

# TimeLine 24x7 Performance Monitor™

Continuous Monitoring for Sybase ASE, Sybase IQ and Microsoft SQL Server

## Introduction

ProActive DBA TimeLine 24x7 Performance Monitor from White Sands Technology, Inc. provides best-of-breed continuous performance monitoring of database servers.

It enables DBAs to diagnose the root cause of current or past database performance problems, down to the individual SQL statement.

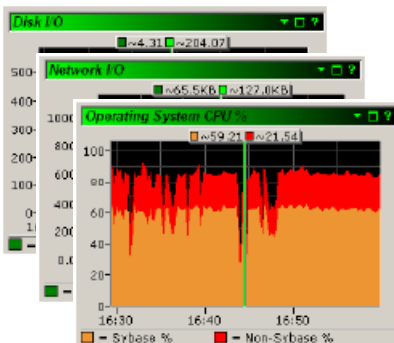
TimeLine 24x7 works as part of the ProActive DBA framework. It can be used as a stand-alone product, and it can also work together with ProActive DBA SQL Capture and Database Auditor, so you can use all the products within a single, integrated environment.

## Major Benefits

- Captures SQL, database and OS performance statistics with selectable detail levels
- Continuous historical view of **all** SQL executed against the database server \*
- Jump to any point in time to view running SQL, performance metrics, locks/blocking at that moment
- Monitors the largest, busiest production servers, with virtually **no impact** on server performance

## Performance Graphing

TimeLine captures a wide array of performance indicators at the SQL, database server and operating system levels. Graphs show resource utilization (CPU, disk, network, etc.), cache hit/miss ratios, space usage and more.



Comprehensive performance statistics at a glance!

\* SQL detail features are available only when used in conjunction with ProActive DBA SQL Capture.

## Point-In-Time Analysis

With TimeLine, you can review current, recent or past performance incidents—simply select the time range you want to analyze.



View running SQL and performance metrics at any point in time!

You can jump to a specific point in time and view running SQL \*, performance metrics, locks/blocking and more, all at that instant in time.

TimeLine's revolutionary user interface lets you quickly and easily navigate from one type of monitored data to another, to get a global view of what was going on at a particular point in time.

And, TimeLine 24x7 lets you can step forward or backward through captured events, to analyze the causes and effects of a performance problem.

## TimeLine Alerts Option

With the optional TimeLine Alerts package, you get powerful, customizable alerting. Alerts may be triggered based on global performance metrics and/or other criteria defined by your own scripts.

Event	SPID	Login ID	User	Application
Running...	57	2	jari	Scheduled
Idle	408	3	jari	Backup
Idle	778	4	jari	Access
Running...	722	5	jari	Internet Ex
ASMT Cause	568	6	jari	Personnel
Running...	445	7	jari	NetMeeting
Idle	381	13	fung	Utility/Man
Running...	1274	639	jari	NetMeeting
Running...	320	640	jari	Address B...

When integrated with SQL Capture, you can alert on long-running SQL, SQL error codes, or SQL performance metrics.

When an alert event occurs, it can record a snapshot of current process activity, locking/blocking and running query plans for later review.

Alerts can also send an email notification, or trigger an external operating system script to perform custom actions.

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Step through running SQL statements as they occurred at the time of a current or past performance issue. \*

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## Locking / Blocking Analysis

TimeLine 24x7's unique Blocking Tree makes it easy to diagnose blocking problems.

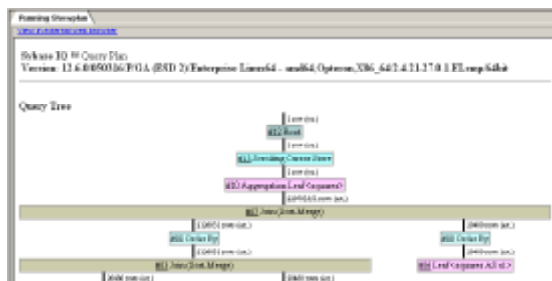
Users who are causing blocking are listed first, and users being blocked are listed underneath, so you can see right away who is causing blocking, why, and how many other users are affected.

SPID	DB	Owner	Blocked By	Blocked By SPID	Blocked By DB	Blocked By Owner	Blocked By SPID	Blocked By DB	Blocked By Owner	Blocked By SPID	Blocked By DB	Blocked By Owner		
281	0	sa	lock	281	0	sa	lock	281	0	sa	lock	281	0	sa
489	1	sa	lock	489	1	sa	lock	489	1	sa	lock	489	1	sa
489	0	sa	lock	489	0	sa	lock	489	0	sa	lock	489	0	sa
522	1	sa	lock	522	1	sa	lock	522	1	sa	lock	522	1	sa
87	0	sa	lock	87	0	sa	lock	87	0	sa	lock	87	0	sa
886	0	sa	lock	886	0	sa	lock	886	0	sa	lock	886	0	sa

Our Blocking Tree shows you which processes are causing blocking,

## Query Plan Analysis

TimeLine captures query plan data from Sybase ASE, Sybase IQ and Microsoft SQL Server to assist in tuning of long-running SQL, SQL that causes blocking or other problematic SQL.



TimeLine can capture real-time query plan data for later review,

## SQL Capture and Database Auditor Integration

TimeLine 24x7 integrates with ProActive DBA's SQL Capture and Database Auditor products to provide full database performance monitoring, SQL analysis and auditing in a single framework.

For example, you can use TimeLine to identify problem SQL; then use SQL Capture's reporting and analysis features to identify SQL performance trends, analyze query plans, find SQL causing table scans, and more.

## Purchase Justifications

- One product family meets all your performance monitoring needs
- Automatic notification of performance problems
- Diagnose performance problems quickly and easily

## Major Product Features

- Detailed performance monitoring and graphing
- Jump to any point in time to view performance, running SQL \*
- Integration with other ProActive DBA Products (SQL Capture, Database Auditor, Diagnostic Monitor, Visual Space Manager) in a single framework

## System Requirements

- Windows 2000 or higher
- Pentium 1GHz or faster CPU recommended
- 256MB or more RAM
- 100MB or more available disk space
- 1024x768 or better display
- Sybase and/or Microsoft client software installed

## Database Versions Supported

- Sybase ASE 11.x - 15.0.x
- Sybase IQ 12.6 through 15.1
- Microsoft SQL Server 2000, 2005, 2008, 2008R2



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