



*Personal Systems Reference
IBM WorkPad
1997 to 2002 - withdrawn*

April 2002 - Version 237



IBM® WorkPad®	8602-10U	8602-20X	8602-30X
Model	8602-10U	8602-20X	8602-30X
Color	Black	Black	Black
Storage capacity	1MB⁴ (approximately 4000 addresses, 2400 appointments, 750 to do items, 750 memos, 100 e-mails ⁶)	2MB / PSRAM (approximately 6000 addresses, 3000 appointments, 1500 to do items, 1500 memos, and 200 e-mails ⁶)	4MB / DRAM (approximately 12,000 addresses, 6000 appointments, 3000 to do items, 3000 memos, and 400 e-mails ¹⁶)
Flash ROM for OS	Available as an option (OS and applications in ROM)	OS and built-in applications upgradable in 2MB Flash EEPROM	OS and built-in applications upgradable in 2MB Flash EEPROM
Palm OS™ version	Palm OS 2.0	Palm OS 3.0	Palm OS 3.1
Weight ³	6 oz / .17kg (with batteries)	Same	Same
Size	4.7" x 3.2" x 0.7" 119.7mm x 81.97mm x 17.8mm	Same	Same
Keyboard	On-screen keyboard	Same	Same
Input device	Stylus	Stylus (heavier; reset pin in cap)	Stylus (heavier; reset pin in cap)
Avail / withdrawn date	September 1997 / December 1998	April 1998 / June 1999	February 1999 / March 2002
Screen	Monochrome / backlight on demand / 160x160 pixels	Same / protective cover	Same / protective cover / improved LCD
Screen size	2 3/8" x 2 3/8"	Same	Same
Battery	Two AAA alkaline batteries (standard)	Same	Same
Battery life ⁷	8 to 12 weeks	Same	Same
Serial transfer	Yes / using HotSync® technology and synchronizing cradle	Same	Same
Infrared	Available as an option	Yes / up to 57.6Kbps / 5cm to 1meter	Yes / up to 57.6Kbps / 5cm to 1meter
Modem	Option	Option	Option
Security	User password option	User password option	User password option
Similar product	3Com® PalmPilot™ Professional	3Com Palm III™	3Com Palm IIIx™
Compatible with these mail systems	Lotus® cc:Mail v. 7.0, 6.0 and 2.5, MS Outlook '97, MS Outlook Express, MS Exchange 4.0 or higher, Windows Messaging 4.0, Eudora Pro and Light 3.0.1 or higher, Lotus Notes 4.5 ²	Same	Same
Limited warranty ⁵ Support	One year, courier repair service Toll-free 24x7 ¹ hardware support during warranty period	Same	Same

OPTIONS

For accessories especially designed for your IBM WorkPad PC Companion, call 1-800-518-2887 in the U.S. and 1-800-891-6342 in Canada.

- IBM WorkPad Modem 10301W or 00N8135
- 2MB and Infrared Upgrade for 10U 10300W
- Stylus Pens for 10U 10108W
- Stylus Pens for 20X or 30X 10137W
- Cradle for 10U 10109W
- Cradle for 20X or 30X 10138W or 00N8137
- Leather case 00N8138

¹ Response time varies. May exclude some holidays.
² Requires EasySync for Lotus Notes or Organizer; may be sold separately.
³ Includes batteries; actual weight may vary due to vendor components and manufacturing process.
⁴ MB means million bytes, accessible capacity may be less.
⁵ For terms and conditions or a copy of IBM's Statement of Limited Warranty, call 1 800 772-2227 in the U.S. and in Canada, call 1 800 426-2255.
⁶ Memos or e-mails of approximately 128 characters in length.
⁷ Battery life will vary based on many factors including screen brightness, applications, features, battery conditioning, power management and other customer preferences

IBM reserves the right to change specifications or other product information without notice. This publication could include technical inaccuracies or typographical errors. References herein to IBM products and services do not imply IBM intends to make them available in all countries. IBM provides this publication "AS IS" without warranty of any kind, either expressed or implied, including the implied warranties of merchantability or fitness for a particular purpose. Some jurisdictions do not allow disclaimer of express or implied warranties, therefore this disclaimer may not apply to you.

IBM and WorkPad are registered trademarks of IBM Corporation. 3Com, Graffiti, Palm Computing and HotSync are registered trademarks of Palm Computing, Inc., 3Com Corporation or its subsidiaries. Lotus, Lotus Notes, Lotus Organizer and EasySync are registered trademarks of Lotus Development Corporation. Other company, product and service names may be trademarks or service marks of others.



© Copyright International Business Machines Corporation, 2002.
All rights reserved

IBM Personal System Group
Department GFWA
3039 Cornwallis Road
Research Triangle Park, NC 27709

March 2002
W1
wwbook.pdf

IBM WorkPad® c3 - withdrawn

IBM® WorkPad®	c3	c3
Model	8602-40U	8602-50U
Color	Black	Black
Processor	Motorola® EZ DragonBall / 68xxx architecture / 16MHZ	Motorola® EZ DragonBall / 68xxx architecture / 20MHZ
Storage capacity	2MB⁴ / DRAM (approximately 6000 addresses, 3000 appointments, 1500 to do items, 1500 memos, and 200 e-mails ⁶)	8MB⁴ / DRAM (approximately 10000 addresses, 5 years of 0 appointments, 3000 to do items, 3000 memos, and 400 e-mails ⁶)
Flash ROM for OS	OS and built-in applications upgradeable in 2MB Flash EEPROM	OS and built-in applications upgradeable in 2MB Flash EEPROM
Palm OS™ version	Palm OS 3.1	Palm OS 3.5
Weight ³	4.2 oz / 119grams (with battery)	4.2 oz / 119grams (with battery)
Size (H x W x D)	4.5" x 3.1" x 0.45" 115.5mm x 79mm x 11.35mm	4.5" x 3.1" x 0.45" 115.5mm x 79mm x 11.35mm
Case material	Aluminum / black color anodized (not painted)	Aluminum / black color anodized (not painted)
Keyboard	On-screen keyboard	On-screen keyboard
Input device	Stylus / reset pin in cap	Stylus / reset pin in cap
Avail / withdrawn date	March 1999 / July 2001	April 2000 / July 2001
Screen	Monochrome / backlight on demand / 160x160 pixels	Monochrome / backlight on demand / 160x160 pixels
Screen size	2 3/8" x 2 3/8"	2 3/8" x 2 3/8"
Battery	Lithium-Ion / rechargeable only in cradle	Lithium-Ion / rechargeable only in cradle
Battery life ⁷	2 weeks	2 weeks
Serial transfer	Yes / using HotSync® technology and synchronizing cradle	Yes / using HotSync technology and synchronizing cradle
Infrared	Yes / up to 57.6Kbps / 5cm to 1meter	Yes / up to 57.6Kbps / 5cm to 1meter
Modem	Option	Option
Security	User password option	User password option
Similar product	3Com® Palm V™	3Com Palm Vx
Compatible with these mail systems	Lotus® cc:Mail v. 7.0, 6.0 and 2.5, MS Outlook, MS Outlook Express, MS Exchange 4.0 or higher, Windows Messaging 4.0, Eudora Pro and Light 3.0.1 or higher, Lotus Notes 4.5 ²	Lotus cc:Mail v. 7.0, 6.0 and 2.5, MS Outlook, MS Outlook Express, MS Exchange 4.0 or higher, Windows Messaging 4.0, Eudora Pro and Light 3.0.1 or higher, Lotus Notes 4.5 ² , MS Mail 3.5
Limited warranty ⁵ Support	One year, courier repair service Toll-free 24x7 ¹ hardware support during warranty period	One year, courier repair service Toll-free 24x7 ¹ hardware support during warranty period
<p align="center">FEATURES</p> <p>Enter or change information by:</p> <ul style="list-style-type: none"> • Transferring directly from or to your PC using HotSync technology • Using the built-in on-screen keyboard • Writing with Graffiti Power Writing software <p>The WorkPad connects to computers running Windows operating systems through the WorkPad cradle</p> <p>Attach an optional modem to access the Internet through web browsers, news readers, and other applications that require TCP/IP</p> <p>Optional Enterprise Solutions</p>		<p align="center">OPTIONS</p> <p>For accessories especially designed for your IBM WorkPad PC Companion, call 1-800-518-2887 in the U.S. and 1-800-891-6342 in Canada.</p> <ul style="list-style-type: none"> • IBM WorkPad c3 Modem 00N8130 or 10414W • Cradle 00N8132 or 10416W • Travel Kit 00N8133 or 10419W • Leather case 00N8134

¹ Response time varies. May exclude some holidays.

² Requires EasySync for Lotus Notes; may be sold separately.

³ Includes battery; actual weight may vary due to vendor components and manufacturing process.

⁴ MB means million bytes, accessible capacity may be less.

⁵ For terms and conditions or a copy of IBM's Statement of Limited Warranty, call 1 800 772-2227 in the U.S. and in Canada, call 1 800 465-7999.

⁶ Memos or e-mails of approximately 128 characters in length.

⁷ Battery life will vary based on many factors including screen brightness, applications, features, battery conditioning, power management and other customer preferences

IBM reserves the right to change specifications or other product information without notice. This publication could include technical inaccuracies or typographical errors. References herein to IBM products and services do not imply IBM intends to make them available in all countries. IBM provides this publication "AS IS" without warranty of any kind, either expressed or implied, including the implied warranties of merchantability or fitness for a particular purpose. Some jurisdictions do not allow disclaimer of express or implied warranties, therefore this disclaimer may not apply to you.

IBM and WorkPad are registered trademarks of IBM Corporation. 3Com, Graffiti, Palm Computing and HotSync are registered trademarks of Palm Computing, Inc., 3Com Corporation or its subsidiaries. Lotus, Lotus Notes, Lotus Organizer and EasySync are registered trademarks of Lotus Development Corporation. Other company, product and service names may be trademarks or service marks of others.

Made in Singapore, Malaysia, China and U.S.; assembled in U.S.



© Copyright International Business Machines Corporation, 2000.
All rights reserved

IBM Personal System Group
Department GFWA
3039 Cornwallis Road
Research Triangle Park, NC 27709

July 2001
WC3
wbook.pdf

IBM WorkPad® c500 and c505 - withdrawn

IBM® WorkPad®	c500	c505
Model	8602-60U	8602-70U
Avail / withdrawn date	May 2001 / March 2002	May 2001 / March 2002
Processor	Motorola® VZ DragonBall / 68xxx architecture / 33MHz	Motorola VZ DragonBall / 68xxx architecture / 33MHz
ROM	4MB ⁴ EEPROM / OS and built-in applications / flash upgradable	4MB ⁴ EEPROM / OS and built-in applications / flash upgradable
Storage capacity	8MB DRAM standard / additional capacity with optional Secure Digital (SD™) Card or MultiMediaCard™ expansion card	8MB DRAM standard / additional capacity with optional Secure Digital (SD) Card or MultiMediaCard expansion card
Operating system	Palm OS™ 4.0	Palm OS™ 4.0
Size (H x W x D)	4.5" x 3.1" x 0.45" / 114.30mm x 78.74mm x 10.16mm	4.5" x 3.1" x 0.5" / 114.30mm x 78.74mm x 12.7mm
Weight ²	4.5 oz / 127grams (with battery)	4.9 oz / 153grams (with battery)
Case material	Plastic and anodized aluminum	Anodized aluminum
Color	Black	Black
Screen	Monochrome / touch sensitive	Color Super Twisted Nematic (STN) / 64K colors / touch sensitive
Screen size	2 3/8" x 2 3/8" / 160x160 pixels (.34mm dot pitch)	2 3/8" x 2 3/8" / 160x160 pixels (.34mm dot pitch)
Screen backlight	On demand by pressing and holding power button	On demand by pressing and holding power button
Alert mechanisms	Vibration, audio, or lighted power button alarms	Vibration, audio, or lighted power button alarms
Data input method	On-screen keyboard, graffiti writing recognition, HotSync®	On-screen keyboard, graffiti writing recognition, HotSync
Input device	Stylus / reset pin in cap	Stylus / reset pin in cap
Data synchronization	HotSync via USB cradle (Windows 95 and Windows NT requires optional serial cable from Palm), infrared ¹ or via LAN attach ⁹ with optional modem	HotSync via USB cradle (Windows 95 and Windows NT requires optional serial cable from Palm), infrared ¹ or via LAN attach ⁹ with optional modem
Universal connector	For attachment of expansion options (does not support previous WorkPad or Palm expansion options)	For attachment of expansion options (does not support previous WorkPad or Palm expansion options)
Expansion options	Modem, external keyboard	Modem, external keyboard
Expansion slot	Supports Secure Digital or MultiMediaCard memory expansion or software application cartridges	Supports Secure Digital or MultiMediaCard memory expansion or software application cartridges
Infrared	Up to 115.2Kbps / 10cm to 1meter	Up to 115.2Kbps / 10cm to 1meter
Battery	Lithium-Polymer / rechargeable in cradle	Lithium-Polymer / rechargeable in cradle
Battery life ³	21 days or 10.5 total hours of operation	18 days or 9.0 total hours of operation
AC adapter	Standard universal 100 - 240Vac AC adapter and charger	Standard universal 100 - 240Vac AC adapter and charger
Security	User password , private record masking	User password , private record masking
Similar product	Palm® m500™	Palm® m505™
Compatible Email systems	Lotus cc:Mail (6.0 or higher), Lotus Notes mail, Microsoft Exchange (version 5.0 or higher), Microsoft Outlook 97 (or higher) and Outlook Express, Microsoft Windows messaging, QUALCOMM Eudora (version 3.0.1 or higher), Netscape Communicator (version 4.5 or higher)	Lotus cc:Mail (6.0 or higher), Lotus Notes mail, Microsoft Exchange (version 5.0 or higher), Microsoft Outlook 97 (or higher) and Outlook Express, Microsoft Windows messaging, QUALCOMM Eudora (version 3.0.1 or higher), Netscape Communicator (version 4.5 or higher)
Limited warranty ⁵	One year	One year
Support	Toll-free 24x7 ⁶ phone support on hardware during warranty period	Toll-free 24x7 ⁶ phone support on hardware during warranty period
Components shipped with WorkPad include: <ul style="list-style-type: none"> • USB HotSync cradle with charger • CD-ROM with desktop software⁵ and manual • Stylus • Flip cover • User Guides 		OPTIONS For accessories especially designed for your IBM WorkPad PC Companion, call 1-800-518-2887 in the U.S. 1-800-891-6342 in Canada. <ul style="list-style-type: none"> • USB HotSync Cradle 22P5278 • Secure Digital Backup Card 22P5291 • Slim Leather case 22P5278 For a list of WorkPad Proven® 3rd party ⁹ accessories available visit ibm.com/pc/thinkpad/proven

¹ Requires infrared-equipped PC or notebook.
² Includes battery; actual weight may vary.
³ Battery life is measured by Palm, Inc., and is based on average usage of 30 minutes per day. Battery life will vary based on many factors including applications, features, power management, battery conditioning and other customer preferences.
⁴ MB means million bytes; accessible capacity may be less.
⁵ For terms and conditions or a copy of the IBM Statement of Limited Warranty, call 1 800 772-2227 in the U.S.; or in Canada, call 1 800 426-2255.
⁶ Response times may vary. May exclude some holidays.
⁷ Some software may differ from its retail version (if any) and may not include user manuals or all program functionality. Warranty, service and support for non-IBM products are provided directly to you by third parties, not IBM. IBM makes no representations or warranties regarding non-IBM products. For non-IBM software, applicable third-party software licenses may apply.
⁸ Using IBM Mobile Connect software, WorkPad PC companions can access information via network connection to PCs or remote access servers. A 60-day trial version Mobile Connect comes with your WorkPad PC companion. To continue accessing information via network connection after the initial 60-day period, WorkPad PC companion owners must buy an extended license for IBM Mobile Connect. Visit ibm.com/pvc/products/mobile_connect for more information, or to purchase IBM Mobile Connect.
⁹ IBM makes no warranties, either express or implied, regarding WorkPad Proven products and services and any implied warranties of merchantability or fitness for a particular purpose.

IBM reserves the right to change specifications or other product information without notice. This publication could include technical inaccuracies or typographical errors. References herein to IBM products and services do not imply IBM intends to make them available in all countries. IBM provides this publication "AS IS" without warranty of any kind, either expressed or implied, including the implied warranties of merchantability or fitness for a particular purpose. Some jurisdictions do not allow disclaimer of express or implied warranties, therefore this disclaimer may not apply to you.

IBM and WorkPad are registered trademarks of IBM Corporation. 3Com, Graffiti, Palm Computing and HotSync are registered trademarks of Palm Computing, Inc., 3Com Corporation or its subsidiaries. Lotus, Lotus Notes, Lotus Organizer and EasySync are registered trademarks of Lotus Development Corporation. Other company, product and service names may be trademarks or service marks of others.



© Copyright International Business Machines Corporation, 2001. All rights reserved

IBM Personal Computing Division
 Department GFWA
 3039 Cornwallis Road
 Research Triangle Park, NC 27709

March 2002
 WC500
www.ibm.com/pc/thinkpad/proven

IBM WorkPad® z50 - withdrawn

IBM® WorkPad® z50

Type - model	2608-1AU	
Avail / withdrawn date	April 1999 / February 2000	
Processor type	NEC® VR4121™ 64-bit MIPS® RISC Microprocessor / 131MHz¹⁴ / 33MHz system bus / BGA 224-pin	
Processor features	Integrated peripherals include a memory controller, power mgmt unit, DMA controller, interrupt controller, timers, RTC, 16550-compatible serial controller, IRDA® 1.1 controller, keyboard controller, mono mic input, and A/D and D/A converter	
L1 cache	8KB data / 16KB instruction / integrated in processor	
Processor pwr mgmt	Full speed, standby, hibernate	
Memory - std / max	16MB / 48MB / data (storage) and some appls always active in memory / storage memory limited to max of 16MB	
Memory - features	EDO DRAM / 60ns / 32-bit / 3.3v / non-parity / 16MB soldered on planar / one slot available for optional memory module	
ROM - std / max	20MB / 32MB / OS and base applications stored in ROM (Read Only Memory)	
ROM - features	Page Mode MASK ROM / 32-bit / can not be modified but can be upgraded with new ROM installation	
Display - size and type	8.2 inch color / DSTN / brightness (8 levels) and contrast controls (32 levels) on right of screen	
Display - technology	VGA / 640x480 / 350ms / 87 nits (full brightness) / 65,536 simultaneous colors / 50 to 1 contrast	
Keyboard	77-key / 95% ⁴ full-stroke alphanumeric (18mm pitch) on 87% foot print / 12 app. launch keys / num keypad / Windows key	
Pointing	TrackPoint® / Press-to-Select / Release-to-Select	
Ports	No par / VGA DB-15 / serial, 10-pin unique connector, controller in CPU, 16550-compatible / Infrared, IrDA 1.1, 4Mbps	
Serial cable	Standard serial cable / 9-pin connector to PC to communicate with a PC	
Data/fax modem	33.6K¹⁵ / V.34 / 14K fax / integrated in system / Rockwell® RP336Lx MDP / integrated DAA / RJ11 connector (left side)	
Audio	10-bit audio controller in CPU	
Audio features	Software volume control / mono speaker (0.5 watt) / microphone / external record button to record with the lid closed	
Audio in/out jacks	Microphone jack (mono) / headphone jack (mono) / both on left side	
Battery - type / life ³	Li-Ion / non-intelligent / 8.0 hrs / rear bottom (16 hrs with opt onal High-capacity battery)	
Battery options	High-capacity battery option / replaces standard battery / part hangs out rear / (includes case to hold 8 AA batteries)	
Charge time	2 to 3 hours	
Backup battery	Two AAA alkaline batteries in base	
Architecture	ISA bus subset / NEC VrC4171A PCMCIA and CompactFlash controller	
Graphics - controller	ITE® ITE8181™ / 4MB / EDO DRAM 50ns / on NEC VR4121 unique bus	
Graph - arch/data path	32-bit / external SVGA to 800x600 with 65,536 colors at 75Hz	
Disk / diskette / optical	None supported	
Storage expansion	Optional storage expansion via PCMCIA	
PCMCIA™ slot	1 Type I or 1 Type II or 1 Type III / PCMCIA 2.1 compatible / left side	
CompactFlash slot	1 CF+ Type II / Version 1.1 / right side / supports IBM microdrive	
Port replicator	<i>Option:</i> Ultraport Port Replicator (also called Docking Kit)	
AC adapter	Universal, 45 watts, barrel, slim	
Security	Security keyhole / suspend/resume password	
Dimensions ² / Weight ¹	10.2 x 8.0 x 1.0" / 260.0mm x 220.0mm x 26.5mm / 2.6 lbs (1.20 kg)	
Limited warranty ⁸	1 year - ThinkPad EasyServ (door-to-door depot repair service) or carry-in	
		<p style="text-align: center;">OPTIONS</p> <ul style="list-style-type: none"> - 32MB EDO Memory upgrade 20L0243 - IBM 340MB⁹ microdrive 00N8073 - Ultraport Port Replicator 05K5980 - High-capacity Lithium-Ion battery 02K6567 - Parallel/serial printer cable 33L4954 <p style="text-align: center;">SOFTWARE IN ROM¹⁰</p> <ul style="list-style-type: none"> - Microsoft® Windows® CE 3.0, Handheld PC Professional Edition • Microsoft Pocket Office • Internet Explorer, Outlook, Word, Excel, PowerPoint, Access • Microsoft ActiveSync • Microsoft Voice Recorder • Microsoft Expedia Pocket Streets 98 • bPrint print spooler • bFax fax software • bUseful backup software • IBM Rapid Access • Terminal, InkWriter, calculator, world clock, solitaire <p>◇ Product Recovery CD-ROM ◇ Applications CD-ROM ◇ Windows CE Services CD-ROM</p>

¹ Includes battery; weight may vary due to vendor components, manufacturing process and options.

² Thickness may vary at certain points on the system.

³ Results based on Windows CE battery benchmark test by Microsoft Corporation. Battery life will vary based on many factors including screen brightness, applications, flashes, battery conditioning, power management and other customer preferences.

⁴ 18mm (95%) main alphabetic typing keys.

⁵ MB means million bytes when referring to hard disk drive capacity. Accessible capacity varies.

⁶ Please check www.pc.ibm.com/us/workpad for further information.

⁷ Response time varies. May exclude some holidays. On-site service provided after IBM attempts to resolve the problem remotely.

⁸ For terms and conditions or a copy of IBM's Statement of Limited Warranty, call 1 800 772-2227 in the U.S. and in Canada, call 1 800 426-2255.

⁹ An IBM Mobile Connect server installation is required to complete the solution. For more information, please contact your IBM representative, or visit www.pc.ibm.com/us/workpad.

¹⁰ Some software may differ from its retail version (if any) and may not include user manuals or all program functionality. Warranty, service and support for non-IBM products are provided directly to you by third parties, not IBM. IBM makes no representations or warranties regarding non-IBM products. For non-IBM software, applicable third-party software licenses may apply.

¹¹ IBM makes no warranties, either expressed or implied, regarding ThinkPad Proven products and

services, including Year 2000 readiness and any implied warranties of merchantability and fitness for a particular purpose.

¹² Available in those countries where IBM and IBM resellers sell and service ThinkPad products. Registration required. Service level is based on the standard service for ThinkPad notebooks in that particular country.

¹³ The customer may be asked certain diagnostic questions before a courier is sent. Available in the United States for no additional charge during the warranty period. Your ThinkPad purchase includes this depot repair service during the warranty period; it is available after the warranty period for an additional charge.

¹⁴ MHz only measures processor internal clock speed, not application performance. Other factors also affect application performance.

¹⁵ 33.6 modem enables transfer speeds over phone networks of up to 33.6Kbps. Actual speeds depends on many factors and are often less than the maximum possible.

As an ENERGY STAR Partner, IBM has determined that this product meets the ENERGY STAR guidelines for energy efficiency. ENERGY STAR is a U.S. registered mark.

IBM reserves the right to change specifications or other product information without notice. This publication could include technical inaccuracies or typographical errors. References herein to IBM products and services do not imply that IBM intends to make them available in other countries. IBM provides this publication "AS IS," without warranty of any kind, either expressed or implied, including the implied warranties of merchantability or fitness for a particular purpose.

Some jurisdictions do not allow disclaimer of express or implied warranties, therefore this disclaimer may not apply to you. IBM, the IBM e-business logo, EasyServ, SystemXtra, ThinkPad, ThinkPad Proven, TrackPoint, Universal Management Agent and WorkPad are trademarks or registered trademarks of IBM Corporation. Microsoft, Windows and the Microsoft logos are trademarks or registered trademarks of Microsoft Corporation. Lotus Notes is a registered trademark of Lotus Development Corporation. Other company, product and service names may be trademarks or service marks of others.

Made in Taiwan.



© Copyright International Business Machines Corporation, 2001.
All rights reserved

IBM Personal Computing Division
Department GFWA
3039 Cornwallis Road
Research Triangle Park, NC 27709

June 2001
WZ50
wbook.pdf