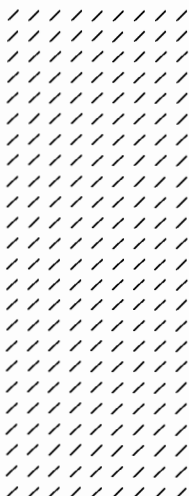


BASIC-2/Turbo Operating System Release 1.0

Customer Software Release Notice



1st Edition – September 1991
Copyright © Wang Laboratories, Inc., 1991
715-3997



Wang Laboratories, Inc.
One Industrial Avenue, Lowell, MA 01851
Tel. (508) 459-5000, Telex 172108

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 the liability of Wang 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 permission of Wang, is prohibited.

FCC and DOC Notices

The Federal Communications Commission (FCC) and the Canadian Department of Communications (DOC) require that information regarding the interference potential of electrical equipment be included in the user documentation for the equipment. They also require that specific information be provided for components that will be connected to the Public Switched Telephone Network (PSTN).

Electromagnetic Interference Requirements

Wang Laboratories, Inc., manufactures both Class A verified computers and peripherals and Class B certified computers and peripherals. To determine which of the following warnings apply to the equipment, the user should refer to the label affixed to the device.

An example of a Class A verified label is the following:

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

An example of a Class B certification label is the following:

FCC I.D. B4YPC250-16

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

FCC Warning

For Class A – This equipment^(1,2,4) has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference, in which case the user will be required to correct the interference at his or her own expense.

For Class B – This equipment^(1,2,3,4) has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/television technician for help.

DOC Warning

For Class A – This digital apparatus does not exceed the Class A limits for radio noise emissions from digital apparatus set out in the Radio Interference Regulations of the Canadian Department of Communications.

For Class B – This digital apparatus does not exceed the Class B limits for radio noise emissions from digital apparatus set out in the Radio Interference Regulations of the Canadian Department of Communications.

Connection to the PSTN

FCC Part 68 Requirements

If this equipment connects to the PSTN, it complies with Part 68 of the FCC Rules. A label is affixed to this equipment that contains, among other information, the FCC Registration Number (REN) and Ringer Equivalence Number (REN) for this equipment. Upon request, the user must provide this information to the telephone company.

The REN is useful to determine the number of devices that the user may connect to the telephone line and still have all those devices ring when the telephone number is called. In most but not all areas, the sum of the RENs of all devices connected to one line should not exceed five (5). To be certain of the number of devices that the user may connect to the line, as determined by the REN, the user should contact the local telephone company to determine the maximum REN for the calling area.

If the telephone equipment causes harm to the telephone network, the telephone company may discontinue service temporarily. If possible, the user will be notified in advance. However, if advance notice is not practical, the user will be notified as soon as possible. The user will be informed of the right to file a complaint with the FCC.

The telephone company may make changes in its facilities, equipment, operations, or procedures that could affect the proper functioning of the equipment. If such changes are made, the user will be notified in advance to give the user an opportunity to maintain uninterrupted telephone service.

If the user experiences trouble with this telephone equipment, the telephone company may ask that the user disconnect the equipment from the network until the problem has been corrected or until the user is sure that the equipment is not malfunctioning. For service or repairs, the user should contact the point of sales representative or Wang Laboratories, Inc.

This equipment may not be used in conjunction with coin service provided by the telephone company. Connection to party lines is subject to state tariffs.

DOC Notice for Canadian Users

Notice – If this equipment contains a Canadian Department of Communications label, it identifies DOC-certified equipment. This certification means that the equipment meets certain telecommunications network protective, operational, and safety requirements. The DOC does not guarantee that the equipment will operate to the user's satisfaction.

Before installing this equipment, the user should ensure that it is permissible for it to be connected to the facilities of the local telecommunications company. The equipment must also be installed using an acceptable method of connection. In some cases, the company's inside wiring associated with a single line individual service may be extended by means of a certified connector assembly (telephone extension cord). The user should be aware that compliance with the above conditions may not prevent degradation of service in some situations.

Repairs to certified equipment should be made by an authorized Canadian maintenance facility designated by the supplier. Any repairs or alterations made by the user to this equipment, or equipment malfunctions, may give the telecommunications company cause to request that the user disconnect the equipment.

Users should ensure for their own protection that the electrical ground connections of the power utility, telephone lines, and internal metallic water pipe system, if present, are connected together. This precaution may be particularly important in rural areas.

Caution: *Users should not attempt to make such connections themselves, but should contact the appropriate electrical inspection authority or electrician, as appropriate.*

Load Number – The Load Number (LN) assigned to each terminal device denotes the percentage of the total load that can be connected to a telephone loop. The termination on a loop may consist of any combination of devices, subject only to the requirement that the total of the Load Numbers of all devices does not exceed 100. An alphabetical suffix is also specified in the Load Number for the appropriate ringing type (A or B), if applicable. For example, LN=20A designates a Load Number of 20 and an "A" type ringer. The Load Number for this equipment can be found in the installation instructions pertaining to connection to the PSTN.

-
- (1) This equipment requires the use of shielded cables.
 - (2) If the user attaches a Class A verified device to equipment otherwise labeled as Class B, the combined system meets Class A regulations only. Class A specifications provide reasonable protection against radio and television interference in a commercial environment. Operation of Class A equipment in a residential environment may cause interference.
 - (3) This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.
 - (4) Any modifications to this equipment not expressly approved by Wang Laboratories, Inc., could void the user's authority to operate this equipment.

Contents

Preface

Chapter 1

Introduction

Summary of Features	1-1
System Requirements	1-2
Hardware	1-2
Software	1-2

Chapter 2

Enhancements

Enhancements to Release 1.0	2-1
Command Calls	2-1

Chapter 3

Media Contents

Media Contents of Release 1.0	3-1
-------------------------------------	-----

Preface

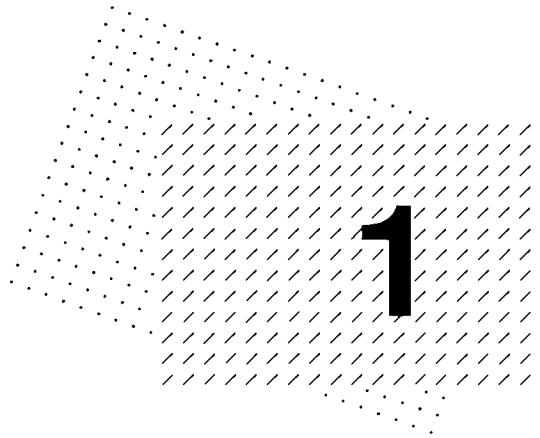
This document summarizes Release 1.0 of the Wang Multiuser BASIC-2/Turbo Operating System.

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

- Chapter 1 lists Release 1.0's features, and explains what hardware and software you need.
- Chapter 2 describes the enhancements to the Wang Multiuser BASIC-2/Turbo Operating System.
- Chapter 3 describes the media you can install.

The following documents provide additional information:

- *CS-D/N, CS/386, and CS/Turbo User's Guide (715-2364A)*
- *BASIC-2 Utilities Reference Manual (715-3949)*
- *Multiuser BASIC-2 Language Reference Manual (700-4080F)*



Introduction

Summary of Features

The Wang Multiuser BASIC-2/Turbo Operating System is designed for interactive programming and ease of use. Release 1.0 is a general release.

The following command calls have been added:

```
SELECT T ON  
SELECT T OFF  
SELECT H ON  
SELECT H OFF  
SELECT WIDTH  
DS UTILITY  
DOS UTILITY  
READ SCREEN  
WRITE SCREEN  
PRINT #VERSION  
PRINT #CPU
```

The following command calls or utilities have been changed or modified:

```
LIST SELECT  
GENPART  
PSTAT
```

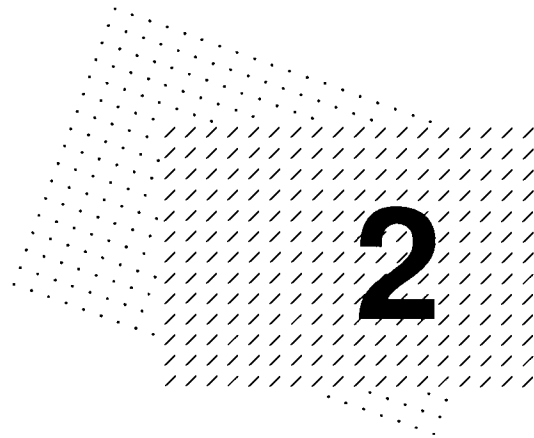
System Requirements

Hardware

- Wang CS/386-D/N, CS-D, or Micro VP with a CS/Turbo CPU board
- 2200 terminal
- 5 1/4-inch diskette drive
- MXF 16 Port Terminal Controller
- 22C11 HS Printer/Disk Controller

Software

You need the BASIC-2/Turbo Operating System Release 1.0. Follow the instructions in your user manual to install it.



Enhancements

Enhancements to Release 1.0

This section describes the latest enhancements to Release 1.0. (For more details, refer to the *Multiuser BASIC-2 Language Reference Manual*.)

Command Calls

SELECT T ON/OFF

SELECT T allows you to enter the DATE and TIME record on all programs SAVED or RESAVED for each partition.

SELECT T OFF disables the DATE and TIME record and is the default when you power on your system.

SELECT H ON/OFF

SELECT H ON initiates DISK platter hogging on a DS data storage unit with PROMs Revision 3.0 or greater. It allows you to hog only a platter, and not the complete storage unit, with a \$OPEN command for each partition. (The original \$OPEN and \$CLOSE commands function on only the controller level of the disk system.)

SELECT H OFF disables DISK platter hogging and is the default when you power on your system.

LIST SELECT

LIST SELECT displays the options currently SELECTED including SELECT T (date/time) and SELECT H (hogging).

SELECT WIDTH xx

The **SELECT WIDTH xx** command sets the size of a window width to **xx**. This command is applicable only with the new 2636 Terminal or the new 2200 Terminal Emulation.

SCREEN READ

The **SCREEN READ** command works only with a 2236MXF controller. This command enables the system to read in large blocks of data from a terminal port.

SCREEN WRITE

The **SCREEN WRITE** command works only with a 2236MXF controller. This command enables the system to write large blocks of data out to a terminal port. This is useful in imaging applications.

PRINT #VERSION / #CPU

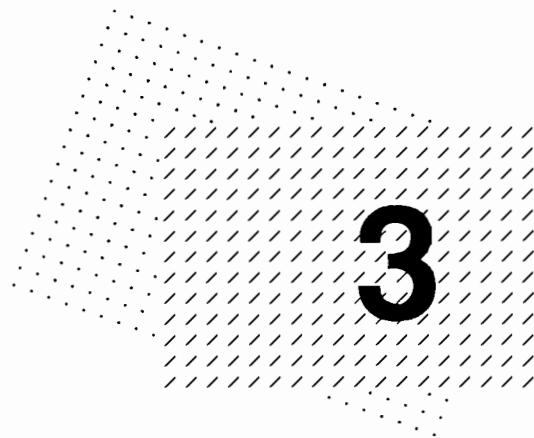
The **PRINT #VERSION** command enables you to identify what version of the Operating System you are using. The **PRINT #CPU** command enables you to identify the CPU number of a CPU if you are running a multiplex system.

DS UTILITIES

The **DS UTILITIES** are the support programs used to backup and restore tapes, configure disks, and support RAMdisk.

DOS UTILITIES

The **DOS UTILITIES** provide you with the ability to use DOS diskettes and files.



Media Contents

Media Contents of Release 1.0

Release 1.0 contains the following diskettes:

Part Number	Number of Diskettes	Description
291-1001	3	5 1/4-inch double-sided double-density 2275/ DS diskettes
	1	5 1/4-inch 1.2MB double-sided double-density DS diskettes

These diskettes contain the following files:

FileName	Type	Function
@BACKUP	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 ^a	Program	Convert system configuration file
@MOVE1	Program	Overlay for @MOVEFIL and @INSTALL
@MOVEFIL	Program	Move file
@PSTAT ^a	Program	Partition status
@RECOVER	Program	Recover from backup

FileName	Type	Function
@SYSMVPB	Program	Menu for System Utilities
@TO.CREF	Program	Create reference file
@TO.CREO	Program	Load or create a reference file
@TO.DISK	Program	Copy to disk
@TO.SUBS	Program	Overlay for @TO.DISK/IMAGE
@TOIMAGE	Program	Copy to disk image
@.STARTD	Data	System menu support
@@	Data	MVP system menu
@DATE	Data	Date file
@DM50/V0	Data	Printer driver
@LASRJV1	Data	Printer driver
@MVP ^a	Data	MVP microcode
@MXE0	Data	MXE microcode
@PM010V2	Data	Printer driver
@PM016V3	Data	Printer driver
@PM017V3	Data	Printer driver
@PM018V3	Data	Printer driver
@PM060V0	Data	Printer driver
@SYSFILE ^a	Data	MVP configuration file
@DG2 ^a	Program	Menu for system diagnostics
@MRTIAN ^a	Program	Game
@.DS ^a	Program	DS menu
@DSCFIG ^a	Program	DS configuration
@DSCFIGP ^a	Program	Protect/unprotect DS surfaces
@RAMDISK ^a	Program	RAMdisk allocation
@HITRATE ^a	Program	Cache usage
@DSTAPEB ^a	Program	Backup to tape
@DSTAPER ^a	Program	Restore from tape
@DOSFORM ^a	Program	Format program
@DOSHELP ^a	Program	Help menu
@DOSSET ^a	Program	Setup program
@DOSCOPY ^a	Program	Copy
@DOS.HLP ^a	Data	Data file
@DOSDCPY ^a	Program	Disk copy program
@DOSTYPE ^a	Program	Disk type program
@DOS ^a	Program	Start program
@DOSEXIT ^a	Program	Exit DOS
@FMT1 ^a	Data	Data file
@FMT2 ^a	Data	Data file
@CFIG ^a	Data	Data file

FileName	Type	Function
@DOSDIRP ^a	Program	Directory program
@DOSSTRT ^a	Program	Start module
@DOSDIRW ^a	Program	Directory program
@DOSTYLP ^a	Program	Disk type program
@DOSDEL ^a	Program	Delete program
@DOSREN ^a	Program	Rename program
@DOSCYCS ^a	Program	CopyCS program

^a These files differ from the BASIC-2/386 Operating System.

