IBM Holosofx Modeler and Monitor Products V4.2
Help Monitor Complex Business Processes

Overview
IBM Holosofx products provide software tools to help you model, simulate, analyze, automate, and monitor complex business processes quickly and effectively. Line-of-Business personnel as well as IT professionals can more easily design and develop process flows that improve how you do business. With Holosofx products, you will be able to maximize business effectiveness by optimizing processes that give you competitive leadership in today’s e-business environment.

The IBM Holosofx software helps separate business logic from the underlying technology, forming an extensible business-process layer that helps manage the integration, execution, and monitoring of business processes across IT and human participants and enterprise boundaries.

The products employ a component-based architecture, Java™, XML, and other standards-based technologies to support highly scalable, extra-enterprise implementations.

The IBM Holosofx solution consists of four products:

- **IBM Holosofx Workbench**
  
  This product is an easy-to-use process modeling tool for business managers and application developers.

- **IBM Holosofx Monitor**
  
  This product displays actual real-time data from events produced by MQSeries® Workflow.

- **IBM Holosofx Workbench Server**
  
  This product provides repository management and Web publishing capabilities, facilitating process design collaboration and instant Web access to process models, policies/procedures, and business rules.

- **IBM Holosofx Workbench and Workbench Server Offering**
  
  IBM Holosofx Workbench and Workbench Server Offering is a bundle consisting of the IBM Holosofx Workbench Server and IBM Holosofx Workbench licenses.

For more information on the IBM Holosofx and other related products and services, go to:


Key Prerequisites
Refer to the Hardware Requirements and Software Requirements sections.

Planned Availability Dates

- December 13, 2002: Electronic distribution
- January 10, 2003: Media Packs

At a Glance
The IBM Holosofx products:

- Provide comprehensive and user-friendly modeling and collaboration capabilities
- Provide repository-based simulation (IBM Holosofx Workbench)
- Produce redesign reports
- Facilitate seamless integration of modeling, workflow building, and simulation features
- Support multiple modeling methodologies
- Help unify in one solution activity costing, quality documentation, business process re-engineering (BPR), workflow modeling, ROI data, and integration with application development
- Are compliant with industry standards
- Offer real-time performance measurements
- Provide extendable architecture for additional functionality, such as RosettaNet Partner Interaction
- Offer Partner Interaction Processes (PIPs) for supply chain management
- Offer Internet-based workflow monitoring through standard browser interface

For ordering, contact:
Your IBM representative or the Americas Call Centers at 800-IBM-CALL

Reference: YE001

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](http://www.ibm.com).
The IBM Holosofx software consists of four products:

**IBM Holosofx Workbench**

The IBM Holosofx Workbench is an application that provides robust functionality for process modeling, enterprise modeling, business process analysis, and workflow translation.

The IBM Holosofx Workbench helps you model a process and enterprise, model the applications and design GUIs, analyze the process, and translate the process for workflow automation.

Business analysis is one of the critical and most useful functionalities of IBM Holosofx Workbench. Many business process modeling efforts stop at developing flow diagrams or process maps; however, with the IBM Holosofx Workbench, the effort is extended to include analysis, redesign, application development, and automation.

The IBM Holosofx Workbench includes a UML modeler and an Xform designer. Comprised of highly innovative components, the IBM Holosofx Workbench helps you:

- Model business processes and capture the flow of work through the enterprise
- Create process models, workflow models, and official company procedures that have an extended life cycle
- Develop extendable process models within a single tool and build a common language for communicating process elements and requirements throughout your company
- Support and implement enterprise initiatives, such as:
  - Workflow automation
  - Policy and procedure documentation
  - Application development
- Gain a true understanding of the performance capabilities of the process through implementation of performance measures, detailed cost, and time metrics
- Generate detailed comparisons and cost justifications between the “as-is” and “to-be” business process model
- Identify bottle-necks and determine appropriate resource allocation for short-term changes in volume, using animated simulation
- Model business process-driven applications
- Identify the application specification and requirements for more effective applications
- Convert UML diagrams and export them for use in other application development tools, such as Rational Rose
- Allow for the rapid design of GUIs as part of gathering the requirements by the business users
- Automatically transform business process elements into UML-based IT development artifacts and vice versa:
  - Enterprise data structures — UML Classes
  - Business process model — UML Activity Diagram
  - Business process model — UML-based PIPs
  - Business process activities — UML Use Cases
  - Business process roles — UML Use Case Actors
- Design business process-driven user interfaces specified by the user profile within the process
- Automatically expand high-level process into larger “end-to-end” process Schedule processes and view GANTT charts
- Automate validation of process models
- Capture organizational policies, procedures, business rules, goals, and issues
- Define resource allocation across the enterprise and locate to the activities in the business processes
- Export all reports to MS Excel and MS Word:
  - Process times/costs — tabular and graphical
  - Redesign report
  - Case analysis
  - Resource utilization
  - Breakeven and ROI analysis
  - Organization chart
  - Communication diagrams
  - Data matrices
- Produce animated process simulation and generate statistical simulation reports
- Model and redesign the business process, incorporating business/time metrics, business rules, and policies/procedures
- Validate and optimize all business processes by using analysis, simulation, and reporting
- Provide support for:
  - MQSeries Workflow by generating Flow Definition Language (FDL) and providing automatic workflow validation
  - Workflow management coalition by generating Workflow Process Definition Language (WPDL)
  - RosettaNet PIPs
- Build UML diagrams
- Import/export to Rational Rose
- Link UML diagrams to activities in process models
- Gather data for user interface design and development
- Link user forms to activities in process models

**IBM Holosofx Monitor**

The IBM Holosofx Monitor helps track processes and business performance measures and generate statistical reports for analysis based on actual data. In addition, the IBM Holosofx Monitor facilitates completion of the cycle of business process improvement by feeding actual information back to the IBM Holosofx Workbench for further analysis and process redesign. This provides the basis for business process management, which leads the process into a continuous improvement cycle.

The basic function of the IBM Holosofx Monitor is to track events generated by the MQSeries Workflow Application and apply them to a process model that was developed in IBM Holosofx Workbench. The process model serves as a basis for visualizing the performance of the process as it happens, real-time. You can see what activities are being performed, who is performing them, and where there are bottlenecks.
The IBM Holosofx Monitor consists of two components:

**Workflow Dashboard**

The Workflow Dashboard helps you track processes, work items, and business performance measures (modeled in IBM Holosofx Workbench) in real-time and take corrective actions. Upon invocation of a corrective action, the Workflow Dashboard will then issue a command to MQSeries Workflow via the appropriate APIs.

The Workflow Dashboard helps you:
- Track a process and its business performance in real-time
- View process instances and activity instances
- Perform administrative duties and corrective actions, such as suspending, terminating, and load balancing
- Monitor current resources and processes and identify their performance measures in real-time
- Export data to process models in Workflow Dashboard
- Track the workload of an organization unit and employees
- Enhance workflow alert system and event reporting
- Tailor an advanced/alarm alert system to the specific needs of managers in a process
- Provide event storage and reporting
- Offer a Java-based Web application designed for deployment using WebSphere Application Server, that uses EJBs, Servlets, JSFs, CORBA, IIOP, RMI, and DB2

**Business Dashboard**

The Business Dashboard is used to generate reports based on historical data. It offers a set of analytical tools such as trend and quartile analyses.

The Business Dashboard helps you:
- Generate comprehensive, detailed, customizable statistics based on historical process data and business performance measures
- Produce performance-oriented decision making by proactively managing the business process to optimize performance
- Provide user-defined performance measures that include financial, cost, time, and utilization
- Offer trend and quartile analyses capabilities
- Provide actual data export to IBM Holosofx Workbench, allowing the IBM Holosofx Workbench to perform analysis on actual data
- Offer external visibility that can be authorized for external entities affected by the process
- Make available actual versus estimated statistical information for analysis and redesign of business processes
- Offer a Java-based Web application designed for deployment using WebSphere Application Server, that uses EJBs, Servlets, JSFs, CORBA, IIOP, RMI, and DB2

**IBM Holosofx Workbench Server**

Collaboration, change control management, teamwork, and shared work space have become ever more important in today’s working environment. This is particularly true in situations where work revolves around significant endeavors, such as business-process management, where very large processes are modeled, analyzed, reviewed, and redesigned by many team members.

The IBM Holosofx Workbench Server addresses the needs of users who work in this highly collaborative environment. This product provides repository management and Web publishing capabilities, facilitating process design collaboration and instant Web access to process models, policies/procedures, and business rules.

The IBM Holosofx Workbench Server consists of two components:

**Repository**

The Repository is a content management solution that cleans up, consolidates, and provides centralized storage of business process models.
- Offers multi-user support
- Specifies user access rights in order to control user actions
- Can add an organization file to the database with a default name or specified name
- Tracks modifications done on organization files by other users
- Provides friendly, easy-to-use interface with resizable windows and customizable view
- Secures storage of organization processes and data
- Performs check-in and check-out operations safely without user conflicts
- Offers version control for accuracy and reference
- Can maintain different process versions and switch from one version to another
- Offers search tools to locate specific repository data with the capability to manipulate this data by consolidation and cleanup to minimize improvement time
- Java-based Web application designed for deployment using WebSphere Application Server

**Web Publisher**

Web Publisher helps manage and disseminate information about business processes by publication of the models and associated information via the Web.
- Can browse organization files containing information about processes, policies, procedures, and lines of value (LOVs)
- Offers Internet-based delivery method, enabling distribution of company reports, policies, procedures, directives, goals, documentation, and process models
- Informs, educates, and trains personnel on business processes, goals, policies, procedures, and business rules
- Provides organization charts and employee directories
- Offers detailed information about task inputs and outputs and external entities
- Provides listing of employees by organization
- Tracks procedures by:
  -- Their use and status
  -- Where they are used
  -- Who is affected by them
  -- Their associated Business Rules
- Java-based Web application designed for deployment using WebSphere Application Server

**IBM Holosofx Workbench and Workbench Server Offering**

The IBM Holosofx Workbench and Workbench Server Offering combines the process design tools used to model processes with the collaborative design environment that allows multiple users to work together. Using this offering, Line-of-Business professionals from multiple locations can develop business processes and be assured of consistent access to up-to-date process information. This offering provides users with the tools and collaboration environment needed for multiple users to design processes interactively. The offering provides the features of IBM Holosofx Workbench and IBM Holosofx Workbench Server in a conveniently packaged offering that scales to meet the needs of any team.

**Trademarks**

MQSeries, WebSphere, and DB2 are registered trademarks of International Business Machines Corporation in the United States or other countries or both.
Java is a trademark of Sun Microsystems, Inc.
Other company, product, and service names may be trademarks or service marks of others.
Offering Information

Product information will be available on day of announcement through Offering Information (OITOOL) at:
http://www.ibm.com/common/ssi

Publications

The following product documentation is provided on the program media as PDF files:

IBM Holosofx Workbench
- What’s New
- Getting Started
- User Guide
- Tutorial
- Analysis Guide
- Modeling Business Measures Guide
- Modeling Guide
- UML Modeler User Guide
- Reporting Guide
- Integration Guide
- Xform Designer User Guide

IBM Holosofx Workbench Server
- What’s New
- Deployment Guide
- User Guide
- Administration Guide

IBM Holosofx Monitor
- What’s New
- Deployment Guide
- User Guide
- Administration Guide

Technical Information

Hardware Requirements

IBM Holosofx Workbench
Recommended System Requirements:
- Windows®
- Pentium® III 650 MHz, or higher
- 64 MB RAM, or higher
- HDD with minimum 120 MB free space (60 MB for installation, 60 MB for working)

IBM Holosofx Workbench Server
Windows
- Pentium III 650 MHz, or higher is recommended
- 256 MB RAM (512 recommended)
- 50 MB of disk space, plus sufficient space for storing the published organization files (100 MB recommended)

AIX®
- RS/6000®
- 512 MB RAM, or higher
- 100 MB hard-disk space, or higher

Solaris
- Sun Server
- 512 MB RAM, or higher
- 100 MB disk space, or higher

Web Client Requirements:
- Pentium III 650 MHz, or higher
- 128 MB RAM, or higher (256 MB recommended)

IBM Holosofx Monitor
Windows
- Pentium III 650 MHz, or higher
- 512 MB RAM, or higher (1 GB recommended)
- 50 MB disk space, or higher

AIX
- RS/6000
- 1 GB RAM, or higher
- 50 MB disk space, or higher

Solaris
- Sun Server
- 1 GB RAM, or higher
- 50 MB disk space, or higher

Web Client Requirements:
- Pentium III 650 MHz, or higher
- 128 MB RAM, or higher (256 MB recommended)

Software Requirements

IBM Holosofx Workbench
Windows
- Windows 98, Windows NT®, or Windows 2000

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.

IBM is a registered trademark of International Business Machines Corporation.
IBM Holosofx Workbench Server

Windows Server
- Windows NT 4.0 Server or Windows 2000 Server
- WebSphere® Application Server V4.0.2 Advanced Edition
- DB2® UDB V7.2, fix pack 5, Microsoft® SQL Server 2000, or Oracle 8.1.7.1

AIX Server
- AIX V4.3, or later, or AIX 5L
- WebSphere Application Server V4.0.2 Advanced Edition
- DB2 UDB V7.2, fix pack 5 or Oracle 8.1.7.1

Solaris Server
- Solaris 7, maintenance level August 2001, or later, or Solaris 8, maintenance level August 2001, or later
- WebSphere Application Server V4.0.2 Advanced Edition
- DB2 UDB V7.2, fix pack 5 or Oracle 8.1.7.1

Web Client
- Windows 98, Windows NT 4.0, or Windows 2000
- Java™-enabled browser (preferably, IE 5.0 or Netscape 4.7, or later)
- Java plug-in 1.4.0, or later

IBM Holosofx Monitor

Windows Server
- Windows NT 4.0 Server (with Service Pack 4, or later), or Windows 2000 server
- DB2 UDB V7.2, with Fixpack 5 or later, or Oracle 8.1.7.1
- IBM HTTP Server V1.3.6, or later, or any WebSphere-compatible Web server
- Java-enabled browser
- WebSphere Application Server V4.0.2 Advanced Edition
- MQSeries® Workflow V3.3.2

AIX Server
- AIX V4.3 or later, or AIX 5L V5.1
- DB2 UDB V7.2, with Fixpack 5 or later, or Oracle 8.1.7.1
- IBM HTTP Server V1.3.6, or later, or any WebSphere-compatible Web server
- Java-enabled browser
- WebSphere Application Server V4.0.2 Advanced Edition
- MQSeries Workflow V3.3.2

Solaris Server
- Solaris 7, maintenance level August 2001, or later, or Solaris 8, maintenance level August 2001, or later
- IBM DB2 UDB V7.2, with Fixpack 5 or later, or Oracle 8.1.7.1
- IBM HTTP Server V1.3.6, or later, or any WebSphere-compatible Web server
- Java-enabled browser
- WebSphere Application Server V4.0.2 Advanced Edition
- MQSeries Workflow V3.3.2

Web Client
- Windows 98, Windows NT 4.0, or Windows 2000
- Java-enabled browser (IE 4.0 or later)

Recommended Architecture for BPM Monitor Deployment
- IBM Holosofx Monitor installed in WebSphere Application Server, together with MQSeries Workflow Web Client, and DB2 Client
- MQSeries Workflow server installed on another server machine
- The DB2 database for the IBM Holosofx Monitor installed on a connected high-performance database server machine to handle the loads and data
- Desktops: Clients would login to MQSeries Workflow and IBM Holosofx Monitor from typical desktop machines

Planning Information

For planning and installation information, refer to the following documents:
- For IBM Holosofx Workbench, refer to Getting Started
- For IBM Holosofx Monitor, refer to Deployment Guide
- For IBM Holosofx Workbench Server, refer to Deployment Guide

Customer Responsibilities: It is strongly recommended that IBM Software Services or Business Partners be used to assist in the deployment and maintenance of the IBM Holosofx solution.

To implement an IBM Holosofx solution, the following skills are required:
- For IBM Holosofx Monitor and Workbench Server: Experience in deploying WebSphere Application Server applications. This includes administrative skills in WAS, DB2, and MQSeries Workflow (only for the IBM Holosofx Monitor)
- For IBM Holosofx Monitor: Thorough technical and functional knowledge of the integration with MQSeries Workflow

Direct Customer Support: Customers are entitled to maintenance support for one year after date of purchase. Additional years of support may be purchased through a Passport Advantage contract. Support is made available by voice or via the Web. Additional information on the level of support available can be found at:

http://www.ibm.com/software/support/pa.html

Packaging: IBM Holosofx Modeler and Monitor Products V4.2 is shipped on 3 CD-ROMs
- IBM Holosofx Workbench
- IBM Holosofx Monitor
- IBM Holosofx Workbench Server

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

Ordering Information

- Product Group: WebSphere
- Product Identifier Description: IBM Holosofx Modeler and Monitor Products V4.2 (5724-D40)
- Product Category: Holosofx
For details on the licensing information, refer to:
http://www.ibm.com/software/sla

### Terms and Conditions

**Licensing:** IBM International Program License Agreement (IPLA). Proofs of Entitlement (PoE) 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.

**LI Form Number:** IBM Holosofx Modeler and Monitor Products V4.2 LI — L-JDUH-5EZNS2

**Limited Warranty:** Yes

**Program Services:** Available until January 31, 2004

**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:** Yes and through the Passport Advantage Web site at:
http://www.ibm.com/software/passportadvantage

**Software Maintenance Applies:** Yes

Software Maintenance, previously referred to as Subscription and Technical Support, is now included in the Passport Advantage Agreement. Installation and technical support for the products in this announcement are provided by the Software Maintenance offering of the IBM International Passport Advantage Agreement. This fee service enhances customer productivity by providing voice and/or electronic access into the IBM support organizations.

IBM includes Software Maintenance with each program acquired during the coverage period. The coverage period means the period commencing on the date you acquire the program up to the first or second anniversary date, depending on whether you acquired coverage for one or two anniversaries. The coverage period for Software Maintenance acquired in the two months preceding an anniversary date will be extended to the next applicable anniversary date.

While your Software Maintenance is in effect, IBM provides you assistance for your routine, short duration installation and usage (how-to) questions, and code-related questions. IBM provides assistance via telephone and, if available, electronic access, only to your information systems (IS) technical support personnel during normal business hours (published prime shift hours) of your IBM support center. This assistance is not available to your end users. IBM provides Severity 1 assistance 24 hours a day, every day of the year. For additional details, consult your IBM Software Support Guide at:
http://techsupport.services.ibm.com/guides/handbook.html

Software Maintenance does not include assistance for the design and development of applications, your use of programs in other than their specified operating environment, or failures caused by products for which IBM is not responsible under this agreement.

---

## Passport Advantage

<table>
<thead>
<tr>
<th>Description</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>IBM Holosofx Workbench</strong> — Per User</td>
<td></td>
</tr>
<tr>
<td>License &amp; SW Maintenance 1 Anniv. Date</td>
<td>D51X5LL</td>
</tr>
<tr>
<td>License &amp; SW Maintenance 2 Anniv. Date</td>
<td>D51X6LL</td>
</tr>
<tr>
<td>SW Maintenance Renewal to 1 Anniv.</td>
<td>E00L5LL</td>
</tr>
<tr>
<td>SW Maintenance after License to 1 Anniv. Date</td>
<td>D51X7LL</td>
</tr>
<tr>
<td><strong>IBM Holosofx Monitor</strong> — Per Capacity Unit</td>
<td></td>
</tr>
<tr>
<td>License &amp; SW Maintenance 1 Anniv. Date</td>
<td>D51X8LL</td>
</tr>
<tr>
<td>License &amp; SW Maintenance 2 Anniv. Date</td>
<td>D51X9LL</td>
</tr>
<tr>
<td>SW Maintenance Renewal to 1 Anniv.</td>
<td>E00L6LL</td>
</tr>
<tr>
<td>SW Maintenance after License to 1 Anniv. Date</td>
<td>D51XALL</td>
</tr>
<tr>
<td><strong>IBM Holosofx Workbench Server</strong> — Per Capacity Unit</td>
<td></td>
</tr>
<tr>
<td>License &amp; SW Maintenance 1 Anniv. Date</td>
<td>D51XBLL</td>
</tr>
<tr>
<td>License &amp; SW Maintenance 2 Anniv. Date</td>
<td>D51XCCL</td>
</tr>
<tr>
<td>SW Maintenance Renewal to 1 Anniv.</td>
<td>E00L7LL</td>
</tr>
<tr>
<td>SW Maintenance after License to 1 Anniv. Date</td>
<td>D51XDLL</td>
</tr>
<tr>
<td><strong>IBM Holosofx Workbench and Workbench Server Offering</strong> — Per Capacity Unit</td>
<td></td>
</tr>
<tr>
<td>License &amp; SW Maintenance 1 Anniv. Date</td>
<td>D522ELL</td>
</tr>
<tr>
<td>License &amp; SW Maintenance 2 Anniv. Date</td>
<td>D522FLL</td>
</tr>
<tr>
<td>SW Maintenance Renewal to 1 Anniv.</td>
<td>E00MMLL</td>
</tr>
<tr>
<td>SW Maintenance after License to 1 Anniv. Date</td>
<td>D522GLL</td>
</tr>
</tbody>
</table>

## Passport Advantage Customer: Media Pack Entitlement Details

Customers with active subscription on the products listed below are entitled to receive the IBM Holosofx Modeler and Monitor Products V4.2 media packs.

<table>
<thead>
<tr>
<th>Description</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>IBM Holosofx Workbench V4.2.2 English Media Pack</strong></td>
<td>BA08FNA</td>
</tr>
<tr>
<td><strong>IBM Holosofx Monitor V4.2.2 English Media Pack</strong></td>
<td>BA08GNA</td>
</tr>
<tr>
<td><strong>IBM Holosofx Server V4.2.2 English Media Pack</strong></td>
<td>BA08HNA</td>
</tr>
<tr>
<td><strong>IBM Holosofx Workbench and Workbench Server Offering V4.2.2 English Media Pack</strong></td>
<td>BA09ENA</td>
</tr>
</tbody>
</table>
For more information, about the Passport Advantage Agreement, refer to the IBM International Passport Advantage Agreement Software Announcement 201-202, dated July 10, 2001, or visit the Passport Advantage Web site at:

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

**IBM Operational Support Services — Support Line:** No

**Other Support:** Passport Advantage

**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

---

### Prices

**Passport Advantage**

For Passport Advantage and charges, contact your authorized IBM Lotus Business Partner. Additional information is also available on the Passport Advantage Web site:

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

---

### Global Financing

IBM Global Financing offers competitive financing to credit-qualified customers and Business Partners 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, as well as commercial financing (revolving lines of credit, terms loans, acquisition facilities, and inventory financing credit lines) for Business Partners. 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 the Web at:

http://www.ibm.com/financing

---

### Order Now

Use Priority/Reference Code: YE001

Phone: 800-IBM-CALL
Fax: 800-2IBM-FAX
Internet: ibm_direct@vnet.ibm.com
Mail: IBM Atlanta Sales Center
       Dept. YE001
       P.O. Box 2690
       Atlanta, GA 30301-2690

You may also contact your local IBM representative. To identify your representative, call 800-IBM-4YOU.

### Trademarks

iSeries is a trademark of International Business Machines Corporation in the United States or other countries or both. AIX, RS/6000, WebSphere, DB2, and MQSeries are registered trademarks of International Business Machines Corporation in the United States or other countries or both. Pentium is a registered trademark of Intel Corporation. Microsoft is a trademark of Microsoft Corporation. Windows and Windows NT are registered trademarks of Microsoft Corporation. Java is a trademark of Sun Microsystems, Inc. UNIX is a registered trademark of the Open Company in the United States and other countries. Lotus is a registered trademark of the Open Company in the United States and other countries. Other company, product, and service names may be trademarks or service marks of others.