Performance Explorer-i for Oracle

Version 4.01

What's New Notes

February 2007

Contents

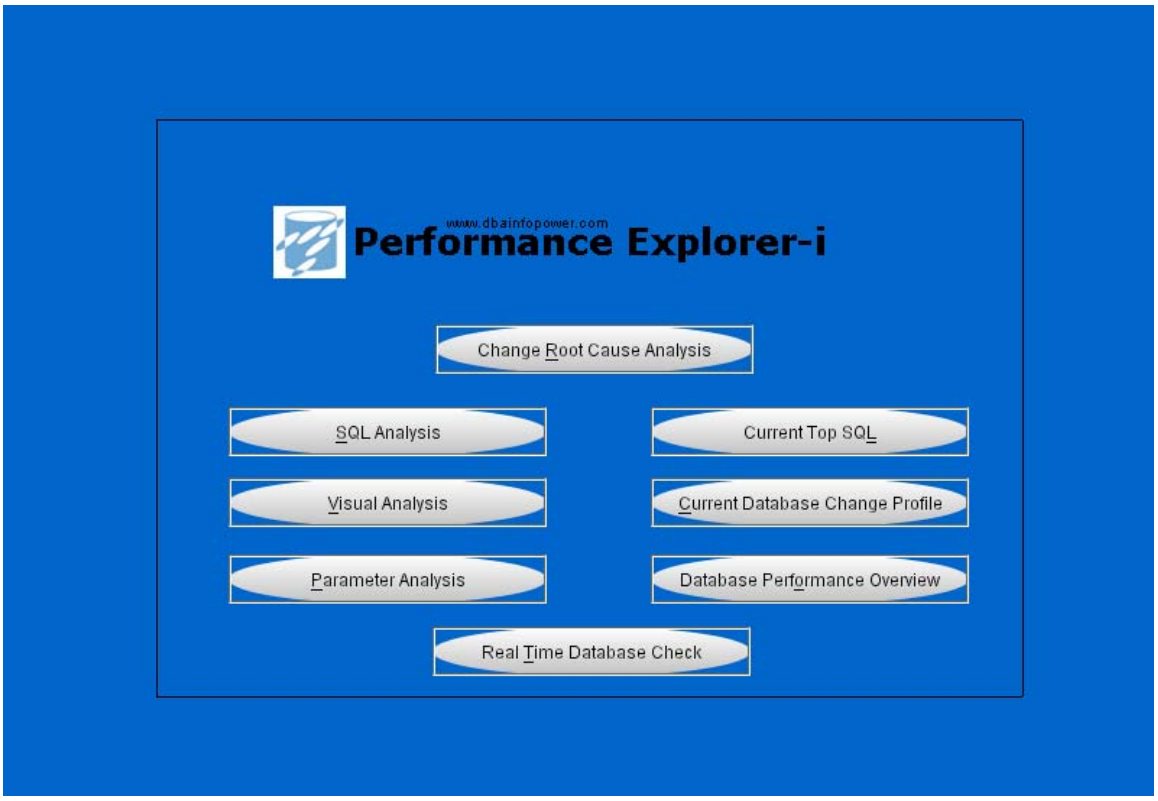
1. Welcome to Performance Explorer for Oracle

Performance Explorer is a powerful root cause analysis tool for Oracle databases. Its unique analytical capabilities and interface provides you with a clear visualization and root cause of activity on your database. Snapshots Compare identifies changes that caused changes in performance on a single or multiple databases, while visual analysis system identifies spikes and capacity changes in key statistics and metrics.

2. List of New Functionality

Extended Quick Task panel

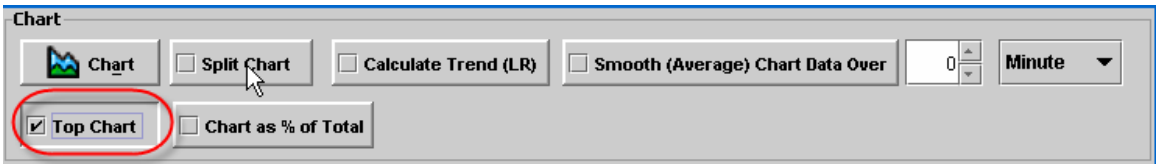
Quick task panel enable user quickly investigate performance of database both historically and in real-time.



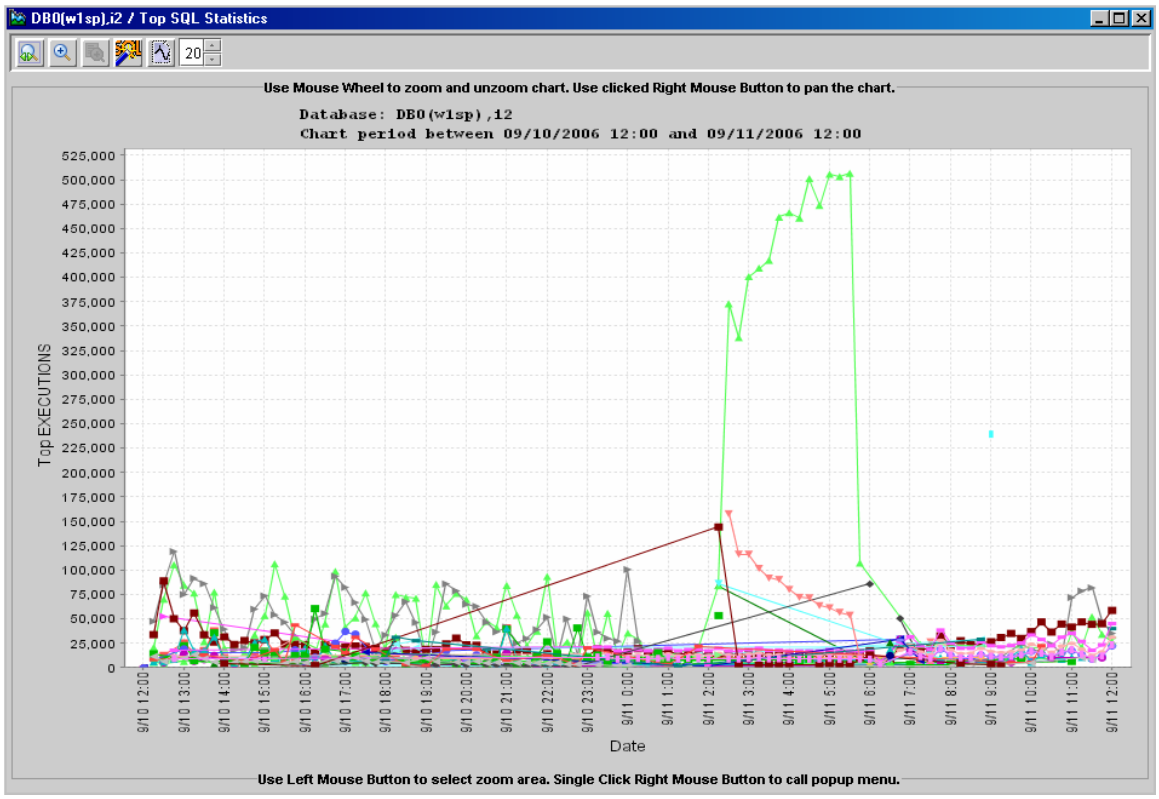
Top Spike Analysis and Report

Top Spike Analysis enables user to instantly identify spiking SQL and database performance metrics and generate detailed HTML report on area selected for investigation.

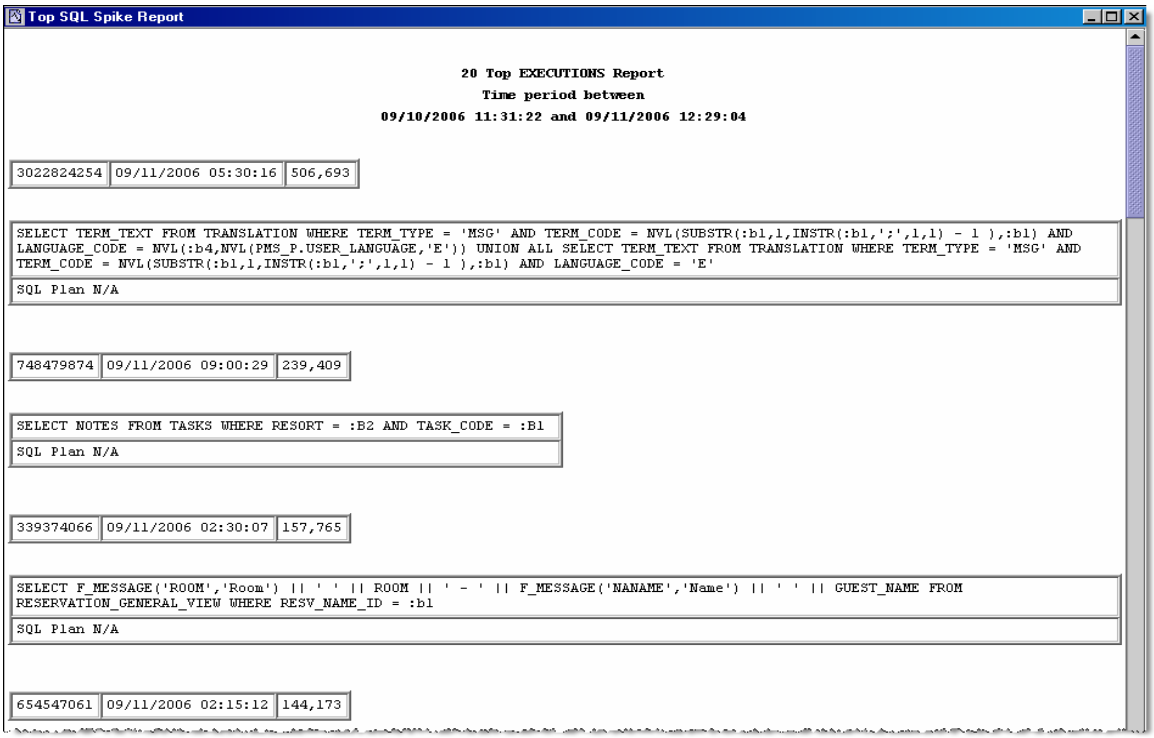
To obtain equivalent information created by “Top Spike Analysis” report without Performance Explorer-i, user would have to create hundreds (if not more) AWR/Statspack reports and to perform manual “eye-ball” top analysis on them.



Top Spike Analysis Chart



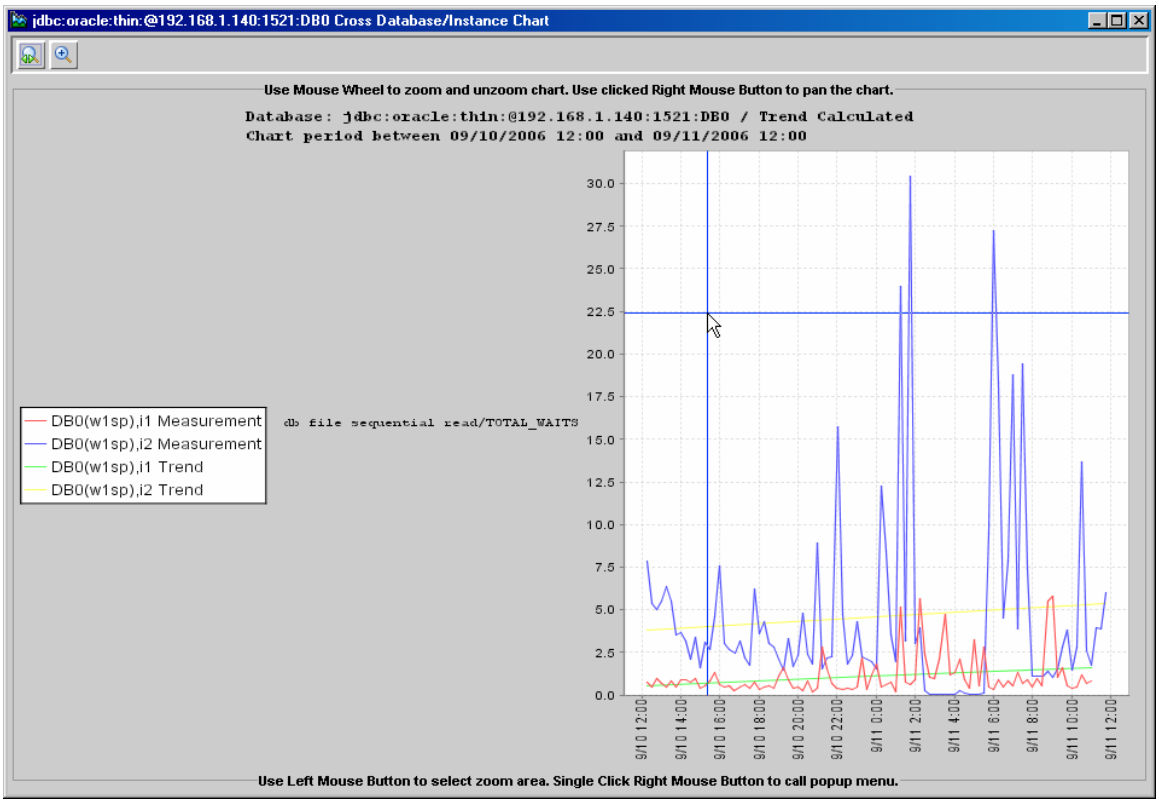
Top Spike Analysis Report

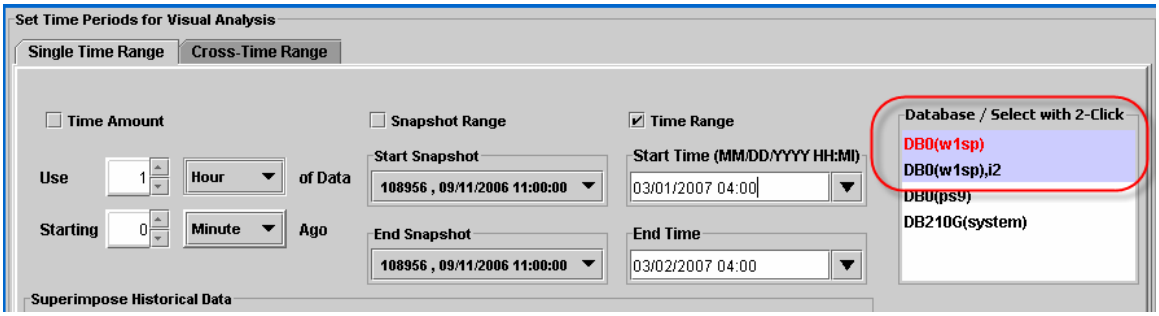


Spike report includes Spike SQL and SQL Execution Plan details

Cross-Instance / Cross Database performance analysis

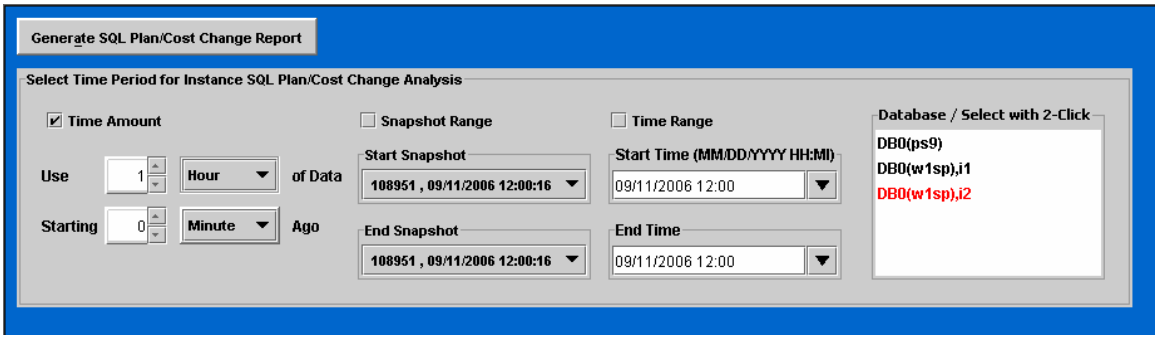
Cross-Instance / Cross Database performance analysis enables user to visualize performance metrics across multiple databases or multiple nodes of the RAC cluster

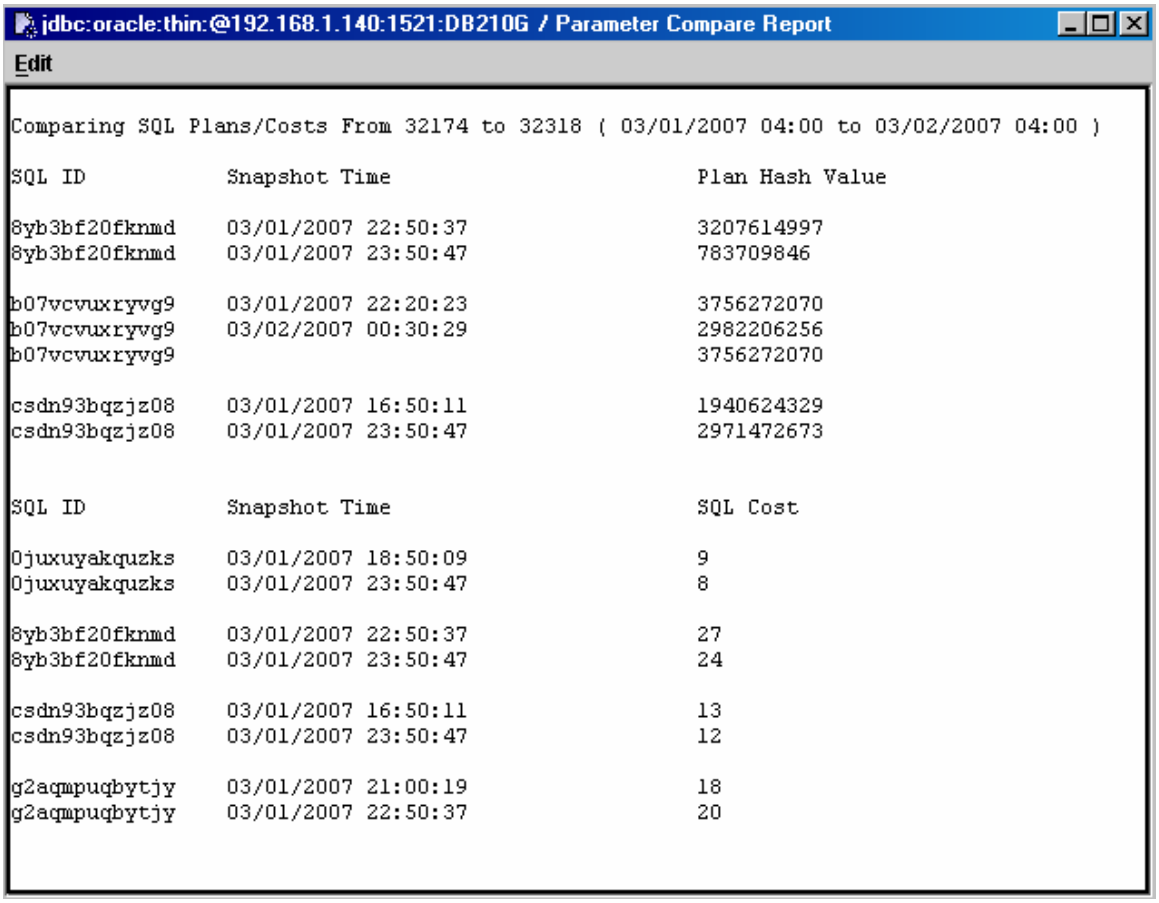




SQL Execution Plan/Cost change analysis

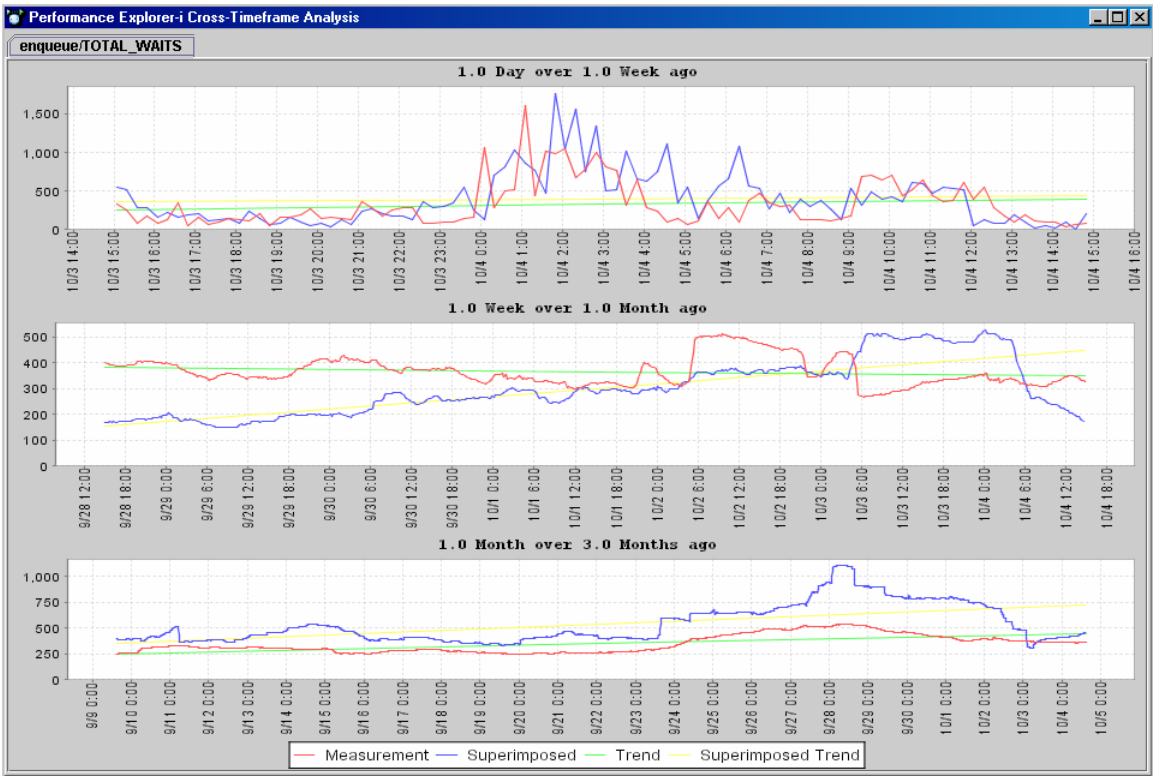
Enables user to scan time range to identify changes in SQL statement execution plan or execution cost (Requires AWR or Statspack level 6).

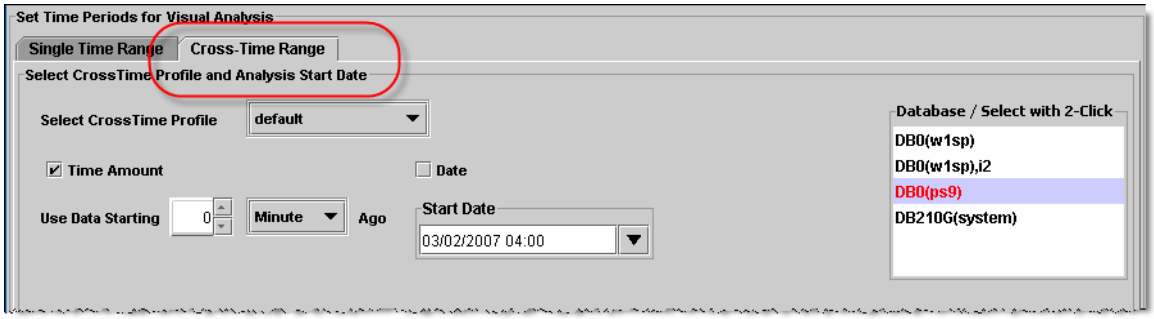




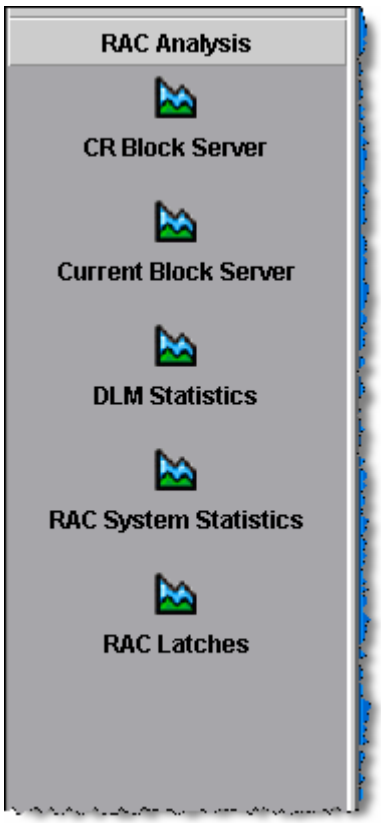
Extended Cross-Time Frame Analysis

Cross time analysis enables user to visualize multiple time frames of the database performance statistic. Cross time analysis is especially useful during the investigation of changes in system capacity.

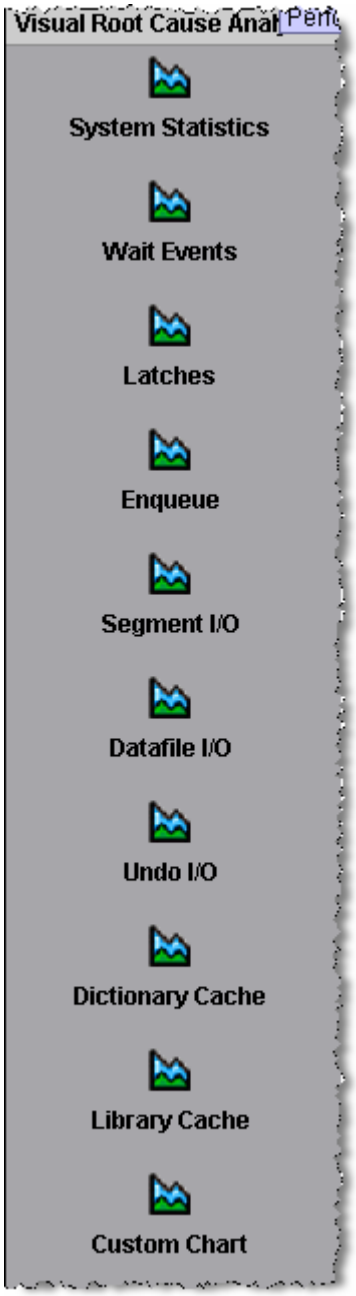




RAC performance root cause analysis support



Extended Visual Performance Analysis



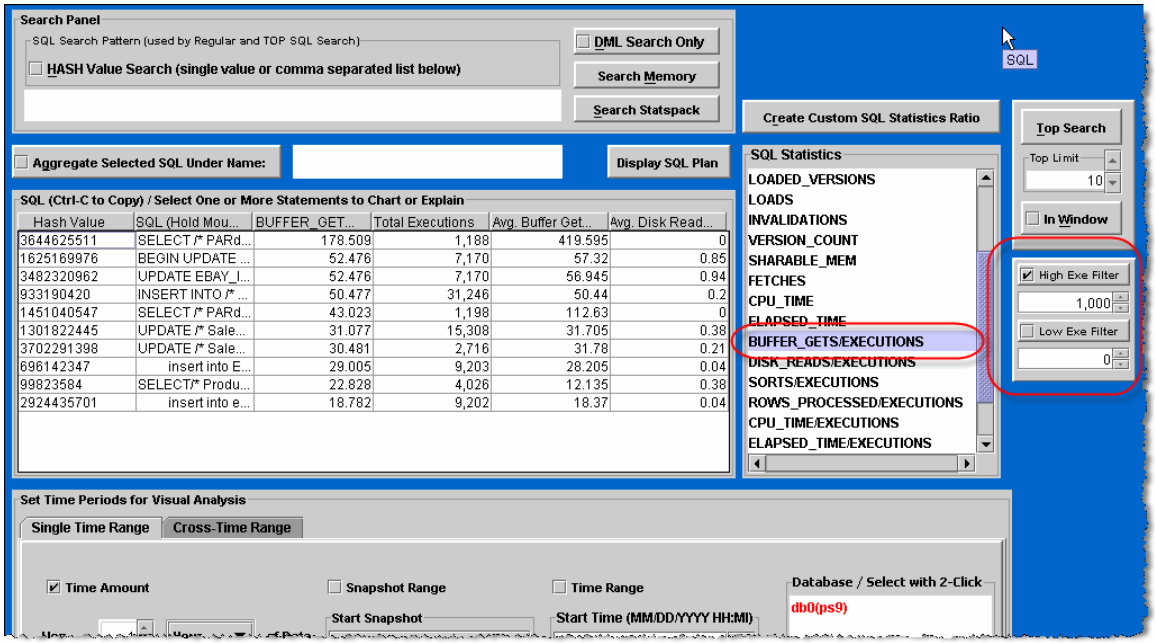
Added support for;

- **Segment I/O performance**
- **Enqueues performance**
- **Library Cache performance**
- **Dictionary Cache performance**

SQL search engine – added search execution filter.

For example, it enables user to search for top Disk reads/Per Execution where overall executions are greater then 1,000 using “High Execution Filter”. This is a great way to filter-out SQL that is not executed frequently in production.

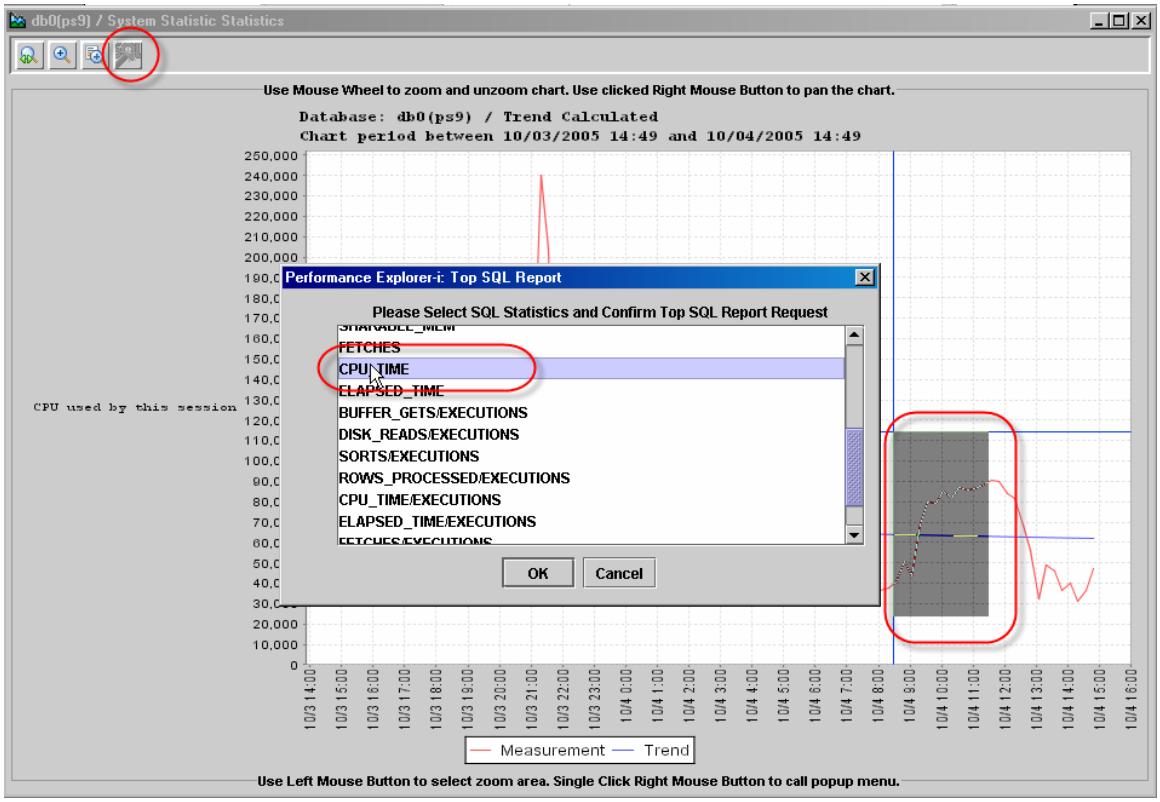
At the same time execution filter can be used to identify heavy resource consuming SQL that was executed only a few times, but caused a big impact on performance. For this user should set “Low Execution Filter” to some low value, like 10.

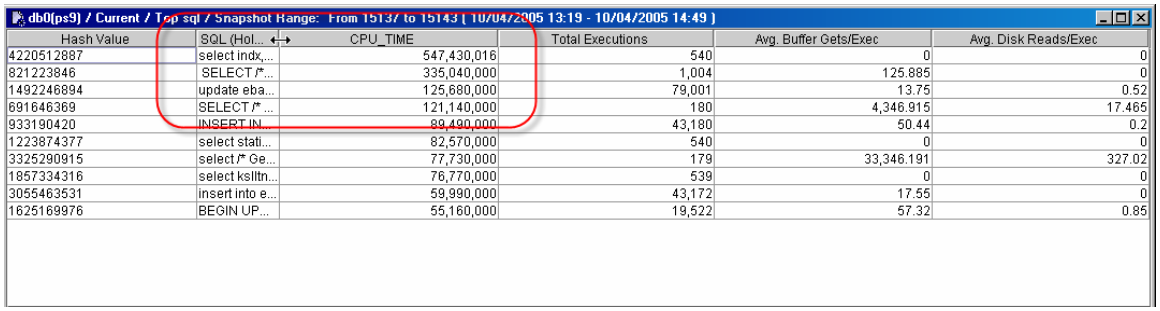


Spike to SQL Drilldown.

Spike to SQL Drilldown enables user to pinpoint SQL correlated to the performance spike of any kind.

Below example demonstrates user's SQL drilldown into the area of CPU spike, that clearly shows what statements were most CPU consuming during the spike time.





Hash Value	SQL (Hol...	CPU_TIME	Total Executions	Avg. Buffer Gets/Exec	Avg. Disk Reads/Exec
4220512887	select indx,...	547,430,016	540	0	0
821223846	SELECT /*...	335,040,000	1,004	125.885	0
1492246894	update eba...	125,680,000	79,001	13.75	0.52
691646369	SELECT /* ...	121,140,000	180	4,346.915	17.465
933190420	INSERT IN...	89,490,000	43,180	50.44	0.2
1223874377	select stati...	82,570,000	540	0	0
3325290915	select /* Ge...	77,730,000	179	33,346.191	327.02
1857334316	select ksilt...	76,770,000	539	0	0
3055463531	insert into e...	59,990,000	43,172	17.55	0
1625169976	BEGIN UP...	55,160,000	19,522	57.32	0.85

3. For more information . . .

Other document sources

The online help can be displayed by selecting an option from the **Help** menu, by clicking the Help button, or by pressing **F1**. Comments and suggestions regarding the help are welcome.

Other product manuals can be freely downloaded from the company website at
http://www.dbainfopower.com/dbaip_product_documentation.php

Contacting DBA InfoPower

The development team welcomes any comments on the new features of this release, and information on any other problems/limitations found in the product that are not listed in the **Performance Notes** section. Please send email to support@dbainfopower.com

You can contact DBA InfoPower for product information and support issues via the following web page or email addresses.

DBA InfoPower product information

Web page
http://www.dbainfopower.com

E-mail to Sales & Marketing:
sales@dbainfopower.com

Contacting customer support

Web page
http://www.dbainfopower.com/dbaip_support.php

E-mail to Support:
support@dbainfopower.com

Technical Support

If you have questions about using Performance Explorer, please contact our technical support staff. Please include the version number, and if your question is about an error message, include the error text as well.

Should you encounter any problems with Performance Explorer, follow these steps:

- Copy content of the Performance Explorer execution console to the diagnostics text file..

- Capture picture of an error to the image file
- Copy content of the Performance Explorer error dialog to the diagnostics text file.
- E-mail these files to support@dbainfopower with your request for assistance.