

ProActive DBA™ Diagnostic Monitor™

Introduction

ProActive DBA **Diagnostic Monitor** from White Sands Technology, Inc. provides a comprehensive performance monitoring and diagnostic solution for Sybase ASE servers.

It is designed for intermediate to advanced DBAs and Performance & Tuning experts who require the ultimate in monitoring and diagnostic capabilities.

Unlike other products which only show the symptoms of poor performance, Diagnostic Monitor includes true in-depth performance diagnostics and analysis, to address the root causes of performance problems on your servers.

Powerful Monitoring

Our monitoring Home page gives you a complete, easy-to-read overview of your server's performance. At the top is the Health Meter, which shows your server's overall health and performance level.



Monitor Home page shows you overall server health and performance levels.

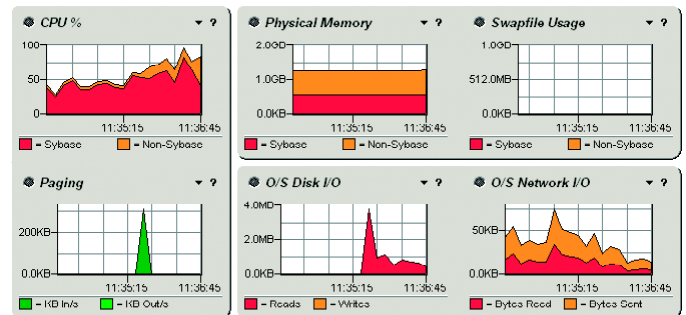
The Home page also shows every major indicator which can impact performance: CPU utilization, operating system activity, active and blocked connections, physical resource utilization, cache I/O activity and space usage.

From the Home page, you can click on any performance area to jump to a detailed breakdown of that area.

Unix/Windows Operating System Monitor

Most Sybase monitors have one glaring limitation: they can't show you conditions in the external operating system which are degrading Sybase performance.

This means if another process on the server's host machine is stealing CPU, memory or other resources away from Sybase, you may not know.



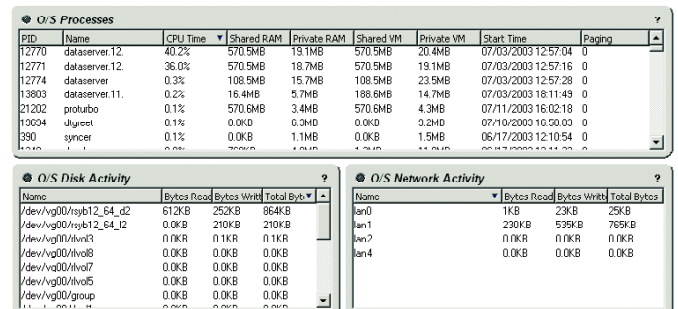
O/S page shows you how operating system factors are affecting Sybase performance.

Diagnostic Monitor addresses this need by providing integrated monitoring of the Unix or Windows operating system, and comparing Sybase's resource usage to that of other processes running on the same host machine.

View a complete operating system process list, plus detail on paging, network I/O and disk I/O by device.

With a click of the mouse, you can kill an offending operating system process, or open a Telnet window to the server.

Plus, view detailed operating system resource utilization down to the individual disk device or network interface, to locate disk, memory or network bottlenecks.

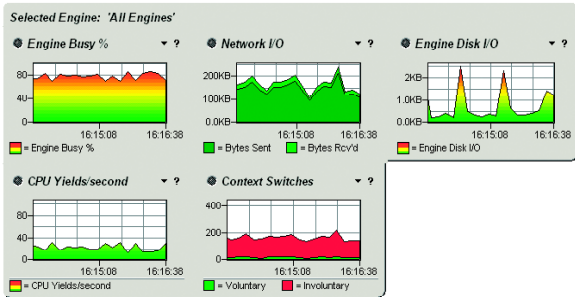
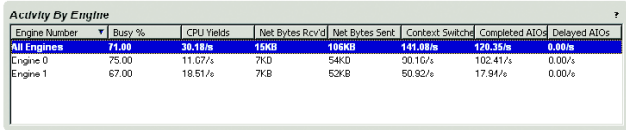


View detailed operating system resource utilization and process activity.

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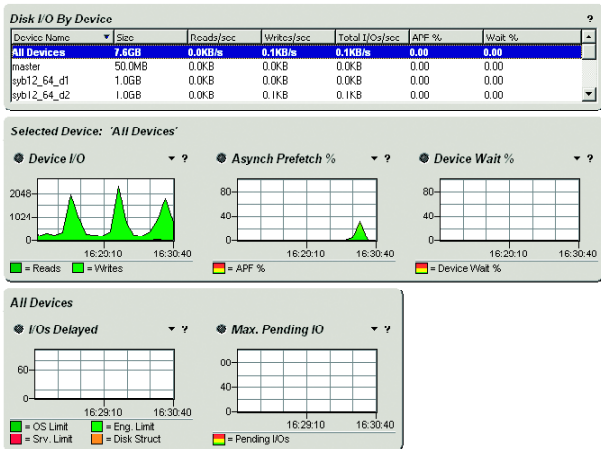
Detailed Sybase Monitoring

Diagnostic Monitor gives you a detailed breakdown of Sybase process activity, engine usage, cache effectiveness, disk I/O and other statistics. You can track trends historically and zoom in on periods of heavy activity.



Monitor I/O, contention and activity levels by engine.

You can also view server activity by disk, cache or other performance categories.

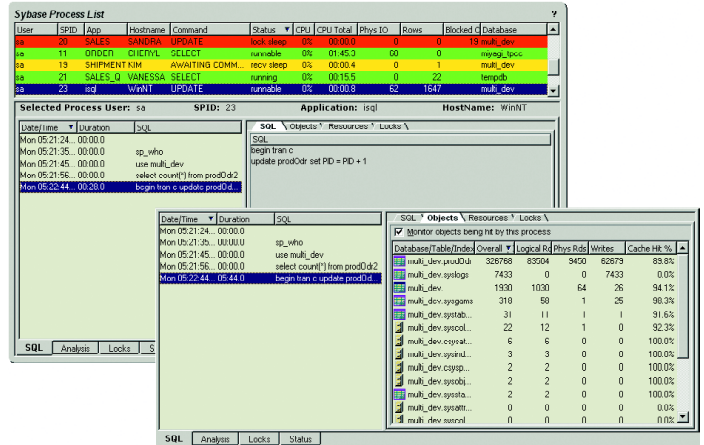


Monitor I/O activity levels by Sybase disk device.

Detailed Sybase Process Monitoring

Our process list goes way beyond simplistic "sp_who" lists to give you full detail on what any Sybase process is doing. Not only do you get a history of SQL commands executed by the process, but you can view a list of blocking activity incurred by each SQL command, what database objects received I/Os during each SQL command, and much more! Never before has diagnosis of process activity been easier or more powerful!

For the most complete SQL monitoring solution, use ProActive DBA SQL Query Analyzer, which integrates into the same framework with Diagnostic Monitor.

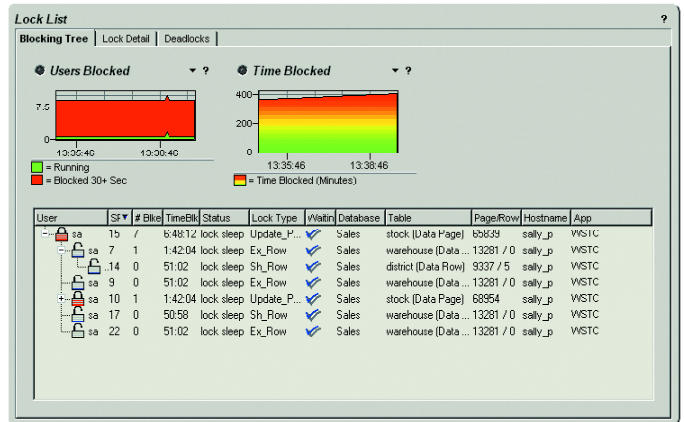


Process Detail list shows you exactly what each Sybase process is doing, down to the individual tables being accessed!

Locks and Blocking

Diagnosing blocking problems becomes a snap with our unique graphical Blocking Tree! Users who are causing blocking are listed first, and users who are blocked by them are listed underneath, so you can see right away who is causing blocking, why, and how many other users are affected.

For page and row locks, with just a click of the mouse you can view a listing of the rows on the page, and for row locks, the locked row is even highlighted!



Blocking tree shows you the root causes of contention problems!

Cache Analysis

Our unique Cache window not only gives you statistics on cache hit rate, turnover and other cache metrics, but you can view a complete list of all objects in Sybase's cache! Find out which objects are using the most cache space and what percentage of each object is resident in cache.

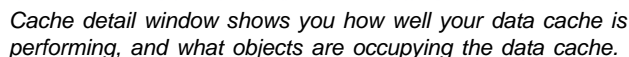
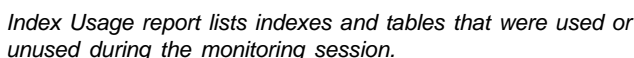
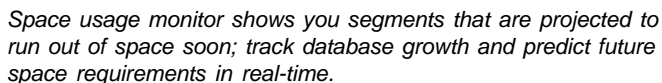


Table and Index I/O Activity

And, see cache hit ratios **by table/index**, to identify tables and indexes that could benefit from having their own named cache assignments.



When used with ProActive DBA SQL Query Analyzer's table/column usage reporting, you can identify the best key columns to use for creating indexes on heavily-used tables.



Our space usage monitor watches your data and log segments in real-time and projects space usage growth for the next 1 to 7 days.

When used with ProActive DBA Visual Space Manager, you get a complete, integrated space management and maintenance system.

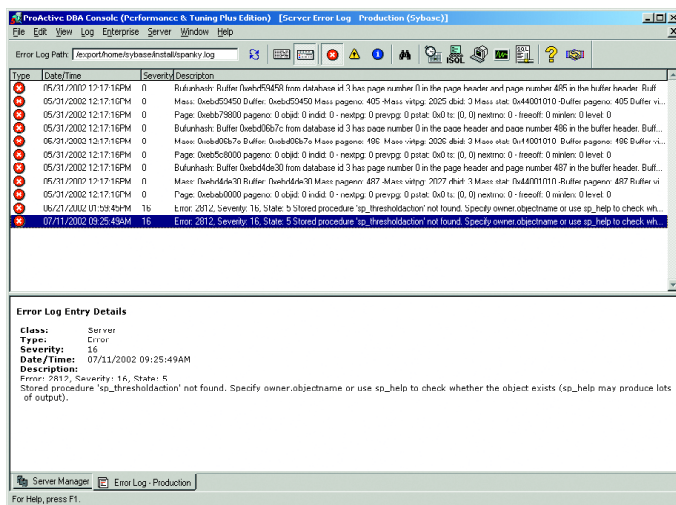
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Graphical Error Log Viewer

Looking through long Sybase error log listings is like looking for a needle in a haystack. And, until now you've had to use cumbersome Unix command-line utilities to view the log files.

Our Server Error Log window makes it easy by showing the Sybase error log in an easy-to-read graphical format.

It can also filter out "informational" messages so you only see warnings and errors that you need to know about.



Server error log viewer makes it easy to spot important server errors and warnings.

Purchase Justifications

- Improve server performance by identifying performance problems in real-time
- Quickly diagnose the root cause of performance problems

Major Product Features

- Server performance monitoring
- Real-time performance diagnostics
- Graphical Health Meter™
- Graphical Error Log Viewer
- Operating System Performance Monitoring
- Determine table and index usage
- Determine cache effectiveness
- Integrates with other ProActive DBA products (SQL Query Analyzer, Visual Space Manager, Disaster Recovery Toolset) in a single framework

Monitors Available

- Operating System CPU, Memory, I/O, Process List
- Server Health Meter™
- Sybase Process List With Full Detail
- Sybase Blocking Tree and Lock Detail
- Top SQL List
- Table and Index I/O By Object
- Used and Unused Indexes Report
- Cache Statistics and Utilization By Table/Index/Stored Procedure
- Sybase Engine, Disk and Network Usage
- Error Log Viewer With Filtering

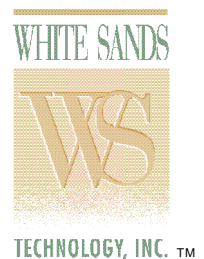
System Requirements

- Windows XP/2000/NT 4.0 or Windows 95/98/Me
- Pentium 200 or faster CPU recommended
- 128MB or more RAM
- 100MB or more available disk space
- 1024x768 or better display
- Sybase client software installed
- Microsoft TCP/IP installed

Database Server Platforms Supported

Diagnostic Monitor supports all popular Sybase ASE platforms.

It supports Sybase ASE versions 11.0.3 through 12.0, and 12.5.0.3 and higher versions.



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