



Masterfully.

We bring LPAR together



MAKE THE MOST OF YOUR **iSERIES LPAR INVESTMENT!**

APRM®

Automatic Partition Resource Manager

by Barsa Consulting Group, LLC

APRM provides continuous, automatic resource tuning among OS/400 partitions on LPAR configured iSeries systems. APRM continually monitors memory, processor, and interactive activity, to ensure optimal resources are made available to every partition. Without operator intervention!

Thus, your iSeries server works more efficiently and smarter to achieve more without upgrading system resources.

OVERVIEW

Recent releases of the operating system for IBM® iSeries™ systems include the ability to consolidate servers through the use of logical partitions (LPAR). LPAR allows one physical server to be configured as if it were two or more servers. Configuration of LPAR includes defining the number of processors, amount of memory, and percentage of interactive CPW (Commercial Processing Workload) to be assigned to each partition.

A major challenge of logical partitions is to determine the proper allocation of processing resources among the partitions. Typically, each logical partition is created to perform specific tasks or serve a distinct group within the organization. Each partition will have its own unique set of processing resource requirements.

Monitoring performance may reveal that one partition is starved for processing resources while another has some to spare. Unfortunately, business operations are usually too complex to permit optimal resource distribution through manual or scheduled changes. Managing the configuration to ensure acceptable performance within every partition, throughout the day, can be overwhelming. Businesses that require maximum performance from their partitions are spending valuable time manually moving processing resources among partitions, or, worse yet, masking the problem by overspending on processing resources.

AUTOMATIC, CONTINUOUS BALANCING OF PROCESSING RESOURCES TO MAXIMIZE iSERIES PERFORMANCE

Automatic Partition Resource Manager (APRM) will bring harmony to your logical partition operating environment by automatically moving processing resources to those partitions that are showing distress in any of three areas: CPU utilization, interactive workload, or memory page faults.



TECHNICAL REQUIREMENTS

- ◆ iSeries server configured with a minimum of two logical partitions.
- ◆ The primary partition must be operating at OS/400 V5R1 or later.
- ◆ Automatic tuning is only available for partitions operating at OS/400 V5R1 or later.
- ◆ Secondary partition(s) that you wish to have APRM report workload statistics must be at OS/400 V4R5 or later.

FOR MORE INFORMATION, PLEASE CONTACT US

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QUICK, SIMPLE CONFIGURATION OF TUNING RULES

One convenience of APRM is the ease with which you are able to define tuning rules to manage your processing resources. APRM is simple to install, easy to customize to your operating requirements, and operates with minimal processing resources.

EFFICIENT USE OF PROCESSING RESOURCES AMONG PARTITIONS

Resource movement occurs when partition activity indicates a need, based on a combination of internally defined measurements of processing workload and client-configured resource allocation ranges and priorities - not just a temporary increase in resource utilization. APRM eliminates processing resources being underutilized and ensures resources are distributed based on priorities and need.

REDUCE COST OF OWNERSHIP FOR THE ISERIES SERVER

APRM operates seamlessly from the primary partition to monitor partition performance and, when necessary, move resources among partitions. By maximizing the use of processing resources across all partitions, APRM maximizes your iSeries LPAR investment.

MONITOR AND REPORT PARTITION WORKLOAD(S)

APRM collects workload statistics from each partition and analyzes it to determine if and when processing resources should be moved. APRM users can easily view current statistics through an Operations Navigator interface or OS/40 green screen. A history of resource demand and movement can be extracted and viewed as a graph or spreadsheet.

STRAIGHTFORWARD COMMAND INTERFACE TO SWITCH IOPs

Use of the APRM command interface to switch IOP resources among partitions provides a seamless method of sharing hardware resources such as tape or CD drives. Eliminate the need to grant access to or train operators in the use of Service Tool function.