



Licensed Program Specifications

OS/390 Version 2 Release 10 Program Number 5647-A01

OS/390® is an operating system consisting of a set of MVS-based, open, client/server and application enabling functions that are orderable using a single program number. In addition, optional features are available with OS/390.

Base Elements

OS/390 Version 2 Release 10 contains the following base elements:

- Base Control Program (BCP)
- BookManager® BookServer
- BookManager READ
- Bulk Data Transfer (BDT)
- C/C++ IBM® Open Class™ Library¹
- Cryptographic Services
- DCE Application Support
- DCE Base Services
- DFSMSdftp™
- Distributed File Service
- Encina® Toolkit Executive
- EREP
- ESCON® Director Support
- FFST™
- GDDM®
- Hardware Configuration Definition (HCD)
- High Level Assembler (HLASM)
- IBM Communications Server
- IBM HTTP Server
- ICKDSF
- ISPF
- JES2
- Language Environment®
- LANRES
- MICR/OCR
- Network File System (NFS)
- Open Systems Adapter Support Facility (OSA/SF)
- Security Server LDAP²
- Security Server Network Authentication and Privacy Service³
- SMP/E
- SOMobjects™ Runtime Library (RTL)
- Text Search
- TIOC
- Tivoli™ Management Framework
- TSO/E
- OS/390 UNIX® System Services
- 3270 PC File Transfer Program

Optional Features

OS/390 Version 2 Release 10 contains the following optional features:

- BDT File-to-File
- BDT SNA NJE
- BookManager BUILD
- C/C++ with Debug Tool¹
- C/C++ without Debug Tool¹
- DFSMSdss™
- DFSMShsm™
- DFSMSrmm™

The following are trademarks or registered trademarks of International Business Machines Corporation in the United States or other countries or both: IBM, BookManager, DFSMSdftp, DFSMSdss, DFSMShsm, DFSMSrmm, DFSORT, ESCON, FFST, GDDM, Infoprint, Language Environment, Multiprise, MVS/ESA, Open Class, OS/390, Parallel Enterprise Server, RMF, RS/6000, S/390, System/390, SecureWay, SOMobjects, and SP.

Encina is a registered trademark of Transarc Corporation in the United States or other countries or both.

Tivoli is a trademark of Tivoli Systems Inc.

UNIX is a registered trademark of The Open Group in the United States and other countries.

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

- ¹ Retroactive to OS/390 Version 1 Release 3, the C/C++ IBM Open Class Library component of the C/C++ Optional Feature is licensed with the OS/390 base operating system and can be used without enabling the C/C++ Optional Feature.
- ² As of OS/390 Version 2 Release 8, the LDAP function of the Security Server feature is licensed with the OS/390 base operating system and can be used without enabling the feature.
- ³ As of OS/390 Version 2 Release 10, the Security Server Network Authentication and Privacy Service is licensed with the OS/390 base operating system and can be used without enabling the Security Server feature.

- DFSORT™
- GDDM-PGF
- GDDM-REXX
- Hardware Configuration Manager (HCM)
- HLASM Toolkit
- IBM Comm Server NPF
- IBM Comm Server Security Level 1
- IBM Comm Server Security Level 2
- IBM Comm Server Security Level 3
- IBM HTTP Server NA Secure
- Infoprint® Server
- JES3
- Open Cryptographic Service Facility Security Level 3
- RMF™
- SDSF
- SecureWay™ Security Server
- SOMobjects ADE
- System SSL Security Level 3

For details about OS/390 base elements and optional features, see *OS/390 Introduction and Release Guide*, GC28-1725, sections "OS/390 - Description of Base Elements" and "OS/390 - Description of Optional Features."

Specified Operating Environment

Year 2000 Ready: This IBM product, when used in accordance with its associated documentation, is capable of correctly processing, providing and/or receiving date data within and between the twentieth and twenty-first centuries, provided that all products (for example, hardware, software, and firmware) used with this IBM product properly exchange accurate date data with it.

Machine Requirements: OS/390 Release 10 runs on the following IBM processors:

- All models of the IBM S/390® Parallel Enterprise Server® R2 and R3, as well as Generation 3 and above.
- All models of the IBM S/390 Multiprise®- 2000 or 3000.
- All S/390 Integrated Servers
- PC Server System/390® or RS/6000® with S/390 Server-on-Board

OS/390 Release 10 runs on the above processors in native mode, or in enhanced LPAR mode in hardware configurations of two or more CPs.

For additional requirements of specific elements, see "Appendix B, Hardware Requirements" in *OS/390 Planning for Installation Release 10*, GC28-1726.

Programming Requirements: For OS/390, most of the software requirements of a specific element are satisfied by other elements in OS/390. However, some elements have optional functions with software dependencies beyond OS/390.

For additional requirements of specific elements and information about specific release/service levels of other IBM products that run with OS/390, see "Appendix A, Software Requirements" in *OS/390 Planning for Installation Release 10*, GC28-1726.

Licensed Program Materials Availability

Restricted materials - Yes. This licensed program is available with source licensed program materials for some modules designated as "RESTRICTED MATERIALS OF IBM." The remaining licensed programming materials are available and are not designated as "RESTRICTED MATERIALS OF IBM."

Supplemental Terms

Designated Machine Identification: Designated Machine Identification Required - Yes.

Testing Period: Basic license - Two (2) months. Distributed Systems License Option (DSLO) - None.

Licensees may test OS/390 for a period of two months for no charge; only one testing period per licensee is allowed for each release of OS/390. The no-charge testing may include the OS/390 base product and any previously ordered OS/390 optional features. Licensees will be charged for any OS/390 optional features that are ordered after the start of the testing period; however, if licensees are not completely satisfied with any subsequently ordered features, they may request a credit of up to two months of payments. IBM will issue the credit, providing that licensees first disable the feature and notify IBM accordingly. (For information about disabling OS/390 features, see the section "Disabling What was Enabled" in *OS/390 Planning for Installation Release 10*, GC28-1726.) Upon issuance of the credit, the license to the applicable feature is terminated. No credit is available if the same features are subsequently enabled.

Installation/Location License: Not applicable. A separate license is required for each machine on which the licensed program materials are used.

Use-Based Charges/Usage Restriction: Charges for this Program are based on the Machine group we specify for the Designated Machine. If you change (including upgrade or downgrade) the Designated Machine to a Machine in another group, you may incur a group upgrade charge or a changed recurring charge.

Subject to the following paragraphs of this Use-Based Charges/Usage Restriction section, OS/390 licensees are authorized to use only OS/390 base elements, features licensed with the base, and the optional features they have ordered or received "enabled" from IBM. Licensees may also receive other optional features "disabled" for installation with OS/390. "Disabled" optional features that a licensee subsequently "enables" also become subject to the payment terms of the license for OS/390. Customers must notify IBM when they "enable" an optional feature that was shipped "dis-

abled" from IBM. For information about enabling OS/390 features, see the section "Using Dynamic Enablement" in *OS/390 Planning for Installation Release 10*, GC28-1726.

Portions of the IBM Weak Software Cryptographic Service Provider and the IBM Software Cryptographic Service Provider contained in the Open Cryptographic Services Facility Security Level 3 feature (referred to as the "OCSF feature") of OS/390 contain software code provided by RSA Data Security, Inc.

Prior to utilizing the OS/390 Open Cryptographic Services APIs of the IBM Software Cryptographic Service Provider or the IBM Weak Software Cryptographic Service Provider functionality contained in the OCSF feature of OS/390 for purposes of development and test only, you must provide your company name, company contact name, address, and telephone number to RSA Data Security, Inc. (RSA) by sending this information to the following address:

Email: sales@rsa.com<<mailto:sales@rsa.com>>

or

RSA Data Security, Inc.
2955 Campus Drive
Suite 400
San Mateo, CA 94403-2507
Attention: SALES

or

Fax: 650-295-7770
Attention: SALES

Prior to using (except for test or development purposes), marketing, selling, or distributing applications developed by you that directly utilize the Open Cryptographic Services Facility Cryptographic Services APIs of the IBM Software Cryptographic Service Provider or the IBM Weak Software Cryptographic Service Provider functionality (that is, utilizing the Open Cryptographic Services Facility Cryptographic Services APIs of the IBM Software Cryptographic Service Provider or the IBM Weak Software Cryptographic Service Provider contained in the OCSF feature), you must first obtain (if you have not already done so) a license from RSA for that application.

Type/Duration of Program Services: Program service, including the IBM Support Center, will be available until discontinued by IBM upon twelve month's written notice. Program service, including the IBM Support Center, for DSLO licenses will be provided only through the customer location designated for the basic license.

Softcopy Publications: OS/390 Version 2 Release 10 includes licensed publications in displayable form. Except as provided in this section, the terms and conditions of the license agreement with IBM apply to these publications and to any copies that are made from them.

The licensed publications may be used in displayable form on all machines designated for this program. The licensed publications may also be copied and used on other machines in support of the authorized use of this program.

To support authorized use of OS/390 Version 2 Release 10, printed copies of the displayable material may be made if the copyright notice and any other legend of ownership is reproduced on each copy or partial copy.

Additional Supplemental Terms

Security Server LDAP: As of Version 2 Release 8, the LDAP function of the Security Server feature is licensed with the OS/390 base and can be used without enabling the feature and without additional cost.

| **Security Server Network Authentication and**
| **Privacy Service:** As of Version 2 Release 10,
| the Network Authentication and Privacy Service of
| the Security Server feature is licensed with the
| OS/390 base and can be used without enabling
| the feature and without additional cost.

Export: Any application you create and export or re-export from the U.S. utilizing the Open Cryptographic Services Facility Cryptographic Services or SSL Services may be subject to special export licensing requirements by the Bureau of Export Administration of the U.S. Department of Commerce.

C++ Class Library DLLs: This redistribution information applies to C/C++.

Retroactive to Version 1 Release 3, the C/C++ IBM Open Class Library component is licensed with the OS/390 base and can be used without enabling the C/C++ feature. The following redistribution information is only required for applications that use the C++ Class Library DLLs for execution on a system prior to OS/390 Version 1 Release 3.

You can copy only the message files and C++ Class Library DLL modules in the SCLBDLL Library onto your application distribution media, or otherwise redistribute them with your application, when your application is dependent on them.

You may distribute the above modules as part of your software programs provided that you:

- Rename the dataset member and alias names, then use the DLL Rename Utility to update the references to the renamed DLLs in your application modules.
- Reproduce and distribute the modules in object-code format only.
- Reproduce or distribute the modules only as part of an executable software program or application.
- Do not use the name, logo, or trademarks of IBM, AT&T, or UNIX System Laboratories to market software products containing the modules.
- Do not include any other part of the software as part of an executable software program.
- Label each distribution copy of the I/O Stream and Complex Mathematics Class Library DLL modules as follows:

Contains modules from the C/C++ IBM® Open Class Library of IBM OS/390. (C) Copyright IBM Corporation, 1991, 1998. (C) Copyright AT&T and UNIX System Laboratories Inc., 1991, 1992. (C) Copyright AT&T 1984, 1990. All Rights Reserved.

Copies of these modules are provided "As Is."

- Label each distribution copy of the Collection and Application Support Class Library DLL modules as follows:

Contains modules from the C/C++ IBM® Open Class Library of IBM OS/390. (C) Copyright IBM Corporation, 1991, 1998. All Rights Reserved.

Copies of these modules are provided "As Is."

The label information is not required for source and object code that is integrated into your application program object during the normal compilation process.

Source Code Usage: Notwithstanding any provisions to the contrary in the IBM Customer Agreement or the IBM Conditions of Use, where applicable, you may write software applications using the source code provided in the C/C++ Class Library Source Feature (that is, source code provided in these libraries: SCLDBLD, SCLDH.C, SCLDH.CXX, SCLDH.H, SCLDH.INL, SCLDJCL, SCLDH.HPP, SCLDH.CPP, and SCLDSRE).

You may build the object-code files from the source code included in the Source Feature. You may use the files included in the Source Feature as part of any software application you write, provided that:

- You reproduce and distribute the modules in object-code format only.
- You label all distribution copies of your executables that contain portions of the Source Feature code as follows:

Contains modules from the C/C++ IBM® Open Class Library of IBM OS/390. (C) Copyright IBM Corporation, 1991, 1998. All Rights Reserved.

Copies of these modules are provided "As Is."

- You place a copyright notice on all copies of your application. The copyright notice may consist of your own copyright notice or the one that appears on the original label of the Source Feature code.
- Rename the DLL file that you build so its name is different from that provided in the source code.
- Your application is not merely a set or subset of the Source Feature code.
- Your application is not a compiler or a product that provides developers with a class or a collection of classes (that is, a class library such as the class libraries contained in the Source Feature code).
- You remain solely responsible to anyone receiving your application for any support, service, upgrades, and technical or other assistance.
- When you distribute your application with any of the above files included, you do so pursuant to a license that prohibits the recipient from copying (except for backup purposes), transferring, decompiling, or reverse engineering the files.
- You indemnify and hold IBM harmless from and against any claims or liabilities arising out of the use, reproduction, or distribution of your application.

Program Features Not Used on the Designated Machine

Host-On-Demand Version 1 operates on a client workstation. Licensees of OS/390 are authorized to run an unlimited number of Host-On-Demand Version 1 clients served by the licensed host product.

Some of the elements and optional features in OS/390 have components that are designed for use on machines other than the designated machine on which OS/390 is used. You may make copies of a component and its documentation in support of your authorized use of OS/390. Persons using a machine outside of your enterprise may use the copy only to access OS/390.

DSLO Licenses

DSLO licenses for OS/390 may not contain any program features not also included in an OS/390 basic license. For example, the JES3 optional feature may not be contained in an OS/390 DSLO license unless it is also in an OS/390 basic license.

OS/390 does not qualify as a basic license for any DSLO licenses of the individual programs which are included in OS/390. For example, there cannot be a DSLO license for MVS/ESA™ SP™ Version 5 with only a basic license for OS/390. There must also be a basic license for MVS/ESA SP Version 5.

License Termination

The section of the IBM License relating to license termination or discontinuance has been amended as follows:

- | Licensees of earlier releases of OS/390 Version 2 may continue to use the JES component and

appropriate PTFs shipped with the following earlier releases along with OS/390 Version 2 Release 10:

- | • JES2 - OS/390 V2R5 and later JES2
- | • JES3 - OS/390 V2R6 and later JES3

- | These components are subject to the terms and conditions of the license for OS/390 Version 2 Release 10.

Warranty

This program is warranted as specified in the IBM license.

Licensed Program Specifications may be updated from time to time and such updates may constitute a change in specifications.

For Distributed Systems License Option (DSLO) Licenses, warranty service, if any, will be provided only through the Basic License location.

Following the discontinuance of all program services, this program will be provided "As Is" as specified in the IBM license.



This publication was produced in the United States. IBM may not offer the products, services or features discussed in this publication in other countries, and the information may be subject to change without notice. Consult your local IBM business contact for information on the products or services available in your area. Any reference to an IBM product, program, or service is not intended to state or imply that only IBM's product, program, or service may be used. Any functionally equivalent product, program, or service that does not infringe any of IBM's intellectual property rights may be used instead of the IBM product, program, or service.

Any other documentation with respect to this licensed program, including any documentation referenced herein, is provided for reference purposes only and does not extend or modify these specifications.

September 2000

Printed in U.S.A.

GC28-1728-09

