THE IBM PS/2 MODEL L40 SX SYSTEM AND FEATURES

IBM Announcement Letter Number 191-030 dated March 26, 1991 IBM US - Last Revised on March 26, 1991

Brief Description of Announcement, Charges, and Availability

The Personal System/2 (R) (PS/2 (R)) Model L40 SX is a small, lightweight, battery (AC/DC) operated portable laptop system. The PS/2 Model L40 SX is designed for the mobile professional who needs a high function portable that is convenient to carry and use, and has the speed and capacity to support advanced applications. Standard features include a 20MHz 80386SX processor, 2MB of 80ns memory (expandable to 18MB), 60MB fixed disk, 3.5-inch 1.44MB diskette drive, Video Graphics Array (VGA) resolution Liquid Crystal Display (LCD), 84/85 key keyboard, and serial, parallel, keypad/mouse, VGA monitor, and external expansion I/O ports for attaching external devices. In addition, each system includes an external 17 key numeric keypad, an AC adapter, a rechargeable battery pack, and a carrying case.

Also announced as options for the PS/2 Model L40 SX are a data/fax modem for the U.S. and Canada, a second serial adapter, a Trackpoint pointing device, 2, 4, or 8MB memory upgrades, a quick charger and a car battery adapter.

Planned Availability Date: March 26, 1991, for system, options, accessories and supplies. April 15, 1991, for the Car Battery Adapter, Trackpoint, Data/Fax Modem, and Quick Charger. April 30, 1991, for the French Canadian model.

(R) Registered trademark of International Business Machines Corporation.

Customer Letter Section

HIGHLIGHTS

- o Improves productivity of mobile professionals who need a high function, small, lightweight, battery (AC/DC) portable laptop system
- o Enables advanced business solutions in AC/DC portable laptops by providing a fast processor (20MHz 80386-SX), large memory (2 to 18MB), large DASD (60MB), and an internal data/fax modem option
- o Improves satisfaction with usability of AC/DC operated portable laptops for users who want a high resolution LCD, familiar IBM keyboard layout, and efficient power management
- o Protects user's investment in supported IBM peripherals and software

DESCRIPTION

USER PRODUCTIVITY

The small, lightweight PS/2 Model L40 SX is convenient for mobile professionals to take to home, client and classroom locations where AC outlets are not always conveniently accessible. Timely electronic capture of data at its source, and immediate access to information in

the remote work place, improves users' productivity, and adds quality and value to the products and services they provide.

The PS/2 Model L40 SX physical package is based on a clamshell design. The PS/2 Model L40 SX fits in most attache cases and weighs 7.7 pounds, including the rechargeable battery pack.

The high function in a small size and lightweight is achieved by combining advanced technologies such as:

- o 10mm thick, cold fluorescent sidelit, black on white monochrome LCD with VGA resolution
- o 2.5-inch fixed disk
- o 17mm high "super slim" 3.5-inch floppy disk drive
- o Thin 84/85 key keyboard
- o Highly integrated planar
- o Power management hardware and firmware
- o Low power DASD, LCD, memory technologies.

BUSINESS SOLUTIONS

The PS/2 Model L40 SX combines the flexibility of a portable laptop and a desktop system, with the system resources to run advanced PS/2 applications.

While in the office or at home, users can attach one of the supported IBM color displays or use the integrated LCD. The external numeric keypad is provided with all systems for numeric data entry applications. The following IBM PS/2 Model L40 SX standard I/O ports are provided:

- o Pointing device port for the external numeric keypad, the IBM PS/2 Trackpoint for Model L40 SX or the IBM Mouse. The numeric keypad also has a mouse port to enable both numeric keypad and pointing device connections concurrently.
- o Serial device port for connecting serial devices or external modems for connectivity to Wide Area Networks including the Ardis data radio services network.
- o Parallel device port for connecting devices such as printers.
- o VGA display port for connecting supported IBM VGA monitors.
- o External expansion port reserved for future use.

To boost performance, a co-processor socket, designed to be compatible with Intel 80387SX 20MHz co-processor or equivalent, is provided for process/compute intensive applications. For applications that require or perform better with large size memory, each PS/2 Model L40 SX has 2MB of memory with optional memory modules for up to 18MB. There are two memory sockets available for up to two memory module option kits. Memory module options of 2, 4, and 8MB support memory configurations of 2 (standard), 4, 6, 8, 10, 12, 14, and 18MB.

In the U.S. and Canada, the optional IBM PS/2 Internal Data/Fax Modem for Model L40 SX is available for communicating with other systems. It has two RJ11 phone jacks for concurrent network and telephone handset connections. It supports data (up to 2400bps) and fax (9600bps) communications, and standard Hayes AT (R) commands. For customers worldwide who need a second serial port, the IBM PS/2 Serial Adapter for Model L40 SX is optionally available. The co-processor, memory and modem or serial adapter sockets are inside the system unit.

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SYSTEMS MANAGEMENT AND USABILITY

The display, keyboard, power management, and packaging technologies used in the PS/2 Model L40 SX improves user satisfaction with the convenience and usability of AC/DC portables. The design provides:

- o Convenient weight and size for carrying in a briefcase or via the standard or optional carrying cases:
 - The standard carrying case is included with each PS/2 Model L40 SX system. It is a thin, leather, black case with a shoulder strap, a compartment for the system unit, and several small pockets for carrying diskettes.
 - The optional deluxe carrying case is a black, cloth case with pockets and compartments to carry portable options or business materials in addition to the system unit.
 - The optional travel case is a black, molded plastic, luggage type case with easy rolling wheels, a handle for carrying, and a telescopic handle for pulling. The interior is padded and contains space for portable options or peripherals, and business materials, as well as the system unit. It conforms to FAA luggage regulations which allow it to be carried on board aircraft.
- o Easy to read, 10-inch Supertwisted Nematic (STN) Liquid Crystal Display (LCD) with 640 X 480 Video Graphic Array (VGA) resolution, and cold fluorescent sidelighting with a 12 to 1 contrast ratio. Depending on the application, up to 32 grey scales can be addressed on the LCD. It displays black characters on a white background with 80 characters per line and 25 lines per screen.
- o Familiar IBM Keyboard layout with 84/85 keys and an external, 17 key numeric keypad totaling 101/102 full size keys. The location, size and spacing of the keys will be familiar to users of the IBM enhanced keyboard.
- o Adaptable two-sided pointing device (Trackpoint) option used to control cursor movement. One side supports trackball operation and the other side is used as a mouse.
- o Efficient power management:
 - To allow productive use of the mobile user's time, a suspend/resume function is provided. An application is suspended by closing the clamshell leaving the power switch on. When the clamshell is opened, the application resumes at the point it was suspended. During suspension system components are automatically powered off except for the real time clock and application memory. The system can be set to resume at a specific time of day.
 - For changing the rechargeable battery pack without disrupting the application, an internal backup battery is provided.
 - To reduce the frequency of recharging the batteries, trickle recharging occurs during AC operation.
 - To prolong battery life between recharges, a switch is provided for user selection of manual or automatic mode. In automatic mode, the hardware initiates low clock speed operation during idle periods. In manual mode, the processor runs at the default clock speed set by the user when the system is configured. The clock speed settings are 20, 10, and 5MHz.

- To conserve battery power, the hardware supports sleep mode. Sleep mode conserves battery power during idle times between clock cycles and key strokes by putting system components in an idle state resulting in low power usage. Sleep mode is not operational when an external display is attached. This function is exploited by DOS and OS/2 (R). Application, operational, operating system, and environmental characteristics will affect actual battery duration between recharges.
- o Informative LCD display with international symbols that indicate operational and environmental status including battery gauge, dew point (humidity), temperature limit indicator, modem carrier detect, numeric lock, scroll lock, speaker enabled, suspend mode, diskette drive in use, and fixed drive in use.

INVESTMENT PROTECTION

The PS/2 Model L40 SX is designed as a compatible member of the PS/2 family using the IBM DOS or OS/2 operating systems. Users of IBM keyboards and software should adapt to the new PS/2 Model L40 SX quickly. Mobile professionals who already have compatible peripherals and applications may view the portable PS/2 Model L40 SX as an extension of their current investment strategy.

STATEMENT OF GENERAL DIRECTION

IBM intends to provide an AC powered expansion unit for the PS/2 Model L40 SX to provide connectivity to IBM 3270, 5250 and Token-Ring networks using the Personal Computer AT (R) half sized adapter cards. Any other half size adapters that may be supported will be identified at announcement.

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PUBLICATIONS

The Quick Reference manual and Reference Diskette (S84F-7577) are shipped with the system unit.

The Quick Reference manual contains an introduction to the computer and trouble-shooting instructions. The Reference Diskette contains diagnostics and utilities. Additional copies are available.

The following publications are available:

	ORDER	PART
PUBLICATION	NUMBER	NUMBER
Hardware Maintenance		
Library	S15F-2271	15F2271
Technical Reference	S15F-2270	15F2270
Keyboard 3-Template Set	S84F-9782	84F9782
Data/Fax Modem		
Technical Reference	S15F-2268	15F2268

The Hardware Maintenance Library publication is for service personnel and details many aspects of maintaining the machine. The publication includes a parts catalog, the reference diskette containing advanced diagnostics, and instructions for identifying the failing field replaceable unit.

The Technical Reference publications are for programmers, engineers and others who want to understand the PS/2 Model L40 SX system unit in greater detail. The publications include functional specifications, hardware specifications and pinouts for peripheral

connectors.

Publications may be ordered from an IBM Authorized Dealer, an IBM representative, or through the Technical Directory. Also, publications are available through the IBM Software/Publications response line (1-800-327-5711). A complete listing of IBM Personal System/2 and IBM Personal Computer hardware publications is available by calling the Technical Directory at 1-800-IBM-PCTB (1-800-426-7282). SCHEDULE

The planned availability date is March 26, 1991, for system, options, accessories and supplies. The Car Battery Adapter, Trackpoint, Data/Fax Modem, and Quick Charger will be available April 15, 1991. The French Canadian model will be available April 30, 1991.

TECHNICAL INFORMATION

SPECIFIED OPERATING ENVIRONMENT

PHYSICAL SPECIFICATIONS:

Width: 325mm (12.8-in.) Depth: 272mm (10.7-in.) Height: 53.2mm (2.1-in.)

Weight: 3.5kg (7.7 lb. including the battery pack)

OPERATING ENVIRONMENT:

- o Temperature at sea level: 5 (degs)to 35 (degs)C (41 (degs) to 95
 (degs)F)
- o Relative Humidity: 5% to 95%
- o Wet Bulb: 29.4 (degs)C (85 (degs)F)
- o Altitude: 8000 ft. Maximum (2438 Meters)

PROGRAMMING REQUIREMENTS: The following operating systems support the PS/2 Model L40 SX:

- o IBM DOS 3.3
- o IBM DOS 4.0
- o Operating System/2 (R) Standard Edition Version 1.3 at refresh level 1.30.1
- Operating System/2 Extended Edition Version 1.3 at refresh level 1.30.1.
- (R) Registered trademark of International Business Machines Corporation.

COMPATIBILITY: The PS/2 Model L40 SX is designed to be compatible with the IBM Personal Computer, Personal Computer XT (TM) and Personal Computer AT at the BIOS interface level (BIOS not identical) and at most hardware interfaces. The PS/2 Model L40 SX has been designed to maintain compatibility with existing personal computer software and non-timing dependent features. Due to battery operation, small size and lightweight design, Personal Computer XT and Personal Computer AT memory upgrades and adapters are not supported.

(TM) Trademark of International Business Machines Corporation. LIMITATIONS: Only one IBM PS/2 4MB Memory Module Option Kit for Model L40 SX upgrade per system. There are no internal slots for attaching adapters/cards other than the specific IBM PS/2 Model L40 SX options. When the VGA port is operational, the integrated LCD is not operational. The IBM PS/2 Internal Data/Fax Modem for Model L40 SX and IBM PS/2 Serial Adapter for Model L40 SX optional features use the same internal connector so only one of

these options can be installed per system. External keyboards are not supported. When the 5MHz manual speed option is selected, some applications (such as communications and timing dependent programs) may not function properly. Operating System/2 Standard Edition (SE) and Extended Edition (EE) Versions 1.3 are only supported at refresh level 1.30.1 or later. PS/2 Model L40 SX customers wishing to install an existing OS/2 Version 1.3 SE or EE license not at refresh level 1.30.1 or higher, may obtain a modification to their OS/2 that will support the IBM PS/2 Model L40 SX by calling 1-800-426-7282 (U.S and Puerto Rico). There is no charge for this modification which will be available no later than April 12, 1991, for EE and March 26, 1991, for SE.

PLANNING INFORMATION

CABLE ORDERS: All cables are included with the system.

INSTALLABILITY: By following the setup instructions, the user attaches peripherals and inserts the Reference Diskette. Power is then turned on and Set Configuration is run after the computer has successfully completed its initial self-tests.

PROBLEM DETERMINATION: If a failure is found at initial installation, an instruction will appear on the screen. If the test is successfully completed, the system attempts to load an operating system from the "A" drive. If an operating system is not found, the system attempts to load one from the fixed disk drive. If an operating system is not found, the user will be prompted via an icon to insert a diskette. A final default is provided through the use of a ROM-loaded BASIC interpreter as explained in the Quick Reference manual.

PACKAGING: Each PS/2 Model L40 SX ships from the plant in a single carton. Since the keyboard is integrated with the system unit (clamshell), a unique part number is required for each PS/2 Model L40 SX model and country specific keyboard.

The model and part number for U.S., Canadian and Asia/Pacific English countries are:

o 8543-044 -- 79F1049

Each U.S., Canadian and Asia/Pacific English carton contains:

- o System unit with U.S. keyboard
- o AC adapter
- o Rechargeable battery pack
- o U.S. power cord
- o U.S. numeric keypad and cable
- o Carrying case
- o Quick Reference and Reference Diskette
- o Hints and tips.

The appropriate power cord is added for each Asia/Pacific country by the distribution center. For Japan, U.S. AC Adapter (65F0218) and U.S. power cord (6952301) are replaced with a Dentori approved AC Adapter with power cord (79F3910) at the appropriate AP distribution center.

The Canadian French model and part numbers are:

o 8543-3F4 -- 79F1201

Each Canadian French carton contains:

- o System Unit with Canadian French keyboard
- o AC Adapter
- o Rechargeable Battery Pack

- o US Power Cord (115v)
- o Canadian French Numeric Keypad and Cable
- o Carrying Case
- o Canadian French Quick Reference and Reference Diskette.

The Latin American Spanish model and part numbers are:

o 8543-3C4 -- 79F1209

The Latin American Spanish carton contains:

- o System Unit with Latin American Spanish keyboard
- o AC Adapter
- o Rechargeable Battery Pack
- o Spain/Spanish Numeric Keypad and Cable
- o Carrying Case.

The appropriate power cord and language Quick Reference and Reference Diskette will be provided by the IBM Latin American Distribution Center.

KEYBOARD: The country keyboards are integrated with the system unit. NUMERIC KEYPAD: The following country numeric keypads are included with the machine unit order for the applicable countries.

o U.S. English (1396199)

Belgium, Portugal, U.K., Israel, U.S, Canada,

FFATURE

DADT

IBM LA

o Canadian French

(1396570)

Canada

POWER CORD: Latin American and Asia/Pacific countries will order and stock the power cords unique to their country. The power cord is compatible with any of the existing Personal System/2 power cords obtained from country inventory.

ACCESSORIES AND/OR SUPPLIES: The IBM PS/2 carrying case for Model L40 SX included with each system unit, and the optional IBM PS/2 deluxe carrying case for Model L40 SX are both warranted by the manufacturer for one year and are not warranted by IBM. The warranty registration card is included with the case. Address any questions pertaining to warranty coverage for these cases to:

CBMS

Warranty Department 637-B South Broadway Boulder, CO 80303

The optional IBM PS/2 travel case for Model L40 SX is warranted by the manufacturer for three years, and is not warranted by IBM. The warranty registration card is included with the case. Address any questions pertaining to the travel case warranty coverage to:

Warranty Department 2315 Atlantic Avenue Raleigh, NC 27604-1496 (919) 821-0877

	FEATURE	PARI
ACCESSORIES/SUPPLY	NUMBER	NUMBER
IBM PS/2 Carrying Case		
for Model L40 SX	3981	79F3981
IBM PS/2 Deluxe Carrying		
Case for Model L40 SX	0981	79F0981
IBM PS/2 Travel Case		

for Model L40 SX IBM PS/2 Rechargeable Battery Pack for

Model L40 SX Supply 79F0197

To order the cases, contact your IBM marketing representative or authorized dealer. The rechargeable battery pack can be purchased from IBM Telemarketing Operations (TMO). Call IBM TMO at 1-800-IBM-2468. Mail orders should be sent to:

IBM Corporation

IBM Telemarketing Operations

One Culver Road

Dayton, NJ 08810

SECURITY, AUDITABILITY AND CONTROL

Security is provided by a user-invoked password capability on the Reference Diskette.

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

TERMS AND CONDITIONS

On January 22, 1991, IBM announced the IBM Customer Agreement The subject of this announcement is available to customers under the ICA or any equivalent agreement, accepted by IBM, that is still in effect.

INTERNATIONAL HARDWARE WARRANTY SERVICE: International Hardware Warranty Service is available only in the countries in which this product is sold by IBM, IBM Authorized Personal Computer Dealers, or IBM Authorized Industry Remarketers. Hardware warranty service is subject to the terms and conditions of the Statement of Limited Warranty provided with the product in the country of purchase. Customers may be required to show proof of original purchase to obtain warranty service.

VOLUME DISCOUNT: Volume purchasing is available under the Volume Discounts section of the IBM Customer Agreement.

The PS/2 Model L40 (8543-044) is included in Category A, Discount Group 1, of the Workstation and Related I/O Exhibit (WKSN). Customers with an existing volume discount commitment in Category A of the exhibit may order the PS/2 Model L40 as additional quantities to, or as direct substitutes for, any other machines in the same category subject to availability.

For further information regarding volume orders, contact your IBM marketing representative.

IBM CREDIT CORPORATION FINANCING: Term leases and installment payment plans are available for commercial and state and local government customers.

CUSTOMER FULFILLMENT OPTION APPLIES: Yes.

WARRANTY PERIOD: One year.

WARRANTY SERVICE: Customer Carry-In Repair (CCR).

NOTE: Customers may temporarily use IBM programs in support of this machine outside the country of acquisition. However, no program warranty or services are available outside the country of

ALTERNATIVE SERVICE: IBM On-Site Repair (IOR): This IOR warranty service alternative is not available as an International Hardware

Service Offering.

SERVICE/MAINTENANCE AFTER WARRANTY: IBM On-Site Repair (IOR). IBM HOURLY SERVICE RATE CLASSIFICATION: One.

IBM Warranty Service, Maintenance Service or IBM Hourly Service may be obtained by calling 1-800-IBM-SERV. IBM Hourly Service is available at the applicable rate and terms, including element exchange price if applicable.

VOLUME MAINTENANCE AMENDMENT (VMA): The PS/2 Model L40 (8543-044) is an eligible machine and a qualifying machine for the Volume Maintenance Option of the IBM Customer Agreement. A revised exhibit will be available at a later date.

MID-RANGE SYSTEM OPTION: The PS/2 Model L40 (8543-044) is an eligible machine for the Mid-Range System Option of the IBM Customer Agreement. A revised exhibit will be available at a later date.

ELIGIBLE DISCOUNT

TYPE THREE YEAR FIVE YEAR 8543 17% 22%

CORPORATE SERVICE OPTION: The PS/2 Model L40 SX (8543-044) is an eligible machine for the Corporate Service Option of the IBM Customer Agreement. A revised exhibit will be available at a later date.

ELIGIBLE DISCOUNT

TYPE THREE YEAR FIVE YEAR
Network 25% 30%
System 17% 22%

EXTENDED MAINTENANCE OPTION: The PS/2 Model L40 SX (8543-044) is an eligible machine for the Extended Maintenance Option of the IBM Customer Agreement. A revised exhibit will be available at a later date.

CENTRAL FACILITY MAINTENANCE SERVICE: The PS/2 Model L40 SX (8543-044) is an eligible machine for Central Facility Maintenance Service Option of the IBM Customer Agreement. A revised exhibit will be available at a later date.

The minimum number of machines required to be at the central facility before requesting maintenance service is six machines. The Additional Maintenance Charge Factor is currently 0.5 hours. The terms and conditions are stated in the Attachment for Central Facility Maintenance Service Option.

PRODUCT AVAILABILITY STATUS: New product available.

FIELD INSTALLABLE FEATURES/MODEL CONVERSIONS: Yes.

The following optional features are not Customer Setup (CSU). These features are designed to be installed by IBM trained personnel.

- o IBM PS/2 Internal Data/Fax Modem for Model L40 SX
- o IBM PS/2 Serial Adapter for Model L40 SX
- o IBM PS/2 2MB Memory Module Option Kit for Model L40 SX
- o IBM PS/2 4MB Memory Module Option Kit for Model L40 SX
- o IBM PS/2 8MB Memory Module Option Kit for Model L40 SX.

CUSTOMER SETUP: Customer setup allowance is one day for the system unit. IBM setup is available at the applicable IBM Hourly Service rate and terms.

LICENSED INTERNAL CODE: No.

IBM EDUCATION ORDER CENTER: This product is available for ordering through the IBM Education Order Center. Please note that availability through the Education Order Center may not coincide with the product availability dates noted in other sections of this

document.

The IBM Education Order Center is the order processing location for selected personal computers and related hardware/software for eligible education end users. Eligible end users are defined as faculty and staff members of qualified kindergarten through twelfth grade education institutions and students, faculty and staff members of higher education institutions which have an Education Product Coordinator.

NATIONAL EDUCATION PRICE (NEP): A National Education Price is available under the terms and conditions of the National Education Price Exhibit. The NEP price which represents a 40% discount from the single unit purchase price, is not subject to any further discount or allowance. The machine in this announcement is included in the National Education Price Exhibit.

CHARGES PRODUCT

DESCRIPTION PS/2 Model L40 SX	MACHINE TYPE 8543	MODEL NUMBER 044	PURCHASE PRICE \$ 5,995
FEATURES			, - , -
		FEATURE	PURCHASE
DESCRIPTION		NUMBER	PRICE
IBM PS/2 Serial Adapter			
for Model L40 SX		0979	\$ 149
IBM PS/2 Internal Data/Fax			
Modem for Model L40 SX		1198	659
IBM PS/2 Car Battery Adapter			
for Model L40 SX		1012	249
IBM PS/2 2MB Memory Module			
Option Kit for Model L40 SX		0999	899
IBM PS/2 4MB Memory Module			
Option Kit for Model L40 SX		1111	1,995
IBM PS/2 8MB Memory Module		4440	2 505
Option Kit for Model L40 SX		1112	3,595
IBM PS/2 Carrying Case for Model L40 SX		2001	90
IBM PS/2 Deluxe Carrying Case		3981	89
for Model L40 SX		0981	199
IBM PS/2 Travel Case		0381	199
for Model L40 SX		3844	369
IBM PS/2 Quick Charger		30	303
for Model L40 SX		0192	219
IBM PS/2 Trackpoint			
for Model L40 SX		7040	159
SUPPLY: The following can be or	dered from I	IBM Telemark	ceting
Operations at 1-800-IBM-2468.			

	PART	PURCHASE
DESCRIPTION	NUMBER	PRICE
IBM PS/2 Rechargeable Battery		
Pack for Model L40 SX	79F 01 97	\$ 129
PUBLICATIONS		
	ORDER	
	NUMBER	CHARGE

Hardware Quick Reference and Reference Disket Hardware Maintenance		S84F-7577	\$ 53.50
Library		S15F-2271	38.00
Technical Reference		S15F-2270	59.00
Keyboard 3-Template Se	t	S84F-9782	168.00
Data/Fax Modem			
Technical Reference		S15F-2268	9.60
WARRANTY OPTION UPGRAD	E CHARGES:		
WARRANTY UPGRADE	WARRANTY		
OPTION	UPGRADE		
FROM TO	CHARGE		
CCR IOR	\$ 40		
ANNUAL MINIMUM MAINTEN	ANCE CHARGES:		
IBM	CENTRAL FACILITY		
ON-SITE REPAIR	MAINTENANCE SERVICE		
(IOR)	(CFMS)		
\$ 430	\$ 408		

ATTACHMENT A

The IBM PS/2 (R) Model L40 SX is designed to be compatible with the following peripherals and software products that run on other PS/2 systems. Other peripherals may also work, but have not been tested by IBM.

I/O DEVICES SUPPORTED

PERIPHERALS

2205-001	PS/1 (TM) Printer
3117	Scanner
3118	Scanner
3812-001	Pageprinter
3852-002	Color Inkjet Printer
4019-001	LaserPrinter
4019-E01	LaserPrinter
4072	ExecJet (TM)
4201-002	Proprinter (R) II
4201-003	Proprinter III
4202-001	Proprinter XL
4202-002	Proprinter II XL
4202-003	Proprinter III XL
4207-001	Proprinter X24
4207-002	Proprinter X24E
4208-001	Proprinter XL24
4208-002	Proprinter XL24E
4212-001	IBM Printer
5201-001	Quietwriter (R)
5201-002	Quietwriter
5202-001	Quietwriter III
5204-001	Quickwriter (R) Printer
5853	IBM PC 2400 Baud Modem (external)
6180	IBM 6180 Color Plotter
6182	IBM 6182 Color Plotter
6184	IBM 6184 Color Plotter
7372	IBM 7372 Color Plotter
8512	IBM 8512 Color Display

8514 IBM 8514 Color Display (VGA mode only) 8515 IBM 8515 Color Display (VGA mode only)

FEATURES AND ACCESSORIES

PART FEATURE

NUMBER NUMBER DESCRIPTION

6450350 8770 Personal System/2 (R) Mouse

VENDOR CONNECTIVITY AND PRINTER PRODUCTS: The following Independent Option Vendors (IOV) have tested their listed connectivity and printer products with the IBM PS/2 Model L40 SX and have advised IBM of compatibility. IBM has not evaluated these products and makes no comments or judgements about their functions, quality, performance, etc.

IOV	PRODUCT	MODELS
Eastman Kodak (1)	Diconix (1) 150 Plus Printer	Serial,
		Parallel
Xircom (2) Inc.	Pocket Ethernet Adapter	PE10B2, PE10BT,
		PE10BX
	Pocket Token-Ring Adapter	PT04B3, PT04BT
	Pocket Arcnet Adapter	PA02B6, PA02BT
	Parallel Port Multiplexor	PPX-02
Axonix Corp.	LapStation (3) Expansion Unit	LS1, LS2

IBM SOFTWARE COMPATIBILITY

The following IBM software products are designed to be compatible with the IBM PS/2 Model L40 SX systems and will operate substantially as described in their program documentation.

		PROGRAM	ORDERING	FEATURE
DESCRIPTION	VERSION	NUMBER	VEHICLE	NUMBER
OPERATING SYSTEMS				
IBM DOS	3.3	6280060	5871-AAA	0957
IBM DOS	4.0	6280256	5871-AAA	1419
Operating System/2 (R)				
Standard Edition				
with Refresh 1.30.1	1.3	84F7588	5871-AAA	1615
Operating System/2				
Extended Edition				
with Refresh 1.30.1	1.3	15F7195	5871-AAA	1570
LANGUAGES				
Basic Compiler/2 (TM)	1.2	6280179	5871-AAA	0822
C/2 (TM)	1.1	6280284	5871-AAA	1410
COBOL/2 (TM)	1.01	6280207	5871-AAA	0816
FORTRAN/2 (TM)	1.1	6280185	5871-AAA	0824
Macro Assembler/2 (TM)	1.0	6280181	5871-AAA	0820
PASCAL Compiler/2 (TM)	1.0	6280183	5871-AAA	0826
APPLICATIONS				
DisplayWrite (R) 4 Version 2	3.0	25F5951	5871-BBB	5951
DisplayWrite 5 Composer	2.1	86F2450	5871-BBB	1375
DisplayWrite 5/2 Composer	1.1.3	25F5999	5871-BBB	5999
Writing Assistant (TM)	2.0	6024460	5875-MMM	4460
Filing Assistant (R)	2.0	6024457	5875-MMM	4497
Storyboard (TM) Plus	1.01	73F6005	5872-BBB	1139
IBM CAD-DOS	1.2.1	64F6914	5871-AAA	0707
IBM CAD/Plus-DOS	1.2.1	64F6921	5871-AAA	0636
SAA (TM) Personal Application	า			

System/2	2.0	32F8344	
SAA Personal Application			
System Development/2	2.0	32F8346	
SAA Personal Application			
System Statistics/2	2.0	32F8348	
SAA Personal Application		2050250	
System Business Planning/2		32F8350	
SAA Personal Application System Project Management/2		2250252	
EDUCATION SOFTWARE PRODUCTS		32F8352	
TITLE		VERSION	3.5-INCH
Bouncy Bee Learns Letters		1.01	6024511
Bouncy Bee Learns Words		1.01	6024510
BIOLOGY SERIES VERSION 1.01			
The Environment I: Habitats an	d Ecosyst	ems	6024658
The Environment II: Cycles and			6024656
Leaf: Structure and Physiology			6024637
Light, Plants, and Photosynthe		gy in Conversion	6024638
Plants: Growth and Specializat			6024645
Cell Functions: Growth and Mit			6024635
Cytology and Histology: Cells			6024612
Passive Transport: Diffusion a			6024639
Regulation and Homeostasis: Sy			6024615
Human Life Processes I: Cellul	-	logy	6024649
Human Life Processes II: Syste			6024616
Human Life Processes III: Deve	-	na Differentiation	6024657
Pathology: Diseases and Defens			6024646
	nd Cadina		6024640
Modern Genetics: Chromosomes a	nd Coding		6024648
TITLE	_	VERSION	6024648 3.5-INCH
TITLE BIOLOGY SERIES VERSION 1.01 (C	ONTINUED)	VERSION	3.5-INCH
TITLE BIOLOGY SERIES VERSION 1.01 (C Mendelian Genetics: The Science	ONTINUED) e of Inhe	VERSION ritance	3.5-INCH 6024613
TITLE BIOLOGY SERIES VERSION 1.01 (Commended in Genetics: The Science Chemicals of Life I: The Structure in	ONTINUED) e of Inhe	VERSION ritance atter	3.5-INCH 6024613 6024636
TITLE BIOLOGY SERIES VERSION 1.01 (C Mendelian Genetics: The Science Chemicals of Life I: The Struct Chemicals of Life II: Water, C	CONTINUED) e of Inhe ture of M arbohydra	VERSION ritance atter tes, and Lipids	3.5-INCH 6024613
TITLE BIOLOGY SERIES VERSION 1.01 (Commended in Genetics: The Science Chemicals of Life I: The Structure Chemicals of Life II: Water, Commicals of Life III: Protein Chemicals Of Life III	ONTINUED) e of Inhe ture of M arbohydra s and Nuc	VERSION ritance atter tes, and Lipids leic Acids	3.5-INCH 6024613 6024636 6024647 6024614
TITLE BIOLOGY SERIES VERSION 1.01 (C Mendelian Genetics: The Science Chemicals of Life I: The Struct Chemicals of Life II: Water, C	CONTINUED) To of Inhecture of Marbohydra Tarbohydra Tarbohydra Tarbohydra Tarbohydra Tarbohydra	VERSION ritance latter tes, and Lipids leic Acids ruits, and Embryos	3.5-INCH 6024613 6024636 6024647 6024614
TITLE BIOLOGY SERIES VERSION 1.01 (Commended) and Genetics: The Science Chemicals of Life I: The Structure Chemicals of Life II: Water, Commicals of Life III: Protein Pollination and Fertilization:	CONTINUED) To of Inhecture of Marbohydra Tarbohydra Tarbohydra Tarbohydra Tarbohydra Tarbohydra	VERSION ritance latter tes, and Lipids leic Acids ruits, and Embryos	3.5-INCH 6024613 6024636 6024647 6024614 6024633
TITLE BIOLOGY SERIES VERSION 1.01 (Commended) and Genetics: The Science Chemicals of Life I: The Structure Chemicals of Life II: Water, Commicals of Life III: Protein Pollination and Fertilization: Taxonomy: Classification and Commended	CONTINUED) To of Inhecture of Marbohydra Tarbohydra Tarbohydra Tarbohydra Tarbohydra Tarbohydra	VERSION ritance latter tes, and Lipids leic Acids ruits, and Embryos	3.5-INCH 6024613 6024636 6024647 6024614 6024633
TITLE BIOLOGY SERIES VERSION 1.01 (Common Mendelian Genetics: The Science Chemicals of Life I: The Struct Chemicals of Life II: Water, Common Chemicals of Life III: Protein Pollination and Fertilization: Taxonomy: Classification and Common	CONTINUED) To of Inhecture of Marbohydra Tarbohydra Tarbohydra Tarbohydra Tarbohydra Tarbohydra	VERSION ritance latter tes, and Lipids leic Acids ruits, and Embryos	3.5-INCH 6024613 6024636 6024647 6024614 6024633 6024655
TITLE BIOLOGY SERIES VERSION 1.01 (Common Mendelian Genetics: The Science Chemicals of Life I: The Struct Chemicals of Life II: Water, Common Common Mendelian and Fertilization: Taxonomy: Classification and Common Commo	CONTINUED) Te of Inhecture of Microphydra Tarbohydra Tarbohydra Tarbohydra Tarbohydra Tarbohydra Tarbohydra Tarbohydra Tarbohydra	VERSION ritance latter tes, and Lipids leic Acids ruits, and Embryos	3.5-INCH 6024613 6024636 6024647 6024614 6024633 6024655 6024518 6024516 6024519
TITLE BIOLOGY SERIES VERSION 1.01 (Common terms of the series of the structure of the series of the	CONTINUED) Te of Inhecture of Microphydra Tarbohydra Tarbohydra Tarbohydra Tarbohydra Tarbohydra Tarbohydra Tarbohydra Tarbohydra	VERSION ritance latter tes, and Lipids leic Acids ruits, and Embryos on	3.5-INCH 6024613 6024636 6024647 6024614 6024633 6024655 6024518 6024516 6024519 6024520
TITLE BIOLOGY SERIES VERSION 1.01 (Common terms of the series of the structure of the series of the	CONTINUED) Te of Inhecture of Micarbohydra Tarbohydra Tarbohydra Tarbohydra Tarbohydra Tarbohydra Tarbohydra Tarbohydra Tarbohydra	VERSION ritance latter tes, and Lipids leic Acids ruits, and Embryos on	3.5-INCH 6024613 6024647 6024614 6024633 6024655 6024518 6024516 6024519 6024520 6024517
TITLE BIOLOGY SERIES VERSION 1.01 (Commended) and Genetics: The Science Chemicals of Life I: The Struct Chemicals of Life II: Water, Commicals of Life III: Protein Pollination and Fertilization: Taxonomy: Classification and Commended Co	CONTINUED) Te of Inhecture of Micarbohydra Tarbohydra Tarbohydra Tarbohydra Tarbohydra Tarbohydra Tarbohydra Tarbohydra Tarbohydra	VERSION ritance latter tes, and Lipids leic Acids ruits, and Embryos on 1.01 1.01	3.5-INCH 6024613 6024636 6024647 6024614 6024633 6024655 6024518 6024516 6024519 6024520 6024517 6024521
TITLE BIOLOGY SERIES VERSION 1.01 (Common terms of the series of the structure of the series of the	CONTINUED) Te of Inhecture of Micarbohydra Tarbohydra Tarbohydra Tarbohydra Tarbohydra Tarbohydra Tarbohydra Tarbohydra Tarbohydra	VERSION ritance atter tes, and Lipids leic Acids ruits, and Embryos on 1.01 1.01 1.01	3.5-INCH 6024613 6024636 6024614 6024613 6024655 6024518 6024516 6024519 6024517 6024521 6024522
TITLE BIOLOGY SERIES VERSION 1.01 (Common the series of the science of the series of the structure of the series o	CONTINUED) Te of Inhecture of Micarbohydra Tarbohydra Tarbohydra Tarbohydra Tarbohydra Tarbohydra Tarbohydra Tarbohydra Tarbohydra	VERSION ritance latter tes, and Lipids leic Acids ruits, and Embryos on 1.01 1.01 1.01 1.00	3.5-INCH 6024613 6024636 6024647 6024614 6024633 6024655 6024518 6024516 6024519 6024520 6024517 6024521 6024522 6024514
TITLE BIOLOGY SERIES VERSION 1.01 (Common the series of the science of the series of the structure of the series o	CONTINUED) Te of Inhecture of Micarbohydra Tarbohydra Tarbohydra Tarbohydra Tarbohydra Tarbohydra Tarbohydra Tarbohydra Tarbohydra	VERSION ritance latter tes, and Lipids leic Acids ruits, and Embryos on 1.01 1.01 1.01 1.00 1.01	3.5-INCH 6024613 6024636 6024647 6024614 6024633 6024655 6024518 6024516 6024519 6024520 6024517 6024521 6024521 6024524 6024514 6024506
TITLE BIOLOGY SERIES VERSION 1.01 (Commended) and Genetics: The Science Chemicals of Life I: The Struct Chemicals of Life II: Water, Commicals of Life III: Protein Pollination and Fertilization: Taxonomy: Classification and Commended Co	CONTINUED) Te of Inhecture of Micarbohydra Tarbohydra Tarbohydra Tarbohydra Tarbohydra Tarbohydra Tarbohydra Tarbohydra Tarbohydra	VERSION ritance latter tes, and Lipids leic Acids ruits, and Embryos on 1.01 1.01 1.01 1.00	3.5-INCH 6024613 6024636 6024647 6024614 6024633 6024655 6024518 6024516 6024519 6024520 6024517 6024521 6024522 6024514
TITLE BIOLOGY SERIES VERSION 1.01 (Common the series of the science of the series of the structure of the series o	CONTINUED) Te of Inhecture of Micarbohydra Tarbohydra Tarbohydra Tarbohydra Tarbohydra Tarbohydra Tarbohydra Tarbohydra Tarbohydra	VERSION ritance latter tes, and Lipids leic Acids ruits, and Embryos on 1.01 1.01 1.01 1.00 1.01 1.01	3.5-INCH 6024613 6024636 6024647 6024614 6024633 6024655 6024518 6024516 6024519 6024520 6024521 6024521 6024522 6024514 6024506 6024507
TITLE BIOLOGY SERIES VERSION 1.01 (Common the series of the science of the series of the structure of the series o	CONTINUED) Te of Inhecture of Marbohydra Te and Nucleon Te Seeds, Forganizati	VERSION ritance atter tes, and Lipids leic Acids ruits, and Embryos on 1.01 1.01 1.01 1.00 1.01 1.01 1.01	3.5-INCH 6024613 6024636 6024647 6024614 6024633 6024655 6024518 6024516 6024519 6024520 6024517 6024521 6024522 6024514 6024506 6024507
TITLE BIOLOGY SERIES VERSION 1.01 (Commended) and Genetics: The Science Chemicals of Life I: The Struct Chemicals of Life II: Water, Commicals of Life III: Water, Commicals of Life III: Protein Pollination and Fertilization: Taxonomy: Classification and Commended Co	CONTINUED) Te of Inher Ture of M Tarbohydra	VERSION ritance latter tes, and Lipids leic Acids ruits, and Embryos on 1.01 1.01 1.01 1.00 1.01 1.01 1.01 1.	3.5-INCH 6024613 6024647 6024614 6024633 6024655 6024518 6024516 6024519 6024520 6024517 6024521 6024522 6024514 6024506 6024507
TITLE BIOLOGY SERIES VERSION 1.01 (C) Mendelian Genetics: The Science Chemicals of Life I: The Struct Chemicals of Life II: Water, Co Chemicals of Life III: Water, Co Chemicals of Life III: Protein Pollination and Fertilization: Taxonomy: Classification and Co EARTH SCIENCE SERIES Hydrologic Cycle 1.01 Ground Water 1.01 Surface Water 1.01 Moisture in the Atmosphere 1.00 Earthquakes Volcanoes Landslides Glacial Landforms Listen to Learn Missing Letters PHYSICS SERIES Investigating Acceleration Investigating Gravitational Followes	CONTINUED) Te of Inher Ture of M Tarbohydra	VERSION ritance latter tes, and Lipids leic Acids ruits, and Embryos on 1.01 1.01 1.01 1.00 1.01 1.01 1.01 1.	3.5-INCH 6024613 6024636 6024647 6024614 6024633 6024655 6024518 6024516 6024519 6024520 6024517 6024521 6024522 6024514 6024506 6024507
TITLE BIOLOGY SERIES VERSION 1.01 (C) Mendelian Genetics: The Science Chemicals of Life I: The Struct Chemicals of Life II: Water, Contemicals of Life III: Protein Pollination and Fertilization: Taxonomy: Classification and Contemicals EARTH SCIENCE SERIES Hydrologic Cycle 1.01 Ground Water 1.01 Surface Water 1.01 Moisture in the Atmosphere 1.00 Earthquakes Volcanoes Landslides Glacial Landforms Listen to Learn Missing Letters PHYSICS SERIES Investigating Acceleration Investigating Gravitational For Investigating Conservation of Investigating Thermal Energy	CONTINUED) The of Inheriture of Marbohydra The sand Nucleonics and Nucleonics The Seeds, Forganization	VERSION ritance latter tes, and Lipids leic Acids ruits, and Embryos on 1.01 1.01 1.01 1.00 1.01 1.01 1.01 1.	3.5-INCH 6024613 6024636 6024647 6024614 6024633 6024655 6024518 6024516 6024519 6024520 6024517 6024521 6024522 6024506 6024507 6024624 6024625 6024623
TITLE BIOLOGY SERIES VERSION 1.01 (C) Mendelian Genetics: The Science Chemicals of Life I: The Struct Chemicals of Life II: Water, Co Chemicals of Life III: Water, Co Chemicals of Life III: Protein Pollination and Fertilization: Taxonomy: Classification and Co EARTH SCIENCE SERIES Hydrologic Cycle 1.01 Ground Water 1.01 Surface Water 1.01 Moisture in the Atmosphere 1.00 Earthquakes Volcanoes Landslides Glacial Landforms Listen to Learn Missing Letters PHYSICS SERIES Investigating Acceleration Investigating Gravitational Followes	CONTINUED) The of Inheriture of Marbohydra The sand Nucleonics and Nucleonics The Seeds, Forganization	VERSION ritance latter tes, and Lipids leic Acids ruits, and Embryos on 1.01 1.01 1.01 1.00 1.01 1.01 1.01 1.	3.5-INCH 6024613 6024636 6024647 6024614 6024633 6024655 6024518 6024516 6024519 6024520 6024517 6024521 6024522 6024514 6024506 6024507

Investigating Models of Light	1.01	6024626
Investigating Atomic Models	1.00	6024523
Primary Editor	1.01	6024767
Private Tutor	2.01	6024508
BASIC SKILLS SERIES		
Reading for Meaning: Level II	2.00	57F1993
Dooding for Mooning, Lovel TIT	2 00	F7F100 <i>C</i>
Reading for Meaning: Level III	2.00	57F1996
Reading for Meaning: Level IV	2.00	57F1999
Algebra One: Part One	1.00	6024775
Algebra One: Part Two	1.00	6024776
Algebra Two: Part One	1.00	6024777
Algebra Two: Part Two	1.00	6024778
IBM Math Exploration Toolkit	1.00	6024774
Teacher's Quiz Designer	1.00/1.01	6024509
Writing to Read (R) Program Kit	3.00	6024513
Scientific Reasoning Series	1.10	84F7763
Exploring Measurement, Time and Money		
Level I (4), (5)	1.00	6024870
Exploring Measurement, Time and Money		
Level II (4)	1.00	6280354
Exploring Measurement, Time and Money		
Level III (4)	1.00	6280357
Personal Science Laboratory (TM) Explorer	1.00	64F1430
LinkWay (TM) (4), (5)	2.00	84F7559
(1) lices or requires mouse		

- (4) Uses or requires mouse.
- (5) Uses or requires speech and appropriate driver.

VENDOR SOFTWARE COMPATIBILITY

The following software products have been tested by the vendors in their latest versions and certified as compatible with the IBM PS/2 Model L40 SX. IBM has not evaluated these products and makes no comments or judgements about their functions, quality, performance, etc. Listed products may not be available in all countries.

SOFTWARE PUBLISHER DESCRIPTION VERSION

DESCRIPTION	VENSION
Panadov (6)	3.5
• •	
• •	2.03
Paradox for OS/2 (6)	2.05
Quattro Pro (6)	2.0
SideKick (6)	1.58
SideKick 2 (6)	2.0
SideKick Plus (6)	1.01
SideKick/PM (6)	2.0
VM/386 (7)	1.22
Symphony (8)	2.2
1-2-3 (8)	2.2
1-2-3	3.1
Excel for Windows (9)	3.0
Word for Windows (9)	1.1
` ,	2.0
• •	3.0
• •	
Professional Uracle	5.1C
	Paradox (6) Paradox 386 (6) Paradox for OS/2 (6) Quattro Pro (6) SideKick (6) SideKick 2 (6) SideKick Plus (6) SideKick/PM (6) VM/386 (7) Symphony (8) 1-2-3 (8) 1-2-3

Policy Management	IAP (10) Integrated	
Systems Corporation	Application Platform	2.1
Quarterdeck	Desview 386 (11)	2.32
Office Systems	QEMM 386 (11)	5.12
Symantec Corporation	GrandView (12)	2.0
	Q&A (12)	3.0
	Q&A Write	1.01
	The Norton Anti-virus (12)	1.0
	The Norton Backup (12)	2.0
	The Norton Commander (12)	3.1
	The Norton Editor (12)	2.0
	The Norton Utilities (12)	5.0
	Time Line (12)	4.0
WordPerfect		
Corporation	DataPerfect (13)	2.1
	DrawPerfect (13)	1.1
	LetterPerfect (13)	1.0
	PlanPerfect (13)	5.1
	WordPerfect (13)	5.1
	WordPerfect Executive	
	WordPerfect Office	3.0

See the "Hints and Tips" document shipped with the system for requirements for running Windows.

SOFTWARE VENDOR PROGRAMS

The following software vendor products have been tested by an Independent Test Laboratory on the IBM PS/2 Model L40 SX. This list does not include all of the products that may run on the IBM PS/2 Model L40. The products operate substantially as described in their program documentation. IBM has not evaluated these products and makes no comments or judgements about their functions, quality, performance, etc. Listed products may not be available in all countries.

			TEST ENVI	TEST ENVIRONMENT	
			DOS	OS/2	
SOFTWARE			3.3	1.3	
PUBLISHER	DESCRIPTION	VERSION	OR 4.0		
Aldus					
Corporation	PageMaker (14)	3.0		Χ	
	PageMaker	3.01	Χ		
Ashton-Tate	Applause II (15)	1.1	Χ		
	dBASE III (15) Plus	1.1	Χ		
	dBASE IV (15)	1.1	Χ		
Autodesk, Inc.	AutoCAD (16) 386	11.0			
	AutoCAD for OS/2	10c14		Χ	
	AutoSketch	2.0	Χ		
Borland					
International					
Inc.	Paradox for OS/2	2.0		Χ	
	Quattro Pro	2.0	Χ		
	Sidekick	1.58A	Χ		
	Sidekick Plus	1.01	Χ		
	Sidekick for PM	2.0		Χ	
Broderbund					
Software	New Print Shop (17)	3.0	Χ		

Caseworks, Inc. Chipsoft, Inc. Computer Associates International,	CASE PM (18) Turbo-Tax (19)	2.0 7.01	X	X
Inc. Contact Software	AccPac (20) Plus	6.0A		Χ
International Corel Systems	Act! (21)	2.0	X	
Corporation DAC Software,	Corel (22) Draw	1.2	X	
Inc.	DAC-Easy (23) Accounting	4.1	X	
Digital Communications	-			
Associates, Inc.	Crosstalk (24) Mark I Crosstalk XVI	V2.0 3.71	X X	
Digital				
Research, Inc.	GEM (25) Draw PLus	2.01	Χ	
	GEM Graphics GEM Presentation	1.0	X	
	Team	3.1	Χ	
	GEM WordChart	1.0	Χ	
Digitalk, Inc.	Smalltalk (26) V/PM	1.1		Χ
			TEST ENVIRO	NMENT
			DOS	OS/2
SOFTWARE			3.3	1.3
PUBLISHER	DESCRIPTION	VERSION	OR 4.0	
Eighty/20 Software	Expeed Contract			
	Manager (27)	1.0	Χ	
Fifth Generation				
Systems, Inc.	FastBack (28) Plus	2.1	Χ	
-	Mace (28) Utilities	1990	Χ	
Fox				
1 0 1				
	Fox Pro (29)	1.01	X	
Software, Inc. Hayes Microcomputer				
Software, Inc. Hayes Microcomputer Products, Inc.	SmartCom III (30)	1.2A	x x	
Software, Inc. Hayes Microcomputer Products, Inc. Hilgraeve, Inc.	SmartCom III (30) HyperAccess/5 (31)	1.2A 1.1		X
Software, Inc. Hayes Microcomputer Products, Inc.	SmartCom III (30)	1.2A 1.1 3.0		Х
Software, Inc. Hayes Microcomputer Products, Inc. Hilgraeve, Inc.	SmartCom III (30) HyperAccess/5 (31)	1.2A 1.1		X
Software, Inc. Hayes Microcomputer Products, Inc. Hilgraeve, Inc. Intuit Language	SmartCom III (30) HyperAccess/5 (31) Quicken (32)	1.2A 1.1 3.0	Х	
Software, Inc. Hayes Microcomputer Products, Inc. Hilgraeve, Inc. Intuit	SmartCom III (30) HyperAccess/5 (31)	1.2A 1.1 3.0	Х	X X
Software, Inc. Hayes Microcomputer Products, Inc. Hilgraeve, Inc. Intuit Language	SmartCom III (30) HyperAccess/5 (31) Quicken (32)	1.2A 1.1 3.0 Rel 6	Х	
Software, Inc. Hayes Microcomputer Products, Inc. Hilgraeve, Inc. Intuit Language Processors, Inc.	SmartCom III (30) HyperAccess/5 (31) Quicken (32) RM/Fortran (33)	1.2A 1.1 3.0 Rel 6 3.05.03	X X	
Software, Inc. Hayes Microcomputer Products, Inc. Hilgraeve, Inc. Intuit Language Processors, Inc. Meca Ventures	SmartCom III (30) HyperAccess/5 (31) Quicken (32) RM/Fortran (33) Managing Your Money	1.2A 1.1 3.0 Rel 6 3.05.03	X X	
Software, Inc. Hayes Microcomputer Products, Inc. Hilgraeve, Inc. Intuit Language Processors, Inc. Meca Ventures	SmartCom III (30) HyperAccess/5 (31) Quicken (32) RM/Fortran (33) Managing Your Money Metaware High C and	1.2A 1.1 3.0 Rel 6 3.05.03 6.0	x x x	
Software, Inc. Hayes Microcomputer Products, Inc. Hilgraeve, Inc. Intuit Language Processors, Inc. Meca Ventures MetaWare, Inc.	SmartCom III (30) HyperAccess/5 (31) Quicken (32) RM/Fortran (33) Managing Your Money Metaware High C and 386/DOS Extender	1.2A 1.1 3.0 Rel 6 3.05.03 6.0 2.03 2.0	x x x	
Software, Inc. Hayes Microcomputer Products, Inc. Hilgraeve, Inc. Intuit Language Processors, Inc. Meca Ventures MetaWare, Inc.	SmartCom III (30) HyperAccess/5 (31) Quicken (32) RM/Fortran (33) Managing Your Money Metaware High C and 386/DOS Extender Charisma (34)	1.2A 1.1 3.0 Rel 6 3.05.03 6.0 2.03 2.0 33.01	X X X X	
Software, Inc. Hayes Microcomputer Products, Inc. Hilgraeve, Inc. Intuit Language Processors, Inc. Meca Ventures MetaWare, Inc.	SmartCom III (30) HyperAccess/5 (31) Quicken (32) RM/Fortran (33) Managing Your Money Metaware High C and 386/DOS Extender Charisma (34) Micrografx Designer (1.2A 1.1 3.0 Rel 6 3.05.03 6.0 2.03 2.0 33.01	X X X X X	
Software, Inc. Hayes Microcomputer Products, Inc. Hilgraeve, Inc. Intuit Language Processors, Inc. Meca Ventures MetaWare, Inc.	SmartCom III (30) HyperAccess/5 (31) Quicken (32) RM/Fortran (33) Managing Your Money Metaware High C and 386/DOS Extender Charisma (34) Micrografx Designer (1.2A 1.1 3.0 Rel 6 3.05.03 6.0 2.03 2.0 33.01	X X X X X	
Software, Inc. Hayes Microcomputer Products, Inc. Hilgraeve, Inc. Intuit Language Processors, Inc. Meca Ventures MetaWare, Inc. Micrografx, Inc.	SmartCom III (30) HyperAccess/5 (31) Quicken (32) RM/Fortran (33) Managing Your Money Metaware High C and 386/DOS Extender Charisma (34) Micrografx Designer (Micrografx Draw Plus	1.2A 1.1 3.0 Rel 6 3.05.03 6.0 2.03 2.0 33.01 (1.0	X X X X X X X	
Software, Inc. Hayes Microcomputer Products, Inc. Hilgraeve, Inc. Intuit Language Processors, Inc. Meca Ventures MetaWare, Inc. Micrografx, Inc.	SmartCom III (30) HyperAccess/5 (31) Quicken (32) RM/Fortran (33) Managing Your Money Metaware High C and 386/DOS Extender Charisma (34) Micrografx Designer (Micrografx Draw Plus R BASE (35) for DOS	1.2A 1.1 3.0 Rel 6 3.05.03 6.0 2.03 2.0 33.01 (1.0	X X X X X X X	X
Software, Inc. Hayes Microcomputer Products, Inc. Hilgraeve, Inc. Intuit Language Processors, Inc. Meca Ventures MetaWare, Inc. Micrografx, Inc. Microrim	SmartCom III (30) HyperAccess/5 (31) Quicken (32) RM/Fortran (33) Managing Your Money Metaware High C and 386/DOS Extender Charisma (34) Micrografx Designer (Micrografx Draw Plus R BASE (35) for DOS	1.2A 1.1 3.0 Rel 6 3.05.03 6.0 2.03 2.0 33.01 (1.0	X X X X X X X	X

	Microsoft C	6.0	Χ	Χ
Oracle				
Corporation Prodigy Services	ORACLE (36) for OS/2	5.1B		Χ
Company, Inc.	Prodigy (37)	8.19.16	Χ	
Rightsoft Corporation SNAP	Rightwriter (38)	3.1	X	
Software, Inc. Software	SNAP! (39)	4.01	X	
Publishing				
Corporation	Harvard Graphics (40)	2.3	Χ	
	PFS First Choice (40)	3.0	Χ	
	PFS First Graphics	1.0	Χ	
	PFS First Publisher (43.0	Χ	
	Professional File (40)2.01	Χ	
	Professional Write (4	02.2	Χ	
Statistical				
Graphics				
Corporation	Statgraphics (41)	4.2	TEST ENVIRO	X NMENT OS/2
SOFTWARE			3.3	1.3
PUBLISHER	DESCRIPTION	VERSION	OR 4.0	_,_
Symantec				
Corporation	Q&A (12)	3.0	Χ	
·	Q&A for OS/2	3.0		Χ
Traveling				
Software, Inc.	Lap-Link (42)	3.0A	Χ	
Wolfram				
Research, Inc.	Mathematica (43)	1.2.2	Χ	
WordPerfect				
Corporation	WordPerfect	5.1	Χ	
	WordPerfect			
	for OS/2	5.0		Χ
MicroPro (44)				
International,				
Corporation				
	WordStar (44)	6.0	X	
Xerox Corporation	WordStar (44) Ventura (45) Publishe		X	

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- (29) Registered trademark of Fox Software, Inc.
- (30) Registered trademark of Hayes Microcomputer Products, Inc.
- (31) Registered trademark of Hilgraeve, Inc.
- (32) Registered trademark of Intuit.
- (33) Registered trademark of Language Processors, Inc.
- (34) Registered trademark of Micrografx, Inc.
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- (36) Registered trademark of Oracle Corporation.
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