

CS

Multiuser BASIC-2 Operating System Release 3.3

Customer Software Release Notice

			•

CS

Multiuser BASIC-2 Operating System Release 3.3

Customer Software Release Notice

2nd Edition — February 1989 Copyright [©] Wang Laboratories, Inc., 1988, 1989 715-1831A



Disclaimer of Warranties and Limitation of Liabilities

The staff of Wang Laboratories, Inc., has taken due care in preparing this manual. However, nothing contained herein modifies or alters in any way the standard terms and conditions of the Wang purchase, lease, or license agreement by which the product was acquired, nor increases in any way Wang's liability to the customer. In no event shall Wang or its subsidiaries be liable for incidental or consequential damages in connection with or arising from the use of the product, the accompanying manual, or any related materials.

Software Notice

All Wang Program Products (software) are licensed to customers in accordance with the terms and conditions of the Wang Standard Software License. No title or ownership of Wang software is transferred, and any use of the software beyond the terms of the aforesaid license, without the written authorization of Wang, is prohibited.

Warning

This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions manual, may cause interference to radio communications. It has been tested and found to comply with the limits for a Class A computing device, pursuant to Subpart J of Part 15 of FCC rules, which are designed to provide reasonable protection against such interference when operated in a commercial environment. Operation of this equipment in a residential area is likely to cause interference, in which case the user, at his own expense, will be required to take whatever measures may be required to correct the interference.

CONTENTS

PREFACE		
CHAPTER 1	INTRODUCTION TO RELEASE 3.3	
	Overview Summary of Features Requirements	1-1
CHAPTER 2	ENHANCEMENTS	
	Overview Enhancements of Release 3.3 Operating System	2-1 2-1
CHAPTER 3	CORRECTED PROBLEMS	
	Overview Problems Corrected in Release 3.3 Operating System	3 – 1 3 – 1
CHAPTER 4	SPECIAL CONSIDERATIONS	
	Overview	
CHAPTER 5	MEDIA CONTENTS	
	Overview	

FIGURES

Figure 2-1	New System	Utilities M	nu 2-
------------	------------	-------------	-------

PREFACE

This customer software release notice describes the changes and new features of Release 3.3 of the Wang Multiuser BASIC-2 Operating System.

Intended for all users, this release notice is organized as follows:

- Chapter 1 provides a summary of features and the necessary requirements.
- Chapter 2 explains the new enhancements.
- Chapter 3 details the corrected problems.
- Chapter 4 explains the special considerations.
- Chapter 5 discusses the media contents.

For more information on the Make a Reference List of File Names utility, refer to the updated BASIC-2 Utilities Reference Manual (700-6855A.02). For more information on the MXE, refer to the CS/Asynchronous User Guide for Model 2236 MXE Terminal Processor (700-8098A).

	·		
		·	-

CHAPTER 1 INTRODUCTION TO RELEASE 3.3

OVERVIEW

This chapter provides an introduction to Release 3.3 of the Multiuser BASIC-2 Operating System. It includes a summary of features and the necessary requirements.

SUMMARY OF FEATURES

The Wang Multiuser BASIC-2 Operating System is designed for interactive programming and ease of use. Release 3.3 of the Multiuser BASIC-2 Operating System is a general release. It supplies added features and corrects previously reported problems.

Release 3.3 provides the following features:

- A new utility called Make a Reference List of File Names to improve file backups
- Support of the PM060 printer
- Enhancements to the MXE

You can install Release 3.3 yourself. Follow the instructions for installing the operating system described in the introductory or user manual supplied with your CS/2200 system.

REQUIREMENTS

In order to use Release 3.3, the following hardware is required:

- A Wang CS, CS-D, or 2200 MVP, LVP, SVP, or MicroVP with 28 kilobytes (KB) of control memory
- A 2200 terminal
- A diskette drive

CHAPTER 2 ENHANCEMENTS

OVERVIEW

This chapter discusses the added features provided in Release 3.3. For more details, refer to the updated BASIC-2 Utilities Reference Manual.

ENHANCEMENTS OF RELEASE 3.3

Release 3.3 provides enhancements to the operating system and the MXE.

Operating System

Release 3.3 provides the following enhancements to the operating system:

Error Messages -- You can now output error and system messages as uppercase characters only. Release 3.3 modifies the operating system and the REM statement at line 903 of the @GENPART utility. This REM statement describes the procedure. You specify an additional argument to the \$INIT statement to make system messages uppercase (i.e., error messages, LIST DT, etc.).

This new feature prevents a mix of US and foreign characters from appearing on the screen of certain terminals. For example, katakana (Japanese characters) terminals print uppercase as English and lower case as katakana.

PM060 Printer -- The CS/2200 series now supports the PM060 printer. This dot matrix printer provides both text and graphics printing capabilities.

Make a Reference List of File Names Utility -- The Make a Reference List of File Names utility is now available from the Multiuser BASIC-2 System Utilities menu (see Figure 2-1). With this new utility, you can create or modify a list of file names. You can either save this list temporarily or permanently in a data or program file. Later on, you can edit the list and use it as input to two other file move utilities:

- Copy or modify files on a disk from a disk or disk image
- Copy files to a disk image file

A disk image file is a single disk file that you create from one or more files (from a single surface). This data file consists of index space followed by a copy of the sectors from the original disk files.

If you want to back up file by file to a tape streamer, you should first back up files into disk images and then back up the disk image to tape. After copying the last file into the disk image, the system updates the index space of the disk image file with file name and sector information. You can then recover individual files from a specific disk image file on disk.

Because you can write several disk image files to a single disk surface and then write to a tape streamer from that single surface, this procedure reduces the time required to back up several files from different surfaces to tape. If you keep the disk image file on the disk, you will not need the tape to restore the files.

System Utilities- (@) Copr. Wang Laboratories, Inc. 1988

Select an item and press RUN/EXEC:

Partition 1, 61K Terminal d

- Partition Generator _ Partition Status _ Format Disk Platter Move File Backup Platter
- _ Recover from Backup System Install
- Make a Reference List of File Names _ Initialize Data & Time
- Vertical Format Control

Game

Figure 2-1. New System Utilities Menu

MXE

Release 3.3 provides the following enhancements to the MXE:

Improved Performance -- The performance of the MXE is now similar to
the MXD. However, the MXE still includes a real-time clock and
telecommunications (TC) capabilities not found on the MXD.

19.2 KB Asynchronous Communication -- Release 3.3 now provides the capability of using a port of your MXE as a telecommunications (TC) port for 19.2 KB asynchronous telecommunication. To select a 19.2 KB TC baud rate for an MXE port, choose the value E, previously undefined, for the setting of the Communications Control Vector Byte 1, low-order hexdigit. Refer to the CS/Asynchronous User Guide for Model 2236 MXE Terminal Processor for more information on the MXE.

	•		

CHAPTER 3 CORRECTED PROBLEMS

OVERVIEW

This chapter discusses the problems corrected in Release 3.3. It explains the old problem and how the new release corrects it.

PROBLEMS CORRECTED IN RELEASE 3.3

In addition to new features, Release 3.3 corrects reported problems to the operating system and the MXE.

Operating System

The following problems have been corrected to the operating system in Release 3.3:

A01 (Memory Overflow) Error -- When you loaded a program that was too large for a partition (using the automatic bootstrap feature of @GENPART), the system generated a looping A01 (memory overflow) error. You could not reset the partition without rebooting the system. Release 3.3 enables you to reset the partition.

COPY -- The system did not verify if the disk you were specifying was fixed to removable or removable to fixed. It assumed fixed to removable. Release 3.3 issues the Error S:19 Missing Word message.

German Keyboard -- Release 3.3 issues an error message when you enter FC (underlined umlaut e) and press RETURN during program entry.

IF THEN/ELSE IF THEN DO -- In a IF THEN/ELSE IF THEN DO construction, the system executed the DO statement when it skipped over the ELSE statement. In Release 3.3, the system will not execute the DO statement when it skips over the ELSE statement. It will execute the next statement after the END DO.

LIST COM/DIM -- When you executed SELECT #n (n is the largest file number you selected for the program) followed by LIST COM/DIM in the same partition, the system hung. In Release 3.3, the system will execute both commands correctly.

MOVE -- The system did not verify if the disk you were specifying was fixed to removable or removable to fixed. The command tried to execute a MOVE to itself and produced a scratch platter. Release 3.3 issues the Error S:19 Missing Word message.

STOP# -- The system did not always check for the immediate mode STOP# command at the start of a statement line. Release 3.3 checks for the STOP# command and stops program execution.

\$GIO -- When printing from one partition to a terminal printer (with an \$OPEN statement), you could execute a \$GIO statement to the printer from another partition attached to the same terminal. The system ignored the \$OPEN and produced output from the two partitions. In Release 3.3, the terminal printer remains attached to the partition issuing the \$OPEN statement.

MXE

The following problems have been corrected in the MXE:

Hesitation -- When you typed in characters, the system hesitated (up to one second) displaying these characters on the screen and then issued them in one burst. Release 3.3 corrects the system hesitation.

KEYIN -- After the completion of an INPUT SCREEN, the system intermittently lost rapidly typed characters following KEYIN. With Release 3.3, the system does not lose the characters following KEYIN.

System Clock -- The system clock lost time when using a local printer attached to port 4 of your first MXE. With Release 3.3, the system clock will not lose time.

CHAPTER 4 SPECIAL CONSIDERATIONS

OVERVIEW

This chapter discusses the various special considerations associated with Release 3.3. It explains the condition and a possible solution.

CONDITIONS

The following conditions are present with Release 3.3:

IF THEN IF THEN DO -- If you use a IF THEN IF THEN DO construction, the system will not see the DO statement and therefore will not execute it. For example, you created the following statement:

10 PRINT "10",: IF 1=2 THEN IF 2=2 THEN DO: PRINT "FIRST", :END DO :PRINT "SECOND"

The system produces the following output

10 FIRST SECOND

To correct the problem, use an AND statement, such as:

40 PRINT "40",: IF 1=2 AND 2=2 THEN DO: PRINT "FIRST", :END DO :PRINT "SECOND"

The system produces the following output

40 SECOND

Printer Driver -- If you print using a printer driver in a partition greater than ten and release your terminal to partition one to print, the printer will receive incorrect command codes. To reset the printer, you must power it on and off.

)
	•	-		
				· •
_				

CHAPTER 5 MEDIA CONTENTS

OVERVIEW

This chapter discusses the media contents of Release 3.3. It details how the release is supplied and what files have been added or changed to the system platter.

MEDIA CONTENTS OF RELEASE 3.3

The system platters provided with Release 3.3 include the operating system and the BASIC-2 language processor, the system diagnostics, and the system utilities. This new release updates some of the existing files and adds new ones.

Release 3.3 is supplied as follows:

Part Number	Number of Diskettes	Comments
284-0069-3	2	8-inch Single-Sided Single-Density 2270A diskettes
284-0069-5	1	8-inch Double-Sided Double-Density 2200 LVP/SVP diskette
284-0069-9	2	5 1/4-inch Double-Sided Double-Density 2275/DS diskettes

The following files are included with Release 3.3:

FileName	Туре	Function
@BACKUP ^a	Program	Backup utility
@BOOT	Program	Menu for bootstrap
@CLOC	Program	Initialize date and time
@DAVFU	Program	Vertical Format Control utility
@FORMAT	Program	Format disk platter
@GENPART ^a	Program	Partition Generator
@INSTALL ^a	Program	System install
@MENU	Program	System menu program
@MODSYSF	Program	Convert system configuration file
@MOVE1 ^a	Program	Overlay for @MOVEFIL and @INSTALL
@MOVEFIL ^a	Program	Move file
@PSTAT	Program	Partition status
@RECOVER ^a	Program	Recover from backup
@SYSMVPB ^a	Program	Menu for System Utilities
@TO.CREO ^b	Program	Load of create a reference file
@TO.CREF ^b	Program	Create reference file
@TO.DISK ^b	Program	Copy to disk
@TO.SUBS ^b	Program	Overlay for @TO.DISK/IMAGE
@TOIMAGE ^b	Program	Copy to disk image
.STARTD	Data	System menu support
@@	Data	MVP system menu
@DATE	Data	Date file
@DM50/V0	Data	Printer driver
@LASRJV1ª	Data	Printer driver
@WAb _g	Data	MVP microcode
@MXE0 _g	Data	MXE microcode
@PM010V2	Data	Printer driver
@PM016V3	Data	Printer driver
@PM017V3	Data	Printer driver
@PM018V3	Data	Printer driver
@PM060V0 ^b	Data	Printer driver
@SYSFILE	Data	MVP configuration file
@DG	Program	Menu for system diagnostics
@MRTIAN	Program	Game
@A	Data	PROM format CPU diagnostic
@B	Data	PROM format Control memory test
@C	Data	PROM format Data memory test
@D	Data	PROM format CPU reg. diagnostic
@E	Data	PROM format Chain mode link file
@P	Data	PROM format User menu
@\	Data	PROM format Field service menu

a These files have been revised.

b These files have been added.

		₹.	\sim	N
W	A		G	

Customer Comment Form

Publication Number _____

715-1831A

Title _____ CS MULTIUSER BASIC-2 OPERATING SYSTEM RELEASE 3.3 CSRN

Help Us Help You . . .

We've worked hard to make this document useful, readable, and technically accurate. Did we succeed? Only you can tell us! Your comments and suggestions will help us improve our technical communications. Please take a few minutes to let us know how you feel.

How did you receive this publication?	How did you use this Publication?					
□ Support or □ Don't know Sales Rep □ Other	☐ Introduction to the subject ☐ Classroom text (student) ☐ Classroom text (teacher) ☐ Self-study text		 □ Aid to advanced knowledge □ Guide to operating instructions □ As a reference manual □ Other		erating	
Please rate the quality of this publication in each of the following Technical Accuracy — Does the system work the way the ma		EXCELLENT	GOOD	FAIR	POOR	VERY POOR
Readability — Is the manual easy to read and understand?	,					
Clarity — Are the instructions easy to follow?						
Examples — Were they helpful, realistic? Were there enough	of them?					
Organization — Was it logical? Was it easy to find what you n	needed to know?	· 🗆				
Illustrations — Were they clear and useful?						
Physical Attractiveness — What did you think of the printing	g, binding, etc?					
Were there any terms or concepts that were not defined proper	erly? 🗆 Y 🗆	N If so, what	were they	/?		
After reading this document do you feel that you will be able to	o operate the ec	uipment/softv		Yes ☐ Yes, with	No practice	
What errors or faults did you find in the manual? (Please included)	de page number	s)				
Do you have any other comments or suggestions?						
Name	Street					
Title	City					
Dept/Mail Stop	State/Coun	try				
Company	Zip Code	т	elephon	е		
Thank you for your help						



WANG

BUSINESS REPLY MAIL

FIRST CLASS PERMIT NO. 16

O. 16 LOWELL, MA

POSTAGE WILL BE PAID BY ADDRESSEE

Wang Laboratories, Inc.
Technical Publications Dept.
M/S 012-260
One Industrial Avenue
Lowell, Massachusetts 01851-9971

NO POSTAGE NECESSARY IF MAILED IN THE UNITED STATES





To Order by Phone, Call: 1-(800)225-0234

1-(800)225-0234 Telex 172108

Order Form for Wang Manuals and Documentation

① Customer Number (I	f Known)					
② Bill To:			Ship To	o:		

③ Customer Contact: () (Phone) Nar	ne	Date	Purch	ase Order Numb	oer
⑤ Taxable ⑥Tax Exe Yes □ No □	mpt Number	⑦ Credit This Order A Wang Salesper Please Complet	erson	sperson's Nam	e Employee	No. RDB No.
® Document Number		Description		Quantity	Unit Price	Total Price
						,
@					Sub Total	
Authorized Signature ☐ Check this box if you would like a free copy			Da	te	Less Any Applicable Discount	
		& Literature		4	Sub Total	
(711-0888A)		- = Horacuic	a taio	J	LocalState Tax	
					Total Amount	

Ordering Instructions

- If you have purchased supplies from Wang before, and know your Customer Number, please write it here.
- 2. Provide appropriate Billing Address and Shipping Address.
- Please provide a phone number and name, should it be necessary for WANG to contact you about your order.
- 4. Your purchase order number and date.
- Show whether order is taxable or not.
- 6. If tax exempt, please provide your exemption number.

Wang Terms and Conditions

- TAXES Prices are exclusive of all sales, use, and like taxes.
- 2. DELIVERY Delivery will be F.O.B. Wang's plant. Customer will be billed for freight charges; and unless customer specifies otherwise, all shipments will go best way surface as determined by Wang. Wang shall not assume any liability in connection with the shipment nor shall the carrier be construed to be an agent of Wang. If the customer requests that Wang arrange for insurance the customer will be billed for the insurance charges.

- 7. If you wish credit for this order to be given to a WANG salesperson, please complete.
- Show part numbers, description and quantity for each product ordered.
- Pricing extensions and totaling can be completed at your option; Wang will refigure these prices and add freight on your invoice.
- Signature of authorized buyer and date.
- PAYMENT Terms are net 30 days from date of invoice.
 Unless otherwise stated by customer, partial shipments will generate partial invoices.
- PRICES The prices shown are subject to change without notice. Individual document prices may be found in the WangDirect Software & Literature Catalog (711-0888A)
- LIMITATION OF LIABILITY In no event shall Wang be liable for loss of data or for special, incidental or consequential damages in connection with or arising out of the use of or information contained in any manuals or documentation furnished hereunder.

Cut along dotted line

Fold



III.....III.daladda.III.daladaladaddaladd

WANG

BUSINESS REPLY MAIL

FIRST CLASS PERMIT NO. 16 LOWELL, MA
POSTAGE WILL BE PAID BY ADDRESSEE

WangDirect
Wang Laboratories, Inc.
M/S 017-110
800 Chelmsford Street
Lowell, Massachusetts 01851-9972

NO POSTAGE NECESSARY IF MAILED IN THE UNITED STATES



Fold

			•



ONE INDUSTRIAL AVENUE, LOWELL, MA 01851 TEL. (508) 459-5000, TELEX 172108