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## Viewing on a Terminal

This document includes overstrikes for printing on a printer. To read this document on-line, extract the program NOVRSTRK from the optional programs archive and issue the following command;  
NOVRSTRK README.PRN README.TXT

You can then browse the terminal ready version of the document, README.TXT.

## Revision

This is the 131st revision of this document, and applies to version . This was last updated on by . Even if you have read previous versions of this document, this file and CHANGES.PRN should be reviewed for updates.

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Additional thanks go to Harry Broomhall, Harald Boegeholz, John DuBois, Edward Keith, Phillip Meese, Dave Platt, Mike O'Carroll, Cliff Stanford, Wolfgang Tremmel, and Dave Watt.

Honorable mention goes to Snuffles P. Bear, who says to please send chocolate. Warm thanks to Russell Nelson, who, among many other services rendered, did so.

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## Overview

Greetings from !

is a PC based version (and pun of) UUCP (UNIX-to-UNIX copy). is a program which implements peer-to-peer networking for using the UNIX UUCP protocols. MS-DOS or OS/2 based Personal Computers using these protocols can exchange mail and files with a UNIX system or other system over dial up or dedicated phone lines.

## Introduction

This document provides information on version , produced by with contributions from around the globe. is based on the free widely distributed interim version of UUPC, version 1.05, written by Stuart Lynne, Richard H. Lamb, and Samuel Lam, in Vancouver, BC. The MS-DOS version of UUPC is no longer maintained in Vancouver; is the official current release of UUPC. The differences between and UUPC version 1.05 include user aliases, routing to multiple hosts, dial in support, limited domain address parsing and routing, OS/2 support, and various improvements in the user interface. Because of these changes, much of what is contained in this document does not apply to the original UUPC 1.05 package.

is written in C, and compiles with Borland C++ 2.0 under MS-DOS or with Microsoft C 6.0 under DOS or OS/2, with one additional module in 8086 Assembler (MASM) for the MS-DOS versions. The documentation is written using Microsoft Word for Windows 2.0.

Minor revisions to are denoted by changes to the letter suffix on the version number. Minor revisions include only those changes, no matter how great, that allow the user to return to a previous release of by at most updating the configuration file. Major revisions to are denoted by a change in the number of the version; a major revision has changes in it which introduce a permanent incompatibility with the previous release.

For a full description of the changes to and how they affect upgrading from one release to the next, see CHANGES. PRN included in this package. It should be duly noted that there is no version 1.24b at this time. A user was having nightmares in which she didn't have version 1.24b and everyone else did . . .

## Who Should Use This Program

As mentioned above, is a peer-to-peer networking program: your local system and systems it communicates with are on an equal footing in that in general the capabilities and access of the systems are symmetrical. You must have complete control over and be responsible for your own system. Compare this to a client-server set-up such as when you dial-in to a central mainframe or Bulletin Board System on which the System Operator handles the administration (and restricts your access).

One application for is to provide remote access to a private system or small network, for example allowing a laptop machine access a single remote PC or UNIX system. This requires very little overhead, and may be used for connections needed for just a few days.

A more common use for is to provide dial-up e-mail access to public networks such as the UUCP network and/or the Internet. When is used for this purpose then you, as the system administrator, will be responsible for keeping up your own system as a member of the global network community. Related duties include making sure your system calls other systems regularly (including when you are not around), monitoring your links to other systems, registering your system with a central authority such as the UUCP Project and/or the Internet Network Information Center, and other long term tasks.

Because of these tasks, not all people should use a program such as for general e-mail access; a good rule of thumb is if you do not receive more than one e-mail message a week or do not require e-mail access for more than six months, then you should consider a commercial service such CompuServe, MCI Mail, ATT Mail, or others over setting up . This reduces the set-up work required on your part and avoids the problems associated with registering and de-registering your system, leaving the system running during absences, and the like.

should also be avoided if your primary interest is in a server which allows downloading files to other personal computers which do not have or some other UUCP program. The UUCP protocols are not compatible with the protocols (Xmodem, Kermit, etc.) included with most PC terminal emulators, and security is oriented towards a pre-defined list of known systems calling in regularly. Use a BBS program instead in such cases.

Finally, should be avoided if you lack the resources, financial or otherwise, to support the program. Installing the program does require some experience in setting up complex systems or a willingness to learn via associates or books. Trying to do so with no experience and no resources (such as the Nutshell handbooks discussed below) can cause pain and suffering for a very important person-- you.

## System Requirements

To install, you'll need the following:

- \* A computer running MS-DOS or OS/2. Under DOS, you will need at least 512 KB of RAM and 2 MB of hard disk space (for executables, configuration files, documentation, and mail received). For OS/2 you need the minimum OS/2 system configuration plus 2 MB free hard disk space.
- \* A modem.
- \* The manual for the modem.
- \* A text editor. The MS-DOS editor, Windows Notepad, or OS/2 editor will work fine. However, we don't recommend attempting to configure a new installation under Windows. Get it working under DOS or OS/2 first.
- \* A friend with a machine that does UUCP. This can be a UNIX system, another or other UUCP clone running on a PC, or a VMS system running DECUS UUCP.
- \* A copy of PKUNZIP.EXE, version 1.1 or later. PKUNZIP is a shareware utility and can be found at almost all archive sites. Consult your local BBS, or get it from wuarchive.wustl.edu.

## Required reading

Read INSTALL.PRN now for installation and upgrade instructions. Users of previous versions of UUPC/extended should also read CHANGES.PRN for a summary of changes in the current release. Instructions on using the programs are in COMMANDS.PRN, MAIL.PRN, and UUSTAT.PRN.

This document and its companions supplied with only provide an overview of the software. The average person wishing to set up will require a reference such as Managing UUCP and Usenet, part of the Nutshell Handbook series by O'Reilly and Associates. This book, while not specifically addressing , includes detailed information on:

- Format of the SYSTEMS file
- Format of the PERMISSN (permissions) file
- Information on debugging login scripts
- Information on registering your site with various networks

For using , the Nutshell Handbook Using UUCP and Usenet will be helpful; it includes a description of the various end user commands such as UUSTAT and UUCP, topics which are not covered in detail in this documentation. Information on these commands is also available by reading the manual pages for these commands on a real UNIX system.

Note: The MAIL command is not compatible with most UNIX mail programs, and does come with its own help file, MAIL.PRN.

## Special Notes

Previous versions of documented a mail server on omnigate.clarkson.edu at Clarkson University which would test your mail address by echoing your mail back to you. This server is no longer available, and mail should not be sent to it.

In addition, previous versions of also included a file called simtel.inf which documented a mail server for retrieving files via FTP at Princeton University; like the server at omnigate, this server is no longer available, and mail should not be sent to it.

Kendra Electronic Wonderworks has no connection with O'Reilly and Associates. However, both of these books are on the bookshelf here.

These are available from your local bookstore or software house, call them at 1-800-338-NUTS, or send them electronic mail at nuts@ora.com.

A electronic mailing list, [uupc-info@sun.soe.clarkson.edu](mailto:uupc-info@sun.soe.clarkson.edu), is open to those interested in ; to join it, send a command of the following format in the body of a e-mail message to [listserv@sun.soe.clarkson.edu](mailto:listserv@sun.soe.clarkson.edu):

```
add user@node uupc-info
```

Where user@node is the Internet format of your address. (UUCP addresses are not accepted by the List Server; such addresses must be specified as an address via a major gateway such as UUNET.) The List Server also accepts the command:

```
help
```

To resign from the mailing list, send mail to the List Server of the following format:

```
delete user@node uupc-info
```

Note: DO NOT send requests to be added or deleted to [uupc-info@sun.soe.clarkson.edu](mailto:uupc-info@sun.soe.clarkson.edu); mail sent to this address is automatically forwarded to all users on the list. Questions of an administrative nature which require human attention should be directed to [uupc-info-request@sun.soe.clarkson.edu](mailto:uupc-info-request@sun.soe.clarkson.edu).

Since any undeliverable addresses causes mail to be bounced to the list administrator, the administrator reserves the right to drop any user from the list for whom mail is rejected. In many cases, the user will not be notified, since the mail to notify the user will bounce for the same reason the address was deleted in first place.

## Registering

It is now possible to register ; see the enclosed REGISTER.PRN for the cost and benefits of registering.

## Problems

Please report problems with this version of via electronic mail to [help@kew.com](mailto:help@kew.com). If you are unable to reach via electronic mail, mail your problem report to:

Drew Derbyshire - Help Desk  
Kendra Electronic Wonderworks  
Post Office Box 132  
Arlington, MA 02174-0002

Please include with your problem description listings of the files which apply, including:

UUPC.RC  
PERSONAL.RC  
SYSTEMS

Directory of your UUPC configuration directory.

A log of the applicable program execution, if any. Both UUCICO and RMAIL automatically write logs into the spool directory.

Note: Passwords and userids can and should be changed in the SYSTEMS file.

No claim is made that the problem will be corrected, or the person reporting the problem will be supplied a copy of the corrected code, but reasonable efforts will be made to correct the program. The Wonderworks does not provide formal telephone support to unregistered users. Questions related to support of news software for should be directed to [uupc-news@kew.com](mailto:uupc-news@kew.com).

PLEASE read the Nutshell handbooks before sending mail.

## Questions and Answers

The following is a list of general questions and answers about ; for additional questions related to installing and general trouble shooting, also see the Question and Answer section in the INSTALL.PRN.

Q. Does support news?

A. In part. The RNEWS distributed with now correctly decompresses and delivers local news to directories based on the news group name, but the news reader (a port of the UNIX program RN) is still in development.

Q. UUPOLL takes over my entire system when it runs; can I run it under DOS and still use the system?  
Registered users will be provided an update when a fix becomes available if they explicitly request it. See register.prn for details. No, but you can run it under MS-Windows 3.x in 386 enhanced mode, or under OS/2. DESQView should also work. At the Wonderworks, kendra uses OS/2 2.0, and athena uses Windows 3.1.  
The news support was originally promised for the end of 1991. We admit it, the schedule got blown.

Note: Be sure to enable the option multitask if you run in the background.

- Q. It takes forever for the system to recognize a busy signal on the other end. What can I do?
- A. Make sure your modem file includes the NoConnect variable to document the strings your modem uses to report failures in the dialing sequence; also consider enabling the option CarrierDetect in your modem file.
- Q. Can support multiple users on one system?
- A. Yes. Each user should have an entry in the PASSWD file (described above) and a copy of PERSONAL.RC under a unique name in the configuration directory; to switch the active user, a short command file similar to the sample SU.BAT file provided can be used to change the active user. cannot prevent users from reading other users' mail or mail queued for another system. This is an MS-DOS restriction.
- Q. Why doesn't come with better documents?
- A. was originally maintained for low-cost communications between and the outside world. It was given away to the unsuspecting public because that is how it was originally received. We are in the process of updating the documents by both correcting errors and omissions to existing topics and covering additional topics. Please submit comments on suggested changes of general interest to docs@kew.com.
- Note: When submitting documentation suggestions, please be specific as possible; for example, suggesting that more examples of the PERMISSN file is needed will not gain as much attention as suggesting an example of using LOGNAME= for an anonymous host in the PERMISSN file.
- Q. is wonderful, but it doesn't run on my (insert non-IBM compatible platform here).
- A. While the original UUPC was targeted for both the Mac and Atari-ST into addition to the IBM, but only supports the MS-DOS and OS/2 environments. Contact Dave Platt <dplatt@snulbug.mtview.ca.us>, on where to find his version of UUPC for the Macintosh. There are no known reliable sources for UUPC for the Atari-ST.
- Q. Who is kendra?
- A. Actually, that is correctly "What is kendra?" Kendra means "womanly knowledge" in Old English.

kendra originally was an 80286 based Epson Equity III+ running MS-DOS 5.0 and using a second 8088 system as a front end. During May of 1992, she was upgraded to a Northgate 386/40 running OS/2 2.0. Her sibling, Katherine's system athena, is a Northgate 386/33.

- Q. And ?
- A. The Wonderworks is made up of kendra, athena, Drew, Snuffles, Katherine, a PO Box, a filing with the local town clerk, and about 900 hours put into over three years.
- Q. I want users to be able to login and read their mail on my system. Since I can't use COMMAND.COM, what shell should I specify for them?
- A. Right idea, wrong question. is not designed for remote user login; rather, it is designed to allow routing mail among multiple peer sites, so set up each user as his/her own node. This gives each user all the tools of his/her own system when composing mail, and keeps the time spent on-line to a minimum.
- Q. Why does Snuffles want Chocolate?
- A. Because Chocolate is happy food. Snuffles is a very happy bear. However, ever since someone sent her 18 pounds of chocolate, she now looks for donations to the Chocolate Ice Cream Fund instead. This leaves us more room in the freezer for more mundane groceries.

Note: Snuffles does still accept Girl Scout Thin Mints.

Which is to say, it was free and we were unsuspecting.