

## HIGHLIGHTS

*ThruPut Manager AE now provides automated capacity management facilities in addition to its existing automation and optimization features. Installations using or considering sub-capacity pricing can now constrain or defer low importance batch as a peak approaches and resume normal service when it passes, generating significant monthly software savings with no impact to online service or mission critical batch.*

### Generate Real Savings

For intermediate-sized installations, monthly software fees can be \$500,000 to \$1,000,000 and up. We estimate these installations can save \$40,000 - \$80,000 per month using **ThruPut Manager AE** to manage their processor usage for yearly savings of up to \$1 million.

### Manage Processor Usage

Installations use IBM's sub-capacity pricing when they want to treat a CEC as smaller than it is, for the purposes of software pricing. This pricing model is based on the 4-hour rolling average, that is, the CPU usage averaged over the previous four hours. The software charges for the month are based on the highest 4-hour rolling average for the whole month.

**ThruPut Manager AE** continuously monitors the 4-hour rolling average for each LPAR and, optionally, LPAR group, comparing it to a "capacity target" which can be:

- the Defined Capacity for an LPAR, or
- the Group Limit for an LPAR Group, or
- a capacity target defined to **ThruPut Manager AE** when the installation does not use soft-capping.

When the 4-hour rolling average approaches the capacity target, **ThruPut Manager AE** automatically constrains or defers lower importance batch as specified by the installation, and correspondingly relaxes these constraints as the average decreases.

### Specifying Workload Constraints

For each subset of batch workload identified to **ThruPut Manager AE**, the installation specifies limits by capacity threshold for the number of executing jobs, length of time in queue before a job can be selected,



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THE LEADER IN END-TO-END BATCH AUTOMATION



or assigns a service class to the job that limits the processor consumption. **ThruPut Manager AE** automatically takes the requested actions to reduce or eliminate the contribution of low importance batch workload to the peak value of the 4-hour rolling average.

### **Savings For All Installations**

The automated capacity management facilities of **ThruPut Manager AE** provide savings for all installations that use sub-capacity pricing, whether or not they have implemented IBM's soft capping. Using either the soft capping limit, or a capacity target defined directly to **ThruPut Manager AE**, lower importance batch load is automatically constrained, ensuring that only online and other high importance work contribute to the peaks.

### **The Leader in End-to-End Batch Automation**

These automated capacity management features are available with **ThruPut Manager AE** – the leader in end-to-end batch automation. It optimizes and automates the total z/OS JES2 batch workload, managing every job from submission to end of execution, incorporating best practices and modernizing today's dynamic and complex mainframe batch environment.

**ThruPut Manager AE** is a radical leap in datacenter automation technology. It delivers year-on-year datacenter savings while simplifying the datacenter environment and enhancing service to batch users.

### **Prerequisites**

- **ThruPut Manager AE**
- z/OS 1.10 or higher

### **Reference**

- [ThruPut Manager AE Product Overview](#), MVS Solutions, April 2010.
- [z/OS Planning for Sub-Capacity Pricing](#), SA22-7999-06, IBM Corporation, 2010.

*Only certain highlights of **ThruPut Manager AE** have been discussed in this document. For further information, please contact us.*

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