ULTRAQuest
SELECT WEB REPORTING

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UltraQuest Session Manager

Benefits

- Significantly reduces z/OS system overhead and improves response time by as much as 3:1
- Full featured capabilities provide for flexible data access outside the TSO environment
- Includes advanced facilities for monitoring and control of regions and activity

Overview

The Session Manager (NSM) is a resource management program that dramatically improves response time and performance for interactive UltraQuest users. This breakthrough in technology allows multiple UltraQuest requests and applications to run in a single address space - outside the confines of TSO. As such, it extends the range of applications that can be developed and efficiently run with a fourth-generation language (4GL) far forward into the production arena.

The Session Manager provides a reliable, ready-to-use solution for delivering efficient, production-level web applications at a fraction of the development cost of traditional methods.

UltraQuest's extensive functionality remains the same when used under Session Manager. Existing UltraQuest applications and requests generally need no modification to run under NSM.

Session Manager Rotor

A Session Manager Rotor facility monitors NSM region populations and routes new requests from UltraQuest to new regions when region capacity limits are reached. These capacity limits for both number of requests per region and number of regions are controlled by the NSM site.

Summary

The spectrum of transaction-type web applications and ad-hoc reporting is extremely wide. At the low end are the relatively long and infrequently used web applications, such as ad-hoc queries, where performance is generally a secondary consideration to the time it takes in design and implementation. On the high end are short and frequently used applications, such as automated teller transactions, where performance is extremely critical.

With the Session Manager, UltraQuest is a proven solution for developing mid-range, transaction processing web applications and frequent ad-hoc requests where the resource requirements are such that response is almost completely a function of I/O delay (file + paging).

By eliminating unnecessary I/O delays, UltraQuest under the NSM is competitive with any other transaction-processing environment for mid-range applications, relative to response time. In addition, the UltraQuest application development environment dramatically reduces application design and implementation time over that currently required by transaction processing environments such as CICS.

Compare the programmer time required to code a simple query application between CICS and UltraQuest. The procedural code for a simple UltraQuest web application might take 10 or 20 lines. By contrast, the equivalent CICS program is considerably more complex. Typically, a CICS transaction requires one or two weeks of effort. The corresponding UltraQuest activity can be completed in an hour by an application developer whose experience is much less than the CICS programmer.

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