

A sole solution for Active Directory or Kerberos date based testing.

Powerful solution for time zone adjustment, what-if analysis, and training.

Partners

Microsoft Certified Partner
redhat. Linux
vmware
Business Partner
ORACLE PARTNER NETWORK
IBM Business Partner
Citrix Business Alliance

Operating Systems

Windows ®
HP-UX ™
Linux
Solaris ™
IBM AIX ™
IBM zLinux

Requirements

Minimum 5 MB disk space
32 MB memory

Certification

Microsoft Terminal Services
MS-SQL Server
Windows Server
HP Integrity
VMware
Oracle RAC

Boost Testers Productivity with Time Machine

With Time Machine, testers can time travel to any time they want without needing to wait for system, database and application administrators! This is particularly critical for secured environment such as Active Directory (AD), Kerberos or LDAP, as changing the system clock is not even allowed.

As an added benefit, a virtual clock ticking forward is immediately observed by the application and database - costly application and database shut down or restart is no longer needed. That means additional hours and days of savings for each time change testing (imagine hundreds of functional test cases with months/years saving).

Time Machine helps to streamline the testing requirements by allowing multiple virtual clocks in a shared test environment. Different testers can test different virtual clocks concurrently in the same environment. This capability dramatically boosts testers' productivity.

Time Machine Optimizes Your Software and Hardware Budget

Enterprise test or production environments are extremely costly. Just like a virtual machine enables one physical system to become multiple virtual systems, Time Machine's virtual clock easily turns one test environment into multiple test environments by running on different virtual times.

As a result, Time Machine eliminates the need to replicate the identical testing environment solely for concurrent testing. This not only cuts down on hardware cost and maintenance, but also reduces software license cost and maintenance! With the advent of multi-tier architecture (presentation servers, database servers, and application servers) the savings can easily be hundreds of thousands or millions of dollars.

Other Usages of Time Machine

In addition to your typical application testing, many customers rely on Time Machine to deploy other big projects, such as cloud migration, virtualization, data center consolidation, transformation, time zone adjustment, big data, what-if analysis, data aging, and online training.

Request a Demo

Download a free Time Machine demo at www.solution-soft.com.
For more information, call us at +1 (408) 346-1415 or email sales@solution-soft.com

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