



# IBM DB2 and IMS tools expanded and enhanced to help better manage database environments

## Overview

Two new products and two new versions offer many innovative features to assist database administrators (DBAs) and system programmers in managing aspects of DB2® and IMS™ database environments.

## Products

- DB2 Cloning Tool for z/OS®, V1.1 (5655-N10) makes it easier to quickly clone a DB2 subsystem by automatically using IBM FlashCopy® or STK SnapShot or by using any volume level fast replication or splits of continuous mirror tools.
- DB2 Recovery Expert for z/OS, V1.1 (5697-H74) provides a simple, self-managing recovery solution that enables database recovery operations with minimal disruption. Features provide intelligent analysis of altered, incorrect, or missing database assets, including table spaces, tables, indexes, and data. Recovery Expert also automates the process of rebuilding these assets to a specified point in time, often without taking the database or the business operations offline. All of these features are accessible through an easy-to-use GUI interface.

Trade-ups are available from DB2 Object Restore for z/OS, V2.1 (5697-I20).

## Versions

- IMS Performance Analyzer for z/OS, V4.1 (5655-R03) provides a wide variety of performance, usage, and availability reports. IMS Performance Analyzer has become the standard for IMS resource and performance management.

- IMS Problem Investigator for z/OS, V2.1 (5655-R02) enables IMS systems and application programmers to interrogate and determine problems with IMS Transaction Manager and IMS Database Manager systems. Its ISPF dialog interface enables these programmers to interactively navigate, investigate, and analyze IMS log and monitor records, IMS Common Queue Server (CQS) log records, and IMS Connect event data. IMS Problem Investigator also features batch reporting capabilities.

To view a complete list of the DB2 and IMS tools, visit

<http://www.ibm.com/software/data/db2imstools>

## Key prerequisites

Any hardware configuration that supports the required versions of DB2 and IMS. Details are listed in the **Hardware requirements** and **Software requirements** sections.

## Planned availability dates

- June 9, 2006
  - DB2 Cloning Tool for z/OS, V1.1 (5655-N10)
  - IMS Performance Analyzer for z/OS, V4.1 (5655-R03)
  - IMS Problem Investigator for z/OS, V2.1 (5655-R02)
- July 14, 2006: DB2 Recovery Expert for z/OS, V1.1 (5697-H74)

## At a glance

New and enhanced DB2 and IMS tools deliver:

- Performance management
  - IMS Performance Analyzer for z/OS, V4.1 (5655-R03)
  - IMS Problem Investigator for z/OS, V2.1 (5655-R02)
- Recovery management
  - DB2 Recovery Expert for z/OS, V1.1 (5697-H74)
- Utilities
  - DB2 Cloning Tool for z/OS, V1.1 (5655-N10)

### For ordering, contact:

Your IBM representative, an IBM Business Partner, or the Americas Call Centers at

**800-IBM-CALL**

Reference: LE001

*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>.*

---

## Description

---

IBM offers more than 70 tools that feature common interfaces and cross-tool integration, tested under the same configurations and workloads as the databases they support. As we enter the era of autonomic computing, DB2 and IMS tools will become increasingly self-managed in terms of dynamically monitoring and managing data, and taking responsibility for decision making and initiating action.

### *Performance management*

**IMS Performance Analyzer for z/OS, V4.1 (5655-R03)** provides a wide variety of performance, usage, and availability reports. IMS Performance Analyzer has become the standard for IMS resource and performance management and can help:

- Analyze transaction response time
- Measure the usage and availability of important resources, including databases, programs, regions, buffers (including database), and queues (message and other internal queues)
- Plan for the operational management of IMS, including the scheduling of database re-orgs, monitoring adherence to service levels, charge-back accounting, and capacity planning
- Monitor significant system events like system and batch message processing (BMP) checkpoints and deadlocks that can adversely affect system performance and availability
- Boost system and application programmer productivity
- Report critical performance information at the required level of detail — from high-level management summaries and graphical reports to detailed traces for in-depth analysis
- Analyze the impact of IMS Connect on transaction performance

#### **New features and enhancements include:**

- Increased accuracy and flexibility with form-based transaction transit reports

In addition to the existing transit reports, a new suite of form-based transit reports lets you customize report content and format. You can:

- Use Report Forms to tailor the contents of transit reports to include only required metrics or summarize information according to your requirements
- Design your own transit reports using the Report Forms editor (no programming required)
- Request up to 30 different form-based reports in a single job run
- Use form-based transit reports for both IMS log and IMS Connect reporting
- Use IMS log transaction transit reporting to provide:
  - More accurate transit times by exploiting additional log record types
  - Microsecond precision for all elapsed times
  - Additional transit performance indicators and resource usage metrics

- Consolidated IMS Connect and IMS log transit reporting

The reporting for IMS Connect Extensions for z/OS (5655-K48) event data now provides end-to-end IMS Connect and IMS log reporting. The new Connect Transit reports provide a complete picture of the lifecycle of transactions as they pass through IMS Connect and IMS.

- View Connect event latencies and IMS transaction processing metrics including queue times, CPU, and database resource usage statistics are available in a single report.
- Report Forms allows you to tailor the contents of Connect transit reports to include only required metrics or summarize information according to your requirements.
- The Connect Event Trace can include IMS Connect and IMS Log records in a single report, providing a complete end-to-end transaction lifecycle picture.

- Enhanced log reporting

Enhancements to IMS Performance Analyzer log reports include:

- Transaction Resource Usage report orders by program name for DBCTL.
- Database Update Activity report optionally orders by database and program.
- Message Queue Utilization report optionally shows only enqueued messages.
- Fast Path Buffer Usage report substitutes job name for routing code for BMPs.
- Deadlock Summary report enhanced to more levels of detail.
- System Checkpoint report provides a distribution of checkpoint activity.

- DBRC Log Selection

DBRC Log Selection provides the following new enhancements:

- Use of the IMS V9 DBRC RECON API in place of the DBRC utility DSPURX00
- Optional selection of OLDS data sets when no SLDS data sets are available for up-to-date report requests

- Dialog enhancements

ISPF dialog enhancements include support for:

- New Report Forms that allow you to tailor the format of transit reports to suit your personal reporting requirements
- Groups that can include Connect systems to allow combined IMS Connect and Log reporting
- Log Report Set that provides a suite of new form-based transit reports
- Connect Report Set to provide a suite of new form-based transit reports and the ability to combine Connect and IMS log information in a single report

**IMS Problem Investigator for z/OS, V2.1 (5655-R02)** enables IMS systems and application programmers to interrogate and determine problems with IMS Transaction

Manager and IMS Database Manager systems. Its ISPF dialog interface enables these programmers to interactively navigate, investigate, and analyze IMS log and monitor records, IMS CQS log records, and IMS Connect event data. IMS Problem Investigator also features batch reporting capabilities.

New features and enhancements allow you to:

- Merge several log files into a single logical view in the dialog. This gives a complete end-to-end picture of transaction lifecycles across IMS Connect, IMS Log, IMS Monitor, and CQS log files.
- Track and display only those records that are associated with a selected transaction to gain a clear picture of that transaction.
- Develop and run REXX scripts to analyze log records and provide customized reporting. All field-level information displayed in the dialog is available to the REXX scripts.
- Filter log records using selection criteria and simultaneously track all other records associated with their transactions using the ISPF dialog as well as batch.
- Determine transaction times and event latencies through the ISPF dialog.
- Get insight into problems with improved log record description and additional global fields.
- Diagnose more effectively with detailed Open Transaction Manager Access and Resource Recovery Service trace reporting.

IMS Problem Investigator complements IMS Performance Analyzer for z/OS for enhanced log analysis and reporting. The result is improved productivity for problem analysts, more efficient IMS application performance, and higher system availability.

### ***Recovery management***

**DB2 Recovery Expert for z/OS, V1.1 (5697-H74)** contains many of the recovery functions of DB2 Object Restore for z/OS, V2.1 plus much more. Trade-ups are available from DB2 Object Restore to DB2 Recovery Expert.

The new product provides a simple, self-managing recovery solution that enables database recovery operations with minimal disruption. Features provide intelligent analysis of altered, incorrect, or missing database assets, including table spaces, tables, indexes, and data. Recovery Expert also automates the process of rebuilding these assets to a specified point in time, often without taking the database or the business operations offline. All of these features are accessible through an easy-to-use GUI.

#### **Key features**

DB2 Recovery Expert:

- Includes a straightforward, easy-to-use GUI interface for the z/OS environment
- Intelligently assists with determining the fastest and least costly technique for a recovery situation
- Supports DB2 object types that are stored in the DB2 catalog, including database, table space, and tables
- Recovers database objects without resorting to resource-intensive disaster recovery
- Restores complete object structure and data to a desired prior state

- Intelligently identifies related objects and provides recovery options to restore groups of objects
- Restores dropped objects and related dependencies, even if they no longer exist in the DB2 catalog
- Precisely rolls back unwanted data changes throughout a database
- Given an object to be recovered, makes recovery to a point in time simple, including rolling data changes backward or forward
- Simplifies otherwise complex and laborious operations, such as reversing undesired data changes (even those that have cascaded to related tables) or rebuilding valuable database assets dropped during routine development or maintenance
- Reliably handles and maintains logical structures essential to database integrity
- Rebuilds the structure of dependent objects when an object higher in the hierarchy is restored
- Uses log analysis to determine periods of time during which there is no activity for an object or set of objects
- Saves recovery and log analysis specifications for later use or continual reuse
- Enables JCL review, correction, and restart for the failed recovery if an error occurs during the recovery process

### ***Utilities management***

**DB2 Cloning Tool for z/OS, V1.1 (5655-N10)** makes it easier to quickly clone a DB2 subsystem by automatically using IBM FlashCopy or STK SnapShot or by using any volume level fast replication or splits of continuous mirror tools.

The cloned DB2 subsystem can be accessed from the same z/OS system. Productivity is improved in several ways:

- Significantly reducing your production online downtime and the costs associated with cloning a DB2 subsystem with traditional tools.
- Allowing you to provide more availability and services, because DB2 no longer needs to be shut down or conditioned in the long, traditional way.
- Reducing the time your personnel need to clone a DB2 subsystem. What used to take hours or days now takes minutes.
- Allowing you to manage larger storage environments with the same staff.
- Providing quicker throughput and faster turnaround times.
- Providing virtually 24 x 7 access to your data.
- Quickly creating quality assurance and test environments.

### ***Section 508 of the U.S. Rehabilitation Act***

The products in this announcement are capable as of their planned availability, 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.

## **Value Unit-based pricing**

Value Unit pricing for eligible zSeries® IPLA programs enables a lower cost of incremental growth and enterprise aggregation. Each zSeries IPLA product with Value Unit pricing has a single price per Value Unit and a conversion matrix, called Value Unit Exhibit, for converting from some designated measurement to Value Units. Most commonly, Millions of Service Units (MSUs) is the measurement designated by IBM to be converted to Value Units. Some other measurements are engines or messages. Since MSUs are the most common measurement, that measurement will be used for the remainder of this description.

Value Unit pricing offers price benefits for customers. For each zSeries IPLA program with Value Unit pricing, the quantity of that program needed to satisfy applicable IBM terms and conditions is referred to as the "required license capacity." Each of the various Value Unit Exhibits stipulate that the larger your required license capacity, the fewer Value Units per MSU you will need. Value Unit Exhibits are uniquely identified by a three-digit code and referred to using the nomenclature VUExxx, where xxx is the three-digit code.

Subsequent acquisitions of Value Unit-priced programs offer additional price benefits for customers. The quantity of each zSeries IPLA program that you have acquired is referred to as "entitled license capacity." If you wish to grow your entitled license capacity for a zSeries IPLA program, the calculation to determine additional needed Value Units is based upon the number of Value Units already acquired.

For each zSeries IPLA program with Value Unit Pricing, you should:

- Determine the required license capacity, in MSUs
- Aggregate the MSUs across the enterprise
- Convert the total MSUs to Value Units, using the applicable Value Unit Exhibit
- Multiply the price per Value Unit by the total number of Value Units to determine the total cost

To simplify conversion from the designated measurement to Value Units or vice-versa, use the Value Unit Converter Tool. For additional information or to obtain a copy of the Value Unit Converter Tool, visit the Value Unit Converter Tool Web site

<http://ibm.com/zseries/swprice/vuctool>

Note that Value Units of a given product cannot be exchanged, interchanged, or aggregated with Value Units of another product.

To determine the required license capacity for the zSeries IPLA program you selected, refer to the **Terms and conditions** section.

---

## **Statement of direction**

---

IBM plans to deliver a DB2 audit tool that will greatly assist auditors and DBAs. Today, they face many challenges analyzing and reporting on their DB2 systems in response to numerous requirements for regulatory compliance. Planned capabilities include:

- Centralized easy-to-use support for your auditing needs
- Customized data collection capabilities

- Comprehensive reporting facilities with multiple options to view and report on collected data
- A separate administration user interface

A future announcement will provide more details and availability dates.

All statements regarding IBM's plans, directions, and intent are subject to change or withdrawal without notice.

## **Business Partner information**

If you are a Direct Reseller - System Reseller acquiring products from IBM, you may link directly to Business Partner information for this announcement. A PartnerWorld ID and password are required (use IBM ID).

BP Attachment for Announcement Letter 206-126

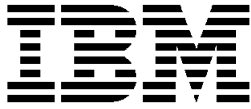
<https://www.ibm.com/partnerworld/mem/sla.jsp?num=206-126>

## **Trademarks**

IMS is a trademark of International Business Machines Corporation in the United States or other countries or both.

DB2, z/OS, FlashCopy, and zSeries are registered 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.



# IBM United States Announcement Supplemental Information

June 6, 2006

## Offering Information

Product information is available via the Offering Information Web site

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

## Publications

The IBM Publications Center portal is at

<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. Payment options for orders are via credit card or customer number. A large number of publications are available online in various file formats. They can all be downloaded free of charge.

One copy of the following publications is supplied automatically with the basic machine-readable material.

Title	Order number
DB2® Cloning Tool for z/OS®, V1.1 (5655-N10) License Information	GC18-9956
Program Directory	GI10-8714
DB2 Recovery Expert for z/OS, V1.1 (5697-H74) License Information	GC18-9821
Program Directory	GI10-8706
IMST™ Performance Analyzer for z/OS, V4.1 (5655-R03) License Information	GC18-9777
Program Directory	GI10-8703
IMS Problem Investigator for z/OS, V2.1 (5655-R02) License Information	GC18-9780
Program Directory	GI10-8704

The publications for the products in this announcement cannot be ordered in hardcopy. All the publications in this announcement are available at

<http://www.ibm.com/software/data/db2imstools>

Publications are available in PDF and BookManager® formats on CD-ROM and on DVD on the next release of software product libraries:

- z/OS Software Products Collection (SK3T-4270)
- z/OS and Software Products DVD Collection (SK3T-4271) (requires a DVD drive in DVD-9 (single-sided, dual-layer) format)

Title	Order number
DB2 Cloning Tool for z/OS, V1.1 (5655-N10) User's Guide	SC18-9835
DB2 Recovery Expert for z/OS, V1.1 (5697-H74) User's Guide	SC18-9822
IMS Performance Analyzer for z/OS, V4.1 (5655-R03) User's Guide	SC18-9778
Report Reference	SC18-9779
IMS Problem Investigator for z/OS, V2.1 (5655-R02) User's Guide	SC18-9781

The following material is available at

<http://www.ibm.com/software/data/db2imstools>

- Overview brochure: IBM DB2 and IMS Tools (GC27-1070)
- Fact sheets:
  - DB2 Recovery Expert for z/OS, V1.1 (GC27-1634)
  - IMS Performance Analyzer for z/OS, V4.1 (GC27-1059)
  - IMS Problem Investigator for z/OS, V2.1 (GC18-7783)

Specification sheets, user's guides, and white papers are also available on CD-ROM (GK3T-7099). This CD-ROM can be ordered from the IBM Publications Center Portal at

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

## Technical information

**Hardware requirements:** The products in this announcement will operate on any hardware S/390® configuration that supports the required versions of DB2 and IMS.

The DB2 Recovery Expert client will operate on any hardware capable of running Windows™ 2000 or Windows XP with a minimum of:

- 150 MB free disk space
- 128 MB memory

**Software requirements:** The products in this announcement require:

- z/OS V1.6 (5694-A01), or later
- SMP/E for z/OS, V3.3 (5655-G44), or later

The DB2 products in this announcement are designed to operate with the following DB2 versions:

- DB2 V7 (5675-DB2)
- DB2 V8 (5625-DB2)

DB2 Cloning Tool for z/OS, V1.1 requires PTF UQ80188 if operating on DB2 V7.

*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>.*

DB2 Recovery Expert for z/OS, V1.1 has the following requirements:

- Client: Windows 2000 Professional, Windows XP Professional (32-bit), or Windows Server 2003 (32-bit)
- Server conditional operational requisites:
  - DB2 Automation Tool for z/OS, V2.1 (5697-I80), or later, for selection of groups of objects defined as object profiles by DB2 Automation Tool.
  - The DB2 Grouper component to use object relationship information provided by DB2 Grouper. DB2 Grouper is included with the DB2 Recovery Expert product.

The IMS products in this announcement are designed to operate with the following IMS versions:

- IMS V8 (5655-C56)
- IMS V9 (5655-J38)

IMS Performance Analyzer for z/OS, V4.1 has a conditional operational requisite: IMS Connect Extensions for z/OS, V1.1 (5655-K48), or later, is needed to run Connect reports.

IMS Problem Investigator for z/OS, V2.1 has conditional operational requisites:

- IMS Connect Extensions for z/OS, V1.1 (5655-K48), or later, is needed to run Connect reports.
- Both IMS Performance Analyzer for z/OS, V3.3 (5655-E15) and IMS Performance Analyzer for z/OS, V4.1 (5655-R03) can share definitions with IMS Problem Investigator V2.1.

### Customer requirements

Customer requirements are used extensively to determine how database tools evolve.

IMS Performance Analyzer for z/OS, V4.1 (5655-R03) satisfies the following requirements:

MR0214055737 MR0324052238 MR0609043115 MR0802046214  
 MR0810053415 MR0921045216

IMS Problem Investigator for z/OS, V2.1 (5655-R02) satisfies the following requirements:

MR1027046113 MR0322063127

### Planning information

**Packaging:** The programs in this announcement are distributed with the following content:

- Basic machine-readable material on tape
- Program Directory
- PoE
- IBM International Program License Agreement (IPLA)

### Security, auditability, and control

The announced programs use the security and auditability features of the host 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.

## Software Services

IBM Services has the breadth, depth, and reach to manage your services needs. You can leverage the deep technical skills of our lab-based, software services team and the business consulting, project management, and infrastructure expertise of our IBM Global Services team. Also, we extend our IBM Software Services reach through IBM Business Partners to provide an unmatched portfolio of capabilities. Together, we provide the global reach, intellectual capital, industry insight, and technology leadership to support any critical business need.

To learn more about IBM Software Services or to contact a software services sales specialist, visit

<http://www.ibm.com/software/sw-services/>

## Ordering information

### Charge Metric

Program name	PID number	Charge metric
DB2 Cloning Tool for z/OS, V1.1	5655-N10	Value Unit
DB2 Recovery Expert for z/OS, V1.1	5697-H74	Value Unit
IMS Performance Analyzer for z/OS, V4.1	5655-R03	Value Unit
IMS Problem Investigator for z/OS, V2.1	5655-R02	Value Unit

The programs in this announcement all have Value Unit-based pricing.

Program Number	Program Name	Value Unit Exhibit
5655-N10	DB2 Cloning Tool for z/OS, V1.1	VUE007
5697-H74	DB2 Recovery Expert for z/OS, V1.1	VUE007
5655-R03	IMS Performance Analyzer for z/OS, V4.1	VUE007
5655-R02	IMS Problem Investigator for z/OS, V2.1	VUE007

For each IBM System z™ IPLA program with Value Unit pricing, the quantity of that program needed to satisfy applicable IBM terms and conditions is referred to as the *required license capacity*. Your required license capacity is based upon the following factors:

- The System z IPLA program you select
- The applicable Value Unit Exhibit
- The applicable terms
- Whether your current mainframes are full-capacity or sub-capacity

### Value Unit exhibit VUE007

	MSUs minimum	MSUs maximum	Value Units/MSU
Base	1	3	1
Tier A	4	45	0.45
Tier B	46	175	0.36
Tier C	176	315	0.27
Tier D	316	+	0.2

Value Units for mainframes without MSU ratings:

Hardware	Value Units/machine
MP3000 H30	6
MP3000 H50	8
MP3000 H70	12
ESL models	2

**Ordering example:** The total number of Value Units is calculated according to the following example.

If your required license capacity is 1,500 MSUs for your selected zSeries® IPLA product, the applicable Value Units would be:

Translation from MSUs to Value Units				
	MSUs	*	Value Units/MSU	= Value Units
Base	3	*	1.00	= 3.00
Tier A	42	*	.45	= 18.90
Tier B	130	*	.36	= 46.80
Tier C	140	*	.27	= 37.80
Tier D	1,185	*	.20	= 237.00
Total	1,500			343.50

When calculating the total number of Value Units, the sum is to be rounded up to the next integer.

### Ordering z/OS through the Internet

Shop System z provides an easier way to plan and order your z/OS ServerPac or CBPDO. It will analyze your current installation, determine the correct product migration, and present your new configuration based on z/OS. Additional products can also be added to your order (including determination of whether all product requisites are satisfied). Shop System z is available in the U.S. and several countries in Europe. In countries where Shop System z is not available yet, contact your IBM representative (or IBM Business Partner) to handle your order via the traditional IBM ordering process. For more details and availability, visit the Shop System z Web site at

<http://www14.software.ibm.com/webapp/ShopzSeries/ShopzSeries.jsp>

The products in this announcement have one charge unit—Value Units.

Translation from MSUs to Value Units example using VUE001

	MSUs	Value Units/MSU
Base	1-3	5.25
Tier A	4-45	.83
Tier B	46-175	.35
Tier C	176-315	.26
Tier D	316+	.20

**Note:** For the actual translation from MSUs to Value Units for this product, see the table that follows.

**Ordering example:** The total number of Value Units is calculated according to the following example.

If the customer has installed 1,000 MSUs, the applicable Value Units would be:

Translation from MSUs to Value Units (VUE001)				
	MSUs	*	Value Units/MSU	= Value Units
Base	3	*	5.25	= 15.75
Tier A	42	*	.83	= 34.86
Tier B	130	*	.35	= 45.50
Tier C	140	*	.26	= 36.40
Tier D	685	*	.20	= 137.00
Total	1,000			270

When calculating the total number of Value Units, the sum is to be rounded up to the next integer.

Value Units for non-MSU-based S/390 processors using VUE001:

### MP3000 models

H30	=	21.00 Value Units/Machine
H50	=	22.00 Value Units/Machine
H70	=	26.00 Value Units/Machine
ESL models	=	9.00 Value Units/Machine

### Basic license

### On/Off Capacity on Demand

The products in this announcement are eligible for On/Off Capacity on Demand (On/Off CoD) with a Temporary Use Charge calculated based on MSUs-per day usage.

The On/Off CoD ordering information for the products in this announcement follows:

Program Name: DB2 Cloning Tool for z/OS, V1.1 (5655-N10)  
Program PID: 5655-N10

Entitlement Identifier	Description	License Option / Pricing Metric
S012JPB	DB2 Cloning Tool V1.1	Basic OTC, Per MSU-day TUC

Program Name: DB2 Recovery Expert for z/OS, V1.1  
Program PID: 5697-H74

Entitlement Identifier	Description	License Option / Pricing Metric
S012CMV	DB2 Recovery Expert V1.1	Basic OTC, Per MSU-day TUC

Program Name: IMS Performance Analyzer for z/OS, V4.1  
Program PID: 5655-R03

Entitlement Identifier	Description	License Option / Pricing Metric
S012H7K	IMS Performance Analyzer V4	Basic OTC, Per MSU-day TUC

Program Name: IMS Problem Investigator for z/OS, V2.1  
Program PID: 5655-R02

Entitlement Identifier	Description	License Option / Pricing Metric
S012H7D	IMS Problem Investigator V2	Basic OTC, Per MSU-day TUC

### Translation from MSUs to Value Units

	MSUs	Value Units/MSU
Base	1-3	1.00
Tier A	4-45	.45
Tier B	46-175	.36
Tier C	176-315	.27
Tier D	316+	.20

To order, specify the program product number and the appropriate license or charge option. Also, specify the desired distribution medium. To suppress shipment of media, select the license-only option in CFSW.

The ordering information for the following products has not changed. Therefore, ordering information is not included for these products in this announcement.

Product name	PID
Subscription and Support for IMS Performance Analyzer	5655-E18
Subscription and Support for IMS Problem Investigator	5655-K51

The ordering information for the other products in this announcement follows:

Program Name: DB2 Cloning Tool for z/OS, V1.1  
 Program PID: 5655-N10

Entitlement Identifier	Description	License Option / Pricing Metric
S012JPB	DB2 Cloning Tool V1.1	Basic OTC, Value Units
Orderable Supply ID	Language	Distribution Medium
S012JPC	US English	3480 Tape Cartridge

Subscription and Support PID: 5655-N11

Entitlement Identifier	Description	License Options / Pricing Metrics
S012JPH	DB2 Cloning Tool S&S	SW Subscription and Support AS Decline SW S&S No Charge SW S&S Registration No Charge
Orderable Supply ID	Language	Distribution Medium
S012JPJ	English	Hardcopy publication

Program Name: DB2 Recovery Expert for z/OS, V1.1  
 Program PID: 5697-H74

Entitlement Identifier	Description	License Option / Pricing Metric
S012CMV	DB2 Recovery Expert V1.1	Basic OTC, Value Units Trade-up
Orderable Supply ID	Language	Distribution Medium
S012CMW	US English	3480 Tape Cartridge

Subscription and Support PID: 5697-N47

Entitlement Identifier	Description	License Options / Pricing Metrics
S012CMZ	DB2 Recovery Expert S&S	SW Subscription and Support AS Decline SW S&S No Charge SW S&S Registration No Charge
Orderable Supply ID	Language	Distribution Medium
S012CN0	English	Hardcopy publication

Program Name: IMS Performance Analyzer for z/OS, V4.1  
 Program PID: 5655-R03

Entitlement Identifier	Description	License Option / Pricing Metric
S012H7K	IMS Performance Analyzer V4	Basic OTC, Value Units
Orderable Supply ID	Language	Distribution Medium
S012H7L	US English	3480 Tape Cartridge

Program Name: IMS Problem Investigator for z/OS, V2.1  
 Program PID: 5655-R02

Entitlement Identifier	Description	License Option / Pricing Metric
S012H7D	IMS Problem Investigator V2	Basic OTC, Value Units
Orderable Supply ID	Language	Distribution Medium
S012H7F	US English	3480 Tape Cartridge

### Subscription and Support

To receive voice technical support via telephone during normal business hours and future releases and versions at no additional charge, Subscription and Support must be ordered. The capacity of Subscription and Support

(Value Units) must be the same as the capacity ordered for the product licenses.

To order, specify the Subscription and Support program number (PID) referenced previously and the appropriate license or charge option.

IBM is also providing Subscription and Support for these products via a separately purchased offering under the terms of the IBM International Agreement for Acquisition of Support. This offering:

- Includes and extends the support services provided in the base support to include technical support via telephone during normal business hours.
- Entitles customers to future releases and versions at no additional charge. Note that the customer is not entitled to new products.

When Subscription and Support is ordered, the charges will renew automatically annually unless cancelled by the customer.

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

### Customized Offerings

Product media is shipped only via Customized Offerings (for example, CBPDO, ServerPac, SystemPac®). Non-customized items (CDs, diskettes, source media, media kits) will continue to be shipped via the stand-alone product.

### Terms and conditions

**Agreement:** IBM International Program License Agreement and License Information document. PoEs are required for all authorized use.

These programs are licensed under the IPLA and the associated Agreement for Acquisition of Software Maintenance, which provides for support with ongoing access to releases and versions of the program. These programs have a one-time license charge for use of the program and an annual renewable charge for the enhanced support that includes telephone assistance (voice support for defects during normal business hours) as well as access to updates, releases, and versions of the program as long as support is in effect.

S/390 and zSeries IBM Operational Support Services — SoftwareXcel is an option for those customers who desire added services.

**Limited warranty:** Yes

**Warranty:** This program includes a warranty for one year from acquisition from IBM or an authorized IBM Business Partner. For one year from acquisition of the program, this warranty provides the customer with access to databases containing program information and FAQs, including any known fixes to defects, which the customer can download or otherwise obtain and install.

**Program support:** Enhanced Support, called Subscription and Support, includes telephone assistance (voice support for defects during normal business hours) as well as access to updates, releases, and versions of the program as long as support is in effect. The customer

will be notified of discontinuance of support with 12 months' notice.

**Money-back guarantee:** If for any reason you are dissatisfied with the program and you are the original licensee, return it within 30 days from the invoice date to the party (either IBM or its reseller) from whom you acquired it for a refund. For clarification, note that for programs acquired under any of IBM's On/Off Capacity on Demand (On/Off CoD) software offerings, this term does not apply since these offerings apply to programs already acquired and in use by the customer.

**Copy and use on home/portable computer:** No

**Volume orders (IVO):** No

**Passport Advantage® applies:** No

**Software Maintenance applies:** No

For operating system software, the revised IBM Operational Support Services — SoftwareXcel offering will provide support for those operating systems and associated products that are not available with the newly announced Software Maintenance offering. This will ensure total support coverage for your enterprise needs, including IBM and selected non-IBM products. For complete lists of products supported under both the current and revised SoftwareXcel offering, visit

<http://www.ibm.com/services/sl/products>

For additional information on the revised IBM Operational Support Services, refer to Services Announcement 601-023, dated July 10, 2001.

**IBM Operational Support Services — SoftwareXcel:** Yes

**iSeries™ Software Maintenance applies:** No

**Variable charges apply:** No

**Educational allowance available:** Yes, 15% education allowance applies to qualified education institution customers.

Replaced program		Replacement program	
Program number	Program name	Program number	Program name
5798-CHJ	IMS Monitor Summary and Systems Analysis Program (IMSASAP II)	5655-R03	IMS Performance Analyzer for z/OS, V4.1
5798-CQP	IMS Performance Analysis and Reporting System (IMSPARS)	5655-R03	IMS Performance Analyzer for z/OS, V4.1
5697-B89	IMS Performance Analyzer V1	5655-R03	IMS Performance Analyzer for z/OS, V4.1
5697-F02	IMS Performance Analyzer V2	5655-R03	IMS Performance Analyzer for z/OS, V4.1

### Sub-capacity terms and conditions

For each System z IPLA program with Value Unit pricing, the quantity of that program needed to satisfy applicable IBM terms and conditions is referred to as the *required license capacity*. Your required license capacity is based upon the following factors:

- The System z IPLA program you select
- The applicable Value Unit Exhibit

- The applicable terms
- Whether your current mainframes are full-capacity or sub-capacity

For more information on the Value Unit Exhibit for the System z IPLA program you selected, refer to the **Ordering information** section.

Program number	Program name	Terms	Parents, if Applicable
5655-N10	DB2 Cloning Tool for z/OS, V1.1	Reference-based	DB2 V7 (5675-DB2) or DB2 V8 (5625-DB2)
5697-H74	DB2 Recovery Expert for z/OS, V1.1	Reference-based	DB2 V7 (5675-DB2) or DB2 V8 (5625-DB2)
5655-R03	IMS Performance Analyzer for z/OS, V4.1	Reference-based	IMS V8 (5655-C56) or IMS V9 (5655-J38)
5655-R02	IMS Problem Investigator for z/OS, V2.1	Reference-based	IMS V8 (5655-C56) or IMS V9 (5655-J38)

**Full-capacity mainframes:** In cases where full-capacity is applicable, the following terms apply:

**Execution-based, z/OS based, full-machine-based:** The required capacity of a System z IPLA program with these terms equals the MSU rated capacity of the machines where the System z IPLA program executes.

For more information on mainframe MSU rated capacities, visit the Web site

<http://www-1.ibm.com/servers/eserver/zseries/library/swpriceinfo/>

**Reference-based:** The required license capacity of a zSeries IPLA program with these terms equals the license capacity of the applicable monthly license charge (MLC) program. This MLC program is called the *parent* program.

**Sub-capacity mainframes:** In cases where sub-capacity is applicable, the following terms apply:

**Execution-based:** The required capacity of a System z IPLA sub-capacity program with these terms equals the capacity of the LPARs where the System z IPLA program executes.

**z/OS based:** The required license capacity of a System z IPLA program with these terms equals the license capacity of z/OS (and z/OS.e) on the machines where the System z IPLA program executes.

**Reference-based:** The required license capacity of a zSeries IPLA program with these terms equals the license capacity of the applicable MLC program. This MLC program is called the *parent* program.

**Full machine-based:** The required license capacity of a System z IPLA program with full machine-based terms equals the MSU rated capacity of the machines where the System z IPLA program executes.

For more information on mainframe MSU rated capacities, refer to *The System/370™, System/390®, and System z Machine Exhibit (Z125-3901)* or visit the *Mainframes* section of the System z Exhibits Web site

<http://ibm.com/zseries/library/swpriceinfo/>

For more information on sub-capacity System z IPLA terms and conditions, refer to Software Announcement 204-184, dated August 10, 2004.

## Additional information for products with reference-based terms

System z IPLA sub-capacity programs with reference-based terms adds value to the parent program across the environment, regardless of where in the environment the System z IPLA program executes.

An environment is defined as either a single/stand-alone machine or a qualified Parallel Sysplex®. Customers may have one or more different environments across their enterprise. To determine the required license capacity for each System z IPLA program with referenced-based terms, each environment should be assessed separately.

When a System z IPLA sub-capacity program with reference-based terms is used in a qualified Parallel Sysplex environment, the required license capacity of the System z IPLA program must equal with the license capacity of the parent program across the Parallel Sysplex. Qualified Parallel Sysplex refers to one:

- That meets the criteria defined in Hardware Announcement 198-001, dated January 13, 1998
- Where MLC pricing is aggregated across the Sysplex

**Sub-capacity eligibility:** To be eligible for sub-capacity charging on select System z IPLA programs, you must first implement and comply with all terms of either sub-capacity Workload License Charges (WLC) or sub-capacity Entry Workload License Charges (EWLC). To implement sub-capacity WLC or EWLC, a machine must be System z (or equivalent). On that machine:

- All instances of the OS/390® operating system must be migrated to the z/OS (or z/OS.e) operating systems.
- Any licenses for the OS/390 operating system must be discontinued.
- All instances of the z/OS operating (or z/OS.e) systems must be running in z/Architecture™ (64-bit) mode.

For that machine, you must create and submit a Sub-Capacity Report to IBM each month. Sub-Capacity Reports must be generated using the Sub-Capacity Reporting Tool (SCRT). For additional information or to obtain a copy of SCRT, visit the System z Software Pricing Web site

<http://ibm.com/zseries/swprice>

You must comply with all of the terms of the WLC or EWLC offering, whichever is applicable:

- The complete terms and conditions of sub-capacity WLC are defined in the IBM Customer Agreement — *Attachment for System z Workload License Charges* (Z125-6516).
- The complete terms and conditions for sub-capacity EWLC are defined in the IBM Customer Agreement — *Attachment for IBM eServer System z 890 and 800 License Charges* (Z125-6587).

Additionally, you must sign and comply with the terms and conditions specified in the amendment to the IPLA contract — *Amendment for IBM System z9™ and eServer System z Programs Sub-Capacity Pricing* (Z125-6929). Once the amendment is signed, the terms in the amendment replace any and all previous System z IPLA sub-capacity terms and conditions.

## Sub-capacity utilization determination

Sub-capacity utilization is determined based on the utilization of a sub-capacity eligible reference product and machine.

### On/Off Capacity on Demand

To be eligible for On/Off Capacity on Demand pricing, customers must be enabled for temporary capacity on the corresponding hardware, and the required contract — *Attachment for Customer Initiated Upgrade and IBM eServer On/Off Capacity on Demand — Software* (Z125-6611) — must be signed prior to use.

---

## Prices

---

Contact your IBM representative for pricing information for this announcement.

### IBM Global Financing

IBM Global Financing offers competitive financing to credit-qualified customers to assist them in acquiring IT solutions. Offerings include financing for IT acquisition, including hardware, software, and services, both from IBM and other manufacturers or vendors. Offerings (for all customer segments: small, medium, and large enterprise), rates, terms, and availability can vary by country. Contact your local IBM Global Financing organization or visit

<http://www.ibm.com/financing>

IBM Global Financing offerings are provided through IBM Credit LLC in the United States and other IBM subsidiaries and divisions worldwide to qualified commercial and government customers. Rates are based on a customer's credit rating, financing terms, offering type, equipment type, and options, and may vary by country. Other restrictions may apply. Rates and offerings are subject to change, extension, or withdrawal without notice.

---

## Order now

---

To order, contact the Americas Call Centers, your local IBM representative, or your IBM Business Partner.

To identify your local IBM representative or IBM Business Partner, call 800-IBM-4YOU (426-4968).

Phone: 800-IBM-CALL (426-2255)  
Fax: 800-2IBM-FAX (242-6329)  
Internet: [callserv@ca.ibm.com](mailto:callserv@ca.ibm.com)  
Mail: IBM Americas Call Centers  
Dept. Teleweb Customer Support, 9th floor  
105 Moatfield Drive  
North York, Ontario  
Canada M3B 3R1

Reference: LE001

The Americas Call Centers, our national direct marketing organization, can add your name to the mailing list for catalogs of IBM products.

**Note:** Shipments will begin after the planned availability date.

**Trademarks**

IMS, System z, iSeries, System/370, z/Architecture, and System z9 are trademarks of International Business Machines Corporation in the United States or other countries or both.

z/OS, DB2, BookManager, S/390, zSeries, SystemPac, Passport Advantage, eServer, System/390, Parallel Sysplex, and OS/390 are registered trademarks of International Business Machines Corporation in the United States or other countries or both.

Windows is a trademark of Microsoft Corporation.

Other company, product, and service names may be trademarks or service marks of others.