IBM US Software Announcement

March 26, 1996

IBM Internal Use Only

IBM DataHub for UNIX Operating Systems Release 2 Supports Additional Client/Server Databases

DataHub® for UNIX[1] Operating Systems helps organizations manage an increasing number of different database systems from a central control point. In Release 2, new databases and platforms are added to the environment that it manages. Databases supported are:

- DB2/6000™ Version 1
- DB2® for AIX® Versions 2.1 and 2.11
- DB2 for HP-UX Version 2.1
- DB2 for Solaris Operating Environment Version 2.1
- Ingres 6.4
- Oracle Releases 7.0, 7.1, and 7.2
- Sybase SQL Server Releases 10 and 11

DataHub supports the following operating platforms: AIX Versions 3.2.5, 4.1, and 4.2; HP-UX Releases 9 and 10; and Sun Solaris Versions 2.3 and 2.4.

DataHub for UNIX OS provides a full range of database management functions, online monitoring of databases and operating systems, and expert system technology for automating database operations based on company policy — all in a single product.

DataHub's rule-based system allows administrators to schedule recurring tasks, monitor databases for exception conditions, anticipate problems through trend monitoring, and alert database and network administrators.

An important new aspect of automated operations is the addition of "out-of-the-box" monitoring. To get you started quickly and with minimal effort, a defined set of standard conditions can be turned on, monitoring CPU utilization, number of deadlocks detected, and a variety of other conditions. A DataHub user is alerted when specified conditions are exceeded.

Also new in Release 2:

- Console independence — DataHub agents can take action independently of the console. With intelligence at each server for correlation and evaluation, network traffic is reduced.
- Database discovery — When a new managed system is added, DataHub can search for existing databases, simplifying the configuration of your system.
- Grouping functions — DataHub can act upon groups of objects in a single operation. This includes setting up automated monitoring of groups of databases.
- Backup and recovery of Oracle databases — DataHub provides backup and recovery of Oracle databases, redo logs, rollback segments, and control files.

Planned Availability Date: May 17, 1996

One-Time Charge: $12,499 (Starter Kit Program Package)

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IN BRIEF . . .

DataHub for UNIX OS lets you operate more efficiently, and expand aggressively into client/server computing and data warehousing. This powerful tool helps administrators manage their diverse database environment from a central control point.

Release 2 allows you to:

- Perform out-of-the-box monitoring
- Evaluate and act on conditions locally
- Support additional databases and platforms
- Monitor groups of databases as a single unit
- Perform operations on groups of data objects
- Discover new databases in the configuration

For ordering, contact:
Your IBM representative, an IBM Authorized Business Partner, or IBM Direct at

800-IBM-CALL Reference: YE001

Marketing Information

Marketing Channels

- IBM NA Field Sales
- IBM Direct (U.S. Telesales)
- IBM Authorized Industry Remarketers Mid-Range
- IBM Authorized Managing Industry Remarketers
- IBM Authorized Software Distributors
- IBM Authorized Software Remarketers

Demonstrations

	Live Product Demonstration	Live Solution/ Integrated Demonstration
At announcement	Yes	No
By planned availability	Yes	No

For additional demonstration information, refer to the NSC DEMOSPRES database on HONE.

Promotional Material: The following promotional materials are now available on DB2INFO and MKTTOOLS:

DataHub for UNIX OS Deliverables List	DHU_LIST PACKAGE
DataHub for UNIX OS Presentation Guide-Foils	DHU_PGF TERS3820
DataHub for UNIX OS Presentation Guide	
- Freelance for Windows†	DHU_PGF PREBIN
- Freelance for OS/2®	DHU_PGF PRSBIN
DataHub for UNIX OS Presentation Guide-Script	DHU_PG TERS3820
DataHub for UNIX OS Fact Sheet	DHU_FS TERS3820
DataHub for UNIX OS Qs and As	DHU_QA TERS3820
DataHub for UNIX OS Demonstration Diskette	DHU_DEMO ZIPBIN
DataHub for UNIX OS Competitive Information	DHU_COMP TERS3820

DataHub for UNIX OS Forum: A DataHub for UNIX OS forum called DATAHUB is available to IBM field personal on the IBMPC conference disk.

To obtain a copy of the DATAHUB forum, use the following command:

TOOLS SENDTO YKTVMV IBMPC IBMPC GET DATAHUB FORUM

To subscribe to the DATAHUB forum, use the following command:

TOOLS SENDTO YKTVMV IBMPC IBMPC SUBSCRIBE DATAHUB FORUM

Alternatively, you can direct the above request to a local shadow of the IBMPC conference disk.

Education Support

Education on usage, installation, and configuration of DataHub for UNIX OS Release 2 is available through IBM Education and Training.

HONE Information

Proposal material is not available through HONE.

Configurator Information: The configurator aid CFRS6000 will support this announcement on April 23, 1996.

Administrative Information

Software Advantage Workstation programs and Upgrade Protection will be billed through GEMS by Software Advantage Administration in Raleigh. Refer to Software Announcement 295-300, dated June 20, 1995. The AIX support family will be billed through the SCORE billing system. Refer to Services Announcement 694-013, dated May 10, 1994.

Volume Discount

Software Advantage for Workstations: This program is eligible for volume discounting under the terms of the Software Advantage for Workstations Agreement.

IBM Volume Offering (IVO): The new IVO exhibit must be used for all new volume offering commitments effective immediately, and is available on HONE through Discounts, Worldwide Discounts.

This program is being added to IVO Category B, RISC System/6000® products.

For existing volume agreements, this program is being added to the IBM RISC System/6000 (AWS1-OTB) and Advanced Workstation Systems (AWS) Category A exhibits.

Special Bid Transition: For commercial and state and local government customers with special bid contracts in effect that meet the following criteria (including the U.S. portion of IVPAs), the program will be added automatically to the special bid category with the same program aggregation as the category to which the program was added to the IVO or Software Advantage Workstation Agreement Exhibit.

Criteria

- The special bid includes a commitment to the category to which the program is added.
- The total quantity of products by category is found on the new exhibit within published discount levels.
- The current contract period duration is the same as one of the available contract period durations on the published version of the affected exhibit.

Note: In AP, Canada, LA, and EMEA, the IVPA allows the addition of products if an enterprise member accepts a revised exhibit under an affected Volume Procurement Amendment.

The announced program is available for remarketing under the Extended Enterprise and Enterprise Remarketer contracts.

By customer request, an updated special bid contract will be available through the appropriate IBM U.S. Commercial Contract Practices department in Atlanta or White Plains at the time the revised volume discount exhibit is available. Before availability of the revised Eligible Program List, the programs can be added to the applicable category in the space provided on the Eligible Program List.

For special bid contracts revised based on the June 16, 1987, VPA announcement with discount schedules beyond the published discount schedule or contract durations not available on the published version of the exhibit, the customer's request will be reviewed by the special bid organization. A special bid must be entered on Multiples Marketing Support System (MMSS). If the bid is approved, new special bid contracts will be sent to the local IBM office.

For customers who did not previously make a transition from an existing special bid contract to a special bid contract based on the June 16, 1987, VPA announcement, the VPA and Special Bid Transition Plan guidelines in Marketing Announcement 387-097 apply.

Customers with a special bid automatically updated to include the program must be notified within 10 days of this announcement. The notification must be documented with a locally initiated control list indicating the date of notification and the name of the customer executive notified. A locally prepared notice should be sent.

Ordering Information

Customer Fulfillment Option: This program or additional license when acquired from IBM authorized sources can count toward the fulfillment of a qualifying volume commitment or special bid.

Refer to ADMIN INFO item RTA000056161 for processing information.

Orders for new licenses will be accepted now.

If the planned availability and customer-requested arrival dates are within three calendar months, orders may be entered into AAS immediately. If the planned availability or customer-requested arrival date is outside of three calendar months, use the three-calendar-month backlog process (refer to ADMIN INFO items RTA000055776 and RTA000055777). Schedule dates will be assigned sequentially. Orders involving multiple units are subject to an extension of schedule. No delivery commitments are to be made to the customer until confirmed calculated arrival dates are in AAS.

To order, enter the appropriate AAS order type number and feature number. Only one feature number with a maximum quantity of 250 can be entered per order type.

Programming RPQs

Requests will not be accepted.

Attachment Information

The following is related to this announcement letter:

- 296-102-2A* Z720-3692, IBM Personal Software Program Upgrade and Certification Order Form

* This item may be printed on your 3820 printer via the following method:

- While browsing this announcement letter on HONE, enter the fastpath name DAWNHOST LIST (to allow selective printing from list) or DAWNHOST ALL (to print all asterisked items for this letter) at the HONE entry prompt arrow.

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800-IBM-CALL Reference: YE001

This announcement is provided for your information only and is subject to change without notice. For additional information, contact your IBM representative or the IBM Support Center at 800-426-3333.

Description

IBM's DataHub for UNIX OS is a powerful tool for managing your client/server environment. In Release 2, new databases and platforms are added to the environments it manages, and enhancements are made to automated monitoring and database administration. DataHub for UNIX OS will continue to expand its support to more databases and platforms, addressing the demands of your growing client/server business.

DataHub for UNIX OS provides:

- Management of multi-vendor, multi-platform database environments

  DataHub for UNIX OS exploits the facilities of the relational database management systems (RDBMS) it manages. DataHub for UNIX OS supports the following relational databases:

  - DB2/6000 Version 1
  - DB2 for AIX Versions 2.1 and 2.11
  - DB2 for HP-UX Version 2.1
  - DB2 for Solaris Operating Environment Version 2.1
  - Ingres Release 6.4
  - Oracle Releases 7.0, 7.1, and 7.2
  - Sybase SQL Server Releases 10 and 11

  Note: DataHub now supports Oracle Release 7.2 and Sybase Release 11 but does not exploit new functionality such as Oracle parallelism or Sybase parallelism in this release.

- DataHub for UNIX OS supports the above RDBMSs on the following UNIX operating system platforms:

  - AIX for RISC System/6000® Versions 3.2.5, 4.1, and 4.2
  - HP-UX Release 9 and Release 10
  - Sun Solaris Operating Environment Versions 2.3 and 2.4

- Remote Database and System Management

  Database and operating systems management tasks can be performed on local and remote systems and databases. DataHub for UNIX OS is a cost-effective solution that scales from single server LANs to large, multiple server networks to entire distributed operations.

- Comprehensive database management functions

  DataHub for UNIX OS offers a robust set of database management functions for novice and experienced administrators. From an intuitive GUI, you can perform a variety of tasks, including:

  - Display, create, change, copy, rename, and analyze database objects
  - Perform backup and recovery, including backup and recovery of Oracle databases
  - Display resource utilization
  - Run startup and shutdown procedures
  - Perform security management
  - Display objects from heterogeneous databases on a single screen and perform actions on the set
  - Define new database objects and actions to be performed
  - Perform database configuration
  - Discover new databases in the configuration
  - Perform operations on groups of data objects at one time

- Automated Operations

  DataHub for UNIX OS has a sophisticated, rule-based system that allows you to automate your database and system operations based on your business policies. Specialized intelligent agents called watchdogs send notification of system and database events. Network traffic is minimized through filtering of events, so only important information is reported. You can take corrective actions based upon a combination of events on a single system or across multiple platforms and database systems. By correlating events, you can react intelligently to complex problems.

  New in Release 2 is "out-of-the-box" monitoring for easy setup of an automated environment. A standard set of monitors and alerts is provided by DataHub, allowing you to have monitoring up and running quickly. You can use the standard monitoring "as is," or you can customize it to fit your environment.

  DataHub's monitoring capability now has "console independence." Conditions can be handled at each remote server without communicating with the control point, improving scalability and reducing network traffic. Every server now can initiate preventative or corrective actions, providing you with "lights out" operation capability.

  DataHub comes with hundreds of "things to be monitored," called watchdog checks. These predefined watchdog checks exist for the operating systems and databases supported by DataHub. Release 2 adds many more watchdog checks that can be used as is or tailored to your environment.

- Single Workstation Control Point with Intuitive GUI

  You can manage all of your databases anywhere in the network from a central control point. The intuitive GUI — point-and-click and drag-and-drop — enables administrators to perform tasks easily without having to know the details of the different database management systems. Skills learned in this way can easily be transferred to the management of new and different database systems.

- Extensibility

  Third-party vendor tools, user-written tools, SQL scripts, and UNIX scripts can be incorporated into the DataHub for UNIX OS GUI easily without changing the tools themselves. This allows administrators to add the familiar tools they need to do their tasks into the DataHub for UNIX OS work environment.

DataHub uses the Internet Engineering Task Force (IETF) Simple Network Management Protocol (SNMP) to communicate systems information to other SNMP-based systems management tools such as SystemView®, NetView® for AIX, HP OpenView, or SunNet Manager.

Product Positioning

DataHub for UNIX OS within Database Systems Management

DataHub for UNIX OS is a key component of database systems management. As your enterprise grows in today's competitive environment, you have to manage diverse systems on a variety of UNIX platforms. These diverse systems have to be managed efficiently and effectively for optimal utilization of system and personnel resources. DataHub for UNIX OS is the solution for Database Systems Management for businesses with a need to manage a multi-platform, multi-vendor UNIX database environment.

DataHub for UNIX OS within SystemView and Systems Management

SystemView for AIX is part of the SystemView Series. This series is a complete, integrated, and automated systems management solution that simplifies the management of your information technology. With SystemView for AIX, you can shorten your cycle times, improve customer satisfaction, and reduce costs. As a result, you can better position your company with a competitive advantage.

DataHub for UNIX OS is the database systems management component of SystemView. DataHub for UNIX OS Release 1.1 is a feature of SystemView for AIX Version 1 Release 2 (now SystemView Server for AIX Version 4). DataHub for UNIX OS can be invoked from the SystemView launch window and can interoperate with SystemView features. When DataHub detects an exception condition, it can alert an SNMP-based manager such as NetView for AIX. DataHub for UNIX OS R2 will be included in the next SystemView for AIX release.

Refer to Software Announcement 295-494, dated December 5, 1995, for more information on IBM SystemView for AIX Version 1 Release 2, or Software Announcement 296-080, dated March 12, 1996, for information on SystemView Server for AIX Version 4.

Statement of General Direction

To assist in managing your client/server database environment, IBM plans to increase the variety of databases that DataHub for UNIX OS supports. IBM plans to provide support in future releases for Informix, DB2 for OS/2®, DB2 for NT, DB2 for MVS®, DB2 for Parallel Edition, and DB2 for OS/400®.

Publications

The following publications will be available on May 17, 1996. To order, contact your IBM representative or call IBM Direct at 800-CALL-IBM (225-5426).

Title	GEMS Order Number	Order Number
DataHub for UNIX OS R2 Library (both books)		33H5166
DataHub for UNIX OS R2 User's Guide	SC26-8668	—
DataHub for UNIX OS R2 Installation and Configuration	SC26-8669	—
DataHub for UNIX OS R2 Specification Sheet	GC26-8398	—
DataHub for UNIX OS Demonstration Diskette	GV26-1141	—

Displayable Softcopy Publications: DataHub for UNIX OS Release 2 manuals are offered in displayable softcopy form. All unlicensed manuals are included. The displayable manuals are part of the basic machine-readable material. The files are shipped on CD-ROM.

Education Support

The appropriate curriculum will be updated, as necessary, to include the enhancements described in this announcement.

Details of the education support will be provided by May 17, 1996, through a separate education announcement.

Descriptions of all classroom and self-study courses are available.

Call IBM Education and Training at 800-IBM-TEACH (426-8322) for education catalogs, schedules, and enrollments.

Technical Information

Specified Operating Environment

Hardware Requirements: DataHub for UNIX OS operates on any system unit capable of supporting one of the supported UNIX operating systems and one or more of the RDBMSs controlled by DataHub for UNIX OS. Refer to the **Software Requirements** section for supported RDBMSs.

These requirements are *minimum* configuration requirements and do not allow for the simultaneous execution of DataHub for UNIX OS Release 2 and other applications.

Control Point

A DataHub for UNIX OS R2 Control Point application requires:

- A system unit that supports one of the following UNIX operating systems:
  - IBM AIX Version 3.2.5, 4.1, or 4.2 for the RISC System/6000
  - HP-UX Version 9.0.5 or 10.01
  - Sun Solaris Operating Environment Versions 2.3 and 2.4 for the Solaris SPARCstation
- A minimum of 32MB RAM. Additional RAM can improve performance significantly.
- 30MB of disk storage. An additional 25MB is required to store the publications.
- Space in the RDBMS selected for the control database.

For installation, the control database requires approximately 10MB of space, depending on the RDBMS you use. During normal use of DataHub for UNIX OS, a few database tables have the potential to grow significantly; therefore, the disk partition for the control database should have space available for expansion.

- A supported CD-ROM reader is recommended.
- A mouse, keyboard, and display capable of supporting the X Window System and OSF/Motif.
- An Ethernet or token-ring network adapter (if managing other workstations).

Each Managed Host

A DataHub for UNIX OS R2 managed host requires:

- A system unit that supports one of the following UNIX operating systems:
  - IBM AIX Version 3.2.5, 4.1, or 4.2 for the RISC System/6000
  - HP-UX Version 9.0.5 or 10.01
  - Sun Solaris Operating Environment Versions 2.3 or 2.4 for the Solaris SPARCstation
- 10MB RAM
- 16MB of disk storage
- An Ethernet or token-ring network adapter

Software Requirements: Except where noted, the Control Point and each managed host require one of the following groups of software, listed according to operating system:

- AIX Version 3.2.5, 4.1, or 4.2 for the RISC System/6000 and each of the following products:
  - AIXwindows® Environment/6000 Version 1 Release 2.5 (Control Point only)
  - TCP/IP Version 3 Release 2 for AIX/6000®
- HP-UX Version 9.0.5 or 10.01 and each of the following products:
  - OSF/Motif 1.2 for HP-UX Version 9.0.5 or 10.01 (Control Point only)
  - X Windows X11 Release 5 for HP-UX Version 9.0.5 or 10.01 (Control Point only)
  - TCP/IP for HP-UX Version 9.0.5 or 10.01

  The displayable softcopy documentation support provided for HP-UX displays an error message at startup because the support is not yet upgraded to HP-UX Version 10. Also, the Help function for the softcopy documentation display support is not available.
- Sun Solaris Operating Environment Versions 2.3 and 2.4 and each of the following products:
  - OSF/Motif 1.2 for the Sun Solaris Operating Environment Versions 2.3 and 2.4 (Control Point only)
  - X Windows X11 Release 5 for the Sun Solaris Operating Environment Versions 2.3 and 2.4 (Control Point only)
  - TCP/IP for the Sun Solaris Operating Environment Versions 2.3 and 2.4

This section lists the RDBMSs supported by DataHub for UNIX OS R2. At a minimum, one of the following databases and any additional software listed with the database are required to serve as the control database:

- DATABASE 2™ for AIX/6000, Version 1
- DATABASE 2 for AIX/6000, Version 2 Release 1 or Release 1.1
- DATABASE 2 for HP-UX, Version 2 Release 1 (not supported on HP-UX 9.0.5)
- DATABASE 2 for the Solaris Operating Environment, Version 2 Release 1 (not supported on Solaris 2.3)
- Ingres 6.4, including each of the following products:
  - Ingres 6.4 Q&R Tools
  - For DataHub for UNIX OS R2 to support Ingres 6.4, one of the following C compilers is required:

    IBM AIX Version 3.2.5, which requires C Set++ for AIX Version 2.1.4

    IBM AIX Version 4.1, which requires C Set++ for AIX Version 3.1.3.3

    HP-UX Versions 9.0.5 and 10.01, which requires HP-UX C Compiler

    Sun Solaris Operating Environment Version 2.3 or 2.4, which requires SPARCompiler C 3.0.1
- Oracle Releases 7.0, 7.1, or 7.2, including each of the following products:
  - Oracle SQL DBA
  - Oracle SQL Loader
  - Oracle SQL Plus (not required for managed hosts)
- Sybase SQL Server Releases 10, 10.0.2, or 11

  Note: Sybase SQL Server System 11 is not supported on Sun Solaris Version 2.3 or 2.4 or on HP-UX Version 9.0.5.

Contact your IBM representative or IBM reseller for support for the latest operating system releases (for example, Sun Solaris Version 2.5).

Planning Information

The DataHub for UNIX OS R2 Starter Kit license includes a license for one DataHub for UNIX OS R2 Control Point and licenses for five managed hosts. The DataHub for UNIX OS R2 Control Point is the programmable workstation from which you invoke the DataHub for UNIX OS R2 functions. A managed host is a workstation on which the database systems you administer reside. A managed host can have one or more of the following RDBMSs:

- DB2 for AIX Version 2 or Version 2.11
- DB2/6000 Version 1
- DB2 for HP-UX Version 2.1
- DB2 for Solaris Operating Environment Version 2.1
- Ingres Release 6.4
- Oracle Release 7.0, 7.1, or 7.2
- Sybase SQL Server Release 10 or Release 11

Consulting and Service Offerings

DataHub for UNIX Operating Systems Services: DataHub for UNIX OS Services are available, spanning all phases of DataHub for UNIX OS planning and implementation. Services include:

- DataHub for UNIX OS Installation and Configuration Service

  DataHub for UNIX OS Installation and Configuration Service will assist the customer by having skilled technical resources install and configure the product. The following areas will be addressed as part of this installation and configuration service:

  - Identify the systems and databases to be managed by DataHub for UNIX OS
  - Create the required control databases
  - Install and configure the DataHub for UNIX OS Control Point
  - Install and configure DataHub for UNIX OS on each managed system
  - Create/verify valid user IDs for host systems for DataHub's use
  - Modify appropriate database configuration parameters

  Upon completion of this service, the DataHub for UNIX OS Starter Kit will be installed, configured, and available for database administration and monitoring.

- DataHub for UNIX OS Planning Service

  The DataHub for UNIX OS Planning Service assists you in developing plans to successfully install and configure the product. Consultants work with you and help you plan to handle issues important in the implementation of DataHub for UNIX OS. These issues include:

  - Identify any hardware and software prerequisites
  - Identify managing workstation requirements and numbers of managed workstations
  - Identify customer database administrator types and roles within DataHub for UNIX OS
  - Define placement and number of DataHub Control databases and watchdog servers
  - Identify tasks suited for DataHub for UNIX OS automation
  - Identify the customer's existing UNIX tools, scripts, and utilities for potential inclusion in DataHub for UNIX OS management

- IBM DataHub for UNIX OS Automation and Customization Service

  The IBM DataHub for UNIX OS Automation and Customization Service will assist the customer by having skilled technical resources develop and implement a set of checks and rules to automate the management of the customer's database environment. Consultants will help define the checks and rules based on the customer's business practices and critical success factors for each of the databases being managed by DataHub for UNIX OS. Consulting issues include:

  - Define and implement checks to monitor the critical success factors for each database and host using:
    - DataHub's predefined checks
    - Customer-defined checks
    - Consultant-provided checks
  - Automate activities for the management of the critical success factors (implementation of business policies) for each host and database
  - Integrate two of the customer's existing UNIX tools, scripts, and utilities into the DataHub management environment
  - Customize DataHub for the roles of each Database Administrator

  Upon completion of this service, the DataHub for UNIX OS watchdogs will be running, automating five of the customer's administration tasks. This service will be provided for the systems the DataHub for UNIX OS starter kit is managing.

Packaging: To purchase the DataHub for UNIX OS R2 product, you must order the DataHub for UNIX OS R2 Starter Kit.

The DataHub for UNIX OS R2 Starter Kit includes the following:

- DataHub for UNIX OS R2 CD-ROM, which includes:
  - Product code
  - Softcopy publications in PostScript format for printing on high-quality laser printers. These softcopy publications are provided in .INF format for viewing online, and are also loadable from installp.
- IBM International Program License Agreement in a multilanguage booklet
- Proof of Entitlement for one Control Point and five managed hosts
- Pregenerated NetLS access key labels required to unlock the product

  These labels are not transferable and should be kept in a secure place. Each access key label is unique (both label serial number and the NetLS access key are unique). If the access key is lost, a replacement key will be provided by IBM when you fax a copy of the proof of purchase to IBM. Access key labels are contained in the CD-ROM product packages only.
- DataHub for UNIX OS R2 User's Guide
- DataHub for UNIX OS R2 Installation and Configuration Guide

For customers who do not have access to a CD-ROM reader, 4-mm and 8-mm tape media options are available. Customers who choose the 4-mm or 8-mm product media options must purchase the DataHub for UNIX OS R2 Starter Kit on CD-ROM in order to acquire the access key necessary to unlock the product. Product code on the CD-ROM and tape will have to be unlocked with an access key provided with the CD-ROM product only. The Tape Media Option packages include softcopy product documentation in both LISTPS and .INF formats. These packages do not include hardcopy product documentation or access keys.

The separate documentation package includes the following:

Description	**Feature Number**	**Part Number**
Order Type 5806-AAR		
DataHub for UNIX OS R2 Program Library	0040	33H5166

The Program Library consists of two books, *DataHub for UNIX OS R2 User's Guide* and *DataHub for UNIX OS R2 Installation and Configuration*.

These publications are also available separately. To order contact your IBM representative.

Title	Order Number
DataHub for UNIX OS R2 User's Guide	SC26-8668
DataHub for UNIX OS R2 Installation and Configuration	SC26-8669

Security, Auditability, and Control

The announced program uses the security and auditability features of the Workstation Operating System and uses the security features of the RDBMS it manages.

User management is responsible for evaluation, selection, and implementation of security features, administrative procedures, and appropriate controls in application systems and communication facilities.

Ordering Information

Orders for new licenses will be accepted now.

Shipments will begin on the May 17, 1996.

To order these programs for order type, specify the order type number, feature number, part number, program name, media, and quantity.

Program Package: Program media with documentation.

Description	Feature Number	Part Number	Medium
Order Type 5801-AAR			
DataHub for UNIX OS R2 Starter Kit	1088	33H5110	CD-ROM
DataHub for UNIX OS R2 8-mm Tape Option	1089	33H5163	8-mm Tape
DataHub for UNIX OS R2 4-mm Tape Option	1090	33H5164	4-mm Tape

Additional License Copies: Authorizes the customer who has a program package to make a single copy of the program media and printed documentation.

The authorization is given by providing the customer a Proof of Entitlement for Additional License — with Certificate, which has its own part number and feature number.

Description	Feature Number	Part Number
Order Type 5802-AAR		
DataHub for UNIX OS R2 Additional License for Starter Kit	1203	33H5115
DataHub for UNIX OS R2 Additional License for Control Point	1204	33H5116
DataHub for UNIX OS R2 Additional License for 1 Managed Host	1205	33H5111
DataHub for UNIX OS R2 Additional License for 5 Managed Hosts	1206	33H5112
DataHub for UNIX OS R2 Additional License for 10 Managed Hosts	1207	33H5113
DataHub for UNIX OS R2 Additional License for 50 Managed Hosts	1208	33H5114

Additional License Copies — Software Advantage Exhibit: Authorization to make additional license copies begins on the start date specified in the Software Advantage Agreement. Proof of Entitlement will be provided monthly.

Description	Part Number
Order Type 5802-AAR	
DataHub for UNIX OS R2 Starter Kit Proof of Entitlement for Additional License — without Certificate	33H5156
DataHub for UNIX OS R2 Control Point Proof of Entitlement for Additional License — without Certificate	33H5158
DataHub for UNIX OS R2 for 1 Managed Host Proof of Entitlement for Additional License — without Certificate	33H5157

Documentation: Separate documentation with no media.

Description	Feature Number	Part Number
Order Type 5806-AAR		
DataHub for UNIX OS R2 Program Library	0040	33H5166

Program Package Upgrade: Program media with documentation.

Description	Feature Number	Part Number
Order Type 5803-AAR		
DataHub for UNIX OS Starter Kit Upgrade from R1 to R2	0053	33H5122

Additional License Copy Upgrade: Authorizes the customer who has a program package upgrade to make a single copy of the program media and printed documentation.

The authorization is given by providing the customer a Proof of Entitlement for Additional License — with Certificate, which has its own part number and feature number.

Description	Feature Number	Part Number
Order Type 5804-AAR		
DataHub for UNIX OS Additional License for Starter Kit Upgrade from R1 to R2	0432	33H5123
DataHub for UNIX OS Additional License for Control Point Upgrade from R1 to R2	0433	33H5124
DataHub for UNIX OS Additional License for 1 Managed Host Upgrade from R1 to R2	0434	33H5125

Additional License Copy Upgrade — Software Advantage Exhibit: Authorization to make additional license copies begins on the start date specified in the Software Advantage Agreement. Proof of Entitlement will be provided monthly.

Description	Part Number
Order Type 5804-AAR	
DataHub for UNIX OS Additional License for Starter Kit Upgrade from R1 to R2 without Certificate	33H5131
DataHub for UNIX OS Additional License for Control Point Upgrade from R1 to R2 without Certificate	33H5134
DataHub for UNIX OS Additional License for 1 Managed Host Upgrade from R1 to R2 without Certificate	33H5133

Upgrade Protection (New Product): The following upgrade protection products are available only under the Software Advantage for Workstations offering:

Description	Part Number
Order Type 5809-AAR	
Upgrade Protection Option for DataHub for UNIX OS Starter Kit OTC[2]	33H6964
Upgrade Protection Option for DataHub for UNIX OS Control Point OTC	33H6962
Upgrade Protection Option for DataHub for UNIX OS Managed Host OTC	33H6963
Upgrade Protection Option for DataHub for UNIX OS Starter Kit QC[3]	33H7151
Upgrade Protection Option for DataHub for UNIX OS Control Point QC	33H7149
Upgrade Protection Option for DataHub for UNIX OS Managed Host QC	33H7150

[2] One-Time Charge
[3] Quarterly Charge

Upgrade Protection (Entitled Customers): Customers who have previously acquired Software Advantage Upgrade Protection will automatically receive the appropriate program package shortly after May 17, 1996.

Program Upgrade

Upgrades to the DataHub for UNIX OS R2 products from the corresponding Release 1 products are available for a charge. Order the part number for the appropriate package. A Proof of Entitlement is required for each upgrade order.

The Proof of Entitlement must be retained for future upgrade offerings.

Conversion Table
IBM DataHub for UNIX OS Release 1 Upgrade to IBM DataHub for UNIX OS Release 2

If You Have the Product Below, Order the Associated New Part Number	Upgrade Part Number	Additional License Upgrade Number
DataHub for UNIX OS R1 Starter Kit (33H1660)	33H5122 (CD-ROM)	
DataHub for UNIX OS R1 Additional License for Starter Kit (33H1657)		33H5123
DataHub for UNIX OS R1 Additional License for Control Point (33H1658)		33H5124
DataHub for UNIX OS R1 Additional License for 1 Managed Host (33H1601)		33H5125
DataHub for UNIX OS R1 Additional License for Starter Kit without Certificate (33H1655)		33H5131
DataHub for UNIX OS R1 Additional License for Control Point without Certificate (33H1654)		33H5134
DataHub for UNIX OS R1 Additional License for 1 Managed Host without Certificate (33H1656)		33H5133

Customers can also order upgrades through the local IBM office using the IBM Personal Software Program Upgrade and Certification Order Form. The total quantity of upgrades acquired for a specific program cannot exceed the total quantity of program packages and/or additional licenses previously acquired for that program. Proof of License for upgrade eligibility for additional license upgrades is a copy of this invoice or previously acquired Proof of Entitlement for Additional License — with Certificate. Additional license upgrades can be entered through the local IBM office using the IBM Personal Software Program Upgrade and Certification Order Form or ordered through an authorized remarketer.

Terms and Conditions

Licensing: The program described in this announcement is licensed under the terms and conditions of the IBM International Program License Agreement. A copy of the agreement is included in the program package.

Additional License: Proof of Entitlement must be acquired.

Software Advantage for Workstations-Upgrade Protection: The announced program is eligible as an entitled upgrade. Entitled customers will be provided with a no-charge program package and a Proof of Entitlement authorizing right to copy equal to the number of programs protected. Shipment will follow May 17, 1996.

Variable Charges Apply: No

Limited Warranty: Yes

Program Services: Available until July 28, 1997.

Support Line: The AIX Systems Support line applies.

CIS Provided: A Complimentary Introductory Support period of 60 days is provided to customers who acquire, from IBM, solutions that include RS/6000™ brand systems and this product, and will apply to the first installation in the customer enterprise.

Volume Orders: For information about volume orders, contact your IBM representative.

The program numbers for “Additional Licenses — without Certificate” and “Upgrade Protection” are eligible for volume discounting under the terms of the Software Advantage for Workstations Agreement and Exhibit.

Guarantee: Yes. The IBM 30-day, money-back guarantee applies.

Authorization for Copy and Use on Home/Portable Computer: Not applicable

Program Transfer: Fully transferable

Educational Allowance: A reduced charge is available to qualified education customers. The educational allowance may not be added to any other discount or allowance.

Charges

Description	Part Number	OTC	UPC[4]
DataHub for UNIX OS R2			
Starter Kit Program Package	33H5110	$12,499	
Starter Kit Program Package 8-mm Tape Option	33H5163	169	
Starter Kit Program Package 4-mm Tape Option	33H5164	169	
Additional License for Starter Kit	33H5115	11,249	
Additional License for Control Point	33H5116	1,249	
Additional License for 1 Managed Host	33H5111	2,499	
Additional License for 5 Managed Host	33H5112	10,625	
Additional License for 10 Managed Host	33H5113	19,999	
Additional License for 50 Managed Host	33H5114	93,749	
Additional License for Starter Kit without Certificate	33H5156	11,249	
Additional License for Control Point without Certificate	33H5158	$1,249	
Additional License for 1 Managed Host without Certificate	33H5157	2,499	
Program Library	33H5166	118	
Starter Kit Program Package Upgrade from R1 to R2	33H5122	3,749	
Starter Kit Additional License Upgrade from R1 to R2	33H5123	3,375	
Additional License for Control Point Upgrade from R1 to R2	33H5124	375	
Additional License for 1 Managed Host Upgrade from R1 to R2	33H5125	749	
Additional License for Starter Kit Upgrade from R1 to R2 without Certificate	33H5131	3,749	
Additional License for Control Point Upgrade from R1 to R2 without Certificate	33H5134	375	
Additional License for 1 Managed Host Upgrade from R1 to R2 without Certificate	33H5133	749	
Upgrade Protection Option for Starter Kit OTC	33H6964		$4,500.00
Upgrade Protection Option for Starter Kit QC	33H7151		562.50
Upgrade Protection Option for Control Point OTC	33H6962		500.00
Upgrade Protection Option for Control Point QC	33H7149		62.50
Upgrade Protection Option for Managed Host OTC	33H6963		1,000.00
Upgrade Protection Option for Managed Host QC	33H7150		125.00

4 Upgrade Protection Charge

Optional Support Line Charge: $229 per month

Additional Licenses Charge: Customers who pay an OTC for additional licenses can copy machine-readable program materials and printed documentation previously acquired from IBM in a program package. One copy can be made for each additional license ordered.

Upgrade Protection: Customers who acquire Upgrade Protection through an OTC or quarterly payment charges (when meeting minimum revenue criteria) will be entitled at no charge to future versions and releases when announced within their Software Advantage agreement period. Following availability of the new program, IBM will provide a program package (including media and documentation) and a Proof of Entitlement authorizing right to copy, distribute, and install equal to the number of programs protected.

Program Upgrade Charge: Upgrades to the DataHub for UNIX OS R2 products from the corresponding Release 1 products are available for a charge. Order the part number for the appropriate package. A Proof of Entitlement is required for each upgrade order.

The Proof of Entitlement must be retained for future upgrade offerings.

Call Now to Order

To order, you can contact:

IBM Direct: IBM Direct, our national direct marketing organization, can also arrange to put your name on the mailing list for catalogs of IBM products.

Phone:	800-IBM-CALL
Fax:	800-2IBM-FAX
Internet:	ibm_direct@vnet.ibm.com
Mail:	IBM Direct Dept. YE001 P.O. Box 16848 Atlanta, GA 30321-0848
Reference:	YE001

To identify your local IBM Authorized Business Partner or IBM representative, call 800-IBM-4YOU.

Note: Shipments will begin after May 17, 1996.

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DSMBEG323I STARTING PASS 3 OF 3.
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