



New and Enhanced IBM Data Management Tools Support DB2 and IMS To Help You Manage Your Database Environment Even Better

Overview

New products, versions, and releases of IBM Data Management Tools to support DB2® and IMS™ offer many innovative features to assist database administrators (DBAs) and system programmers in managing all aspects of their database environment. The new offerings include:

- One IMS licensed program — IMS Library Integrity Utilities for z/OS™
- Three IMS program versions
 - IMS High Availability Large Database Conversion and Maintenance Aid for z/OS, V2
 - IMS High Performance Pointer Checker for z/OS, V2
 - IMS Connect for z/OS, V2
- One DB2 program release — DB2 Administration Tool for z/OS, V4.2
- Trade-up prices on:
 - DB2 Performance Expert for z/OS (5655-I21), for customers who currently have DB2 Performance Monitor for z/OS, V7 (5655-E61) or DB2 Buffer Pool Analyzer for z/OS (5655-E54), have been extended to March 31, 2004. Refer to Software Announcement 202-048, dated March 5, 2002.
 - IMS Library Integrity Utilities for z/OS (5655-I42), for customers who currently have IMS Advanced ACB Generator for OS/390® (5655-E05) or IMS Library Management Utilities for OS/390 (5655-E04).

- Two product names have been changed to better reflect their improved functionality. For details, refer to the **Description** section.

The IBM Data Management Tools business is a unique model in the industry. IBM continues to increase its investment in tools to deliver comprehensive solutions that meet requirements faster than ever before. Increased focus is on common interfaces, cross-tool integration, testing with the same criteria used for the databases, and expansion into multiplatforms.

Key Prerequisites

Any hardware and software configuration that supports the required version of DB2 or IMS. Details are listed in the **Hardware Requirements** and **Software Requirements** sections.

Planned Availability Dates

- May 2, 2003
 - DB2 Administration Tool for z/OS, V4.2
 - IMS Library Integrity Utilities for z/OS
- June 20, 2003
 - IMS Connect for z/OS, V2
 - IMS High Availability Large Database Conversion and Maintenance Aid for z/OS, V2
- June 27, 2003: IMS High Performance Pointer Checker for z/OS, V2

At a Glance

One new and four enhanced IBM Data Management Tools for DB2 and IMS offer capabilities in key functional areas.

Database Administration

- DB2 Administration Tool for z/OS, V4.2
- IMS High Availability Large Database Conversion and Maintenance Aid for z/OS, V2
- IMS High Performance Pointer Checker for z/OS, V2
- IMS Library Integrity Utilities for z/OS

Application Management

- IMS Connect for z/OS, V2

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 first announced its entry into the database tools business in September 2000, delivering a set of 34 tools for IMS and DB2 covering key system management functions, and committing to expand this portfolio in response to customer requirements. This announcement marks IBM's seventh major database tools announcement in three years, proof of our ability to offer a broad range of tools that support the DB2 and IMS databases and to provide that support with rapid availability for each new version or release of the databases. View the complete list of IBM Data Management Tools' announcements on our Web site at:

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

IBM now offers more than 60 tools that increasingly feature common interfaces and cross-tool integration and that are tested under the same configurations and workloads as the databases they support. In addition, as we enter the era of autonomic computing, IBM Data Management Tools will become increasingly self managed in terms of dynamically monitoring and managing data, and taking responsibility for decision making and initiating action.

To view the complete list of IBM Data Management Tools, visit our Web site at:

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

New Product Names

The names of following products and their corresponding subscription and support offerings have been changed to better reflect their enhanced capabilities.

New Name	Old Name
IBM IMS High Availability Large Database Conversion and Maintenance Aid for z/OS, V2 (5655-K47)	IBM IMS High Availability Large Database Conversion Aid for z/OS (5655-I01)
S&S for IBM High Availability Large Database Conversion and Maintenance Aid for z/OS and all prior versions (5655-I02)	IBM IMS High Availability Large Database Conversion Aid for z/OS Subscription and Support (5655-I02)

IBM Tools for Database Administration

DB2 Administration Tool for z/OS, V4.2 (5655-I23) offers a comprehensive set of database administration functions that help DBAs efficiently manage DB2 Universal Database® for z/OS. Designed with intuitive, interactive functionality, DB2 Administration Tool shortens the time needed to complete jobs that otherwise could consume hours. Enhancements to this release include:

- Catalog Query
 - Enhanced Database-Structure display
 - SQL prototype support for aggregate functions, enhanced predicate support
 - List all authorizations for a specific user
 - List constraints
 - COUNT command on tables
 - Guided Restrict-On-Drop following DROP

- Create/Alter Table
 - Alter related views and indexes
 - Specify Primary Key on CREATE TABLE
 - Smart-Alter support when altering multiple tables
 - Authorization switching for ALTER TABLE and TABLESPACE
 - More data-type conversions in ALTER TABLE
- Create/Alter Index
 - Improved key column display and editing
 - Redefine a partitioning index
 - Initiate utilities following CREATE INDEX
 - Intelligent PIECESIZE calculation
- Prompting
 - Multiple statement handling
 - New Cancel option
- Migrate
 - Add Referential Integrity objects improved
 - Migrate support for work statement lists and masking
- Utility
 - Allow utility option specification prior to execution
 - Offline utility support
- Work Statement List
 - Support by ALTER INDEX and ALTER TABLESPACE REDEFINE
 - Clone authorizations or limit keys from target
 - Clone dataset names
 - Run cloning in batch
- Usability or Performance
 - Control automatic refresh of data on update
 - Execution control totals added for STATUS command
 - SQLCODE displayed for warnings
 - Explain support of CURRENT DEGREE
 - Retain the subsystem on invocation
 - Full-Screen support on CREATE TABLE, INDEX, TABLESPACE, and ALTER TABLE

IMS High Availability Large Database (HALDB) Conversion and Maintenance Aid for z/OS, V2 (5655-K47) contains all the features and functions of IMS HALDB Conversion Aid for z/OS, which provides the utilities and aids you need to analyze, model, and convert existing IMS V7 and V8 full-function database structures to a HALDB format. The tool also supports the migration of IMS V7 and V8 databases that have been partitioned by the IBM IMS Partition DB product (5697-D85) or the OEM Partitioning product. In addition, the following new features and functions are provided:

- New conversion functions:
 - DEDB (without SDEP) to PHDAM
 - User partitioning

- Multiple DBDs of identical structure are converted to one HALDB
- Conversion JCL can be in one multi-step JOB
- Data collection and partitioning done during conversion unload
- A new utility is provided called Initial Load Assist. This utility assists applications that do PROCOPT=L for HALDB databases by providing functions to:
 - Delay writing secondary indexes to the end of the load process, sort the indexes, and load them sequentially. No JCL change is required.
 - Intercept logical children segments during the load process, write them to a temporary file, and process them at the end of the load process. A JCL change is required for external logical relations, since all related databases need to be loaded first.
- The Status Code “BA” Aid function provides assistance to application programs, which want to allow “partition not available.” The application does not need to be changed. The assumption is that the “not available” status is for a short time only.
- The Partition Maintenance Aid function contains support for:
 - Split partitions
 - Create the necessary DBRC commands
 - Allocate the files
 - Create the utilities
 - Locate the new high key
 - Support DBRC functions for HALDB
 - Resolve authorization exceptions
 - Create backout JCL
 - Support backup and recovery
 - Create backup JCL
 - Create recovery JCL
 - Generate Reorganization Utilities

IMS High Performance (HP) Pointer Checker for z/OS, V2 (5655-K53) is a key tool that lets you manage many database reorganization activities efficiently. Used on a regular basis, IMS HP Pointer Checker can help ensure that your database pointers are error free. It also alerts you to the need to perform a database reorganization.

This version delivers the following enhancements:

- Full checking performance is improved by:
 - Introducing smaller sort records
 - Eliminating the merge step
 - Optimizing work buffers
 - Providing VSCR relief
 - Introducing parallel scan capabilities
 - Reducing job steps
- Usability is improved with simplified setup and operation.
- Databases are processed in parallel.
- Reporting is improved.

IMS Library Integrity Utilities for z/OS (5655-I42) includes all of the features and functions of the:

- IMS Library Management Utilities for OS/390, which help you manage IMS Access Control Block (ACB), PSB, and DBD libraries.

- IMS Advanced ACB Generator for OS/390, which combines a number of features and functions to further help you manage your IMS ACB libraries more effectively. It also provides a high-speed generation process, which is important when processing large volumes of IMS ACBs.

In addition, IMS Library Integrity Utilities includes Integrity Checker and Consistency Checker features.

Integrity Checker helps protect your databases from corruption caused by using the wrong IMS control blocks for access. If the IMS control blocks used to access the database are not the same as the ones that were used to load the database, then a data integrity exposure can occur. This type of data integrity exposure is one of the most common causes for IMS database corruption. Representative examples of using the wrong IMS control blocks are:

- A batch program that uses a test DBD library to update a production database
- A batch program that uses a new DBD before the associated database is reorganized using the new DBD
- An online IMS system that uses an old ACB to update a database whose associated DBD was changed

Integrity Checker addresses these situations by verifying at each database authorization that the control blocks used to access the database are the same as the ones that IMS used to load the database.

Consistency Checker helps you ensure that the necessary definitions in your IMS subsystem have been created. For a DBD in the DBD library, Consistency Checker verifies that the:

- Associated ACB was generated in the ACB library.
- Online database definition was created in the MODBLKS.
- Dynamic allocation member was created in the MDA library.
- Database was registered in the DBRC RECON data set.

The following functional enhancements are also provided for existing utilities:

- DBD/PSB/ACB Mapper: ACB map for DBD-type ACB members
- DBD/PSB/ACB Reversal: ACB Reversal for DBD-type ACB members
- Advanced ACB Generator: Suppression of PSB rebuild when DBDs are replaced that do not affect PSBs

IBM Tools for Application Management

IMS Connect for z/OS, V2 (5655-K52) is IBM’s premier access product allowing e-business access to new and existing IMS applications and operations. The product supports communications between one or more TCP/IP (or local/390) clients and one or more IMS systems. It is designed to be the distributed communications front-end to IMS for the future.

IMS Connect for z/OS, V2 enhancements provide:

- Two-phase commit support across TCP/IP through IMS Connect for IMS and WebSphere® Application Server (WAS) in z/OS and non-z/OS environments, with IMS and IMS Connect in the same LPAR. This is in addition to the earlier local/390 two-phase commit support for WAS, IMS, and IMS Connect in the same LPAR.

- Secure Sockets Layer (SSL) support for enhanced security control
- PING support for determining IMS Connect availability
- IMS Connector for Java™ also adds
 - Message Format Services (MFS) Web Services support to enable IMS customers to publish existing MFS-based IMS applications on the Internet as Web Services
 - Container-managed and component-managed IMS sign-on support
 - Run as thread identity support for z/OS environments for enhanced security
 - Commit Mode 0 support to broaden application support
 - WebSphere Application Server (WAS) V5 for z/OS support

Additional IMS Connect for z/OS, V2 enhancements include:

- Two-phase commit support from OS/390 and z/OS environments across the Local option (where WAS, IMS Connect, and IMS are in the same LPAR)
- IPV6 network protocol support for scalability and simplification through the z/OS V1R4 Communication Server, and for enhanced IPV4 performance
- Passticket support for enhanced security control
- Trusted user support for enhanced security control
- Auto reconnect to IMS
- Message time-out granularity
- User message exit limitation relief
- Connectivity support for Distributed IMS Operations from the IMS Control Center, which is packaged with the DB2 V8 Control Center
- IMS Connector for Java also adds:
 - Container-managed IMS sign-on support for distributed environments
 - Execution time-out

Section 508 of the U.S. Rehabilitation Act

The products in this announcement are capable as of their general 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-based pricing will help to align the prices of these products to the principle of the PSLC pricing curve, which provides for a lower price per MSU (millions of service units per hour) for larger capacities.

There is also be a price benefit when customers grow their capacity. Additional capacity will based on the number of Value Units (MSUs) the customer has already installed. For example, additional capacity will not be priced starting at the base with a higher price per unit but on the capacity that is already installed.

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

IPLA and Subscription and Support Considerations

IPLA licenses can be transferred from one machine to another within, but not limited to, an enterprise. The customer may aggregate the capacity for all the processors the product is operated on to achieve a more economic price. This will result in a single Proof of Entitlement. It is the customer's responsibility to manage the distribution of Value Units within the limits of the entitlement of the product license.

Subscription and Support must cover the same capacity as the product license entitlement. Subscription and Support will be available in the country in which the agreement is made.

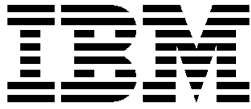
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IBM US Announcement Supplemental Information

April 29, 2003

Offering Information

Product information is available through:

- The Offering Information tool at:
<http://www.ibm.com/common/ssi>
- The Passport Advantage Web site at:
<http://www.ibm.com/software/passportadvantage>

Publications

The IBM Publications Center Web site 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, and they can all be downloaded free of charge.

The IBM Publications Notification System (PNS) Web site is at:

<http://service5.boulder.ibm.com/pnsrege.nsf/messages/welcome>

The PNS enables subscribers to set up profiles of interest by order number/product number. PNS subscribers automatically receive notifications by e-mail of all new publications defined in their profiles. These may then be ordered/downloaded via the Publications Center.

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

Title	Order Number
DB2® Administration Tool for z/OS™, V4.2 (5655-I23) License Information	GC27-1596
IMS™ Connect for z/OS, V2 (5655-K52) License Information	GC18-7259
IMS High Availability Large Database Conversion and Maintenance Aid for z/OS (5655-K47) License Information	GC18-7248
IMS High Performance Pointer Checker for z/OS (5655-K53) License Information	GC18-7256
IMS Library Integrity Utilities for z/OS (5655-I42) License Information	GC18-7024

The following publications **cannot be ordered in hardcopy**. The publications are made available on the Web at:

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

Publications on CD-ROM for the products in this announcement will be available on the next release of the following collections of software product libraries:

- z/OS Software Products Collection (SK3T-4270), BookManager® and PDF formats
- OS/390® Software Products Collection (SK2T-6700), BookManager format

Title	Order Number
DB2 Administration Tool for z/OS, V4.2 (5655-I23) User's Guide Quick Reference	SC27-1601 SX26-3850
IMS Connect for z/OS, V2 (5655-K52) Guide and Reference	SC18-7260
IMS High Availability Large Database Conversion and Maintenance Aid for z/OS (5655-K47) User's Guide	SC18-7249
IMS High Performance Pointer Checker for z/OS (5655-K53) User's Guide Volume 1 User's Guide Volume 2	SC18-7257 SC18-7258
IMS Library Integrity Utilities for z/OS (5655-I42) User's Guide	SC18-7025

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. A large number of publications are available online in various file formats, which can currently be downloaded free of charge.

The following material is available on the Internet at:

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

Overview brochure: IBM Tools for DB2 and IMS for z/OS and OS/390 (GC27-1070)

Fact sheets:

- DB2 Administration Tool (GC27-1045)
- IMS Connect (GC27-1071)
- IMS HALDB Conversion and Maintenance Aid (GC18-7596)
- IMS High Performance Pointer Checker included in IMS Database Analysis Tools (GC27-1066)

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- IMS Library Integrity Utilities included in IMS Database Productivity Tools (GC27-1068)

Specification sheets, user's guides, and white papers are also available on the CD-ROM (GK3T-7099).

Technical Information

Hardware Requirements: The products in this announcement will operate on any hardware configuration that supports the required versions of DB2 and IMS.

Software Requirements: The DB2 Administration Tool for z/OS, V4.2 requires DB2 V6, or later.

- DB2 V6 (5645-DB2)
- DB2 V7 (5675-DB2)

IMS HP Pointer Checker V2 and IMS Library Integrity Utilities require IMS V6, or later.

- IMS V6 (5655-158)
- IMS V7 (5655-B01)
- IMS V8 (5655-C56)

IMS HP Pointer Checker V2 requires:

- DFSORT™ V1.14 (5740-SM1) or a functionally equivalent sort program
- If the DB Historical Data Analyzer charts are displayed on TSO terminals, then the following products are required:
 - GDDM® V3.2 (5695-167), or later
 - GDDM — PGF V2.3 (5668-812), or later

IMS Library Integrity Utilities requires DFSORT V1.14 (5740-SM1), or a functionally equivalent sort program, if the LISTLIB command USESORT=YES in the ACBLIB Analyzer Utility is specified to reduce the CPU utilization time.

IMS HALDB Conversion and Maintenance Aid V2 requires IMS V7, or later.

IMS Connect V2

- Much of the base function of IMS Connect can be used with terminals, applications, and data running under IMS V7.
- IMS V8 is required for IMS Connect support for:
 - Distributed IMS operations
 - All IMS Connect V2 enhancements
- IMS Connector for Java™ WAS V5 support requires WebSphere® Application Server V5.

Planning Information

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

- Basic machine-readable material on a 3480 tape cartridge
- Program Directory
- Proof of Entitlement (PoE)
- IBM International Program License Agreement (IPLA)
- License Information

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.

Ordering Information

The products in this announcement have one charge unit: Value Unit.

Value Unit-based pricing will help to align the prices of these products to the principle of the PSLC pricing curve, which provides for a lower price per MSU (millions of service units per hour) for larger capacities.

There is also a price benefit when customers grow their capacity. Additional capacity will be based on the number of Value Units (MSUs) the customer has already installed, for example, additional capacity will not be priced starting at the base with a higher price per unit but on the capacity that is already installed.

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

Value Unit Exhibit VUE007

Usage Level	Minimum	Maximum	Value Units/ MSU	HW	Value Units/ Machine
Base	1	3	1	MP3000 H30	6
PSLC / Level A	4	45	0.45	MP3000 H50	8
PSLC / Level B	46	175	0.36	MP3000 H70	12
PSLC / Level C	176	315	0.27	ESL Models	2
PSLC / Level D	316	+	0.2		

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

Value Units for IBM 9672 processors will be based upon the full capacity of these systems. This is applicable to all S/390®-based systems that are measured on MSU capacity. Information on MSU capacities can be found in the System/370™, System/390®, and zSeries™ Machine Exhibit, Z125-3901.

Value Units for zSeries will be based on full MSU capacity as defined in the Machine Exhibits.

There will be a tool available that provides support for transforming the MSU-based capacities of S/390 systems to new Value Units by calculating the applicable number of Value Units for a given number of MSUs.

Translation from MSUs to Value Units Example

	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

For an example of translation from MSUs to Value Units, refer to the table below.

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

If the customer has installed 1,200 MSUs, the applicable Value Units would be:

Translation from MSUs to Value Units

	MSUs	x	Value Units/MSU	=	Value Units
Base	3	x	1.00	=	3.00
Tier A	42	x	.45	=	18.90
Tier B	130	x	.36	=	46.80
Tier C	140	x	.27	=	37.80
Tier D	885	x	.20	=	177.00
Total	1,200				284

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

	Value Unit	Feature Number
1	Value Unit	0001
250	Value Units	0002

Example: For a product running on machines with 1,200 MSUs requiring 284 Value Units, order feature number 0001, quantity 34 and feature number 0002, quantity 1.

Note: For actual feature numbers, refer to the table below.

Value Units for non-MSU-based S/390 Processors

MP3000 Models

H30	=	6.00	Value Units
H50	=	8.00	Value Units
H70	=	12.00	Value Units

P/390, R/390, IBM 3006 = 2.00 Value Units

Basic License: To order, specify the program number, feature number 9001 for asset registration, and the one-time charge (OTC) feature number. Also specify the feature number of the desired distribution medium. To suppress shipment of media, select the license-only option in CFSW.

When ordering DB2 or IMS data management tools for use in a Parallel Sysplex® environment, **specify the number of Value Units to cover the MSU capacity of the machines in the Parallel Sysplex to which DB2 and/or IMS is licensed.** The following examples illustrate how this rule applies to different situations.

- DB2 and/or IMS licensed on a single server

In a single zSeries server with a capacity of 140 MSUs with DB2 or IMS licensed to it, data management tool licenses are based on the 140 MSU capacity of the machine.

- DB2 or IMS licensed under PSLC in a sysplex

In a four-way sysplex with DB2 or IMS on all four machines in the sysplex, data management tool licenses are based on the total capacity in MSUs of all four machines or the total number of MSUs in the sysplex.

- DB2 or IMS licensed under PSLC in a sysplex under CEC level pricing

In a four-way sysplex with DB2 or IMS licensed to two machines in the sysplex, data management tool licenses are based on the total capacity in MSUs of the two machines where DB2 or IMS is licensed.

The ordering information is not changed for:

- DB2 Administration Tool for z/OS, V4.2 (5655-I23)
- DB2 Administration Tool for z/OS Subscription and Support (5655-E90)

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

Description	Program Number	OTC Feature Number	Medium Feature Number	Medium
IMS Connect for z/OS, V2 One Value Unit 250 Value Units	5655-K52	0001 0002	5822	Tape
IMS High Availability Database Conversion Large and Maintenance Aid for z/OS, V2 One Value Unit 250 Value Units	5655-K47	0001 0002	5802	Tape
IMS HP Pointer Checker for z/OS, V2 One Value Unit 250 Value Units	5655-K53	0001 0002	5802	Tape
IMS Library Integrity Utilities for z/OS One Value Unit 250 Value Units	5655-I42	0001 0002	5802	Tape
Upgrade from IMS Library Management Utilities for OS/390 (5655-E04) One Value Unit 250 Value Units		0003 0004		
Upgrade from IMS Advanced ACB Generator for OS/390 (5655-E05) One Value Unit 250 Value Units		0005 0006		
Upgrade from IMS Library Management Utilities for OS/390 (5655-E04) and IMS Advanced ACB Generator for OS/390 (5655-E05) One Value Unit 250 Value Units		0007 0008		

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 support program number and feature number 9001 for asset registration. 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 (IAAS). This offering:

- Includes and extends 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: The customer is not entitled to new products.

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

Description	ASC ¹ Program Number	ASC Feature Number	Medium Feature Number	Medium
Subscription and Support (S&S) for IMS Connect for z/OS	5655-E34		6224	Paper
One Value Unit		0007		
250 Value Units		0008		
Decline		1001		
IMS High Availability Large Database Conversion and Maintenance Aid for z/OS	5655-I02		6610	Paper
One Value Unit		0001		
250 Value Units		0002		
Decline		0003		
IMS HP Pointer Checker for z/OS	5655-E29		6203	Paper
One Value Unit		0007		
250 Value Units		0008		
Decline		1001		
IMS Library Integrity Utilities for z/OS	5655-K65		6000	Paper
One Value Unit		0001		
250 Value Units		0002		
Decline		0003		

¹ Annual Support Charge

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

Sub-Capacity Charges Terms and Conditions

zSeries software charges at less than full machine capacity for eligible Data Management (DM) Tools apply when z/OS is running in z/Architecture™ (64-bit) mode on a zSeries 900, no other MVS™-based operating system is licensed to that server and the required information is provided by the customer in accordance with the applicable terms.

Sub-capacity charges for an eligible DM Tool are based on the z/OS product-defined capacity. To obtain charges at less than full machine capacity for eligible DM tools, the customer is required to:

- Determine the MSUs needed for each machine on which the tools will run. Only machines on which the customer has implemented sub-capacity Workload License Charges (WLC) according to the above terms and conditions, are eligible for charges at less than full machine capacity for the tools.

- Use the product-defined capacity for z/OS (as specified on the Sub-Capacity Reports submitted to IBM for sub-capacity WLC) as the sub-capacity (MSUs) for each tool.
- Submit any additional MSUs and/or Value Units required for each product along with the current entitlement in Value Units for each product.

Sub-Capacity Charges for DM Tools

To be eligible for sub-capacity charges for DM Tools, the machine on which the DM Tools are running must be eligible for WLC sub-capacity charges terms and conditions. The customer must have signed the Attachment for zSeries Workload License Charges-Pre-ILM, Z125-6516, and submitted at least one Sub-Capacity Report to IBM as defined in the attachment.

With sub-capacity charges, the charge for an eligible DM Tool is based on the z/OS product-defined capacity. To obtain charges at less than full machine capacity for each eligible DM Tool for each machine, the customer should:

- Determine the MSUs needed for the machine on which the tools will run. In a data sharing environment, determine the aggregate MSUs needed on the machine where DB2 and/or IMS are installed. Use the product-defined capacity (MSUs) for z/OS (as specified on the Sub-Capacity Reports submitted to IBM for sub-capacity WLC) as the sub-capacity (MSUs) for each Tool.
- Submit any additional MSUs and/or Value Units required for each product along with the current entitlement in Value Units for each product.

- If the use of sub-capacity pricing terms for DM Tools results in a reduced requirement for Value Units, thus freeing up entitlements, customers can reallocate the entitlement difference by distributing the Value Units across a larger or different set of systems, or reserve them for future growth. There will be no refunds for these freed up Value Units. Subscription and Support volumes and entitlements for existing contracts will continue to be at the same levels as the acquired licenses.

Management of the Value Unit entitlements continues to be a customer responsibility. If one of the following occur on a machine to which DM Tools are licensed, the customer must determine if additional Value Units and Subscription and Support need to be ordered for those tools to cover the increase:

- The z/OS-defined capacity is increased.
- The requirements for WLC sub-capacity charges are no longer met.

Licensing: IBM International Program License Agreement. Proofs of Entitlement are required for all authorized use.

These products are licensed under the IPLA, the associated Agreement for Acquisition of Support, and the Addendum for Support (Z125-6336), which provide support with ongoing access to releases and versions of the program. These programs have a one-time license charge for use of the program. They also have an ongoing recurring charge for the enhanced support that includes telephone assistance (voice support for defects during normal business hours) and access to updates, releases, and versions of the program while support is in effect. S/390 and zSeries IBM Operational Support Services — Support Line is an option for customers who want added services.

Limited Warranty Applies: Yes

Program Services: These programs have program services for a minimum of one year from acquisition from IBM or authorized business partner. Customers will be notified of discontinuance of support with 12 months' notice.

Program Support: Enhanced support, called Subscription and Support, includes telephone assistance (voice support for defects during normal business hours) and 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.

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.

Money-Back Guarantee: If for any reason you are dissatisfied with the program, 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. This applies only to your first acquisition of the program.

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 — Support Line 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 the current and revised Support Line 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 — Support Line: Yes

AIX® /UNIX® Upgrade Protection Applies: No

Entitled Upgrade for Current AIX/UNIX Upgrade Protection Licensees: No

iSeries™ Software Subscription Applies: No

Variable Charges Apply: No

Educational Allowance Available: Yes, 15% education allowance applies to qualified education institution customers.

Replaced Programs

DBT, V1, Feature Space Management Utilities (5668-856)

DBT, V2, Feature Space Management Utilities (5685-093)

Replacement Programs

IMS High Performance Pointer Checker for z/OS, V2 (5655-K53)

Prices

Contact your IBM representative for pricing information for this announcement.

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