The Eniac Corp

FORTRA

Robot AutoTune

Automatic IBM i Performance Tuning and Monitoring

Tuning Excellence No Human Can Duplicate

You now can get the best possible performance from your IBM i—automatically with Robot Autotune. Robot Autotune tirelessly adjusts memory pool sizes and activity levels to give you maximum use of your IBM i resources. Simply tell Robot Autotune which type of work gets priority when memory contention occurs. Is it interactive, printing, or batch? Robot Autotune's ability to use tuning priorities is a critical feature that gives your users the service that they demand and deserve. Robot Autotune follows your instructions as it expertly tunes your system every 10 seconds using artificial intelligence techniques. It tunes your system quickly and efficiently—using only 15 seconds of CPU time per hour.

Reduce Systems Sluggishness With Dynamic Pools

Robot Autotune introduced the breakthrough concept of dynamic pools, which automatically isolate each batch job in its own memory pool as it is submitted. When the job finishes, the pool is removed. These dynamic pools reduce the impact that batch jobs have on your interactive users, while maximizing use of IBM i memory.

Eliminate Waiting On Job Queues

Robot Autotune even manages the operation of your job queues to ensure that jobs don't wait in queues forever. As job slots open up, Robot Autotune takes a job from each queue while rotating through the group. Then, as each job completes, a job in the next job queue in the group becomes eligible for processing. It continues through the entire group until all the jobs on all the queues have run.

PRODUCT SUMMARY

KEY FEATURES

- Partition tuning
- Performance problem prevention
- Dynamic pools
- Job queue prioritization
- Report on number of active job threads
- Set monitoring interval
- View data in graphs
- Memory Demand Report

INTEGRATIONS

- Robot Network
- Robot Alert
- Robot Schedule

SYSTEM REQUIREMENTS

IBM i 7.2 or higher

Improve Batch Job Efficiency

If batch jobs are allowed to run only in the *BASE pool or in pools with interactive or printing jobs, they will gobble up available CPU time and not let other jobs run properly. Similarly, two batch jobs running in the same pool will waste CPU time fighting each other for system resources. Batch jobs run faster and more efficiently if they run in their own pool with an activity level of one. However, no one has the time to watch batch jobs being submitted and make constant tuning adjustments. No one, that is, except Robot Autotune. Dynamic pools are especially effective at curbing those big batch job appetites. Tell Robot Autotune to manage your batch job queues, and it encloses each batch job in its own dynamic pool when the job starts. When the job finishes and there are no others to run, Robot Autotune will remove the dynamic pool. You can put priorities on each job queue so that jobs from one queue will run before jobs from another queue. Robot Autotune's dynamic pools will minimize the impact of batch jobs while improving throughput.

Get The Easy Solution To Domino Server Tuning

One of the advantages of using IBM i as a Domino server is the ability to have up to 99 servers running on the same machine. Each server runs in its own subsystem. This requirement is g reat for reliability and scalability, but it creates a performance tuning nightmare. However, tuning dozens of subsystems for maximum performance is a piece of cake for Robot Autotune. You can specify tuning priorities for each server subsystem to give some users performance priority over others. And, Robot Autotune automatically adjusts memory activity levels when large Domino server or web server jobs, which can spawn thousands of threads, threaten to cause system performance issues. Robot Autotune even reports the number of active threads so you can track the actual size and growth rate of your biggest jobs.

Tune Your Partitioned Systems, Too

If you are using logical partitions (LPARs) on a large IBM i system, you know that performance tuning assumes an even more important role when memory is moved back and forth between the partitions. Sometimes memory is moved by an operator; other times it's moved dynamically. Either way, you'll be glad to know that Robot Autotune adjusts to the change in resources and continues to expertly tune and monitor your systems for any partition.

You can enter percentage values of total system memory in the Robot Autotune pool size fields. As workloads change and memory is shifted, Robot Autotune accounts for the increased or decreased memory and tunes IBM i for optimal performance. And, Robot Autotune interfaces seamlessly with Robot LPAR software for IBM i partition tuning and monitoring.

Stop Interactive and Server Jobs From Devouring System Resources

When your users run batch jobs interactively from their workstations, they can overwhelm your system resources. Other kinds of interactive jobs that monopolize many CPU cycles include: programs in a loop, compiles, complex queries, and poorly-written applications that perform too many database accesses. Robot Autotune's solution to interactive batch job appetites is called interactive job tuning. At your option, Robot Autotune will monitor the CPU utilization percentage of each interactive job. If a job exceeds the threshold you set, Robot Autotune changes the priority of the job to that of a batch job. When the offending batch work finishes, Robot Autotune resets the job priority to the interactive level so that other work is handled normally. Tuning server and communication jobs is another strength of Robot Autotune. These types of jobs must be treated differently to achieve maximum throughput. Robot Autotune gives client/server applications the concentrated attention they require.

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