Time Machine®

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

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.

Operating Systems

- Windows®
- HP-UX™
- Oracle / Sun Solaris™
- IBM AIX™
- IBM zLinux
- Linux

Certification

Microsoft Terminal Services, MS-SQL Server, Windows Server, HP Integrity, VMware, Oracle RAC, and IBM.

Speeding Application Deployment with Effective Date Testing

Time Machine is a time and date simulation tool that speeds application testing and deployment. Using Time Machine saves valuable time and resources for especially with complex ERP, CRM, or other large scale application deployments such as SAP, Oracle Financials, Siebel, PeopleSoft, Tibco, WebSphere, Microsoft .NET, AJAX or others.

The Testers Dilemma

Without rigorous and comprehensive testing of applications in your specific environment, there is no guarantee that the system will operate the way you expect it to in the future. The possibility of encountering serious system design flaws increases with time. If not discovered prior to release, these flaws can cause integrated business applications to fail.

Frequently, the department or employee assigned to test new applications or verify compatibility of new components within an existing software deployment lacks sufficient resources for comprehensive testing, or they simply do not have the time required to complete a full series of time & date related test processes.

A thorough software test process involves running applications with actual data in the target environment, executing the applications through an extensive range of past, present and future dates, and scrutinizing the results for any functional inconsistencies.

Are You Concerned About Changing Your System Clock? You Should Be.

The traditional test approach is to change the system date and time. Unfortunately, changing the clock is risky, potentially producing a whole array of undesirable consequences:

Files with a future date timestamp may develop in your production or development environment, rendering them unusable to many applications

Forgetting to reset the system clock on a system when a test run is completed could result in other users being unable to log on to the computer.

After each clock change to your system, database and test environments may require reloading. This process can add days to your project!

The task of resetting the system clock often requires an orchestrated effort between Database administrators, IT staff, and others.

Resetting the system clock may require that you force a logoff of all users using the system.

Production systems will not run correctly on machines with an invalid system clock setting.

Any long-term development and testing projects are impacted.

Demo, rental, and leased software will immediately expire!

Logging and recovery may not function correctly.

Backups could miss crucial files.

What you need is the ability to run all of your existing programs and system functions in the current date environment while you test the future viability of the new program, in the same environment, interacting with all of your real-world functions. What you need is the ability to change the clock for the new application only.

Solution-Soft™

Don't Change the Clock-Use a Different Clock.

With Time Machine, you have the flexibility to specify any date/time for any user or any program. Once set, a 'virtual' date and time is provided whenever the user or application calls the system for date or time. Time Machine does not require any program or back-end database modifications.

Do You Want Convenient Testing? Travel in Time

Time Machine's ability to give any application its own invisible virtual clock provides an exceptionally powerful capability for development, testing, training, and simulations. One user can be developing and testing leap-year rollover issues, while another works on month-end processing spanning five years, and another works on current development. With Time Machine, all of them can be operating on the same system.

Time Machine Optimizes Your Software Budget

Time Machine enhances your software development, testing, training, and production schedules giving you more time to meet your target milestones.

- No need to reload, shutdown or restart database or applications upon changing virtual clock
- No need to wait for system, database and application administrators to change the system clock
- Run a Time Machine session to unobtrusively test modified programs and set Time Machine's virtual clock to verify that all defects are corrected.
- Test processes such as month-end, year-end, and other date-sensitive functions by modifying individual virtual clocks and input data.
- Speed up the evaluation of new software in database centric applications that use date/time verification and triggering.
- Run simulations at 1000 times faster or slower than wall-clock time,
- Increase Productivity.

Manage System Time Intelligently with Time Machine

Time Machine facilitates any type of time or date-sensitive development, testing, training, and simulation that would otherwise require altering your system clock.

- Test month-end processes before the end of the month.
- Rerun failed production jobs and reports.
- Set the clock ahead to 5 a.m. to train users on warehouse stock and order processing.
- Provide wide-area network users with a local-time-zone view of applications on-screen and for report printing.
- Time Machine is an ideal maintenance, development, and test tool for systems with time and date sensitive or 'effective dating' computing requirements.

History

Time Machine has been in production since 1997 and implemented worldwide by 43 of the Fortune 100 companies. Some customers of Time Machine are AT&T, Accenture, Boeing, CalPERS, Deloitte, FedEx, Ford, Hewlett Packard, IBM Global Services, State Farm and Wells Fargo.