SCALABLE, DISTRIBUTED CACHING

ScaleOut StateServer® Grid Computing Edition introduces powerful new features that enable distributed caching to serve as a vital component of scalable, grid-based applications. Grid computing has rapidly grown in popularity to address the needs of complex computational problems which require the scalable performance that only compute grids can provide. Financial services and other data-intensive industries routinely demand real time processing and overnight batch analysis of large data sets. By storing fast-changing data in ScaleOut StateServer’s distributed, in-memory cache, these applications can dramatically reduce access latencies, avoid bottlenecks, and achieve peak performance. Distributed caching also lets applications immediately share data across compute nodes without the need for message passing; this simplifies program structure and shortens design cycles. These combined benefits make distributed caching a powerful data access platform for a wide range of HPC applications.

POWERFUL DATA GRID SUPPORT

ScaleOut StateServer Grid Computing Edition further extends data caching’s potential to maximize application performance and simplify design. Called “data grid” support, new grid computing capabilities let applications easily access and operate in parallel on cached data stored in the compute grid. Applications can now perform parallel queries to rapidly search the distributed cache for selected objects based on metadata associated with cached objects. For example, cached stock price objects can be searched to determine which stocks are associated with a specified industry group. Employing patent-pending, parallel search and merging algorithms, ScaleOut StateServer provides the fastest possible parallel query across all hosts within the distributed cache.

ScaleOut StateServer adds another important productivity boost for HPC developers by enabling applications to execute user-defined methods in parallel on a selected set of objects and then combine the results using user-defined merge algorithms. For example, a set of portfolio objects can be analyzed in parallel with the results merged into a single report – all without the need for message passing code. By simplifying application design and reducing data motion, this “map-reduce” capability works in concert with the grid’s job scheduler to further extend distributed caching’s power to accelerate the performance of HPC applications.

Contact us to find out how our distributed caching can help your application deliver maximum performance.

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