



IBM COBOL for AIX , V4.1 delivers support for the latest POWER7 systems architecture as well as functional improvements and usability enhancements

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At a glance

COBOL for AIX®, V4.1 delivers the following:

- 64-bit application development
- Unicode support to develop COBOL programs that exclusively use Unicode for all application data
- Support for Extensible Markup Language to integrate COBOL with XML
- Object-oriented COBOL for interoperability with Java™
- Integration of the latest compiler back-end from XL C, XL C/C++, and XL Fortran for AIX to give better performance
- Inclusion of an improved IBM® Debugger for AIX that enables you to conveniently debug programs in 32- or 64-bit mode
- Support for the Rational® Developer for Power Systems Software™

For ordering, contact your IBM representative, an IBM Business Partner, or IBM Americas Call Centers at 800-IBM-CALL (Reference: YE001).

Overview

COBOL for AIX, V4.1 provides a productive and powerful development environment for building COBOL applications. It includes a COBOL compiler, a COBOL library, and a debugger for the AIX operating system.

COBOL for AIX allows you to use your existing code to upgrade your applications with the newest technologies. The goal of COBOL for AIX is to enable developers to leverage over three decades' worth of applications in new endeavors. It delivers needed COBOL function to continue integration of COBOL and Web-oriented business processes.

New in V4.1:

- A new ARCH compiler option to exploit the POWER7 Systems™ Architecture
- A new file system to support files stored in DB2®, providing enhanced interoperation with TXSeries® CICS®
- Extended length source format allowing up to 252 bytes of COBOL text on each line

- A source conversion utility (SCU) to convert source from other COBOL implementations
- Support for generation data groups for better compatibility with Enterprise COBOL for z/OS®
- Support for concatenation of input files for better compatibility with Enterprise COBOL for z/OS
- Customization of compiler message severity
- A new floating comment indicator that lets you code inline comments
- Support of the underscore character in user-defined words

Key prerequisites

- IBM Power Systems™ servers that are supported by AIX 5.3, AIX 6.1, and AIX 7.1
- 500 MB of disk space

Planned availability date

- September 10, 2010: Electronic software delivery
- September 17, 2010: Physical software delivery

Description

Flexibility to support the new POWER7 systems architecture

In COBOL for AIX, V4.1, the new ARCH compiler options lets you selectively tune code generation in your programs to either optimize for the POWER7™ systems architecture, or to be balanced among all supported POWER systems including POWER4™, POWER5™, POWER6™, and POWER7. The ARCH option adjusts the generated instructions and the scheduling, and tunes the code to give the best performance for the specified architecture.

A new optimizing back-end component for COBOL for AIX

An upgraded optimizing back-end component is available internally within COBOL for AIX. This common back-end compiler component is shared with other AIX compilers such as XL C, XL C/C++, and XL Fortran. Through this common code base, COBOL for AIX programmers will benefit from the latest optimization technologies and continuous quality improvements provided from other IBM compilers supporting the POWER systems architectures.

Additional file system supporting access to DB2

A new file system, DB2, is implemented in COBOL for AIX, V4.1 to deliver enhanced interoperation with CICS. The DB2 file system enables batch COBOL programs to access CICS ESDS, KSDS, and RRDS files that are stored in DB2.

Performance of CICS transactions

The performance of persistent CICS transactions is improved by means of module caching.

Extended length source format

With COBOL for AIX, V4.1, you now have the flexibility to extend the length of your source text to up to 252 bytes per line or to continue to use the current 72-byte fixed format. A new compiler option, SRCFORMAT, is introduced to indicate whether

the source lines of your program has the new extended format or the existing fixed format.

Source conversion utility

A source conversion utility (SCU) helps you normalize source from other COBOL implementations, including free-format COBOL source, so that it can be compiled using COBOL for AIX, V4.1.

Generation data group

Version 4.1 introduces support for generation data groups (GDGs). The concept of GDG comes from the z/OS environment and provides for simplified processing of multiple versions of related data. The GDG feature allows a number of related files to be grouped together with the following benefits:

- All of the files in the group can be referred to by a common name.
- The files in the group are kept in generation order.
- Outdated generations can be automatically discarded.

A new utility, `gdgmgr`, is provided for GDG catalog and generation management. `gdgmgr` allows users to initialize, delete, rebuild, clean up, modify, and list AIX generation data sets. You can add or delete generation data sets, and resolve relative names to their absolute equivalent. Attributes such as the maximum number of files it can contain, and the specifics of clean-up processing, including an extended lifetime for over-limit files, can be specified for each GDG.

GDGs are supported for files in all of the existing AIX COBOL files systems including native AIX, record sequential delimited (RSD), SMARTdata Utilities (SdU), standard language file system (STL), Encina® Structured File Server (SFS), and DB2.

Support of GDGs allows for better compatibility between Enterprise COBOL for z/OS and COBOL for AIX source.

Concatenation of input files

COBOL for AIX, V4.1 is enhanced to support the z/OS concept of concatenation or chaining of multiple input files so that they appear to the program as one file. You can concatenate individual files, individual generation data sets (GDSs), or entire generation data groups (GDGs) by separating the file identifiers with a colon (:). Concatenation of files in all COBOL for AIX file systems is supported. Support of concatenation allows for better compatibility between Enterprise COBOL for z/OS and COBOL for AIX source.

Compiler message severity customization

When COBOL for AIX compiles your source program, it checks for COBOL language problems, and issues diagnostic messages. These messages are collated in the compiler listing (subject to the FLAG option). Each message in the listing provides information about the nature of the diagnostic and its severity. Message severity falls into one of five categories:

- Informational
- Warning
- Error
- Severe
- Unrecoverable

The final return code at the end of the compilation is generally the highest return code that occurred for any message during compilation.

In COBOL for AIX, V4.1, you can customize compiler diagnostic message severity. The new MSGEXIT suboption of the EXIT compiler option lets you specify a module that is called for each compiler diagnostic message and each FIPS (FLAGSTD) message. Using the MSGEXIT module, you can change the severity of messages, suppress messages, and convert FIPS messages into diagnostic messages, which can affect the final compilation return code.

Floating comment indicator

A floating comment indicator (the character string '*>') can be coded as the first string in the program text area (area A plus area B) of a line in either fixed or extended source format to indicate a comment line, and can be used after one or more character strings in a line to indicate that the ensuing text is an inline comment.

COBOL user-defined words can now include the underscore character

In COBOL for AIX V4.1, COBOL user-defined words such as data names and program names can now include underscore characters (_). The underscore character is also supported in the literal form of program names

COBOL source files passed to the compiler

In COBOL for AIX, V4.1, files that have a suffix of either .cbl or .cob are passed to the compiler.

Inclusion of an improved source-level debugger

The IBM Debugger for AIX is an interactive source-level debugger. It works on a Windows-based client that is connected remotely to a debugger engine running on AIX. The Debugger for AIX lets you conveniently debug applications that are written in C, C++, and COBOL in 32-bit or 64-bit mode from your workstation.

The debugger displays application source files and the elements in those source files. You can single-step, step through, or step over a specified line; and you can stop execution at a specified line or condition. While controlling execution, you can monitor variables, registers, memory, call stacks, and other elements.

An enhanced level of the IBM Debugger for AIX is packaged in COBOL for AIX, V4.1:

- Eclipse debug perspective is now used providing you with a more familiar user interface and making your debug skills portable to Rational Developer for Power Systems Software.
- Full variable/monitor data is displayed for more COBOL data types.
- Debugging of TxSeries CICS transactions
- Improved performance at start-up and module load time, especially when debugging large applications.

Support for IBM Rational Developer for Power Systems Software

The COBOL for AIX V4.1 compiler is enhanced and tested to work with the COBOL Development Tools for AIX feature within Rational Developer for Power Systems Software.

COBOL Development Tools for AIX provides a rich set of development tools for developing COBOL applications on AIX. This includes:

- An Eclipse-based development environment with integrated searching, editing, build and debug capabilities
- Access to files, processes, and shells

- Rich COBOL editing support with context assist, outline view, color tokenizing, quick navigation, and much more
- Integrated build support and error feedback
- Debugging with support for real-time monitoring of variable changes
- Attach to core files for postmortem analysis
- Integration with Rational Team Concert™ for Power Systems Software for Collaborative Application Lifecycle Management.

The IBM COBOL compiler, Rational Developer for Power® tools and the in-time/ in-context collaboration capabilities of Rational Team Concert for Power, offer an integrated environment that can significantly enhance developer productivity.

Accessibility by people with disabilities

A U.S. Section 508 Voluntary Product Accessibility Template (VPAT) containing details on accessibility compliance can be requested at

http://www.ibm.com/able/product_accessibility/index.html

Section 508 of the U.S. Rehabilitation Act

COBOL for AIX, V4.1 is capable as of September 10, 2010, when used in accordance with associated IBM 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. A US Section 508 Voluntary Product Accessibility Template (VPAT) can be requested on the following Web site

http://www-03.ibm.com/able/product_accessibility/index.htmlv

Product positioning

COBOL across platforms

COBOL for AIX, V4.1 is part of a family of compatible compilers, application development tools, and maintenance tools. The IBM COBOL family consists of COBOL for AIX, Enterprise COBOL for z/OS, ILE COBOL for System i®, and COBOL for Windows® (packaged as part of IBM Rational Developer for System z®).

Program number

Program number	VRM	Program name
5724-Z87	4.1	IBM COBOL for AIX

Product identification number

Program name	Program number
COBOL for AIX, v4.1	5724-Z87
COBOL for AIX	5648-F78
SW S&S 1 Year After License	
- per Authorized User	0001
- per Concurrent User	0002

COBOL for AIX	5648-F81
SW S&S No Charge Registration/ 1 Year Renewal	
- per Authorized No Charge Reg	0001
- per Authorized 1 Year Renewal	0002
- per Concurrent No Charge Reg	0003
- per Concurrent 1 Year Renewal	0004
COBOL for AIX	5648-F80
SW S&S 3 Year Registration	
- per Authorized User	0001
- per Concurrent User	0002
COBOL for AIX	5648-F79
SW S&S 3 Year Renewal	
- per Authorized User	0001
- per Concurrent User	0002
COBOL for AIX	5648-F77
SW S&S 3 Year After Licence	
- per Authorized User	0001
- per Concurrent User	0002

Offering Information

Product information is available via the Offering Information Web site

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

Also, visit the Passport Advantage® Web site

<http://www.ibm.com/software/passportadvantage>

Publications

The publication *COBOL for AIX Installation Guide* (GC27-3604), is shipped with this program.

The following publications can be ordered from the Publications Center:

Title	Order number
COBOL for AIX Installation Guide	GC27-3604
COBOL for AIX Language Reference	SC27-3602
COBOL for AIX Programming Guide	SC27-3601
COBOL for AIX VSAM File System Reply Messages	SC27-3603

The IBM Publications Center

<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 (in the U.S.) or customer number for 20 countries. A large number of publications are available online in various file formats, and they can all be downloaded by all countries, free of charge.

Technical information

Specified operating environment

Hardware requirements

For COBOL for AIX, V4.1

- System: IBM Power Systems servers supported by AIX V5.3, AIX 6.1 or AIX 7.1
- 256 MB of memory (512 MB, or higher, recommended)
- Disk space: 210 MB for COBOL compiler, tools, and product information

Software requirements

For COBOL for AIX, V4.1

- AIX V5.3 TL 5300-09 (or higher), AIX 6.1 TL 6100-02 (or higher), or AIX 7.1
- Viewers to access and display the documentation such as:
 - Frames-capable browser to access HTML documentation
 - Portable Document Format (PDF) viewer to view PDF files

Optional programs

To use COBOL for AIX with optional programs, additional products are required:

- COBOL applications that embed EXEC SQL statements require DB2
 - COBOL 32-bit applications that embed EXEC SQL statements require DB2 V9.1 for Linux®, UNIX®, and Windows, DB2 V9.5 for Linux, UNIX, and Windows with fix pack 3, or DB2 V9.7 for Linux, UNIX, and Windows
 - COBOL 64-bit applications that embed EXEC SQL statements require DB2 V9.1 for Linux, UNIX, and Windows, DB2 V9.5 for Linux, UNIX, and Windows with fix pack 3, or DB2 V9.7 for Linux, UNIX, and Windows
- COBOL applications that embed EXEC CICS statements require TXSeries for Multiplatforms
 - When you use the integrated translator: TXSeries for Multiplatforms, V6.2 with PTF 1 or TXSeries for Multiplatforms, V7.1
 - When you use both the integrated translator and the precompiler: TXSeries for Multiplatforms, V6.2 with PTF1 or TXSeries for Multiplatforms, V7.1
- When using object-oriented COBOL syntax for Java interoperability
 - Java 2 Platform, Standard Edition, v1.4.2.275, or Java 2 Platform, Standard Edition, v5, or Java 2 Platform, Standard Edition, v6
 - 64-bit applications -- Require the 64-bit version of the Java SDK
 - 32-bit applications -- Require the 32-bit version of the Java SDK

The program's specifications and specified operating environment information may be found in documentation accompanying the program, if available, such as a README file, or other information published by IBM, such as an announcement letter. Documentation and other program content may be supplied only in the English language.

Planning information

Web information

For information regarding COBOL for AIX, visit

<http://www.ibm.com/software/awdtools/cobol>

For information regarding IBM application development, visit

<http://www.ibm.com/software/awdtools/>

Packaging

The COBOL for AIX, V4.1 package contains:

- One CD-ROM containing the COBOL for AIX, V4.1 product
- Quick Start Guide
- Passport Advantage customer letter
- Passport Advantage media pack pointer sheet

This program, when downloaded from a Web site, contains the applicable IBM license agreement and License Information, if appropriate, and will be presented for acceptance at the time of installation of the program. For future reference, the license and License Information will be stored in a directory such as LICENSE.TXT.

Security, auditability, and control

COBOL for AIX, V4.1 uses the security and auditability features of the host hardware or 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 Software 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 extensive portfolio of capabilities. Together, we provide the global reach, intellectual capital, industry insight, and technology leadership to support a wide range of critical business needs.

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

Product Group: IBM COBOL

Product Identifier Description: IBM COBOL for AIX

PID: 5724-Z87

Product Category: COBOL

Charge metric

Program name	Part number or PID number	Charge metric
COBOL for AIX, V4.1	5724-Z87	Authorized User Concurrent User
COBOL for AIX, V4.1	BA0ZGML	Authorized User Concurrent User

This program is licensed and charged based upon either the Authorized User or Concurrent User charge metric.

Authorized User

Authorized User is a unit of measure by which the program can be licensed. An Authorized User is a unique person who is given access to the program. The program may be installed on any number of computers or servers and each Authorized User may have simultaneous access to any number of instances of the program at one time. Licensee must obtain separate, dedicated entitlements for each Authorized User accessing the program in any manner directly or indirectly (for example: via a multiplexing program, device, or application server) through any means. An entitlement for an Authorized User is unique to that Authorized User and may not be shared, nor may it be reassigned other than for the permanent transfer of the Authorized User entitlement to another person.

Concurrent User

Concurrent User is a unit of measure by which the program can be licensed. A Concurrent User is a person who is accessing the program at any particular point in time. Regardless of whether the person is simultaneously accessing the program multiple times, the person counts only as a single Concurrent User. The program may be installed on any number of computers or servers, but Licensee must obtain entitlements for the maximum number of Concurrent Users simultaneously accessing the program. Licensee must obtain an entitlement for each simultaneous Concurrent User accessing the program in any manner directly or indirectly (for example: via a multiplexing program, device, or application server) through any means.

Passport Advantage

Program Name/Description	Part Number
COBOL for AIX, V4.1 Media Package Multilingual	BA0ZGML
COBOL for AIX, V4.1 Authorized User Lic + SW S&S 12 Mo	D5A1VLL
COBOL for AIX Authorized User Annual SW S&S Rnw1	E1A1XLL
COBOL for AIX Authorized User SW S&S Reinstate 12 Mo	D5A1YLL
COBOL for AIX Concurrent User Lic + SW S&S 12 Mo	D06Q7LL
COBOL for AIX Concurrent User Annual SW S&S Rnw1	E05Y6LL
COBOL for AIX Concurrent User SW S&S Reinstate 12 Mo	D06Q8LL

Passport Advantage trade-up

Customers who have originally acquired licenses for Authorized User can trade-up their Authorized User licenses to an equivalent or appropriate number of Concurrent User licenses (previously known as Floating User).

Below is a list of precursor products and their associated Authorized User part numbers for which you must have already acquired a license, in order to be eligible to acquire the equivalent Concurrent User licenses using the trade-up part number.

Precursor product	Trade-up product	Trade-up part number
COBOL for AIX Authorized User single entitlement	COBOL for AIX Concurrent User single entitlement	D0DFPLL to trade up from single Authorized User to single Concurrent User

Consult your IBM representative if you have any questions.

Passport Advantage Customer: Media Pack Entitlement details

Customers with active Maintenance or Subscription for the products listed below are entitled to receive the corresponding media pack.

Entitled Maintenance offerings
Description

COBOL for AIX

Media Pack Description	Part Number
COBOL for AIX, V4.1 Media Pk Multilingual	BA0ZGML

Basic License: To order the programs described in this announcement for 5724-Z87, specify the type-model number and the applicable features from the tables below. The medium feature (CD-ROM) need only be specified as required. To request the media package (CD-ROM), specify media supply feature 5809 and 3410.

When placing an ESD order in econfig, specify a billing feature, the media feature 5809 and 3410, and the following ESD only feature: 3450.

Description	Program number	One-Time charge feature number	Medium feature number
COBOL for AIX, V4.1 OTC with 1 Year SW S&S	5724-Z87		
- per Authorized User		0233	
- per Concurrent User		0234	
Media Package		CD-ROM	5809
		CD-ROM	3410
Expedite Fee charge to Branch			3445
Customization features:			
ESD for upgrades only			3450
Do not ship pubs			3470
Do not ship media			3471

Electronic Software Update Orders

Entitled Software Update (ESU) is a way for customers to self order their POWER software release upgrades via the Entitled Software Support (ESS) Web site without the need to go to their seller to place the upgrade order. Entitled Software Update (ESU) orders for Electronic Software Delivery (ESD), will now be available in all countries.

ESU orders for POWER software including COBOL for AIX, V4.1 will be placed on the Entitled Software Support (ESS) Web site

<https://www-05.ibm.com/servers/eserver/ess/OpenServlet.wss>

Customers should generally select electronic delivery when ordering via ESU, but do have the ability to select physical delivery. Programs ordered for ESD will have the same download images provided as provided on the CD media shipped for physical orders.

ESU customers placing ESD software orders will receive an e-mail with software order information. The ESU customer will be able to immediately proceed to the "Downloads" Web site support for program access, instead of waiting for delivery of a physical package shipped from IBM.

Customers choosing physical delivery will also have the electronic images available for ESD download.

ESD help (instructions on how to use)

http://www.ibm.com/systems/support/software/delivery/en_US/downloadinfo.html

ESD sign-in (must have Customer number & POWER software entitlements to get in)

<http://www.ibm.com/servers/eserver/ess/OpenServlet.wss>

List of POWER software products that are available for electronic download

http://www.ibm.com/systems/support/software/delivery/en_US/supportedproducts.html

Maintenance Offering Customer: Media Supply Entitlement details

Customers with active Software Maintenance are entitled to receive the media supply corresponding to COBOL for AIX, V4.1.

Eligible customers should add the applicable CD-ROM media supply feature number from the following table to their existing maintenance record. To request the media package (CD-ROM), specify the media supply features 5809 and 3410.

When placing an ESD order in econfig, specify a billing feature, the media features 5809 and 3410, and the following ESD only feature: 3450. Note that these ESD features are also applicable to the compiler product, COBOL for AIX, V3.1 (5724-V62).

Entitled maintenance offerings description

COBOL for AIX

Description		Medium feature number
COBOL for AIX, V4.1 (5724-Z87)	CD-ROM Media Supply	5809
	CD-ROM Media Supply	3410
	Expedite fee charge to Branch	3445
	Customization features:	
	ESD for upgrades only	3450
	Do not ship pubs	3470
	Do not ship media	3471

Trade up from Authorized User to Concurrent User

Customers who have originally acquired licenses for Authorized User can trade up their Authorized User licenses to an equivalent or appropriate number of Concurrent User licenses.

The following is a list of precursor products for which you must have already acquired a license, in order to be eligible to acquire the equivalent Concurrent User licenses using the trade-up feature number.

Precursor product	Trade-up product	Trade-up feature number
COBOL for AIX Authorized User single entitlement	COBOL for AIX Concurrent User single entitlement	Is used to trade up from single Authorized User to single Concurrent User

Consult your IBM representative if you have any questions.

Description	One-Time Charge program number	Feature number
COBOL for AIX, V4.1 - trade up from single Authorized User entitlement to single Concurrent User entitlement	5724-Z87	0235

This software license includes Software Maintenance, previously referred to as Software Subscription and Technical Support.

Extending coverage for a total of three years from the date of acquisition may be elected. Order the program number, feature number, and quantity to extend coverage for your software licenses. If maintenance has expired, specify the after license feature number.

Feature description	Feature number
5724-Z87 - COBOL for AIX, V4.1 Per Authorized User with 1 Year SW S&S	0233
Per Concurrent User with 1 Year SW S&S	0234
5724-Z87 - COBOL for AIX, V4.1 Multilingual, CD ROM	5809 3410
5648-F81 - IBM COBOL for AIX Per Authorized User SW S&S NoCharge Registration	0001
Per Authorized User SW S&S 1 Year Renewal	0002
Per Concurrent User SW S&S NoCharge Registration	0003
Per Concurrent User SW S&S 1 Year Renewal	0004
5648-F78 - IBM COBOL for AIX Per Authorized User SW S&S 1 Year After License	0001
Per Concurrent User SW S&S 1 Year After License	0002
5648-F80 - IBM COBOL for AIX Per Authorized User SW S&S 3 Year Registration	0001
Per Concurrent User SW S&S 3 Year Registration	0002
5648-F79 - IBM COBOL for AIX Per Authorized User SW S&S 3 Year Renewal	0001
Per Concurrent User SW S&S 3 Year Renewal	0002
5648-F77 - IBM COBOL for AIX Per Authorized User SW S&S 3 Year After License	0001
Per Concurrent User SW S&S 3 Year After License	0002

Terms and conditions

The information provided in this announcement letter is for reference and convenience purposes only. The terms and conditions that govern any transaction with IBM are contained in the applicable contract documents such as the IBM International Program License Agreement, IBM International Passport Advantage Agreement, and the IBM Agreement for Acquisition of Software Maintenance.

Licensing

IBM International Program License Agreement including the License Information document and Proof of Entitlement (PoE) govern your use of the program. PoEs are required for all authorized use. Part number products only, offered outside of Passport Advantage, where applicable, are license only and do not include Software Maintenance.

This software license includes Software Subscription and Support (also referred to as Software Maintenance).

Agreement for Acquisition of Software Maintenance

The IBM Agreement for Acquisition of Software Maintenance (Z125-6011) agreement applies for subscription and support (also referred to as Software Maintenance) and does not require customer signatures.

These programs are licensed under the IBM Program License Agreement (IPLA) and the associated Agreement for Acquisition of Software Maintenance, which provide for support with ongoing access to releases and versions of the program. IBM includes one year of Software Subscription and Support (also referred to as Software Maintenance) with the initial license acquisition of each program acquired. The initial period of Software Subscription and Support (also referred to as Software Maintenance) can be extended by the purchase of a renewal option, if available. 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.

License Information form number

L-JYIP-874QA6

The program's License Information will be available for review on the IBM Software License Agreement Web site

<http://www.ibm.com/software/sla/sladb.nsf>

Limited warranty applies

Yes

Limited warranty

IBM warrants that when the program is used in the specified operating environment, it will conform to its specifications. The warranty applies only to the unmodified portion of the program. IBM does not warrant uninterrupted or error-free operation of the program or that IBM will correct all program defects. You are responsible for the results obtained from the use of the program.

IBM provides you with access to IBM databases containing information on known program defects, defect corrections, restrictions, and bypasses at no additional charge. For further information, consult the *IBM Software Support Handbook* found at

<http://www.ibm.com/support/handbook>

IBM will maintain this information for at least one year after the original licensee acquires the program (warranty period).

Program technical support

Technical support of a program product will be available for a minimum of five years from the general availability date, as long as your Software Subscription and Support (also referred to as Software Maintenance) is in effect. This technical support allows you to obtain assistance (via telephone or electronic means) from IBM for product-specific, task-oriented questions regarding the installation and operation of the program product. Software Subscription and Support (Software Maintenance) also provides you with access to updates, releases, and versions of the program. You will be notified, via announcement letter, of discontinuance of support with 12 months' notice. If you require additional technical support from IBM, including an extension of support beyond the discontinuance date, contact your IBM representative or IBM Business Partner. This extension may be available for a fee.

Money-back guarantee

If for any reason you are dissatisfied with the program and you are the original licensee, you may obtain a refund of the amount you paid for it, if within 30 days of your invoice date you return the program and its PoE to the party from whom you obtained it. If you downloaded the program, you may contact the party from whom you acquired it for instructions on how to obtain the refund.

For clarification, note that (1) for programs acquired under the IBM International Passport Advantage offering, this term applies only to your first acquisition of the program and (2) 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 you.

Authorization for use on home/portable computer

The program may be stored on the primary machine and another machine, provided that the program is not in active use on both machines at the same time.

Volume orders (IVO)

Yes. Contact your IBM representative.

Passport Advantage applies

Yes, and through the Passport Advantage Web site at

<http://www.ibm.com/software/passportadvantage>

Usage restriction

Yes. For additional information, refer to the License Information document that is available on the IBM Software License Agreement Web site

<http://www.ibm.com/software/sla/sladb.nsf>

Software Subscription and Support (Software Maintenance) applies

Yes. Software Subscription and Support (also referred to as Software Maintenance), is now included in the Passport Advantage Agreement. Installation and technical support for the products announced in this announcement is provided by the Software Subscription and Support (Software Maintenance) offering of the

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