IMS Performance Analyzer Provides Enhanced Full Function and Fast Path Support

Overview

The IMS™ Performance Analyzer Version 2 (IMS PA) adds new features and functions that can help provide you with the information needed to manage IMS resources and system performance. IMS PA provides more than 30 reports to meet a broad range of IMS systems analysis objectives. These reports can help optimize IMS system and application performance.

IMS PA can help:

- Improve transaction response times
- Improve message region and queue use
- Improve buffer pool usage
- Increase the productivity of system and application programmers
- Reduce the need to run IMS utilities
- Provide ongoing system management and measurement reports

IMS PA Version 2 provides enhancements to existing functions and adds support for the IMS Fast Path environment.

IMS PA Version 2 includes:

- An easy-to-use ISPF user interface
- Improved reporting capabilities
- New support for Fast Path
- New support for IMS Monitor Reports (DFSUTR20 and DFSUTR30)
- Support for IMS Version 5, 6, and 7, from a single load library

IMS PA Version 2 helps provide more of the information you need to better manage IMS performance and resource. Upgrade today.

Key Prerequisites

IMS PA supports the IMS Version 5, 6, and 7 operating environments.

Planned Availability Date

May 26, 2000

At a Glance

IMS Performance Analyzer (IMS PA) Version 2 provides:

- All the features and functions of IMS PA Version 1
- IMS Version 5, 6, and 7 support
- New IMS V7 Fast Path Monitor record support
- New Monitor reports for DFSUTR20 and DFSUTR30
- New Fast Path Log reports
- DBRC RECON support
- OTMA and Implicit APPC support
- Revised and improved documentation

For ordering, contact:
Your IBM representative, an IBM Business Partner, or IBM Americas Call Centers at 800-IBM-CALL
Reference: LE001
IMS Performance Analyzer (IMS PA) is fast becoming the standard for IMS resource and performance management. IMS PA provides a wide variety of performance, usage, and availability reports that can help analyze IMS system performance and IMS application behavior. The IMS PA combines the features and functions of predecessor programs with new reports and features to further improve the information delivered and make it easier to analyze.

IMS PA Version 2 provides the following new features and functions:

**IMS V7 Support**
IMS V7 support for all Log and Monitor reports

**New IMS V7 Fast Path Monitor Record Support**
Region Summary and Detail report enhancements:
- Transaction and schedule information for IFP regions
- EMH, DEDB, and MSDB DLI call information
- Region and Jobname summary

Program Summary and Detail report enhancements:
- IFP Program and Transaction analysis
- EMH, DEDB, and MSDB DLI call information
- Application groups can include IFP program names

Database IWAIT report enhancement:
- DEDB and MSDB IWAIT activity
- DD Groups can include DEDB and MSDB databases

Total System IWAIT report enhancements:
- DEDB Read, Write, and Lock activity
- MSDB Write activity
- IWAITS for IFP regions

Program Analysis report enhancements:
- PSB details for IFP programs
- PCB details for EMH, DEDB, and MSDB DLI calls

Program Trace report enhancements:
- IFP region schedule and transaction activity
- EMH, DEDB, and MSDB DLI call activity

New Fast Path Analysis reports:
- Fast Path Buffer usage
- BALG and shared EMHQ activity
- OTHREAD activity
- VSO activity, including Preload, DASD I/O, Castout, and CF Activity
- Resource Contention, including DEDB Area Lock IWAIT activity

**New Monitor Reports**

**DFSUTR20 reports:**
- Buffer Pool and Latch Statistics
- Communication reports
- MSC reports

**DFSUTR30 reports:**
- Batch VSAM Statistics

**Performance Exception report enhancements:**
- Exception Listing has been improved to accept exception condition thresholds from the online interface or batch command directly, removing the reliance on distributions
- New Intent failure summary
- New Pool Space failure summary
- New Deadlock Event summary, for Full Function and DEDB databases

**Monitor Record Trace:**
- Formats monitor records into a trace style report

**New External Subsystem report:**
- Summarizes the call activity of the external subsystems used by IMS programs

**New Fast Path Log Reports**
New comprehensive suite of Fast Path Log reports, including:
- IFP Transit reporting, similar to the full function Transit reports
- Equivalent DBFULTA0 reporting, including Extracts
- IFP Region Occupancy
- EMH Message Statistics
- FP Resource Usage and Contention
- FP Database Call Statistics
- DEDB Update Activity and Trace
- VSO Statistics

**DBRC Recon Support**
Log input files can now be automatically selected from your DBRC RECONs.

**OTMA and Implicit APPC Support**
Transaction Transit and Management Exception Log reports now support OTMA and Implicit APPC transactions.

**Documentation**
IMS PA User Guide split into two manuals:
- User Guide
- Report Analysis

IMS PA provides non-intrusive monitoring facilities based on existing data sources, largely the existing IMS log. It does not incur any additional performance overhead on a running system in order to produce its statistics. The online Interface provides extensive help capabilities, including a description of each report and its usage.

IMS PA helps provide the information needed to effectively analyze IMS system performance. Combined with other IBM high-performance IMS tools, IMS PA can help improve IMS system performance and database availability. Can you afford to be without it?

**Year 2000**
This product does not have date dependencies and is Year 2000 ready.

**Euro Currency**
This program is not impacted by euro currency.
Hardware and Software Support Services

SmoothStart™ /Installation Services

IBM SmoothStart or Installation Services will not be provided for the IMS Performance Analyzer.

Trademarks

IMS and SmoothStart are trademarks of International Business Machines Corporation in the United States or other countries or both.
Other company, product, and service names may be trademarks or service marks of others.
Technical Information

Specified Operating Environment

Hardware Requirements: The IMS Performance Analyzer (IMS PA) operates on any hardware supporting IMS Version 5, 6, or 7.

Software Requirements: IMS PA operates with the following IMS versions and requires SMP/E Version 1 (5668-949) for installation:
- IMS Version 5 (5695-176)
- IMS Version 6 (5655-158)
- IMS Version 7 (5655-B01)

Security, Auditability, and Control

The announced program uses the security and auditability features of the supported IMS and/or MVS systems. The customer is responsible for evaluation, selection, and implementation of security features, administrative procedures, and appropriate controls in application systems and communication facilities.

Customer Financing

IBM Global Financing offers attractive financing to credit-qualified commercial and government customers and Business Partners in more than 40 countries around the world. IBM Global Financing is provided by the IBM Credit Corporation in the United States. Offerings, rates, terms, and availability may vary by country. Contact your local IBM Global Financing organization. Country organizations are listed on the Web at:

http://www.financing.ibm.com

Ordering Information

New Licensees

Orders for new licenses can be placed now.

Shipment will not occur before the availability date.

Unless a later date is specified, orders entered before the planned availability date will be assigned a schedule date of one week following availability.

Shipment will begin on the planned availability date.

Orders entered after the planned availability date will be assigned a schedule date for the week following order entry.

New users of IMS PA should specify:

<table>
<thead>
<tr>
<th>Type</th>
<th>Model</th>
</tr>
</thead>
<tbody>
<tr>
<td>5697</td>
<td>F02</td>
</tr>
</tbody>
</table>

Basic License: There is no Early Support Plan for this product.

Entry Support License (ESL): To order an ESL, specify the program number, feature number 9001 for asset registration, and the applicable ESL one-time charge (OTC) feature number. Also specify the feature number of the desired distribution medium.

<table>
<thead>
<tr>
<th>Program Number/Charge Description</th>
<th>Feature Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>5697-F02, IMS Performance Analyzer</td>
<td>0018</td>
</tr>
</tbody>
</table>

ESL machines can be determined by referring to the IBM Entry End User/390 Attachment (Z125-4379).

Parallel Sysplex® License Charge (PSLC) Basic License:

To order a basic license, specify the program number and feature number 9001 for asset registration. Specify the PSLC Base feature. If applicable, specify the PSLC Level A, B, C, and D features and quantity.

If there is more than one program copy in a Parallel Sysplex, the charge for all copies is associated to one license by specifying the applicable PSLC feature numbers and quantity represented by the sum of the Service Units in Millions (MSUs) in your Parallel Sysplex. For all other program copies, specify the PSLC No-Charge (NC) Identifier feature on the licenses.

Also, specify the feature number of the desired distribution medium.

<table>
<thead>
<tr>
<th>Machine MSU Capacity</th>
<th>PSLC Feature Number</th>
<th>PSLC Basic License MLC Feature Number</th>
<th>Description</th>
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<tbody>
<tr>
<td>1</td>
<td>0001</td>
<td>PSLC Base, 1 MSU</td>
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<tr>
<td>2</td>
<td>0002</td>
<td>PSLC Base, 2 MSUs</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>0003</td>
<td>PSLC Base, 3 MSUs</td>
<td></td>
</tr>
<tr>
<td>4 — 45</td>
<td>0004</td>
<td>PSLC Level A, 1 MSU</td>
<td></td>
</tr>
<tr>
<td>46 — 175</td>
<td>0005</td>
<td>PSLC Level A, 42 MSUs</td>
<td></td>
</tr>
<tr>
<td>46 — 175</td>
<td>0006</td>
<td>PSLC Level B, 1 MSU</td>
<td></td>
</tr>
<tr>
<td>46 — 175</td>
<td>0007</td>
<td>PSLC Level B, 10 MSUs</td>
<td></td>
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<tr>
<td>46 — 175</td>
<td>0008</td>
<td>PSLC Level B, 50 MSUs</td>
<td></td>
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<tr>
<td>176 — 315</td>
<td>0009</td>
<td>PSLC Level C, 1 MSU</td>
<td></td>
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<tr>
<td>176 — 315</td>
<td>0010</td>
<td>PSLC Level C, 10 MSUs</td>
<td></td>
</tr>
<tr>
<td>176 — 315</td>
<td>0011</td>
<td>PSLC Level C, 50 MSUs</td>
<td></td>
</tr>
</tbody>
</table>

This announcement is provided for your information only. For additional information, contact your IBM representative, call 800-IBM-4YOU, or visit the IBM home page at: http://www.ibm.com.
Example 1: For a single machine with 11 MSUs, the PSLC features would be:
- 0003 — quantity 1
- 0004 — quantity 8

Example 2: For two machines in a Parallel Sysplex, which have an aggregation of 60 MSUs, the PSLC features would be:

PSLC chargeable license #1:
- 0003 — quantity 1
- 0005 — quantity 1
- 0006 — quantity 5
- 0007 — quantity 1

PSLC no-charge license #2:
- 0014 — quantity 1

Single Version Charging: To elect single version charging, the customer must notify IBM and identify the prior program and replacement program and the designated machine the programs are operating on.

Growth Opportunity License Charge (GOLC): To order a Multiprise® 3000, specify the program number, feature number 9001 for asset registration, and the GOLC monthly charge feature number from the table below. Also, specify the feature number for the desired distribution medium.

Multiprise 3000 Model | GOLC Feature Number
--- | ---
H30 | 0015
H50 | 0016
H70 | 0017

Basic Machine-Readable Material

Environment | Feature Number | Distribution Medium
--- | --- | ---
IMS Performance Analyzer | 5801 | 9/6250 bpi tape
IMS Performance Analyzer | 5802 | 3480 cartridge
IMS Performance Analyzer | 5042 | 4-mm cartridge

Customization Options: Select the appropriate feature numbers to customize your order to specify the delivery options desired. These features can be specified on the initial or MES orders.

Example: If publications are not desired for the initial order, specify feature number 3470 to ship media only. For future updates, specify feature number 3480 to ship media updates only. If, in the future, publication updates are required, order an MES to remove feature number 3480; then, the publications will ship with the next release of the program.

Unlicensed Documentation: A program directory and one copy of the following publications are supplied automatically with the basic machine-readable material.

<table>
<thead>
<tr>
<th>Title</th>
<th>Order Number</th>
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<tbody>
<tr>
<td>IMS Performance Analyzer User’s Guide</td>
<td>SC26-9689</td>
</tr>
<tr>
<td>IMS Performance Analyzer Report Analysis</td>
<td>SC27-0705</td>
</tr>
<tr>
<td>IMS Performance Analyzer Licensed Program Specification</td>
<td>GC26-9690</td>
</tr>
</tbody>
</table>

Additional copies of unlicensed publications are available for a fee immediately. These copies may be ordered from your IBM representative, through the Publication Notification System (PNS), or by direct order.

Subsequent updates (technical newsletters or revisions between releases) to the publications shipped with the product will be distributed to the user of record for as long as a license for this software remains in effect. A separate publication order or subscription is not needed.
Terms and Conditions

**Agreement:** IBM Customer Agreement

**Variable Charges Apply:** No

**Indexed Monthly License Charge (IMLC) Applies:** No

**Location License Applies:** No

**Use Limitation Applies:** No

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

**Volume Orders:** Not applicable

<table>
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<th>Replaced Program Number</th>
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<tr>
<td>5697-B89</td>
<td>IMS Performance Analyzer V1</td>
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<td>IMS Performance Analyzer V2</td>
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<tr>
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<td>IMS Performance Analyzer V2</td>
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<td>To a follow-on if any</td>
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**Warranty Applies:** Yes

**Licensed Program Materials Availability**

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

**Testing Period:** Two months (basic license only)

**Program Services**

- **Support Center Applies:** Yes. Access is available through the IBM Support Center.
- **Available until Discontinued:** Twelve months’ written notice.
- **APAR Mailing Address:**
  IBM Corporation
  555 Bailey Ave
  San Jose, CA 95141

**Support Line:** Yes

### Charges

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<th>Description</th>
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<th>Basic One-Time Charge</th>
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<td>H30</td>
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<td>600</td>
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<td>90</td>
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<td>0011</td>
<td>450</td>
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<tr>
<td>PSLC Level D, 50 MSUs</td>
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<td>0013</td>
<td>350</td>
</tr>
</tbody>
</table>

**Entry Support License OTC:** An OTC authorizes use only on IBM Entry End User/390 Machines.
Use Priority/Reference Code: LE001

Phone: 800-IBM-CALL
Fax: 800-2IBM-FAX
Internet: ibm_direct@us.ibm.com
Mail: IBM Atlanta Sales Center
      Dept. LE001
      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.

Note: Shipments will begin after the planned availability date.

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Year 2000 Readiness Disclosure