

## Confio Software Publishes First Statistical Analysis of Source of Database Delays

*Confio Software Shares Research to Help Companies Improve Database and Application Performance*

**May 22, 2007 – Boulder, CO** - Confio Software, the leader in wait-time [application performance management tools](#), today released the results of its study of the most common sources of database and application delays. The study is a comprehensive analysis by Confio across hundreds of production databases in multiple industries as measured by the wait events. Wait events are those that cause a delay in application performance and end-user service levels and are measured in time.

The databases in the study focus on Oracle implementations, the most common among the Oracle, Microsoft and IBM databases supported by Confio. Highlights of the research include:

- Two-thirds of all wait time accumulates in Input/Output (I/O) related delays
- Cache requests related to clustering are the most common source of wait-time in Oracle databases
- The top 15 wait events ranked by total wait time represent over 90% of all wait events collected

The study is available for download at <http://www.confio.com/whitepapers>. Along with an index and ranking of the top wait events, the study also provides several high level suggestions for reducing the wait time that will result in increased application performance.

"We find that the majority of wait-time events in I/O related delays can be greatly reduced if you can pinpoint the offending SQL statements," stated Dean Richards, Senior Database Performance Analyst, Confio Software. "For companies focused on improving application service levels, using wait-time analysis is an invaluable methodology and an essential step to understanding the root cause of system and service delays."

[Wait-time analysis](#) is a new approach to application and database performance improvement that allows users to make tuning decisions based on optimal service impact. Typically [database performance](#) is measured in the number of events and hit ratios. While somewhat meaningful and easy to capture, these statistics do not reflect a relevant view of the end-user experience nor do they reveal with any precision where the problem originated. Assessing performance without focusing on time impact leaves database administrators (DBAs) guessing about what actions to take in order to address their most important user oriented problems.

For the DBAs wait-time analysis identifies the exact modules and screens that affect database performance. By measuring end-user wait-time with detailed granularity, management can identify exactly where in the IT value chain the bottleneck lies and who/what is really responsible. Armed with this information, DBAs and management can work together towards resolving performance problems and improve service levels.

DBAs who are interested in learning more about industry best-practice [Wait-Time analysis](#), and [database performance tools](#) can visit [www.confio.com](http://www.confio.com). In addition, free trials of Confio Software's leading multiplatform application performance monitoring tool are available for download at [http://www.confio.com/English/Products/Free\\_Trials\\_Software.php](http://www.confio.com/English/Products/Free_Trials_Software.php).

### **About Confio Software**

Confio Software develops [Oracle, SQL Server & Java application performance management tools](#) that are revolutionizing how databases and the applications that depend on them are monitored, managed and optimized. Built on industry best-practice Wait-Time methods, Confio Igniter Suite improves service levels and reduces costs for database and application infrastructure. Confio is based in Boulder, Colorado, with customers worldwide. For more information see [Confio.com](http://www.confio.com).

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