IBM Tivoli Performance Modeler for z/OS Delivers Capacity Planning to Help Manage IBM @server 
zSeries and System/390

Overview
IBM Tivoli® Performance Modeler for z/OS™ is a PC-based performance modeling and capacity planning tool that runs on Windows® — a new option for system management on the zSeries and System/390®.

In the S/390® environment, the primary benefits of PC-based performance modeling:

• Allow you to review the impact of workload changes on your current S/390 environment as well as future processor types
• Free mainframe time and expense in performing capacity planning tasks
• Examine what-if scenarios without the expense of running actual scenarios
• Predict the impact of hardware and software changes
• Use sophisticated simulation techniques for a high degree of accuracy
• Indicate current processor utilization against processor capacity
• Predict when increased processor capacity will be required
• Allow graphing of workload performance
• Provide integration with familiar spreadsheet tools such as Lotus® 1-2-3® and Excel

Performance modeling is now as portable as your PC or laptop.

With growing operating system complexity and the huge impact of responding to workloads, basic CPU utilization is no longer enough. Performance Modeler can model:

• Logical partitioning (LPAR) definitions and parameter changes

Advantages
Performance Modeler enables you to plan for acceptable levels of computing while managing your IT costs. You define your acceptable limits on response times, level of workloads, and service available to the end user using:

• Tracking and reporting function: Capture and report resource usage, including historical charts for trend analysis.
• Workload characterization and priority: You decide the level of aggregation for data reporting.
• End-to-end performance modeling that spans zSeries and S/390.
• Modeling input data manually entered or captured from other tools (RMF™, CMF).
• Fast, efficient simulation techniques.
• An easy-to-use interface with a clear link between the data you input and the resulting reports.

Bottom line: With good data, you make better decisions.

Key Prerequisites
• Any PC that runs Windows/98, or later (recommend 300 MHz or greater)
• IBM z/OS Resource Measurement Facility (RMF), or equivalent software (such as CMF MONITOR from BMC Software)
• Excel or Lotus 1-2-3 spreadsheet

At a Glance
PC-based capacity planning and performance modeling for OS/390® or z/OS-based mainframe computers:

• Optimize mainframe system resource
• Deliver optimum service for customer/user satisfaction
• Enter a proactive mode of planning or predicting:
  - Additional or new workloads
  - Future upgrades and other long-term system capacity requirements
• Gather/report on day-to-day workload data
• Model “what-if” versus actual scenarios

For ordering, contact:
Your IBM representative, an IBM Business Partner, or IBM Americas Call Centers at 800-IBM-CALL

Reference: LE001

Planned Availability Date
September 6, 2002

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IBM United States IBM is a registered trademark of International Business Machines Corporation.
Model Input and Output: Performance Modeler can model nearly every hardware and software change you could make.

It is a powerful tool in helping you analyze “what-if” scenarios. For example, it can model the effects of:

- Changing hardware configuration
- Changing logical partition (LPAR) mode parameters, including the number of logical CPUs per LPAR and any weighting factors
- Changing the growth rate of workloads

The input definitions are specified on three easy-to-understand screens:

- Configuration screen
- Workload activity screen
- LPAR definition screen

As you build and calibrate your capacity planning model, you can capture numeric or text data. If you accumulate weekly reports, several weekly reports can be merged to produce a monthly report, and so on.

An output metric is the performance of each workload modeled:

- For online workloads —the average response time (in seconds)
- For batch workloads —the average elapsed time

Graphing Workload Performance: While the simulator is running, you can see a graphical picture of workload performance. You can choose up to four workloads from a panel of 20 workloads to display in a continuously updated line graph.

Section 508 of the U.S. Rehabilitation Act

IBM Tivoli Performance Modeler is capable as of September 6, 2002, when used in accordance with IBM’s associated documentation, of satisfying the applicable requirements of Section 508 of the Rehabilitation Act, provided that any assistive technology used with the product properly interoperates with it.

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Offering Information

Product information will be available through Offering Information (OITOOL) at:

http://www.ibm.com/common/ssi

Publications

Hardcopy product publications are not shipped with this program. The IBM Tivoli Performance Modeler Install/User Guide is softcopy and available on the product media.

The Publications Notification System (PNS) is available by order number/product number. Customers currently subscribing to PNS will automatically receive notifications by e-mail. Customers who wish to subscribe, can visit the PNS Web site location at:


The IBM Publications Center Portal:

http://www.ibm.com/shop/publications/order

The Publications Center is a worldwide central repository for IBM product publications and marketing material with a catalog of 70,000 items. Extensive search facilities are provided, as well as payment options via credit card. Furthermore, a large number of publications are available online in various file formats, which can currently be downloaded free of charge.

Note that PNS subscribers most often order their publications via the Publications Center.

Displayable Softcopy Publications: IBM Tivoli Performance Modeler for z/OS Install/User Guide is offered in displayable softcopy form. This is the only manual required to install and operate this product. The displayable manuals are part of the basic machine-readable material with no-charge feature number 5809. The files are shipped on the same media type as the basic machine-readable material CD-ROM.

These displayable manuals are provided in both BookManager® and Adobe Acrobat PDF formats. The manuals can be used with the BookManager READ licensed programs or Adobe Acrobat in any of their supported environments. Terms and conditions for use of the machine-readable files are shipped with the files.

Technical Information

Specified Operating Environment

Hardware Requirements

- Any IBM mainframe system capable of running one of the required MVS operating systems
- A PC capable of running one of the supported Windows versions, 300 MHz, or greater, recommended

Software Requirements

On the mainframe system to be configured:

- One of the following MVS operating systems:
  - z/OS (5694-A01)
  - OS/390® (5647-A01)
- IBM z/OS Resource Measurement Facility (RMF™), or CMF MONITOR from BMC Software

On the workstation machine on which the tool will run:

- One of the following supported Windows versions:
  - Windows 98
  - Windows 2000
  - Windows NT®
  - Windows XP
- One of the following spreadsheet products to graph modeling:
  - Excel
  - Lotus® 1-2-3®

Planning Information

Packaging

IBM Tivoli Performance Modeler is distributed with:

- International Program License Agreement (IPLA) (Z125-3301)
- CD-ROM containing program and softcopy publications

Security, Auditability, and Control

IBM Tivoli Performance Modeler uses the security and auditability features of the operating system software.

The customer is responsible for evaluation, selection, and implementation of security features, administrative procedures, and appropriate controls in application systems and communication facilities.
Ordering Information

**New Licensees:** Orders for new licenses will be accepted now. Shipment will begin on the planned availability date.

**Basic License**

**IBM Tivoli Performance Modeler for z/OS (5655-J63)**

<table>
<thead>
<tr>
<th>Description</th>
<th>OTC Feature Number</th>
<th>Media Feature Number</th>
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<tbody>
<tr>
<td>IBM Tivoli Performance Modeler for z/OS, V1.1 per Processor with 1-Year Software Maintenance</td>
<td>0001</td>
<td>5809</td>
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**Trade-up**

A Trade-up from the MVS USS Tool Kit V1.1.0 (5799-GHZ), the predecessor product, is available. You may trade-up each USS Tool Kit license to the Performance Modeler product using the feature number below.

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**1-Year Software Maintenance (5655-J64)**

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**3-Year Software Maintenance (5655-J69)**

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**OTC = One-Time Charge**

**Basic Machine-Readable Material:** The distribution media features in the following table apply to program numbers 5655-J63, 5655-J64, and 5655-J69. To order, select the distribution medium feature for the desired program number.

<table>
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<th>Language</th>
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<tr>
<td>English</td>
<td>5809</td>
<td>CD-ROM</td>
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</table>

**Terms and Conditions**

**Agreement:** IBM IPLA, IBM International Agreement for Acquisition of Programs and Support (IIAAPS) and the IBM Attachment for Support, IBM Agreement for Acquisition of Support (IAAS), IBM Addendum for Support (Software Maintenance) for Selected Programs (Z125-6495), and an order form.

**Transferable:** Yes, except for programs acquired at a discount or allowance

**Limited Warranty Applies:** Yes

**Guarantee:** 30 day money-back guarantee

**Usage Restriction:** Yes. Usage is limited to the quantity of processors licensed.

**Volume Offering (IVO):** No

**Upgrade Protection Applies:** Covered as long as Software Maintenance is in effect

**Educational Allowance Available:** Yes, to qualified education institution customers

Percentage — 15%

**Licensed Program Materials Availability**

- Restricted Materials of IBM: None
- Non-Restricted Source Materials: None
- Object Code Only (OCO): All

**Maintenance Applies**

- Software Maintenance for IBM Tivoli products: No

**Complementary Introductory Support:** Not available

**Program Services and End of Support:** Available until September 30, 2004

**Software Maintenance:** IBM will make available to you the most current commercially available version, release, or update to all of the programs you acquire under this Agreement, should any be made available. IBM provides you assistance for your (1) routine, short duration installation and usage (how-to) questions; and (2) code-related questions. IBM provides assistance via telephone and, if available, electronic access, only to your information systems (IS) technical support personnel during the normal business hours (published prime shift hours) of your IBM Support Center. (This assistance is not available to your end users.) IBM provides Severity 1 assistance 24 hours a day, every day of the year. Consult your IBM Software Support Guide for details.

Software Maintenance does not include assistance for (1) the design and development of applications, (2) your use of programs in other than their specified operating environment or (3) failures caused by products for which IBM is not responsible under this Agreement.

- Support Center Applies — Yes, access is available through the IBM Support Center, 800-237-5511.
- Availability of Software Maintenance:
  - The first year of Software Maintenance is included with the license at no additional charge. The first year starts when the product is shipped to the customer. For a fee, Software Maintenance can be extended until three years from the date of license acquisition.
Software Maintenance is available for a one-year and three-year renewal for a fee as part of the IAAS, IIAAPS, or any equivalent agreement.

- Software Maintenance is available until — Twelve months after announcement of product discontinuance, (that is, end of life [EOL])
- Software Maintenance is applicable to — The current release
- APAR Mailing Address:
  IBM
  11400 Burnet Road
  Austin, TX 78758
  Attention: Product Development

IBM Operational Support Services — Support Line: No

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**Prices**

**IBM Tivoli Performance Modeler for z/OS (5655-J63)**

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<tr>
<td>After-License</td>
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<td>79,100</td>
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Order Now

Use Priority/Reference Code: LE001

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      P.O. Box 2690
      Atlanta, GA 30301-2690

You can also contact your local IBM Business Partner or IBM representative. To identify them, call 800-IBM-4YOU.

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