CRS Online

NEW USERS GUIDE

Etobicoke, ON M9W 6M5
(416) 213-6000

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Printing History -

CONTENTS

Welcome to CRS Online

Since beginning in 1981, CRS has grown steadily. From a single line system, attracting 20 calls a day, CRS has grown to over 200 incoming lines and 5000 calls a day. This continuing growth is a tribute to you, our subscribers. Anyone can put the hardware together to run a bulletin board, but without the input, support and guidance of subscribers, you'll have just hardware. CRS subscribers make the difference, and we would be remiss if we didn't thank you for your continued support.

CRS is the largest system of our type in Canada and the second largest in North America. Our all inclusive annual fee structure means that you don't have to worry about per minute connect charges or file downloading charges. Files, messages, and network mail are all included in your low annual subscription fee.

Our systems are constantly changing, and we've tried to keep this manual fairly generic.   If something in here doesn't seem to be applicable or work any longer, check the on-line help systems (Type H from any menu), or review the on-line bulletins (Type B from any menu). On-line help and on-line bulletins are typically more current than our printed material.

This manual is, of necessity, complex. Please take some time to read through the manual. Once you've done that, give our systems a call. And, if you have problems, give our tech line a call at (416) 213-6001. The tech support line is staffed by our full time system operators (sysops) from Monday to Friday 1pm to 7pm. We also run Thursday evening seminars about once every three weeks, so there's plenty of help available for you.

Thank you for your support of CRS. We hope you enjoy our on-line services.

David Chaloner
General Manager

CRS Onlıne   New Users Guide

HOW TO TALK TO CRS...

We'll give you more info regarding the computer setup later, but the most important #'s we have (and the ones you should keep in mind) are our voice #'s.

Unlike most small bulletin board services, CRS Online is a commercial full time operation. We have staff you can talk to. As a result, you'll find that questions or problems can often be resolved over the phone with very little delay.

Sales And Administration

Our sales and administrative staff deal with new accounts, password problems, time allocation, and the like, and they can be reached from 9am - 5pm, Monday to Friday at:

(416) 213-6000   Toronto and Area
(800) 563-2529   North America

If you encounter a problem with your account on any of our systems, call us, we will try to assist you in any way we can.

Technical Support

Our technical staff deal with system problems and questions. They cannot fix account problems, but they'll be happy to assist you with technical questions relating to CRS.   They can be reached from 1pm to 7pm, Monday to Friday at:

(416) 213-6001 All Areas

If you are calling the technical line, please be seated at your computer and have a brief description of the problem ready. Be as detailed as you can. The more information that our tech staff has, the better they can assist you. Tech support is limited to CRS subscribers only and is typically fairly busy, so please be patient if you encounter some busy signals.

You can also leave messages on-line to the sysops, but keep in mind that their workload is such that it may be up to 7 days before you get a response.   If your question is more urgent, you will get the fastest response by calling voice. If you have a less urgent question, then leaving a message to "SYSOP" is recommended.

POLICIES

CRS Online has some policies that you should be aware of -

1. Nothing illegal is permitted on-line. No uploading of commercial or copyrighted software of any kind is permitted.

2. No excessive profanity.

3. No undue abuse of the system.

4. We do not typically edit or censor messages in any way, but reserve the right to do so.

5. The use of our systems is at your own risk. We particularly caution you that doors are add-ons to PCBoard, and may not be of the same high quality as PCBoard. Some doors are prone to crashing.

Administrative Policies

1. It may take up to 3 working days to make an account change (new or existing). While we typically make changes the same day we receive a request, please allow 3 days.

2. Subscriptions are automatically suspended by the system on the date of expiry.   Allow 2 weeks for your renewal to be processed, and don't leave it until the last minute if you want to ensure your access will continue uninterrupted.

3. An administrative charge of $20 will be levied for the following:
         i. Change of Account Name
        ii. Returned cheque

4. CRS reserves the right to cancel any subscription with or without cause by refunding the balance of your subscription fee. Subscriptions are non-cancellable by a user.

CRS Online is operated by 884097 Ontario Limited as a private system.   While we exercise due care and caution, we will not be responsible for any losses or damages you suffer while using our systems.   We do not guarantee access at all times, and expressly reserve the right to change our policies at any time.

GETTING ON-LINE

Setting Up Your Software

To deal with any electronic medium, you have to have a modem, computer and communications software. While the choice of a terminal program and modem is yours, we recommend one of the newer shareware packages as your communications program (typically Telix, Procomm or our own *CRSEasyLink* for the PC Based machines) and as high a speed modem as your budget will allow.

Before reading any further in this handbook, now would be a good time to make sure that you do have the necessary equipment, and adequate documentation for your communications program. If you're not sure that it all works together, do the following:

a. Turn on your computer (and modem, if you have an external modem)

b. Bring your communciations software up. This is usually   explained in the manual that comes with your software package. As each package is different, we can't give specific instructions about getting your particular software running, but look for an EXE or a BAT file on your communications disk and try running it. Almost all communications software will start up in the "Terminal Mode" - this simply means that whatever you type on the keyboard is sent to the modem.

c. Type (on your keyboard) "ATZ" (without the quotes) and hit a carriage return.

d. If your modem/computer/software are all responding correctly, you will see on your screen either a "0" or an "OK". Either indicates proper functioning. If you don't see this, then you'll need to stop right here and get it all working together. We'll be happy to assist you on our technical line, but if you purchased   the modem/software elsewhere, our first response will be to refer you to your dealer.

If you did, continue on. If you did not, go back to "Setting up   your software"

Now, that you're communicating with the modem, you'll have to tell your software about CRS. CRS (and most Bulletin Boards) expect you to set up for 8 data bits (that's the number of bits in a computer character), 1 stop bit (that's the number of bits after the character is sent) and no parity. Basically, what this means is that we'll send you 10 bits for each character, allowing us to use 255 different combinations of bits to make characters that you and your computer can understand. You'll usually need to set these parameters (and the maximum baud rate of your modem) in two spots - One in the defaults section of your communication program and the other in the dialing directory of your communication program. Again, the exact specifics of your communications program cannot be covered in this manual, but look for a menu command in your software called "OPTIONS" or "TERMINAL OPTIONS". (See appendix J for special instructions on setting up error correcting modems)

Once you type in the phone # (or activate your dialing directory), you'll hear a dialing. When the modems connect, you'll hear a couple of tones and then a short song or screech. Your software/modem should then say "Connected at xxxx Baud".

You can also instruct the modem to dial one of our phone numbers by first entering our numbers into a dialing directory (This is often done with an ALT-D command, but check your software manual for dialing instructions) Phone #'s for our on-line systems are contained in the appendices section.

Busy Signals

If you are having problems getting through, and you've not been successful in the past, we suggest you try calling with your   telephone as if you were going to talk to someone on the other end. You may find that we're busy, or that something else is wrong.   When in doubt, call manually and listen first. CRS is often busy in the evening hours.   We attempt to provide enough lines so that you'll wait no more than 10-15 minutes during the peak time, but you cannot expect immediate access during peak hours. As well, our systems have scheduled shutdowns daily from 12:00noon to 12:45pm, and you will never be able to access us during that period.

If one set of numbers is busy, try the other number. We search for open systems only within a particular hunt group (A hunt group is a fancy way of saying that if the first line in the 213-6002 group of numbers is busy, your call will go to the next number, and so on until it reaches an open line).   You'll generally need to dial only one or two numbers to have access to the entire set of modems available on the system.

Out of Town Phone Numbers

CRS has placed a numbers of lines into communities surrounding Metro Toronto. If you are local to one of these lines then you can reach our systems without any long distance charges. For callers, even further away from CRS, our systems are accessible through iNET 2000 and Datapac (Canada) and a variety of alternative long distances services (US). If you'd like more information on iNET 2000 or Datapac, please call our office and ask us for details.

CONNECTED! NOW WHAT?

Once you are connected to our on-line systems, you will be prompted whether or not you want graphics. (How do you know you're connected? The modem speaker will turn off, and your software will normally say CONNECTED). If you're using a program which supports ANSI graphics, answer Y and press Return. For other software, check to see if it supports the ANSI.SYS emulation; if so press Y, otherwise answer N. (If you aren't sure, just hit N.)

Next you will be prompted for your first name, last name, and a Password. Enter these three identifiers as requested. (If you have not already been enrolled as a subscriber and assigned these three items, you will only be able to enter the on-line systems for a one hour demonstration. Contact CRS at (416) 213-6000 or (800) 563-2529 to register.) If you're not sure about your name and password, check the CRS invoice that came with your new subscribers kit. Typically, we use your first and last name as shown on the invoice. If we have set you up in any other manner, you'll see a note on the invoice "bb: name" which will identify you.

(Note - If you're not recognized, one of two things has happened: a. You may not be entered into our systems yet. Typically, we set up subscriptions the same day we receive a request, but occassionally it can take a little longer. If you are not set up within two business days, give us a call and ask what the status of your account is. b. We have set up your account incorrectly. Give our office a call and we'll fix that right away.)

Once the board has identified you as a subscriber, we'll display a NEWS file. This file appears the first time you log on and every other time you log on if the news file has been updated. It is an important source of news about the on-line systems and events that affect our subscribers. Avoid frustration - read this file when you log on. If you missed anything, you can always redisplay the file by typing NEWS.

Following the news file, you'll be prompted to scan for new messages. Selecting YES will cause the board to search the message base for mail addressed to you starting from the last message you read. If you don't read mail on a regular basis, this may take a few seconds to complete, so be patient. The main menu will follow and you are now on your way to accessing all the services available on CRS Online.

A Note On Speed

We run our system on a Novell Network with over 30 gigabytes of storage. More than 95% of our workstations or nodes (the computers you call into) are high speed AT class or better, but there are still a few older nodes. Speed is always a relative thing - and we'll take a moment to address it here.

In most instances, you'll find system speed to be more than adequate. However, when opening doors (external programs to the PCBoard software) or scanning messages, there may be a noticeable delay. This occurs for three reasons:

a. The door software code must be moved from the file server to the workstation, and PCBoard BBS software unloaded. More popular doors may result in 300+K of code being moved across the network. If the systems are busy, there will be a network delay in providing your workstation with this code.

b. Rosemail and Prodoors search an extended user file that is more than 400 megabytes in size for your name. If this is the first time you've logged onto the door, a delay of up to a minute may be encountered.

c. In message scans, we're scanning tens of thousands of messages. Typically, our main and IBM message bases are in excess of 2000 messages each, even though we only keep them for periods of 4 to 30 days, and we generally receive 20,000+ messages a day.

We constantly upgrade workstations to eliminate any bottleneck, but we're somewhat hamstrung with the other problems. As we don't charge you for connect time, it's not a big issue, but have patience in peak periods.

Main Board

The Main Board is a generic information area where you may view Bulletins, send Comments to the System Operator (Sysop) and change some of your Users Parameters. The Main Conference (Conference 0) is where you will find non-specific files.   For most of you, you'll scan messages in the main conference and then move immediately to a computer specific conference (eg. IBM, Macintosh, Amiga, ...etc.) if you are interested in downloading software or a message conference if you want to browse messages on a certain topic. The Main conference contains private messages only, and unless there is a message to you, you'll see no messages in the Main conference.

Conferences

Many of the BBS features are available only after you have joined a conference, so the first step toward accessing more information is to "join a conference".

Conferences are the basic areas into which the bulletin board is divided. When you first log onto the bulletin board, you will be presented with the "Main Board" menu. At this main board menu, enter J to join a conference.

After typing "J", you'll be presented with a list of conferences. Conferences are available immediately by typing the conference number.
Once inside a conference, you are presented with the message "Scan Message Base Since 'Last Read' (Enter)=yes?" Press Return and the message base is searched for any new electronic mail, E-Mail, that has been sent to you.

After searching the message base, the system tells you if there are any messages for you, or from you. It will also tell you how many new messages were entered since you last read a message in this conference.

Press Return again, and the system tells you the number of the last message you read (L/Msg.Read), the number of the highest message entered (High Msg.#:) and the number of active messages.

Pressing Return again brings you to your Conference Menu. The command prompt at the bottom of the menu lists which conference you're currently in. At this menu you can read bulletins; send electronic mail to all conference subscribers or send private messages to specific subscribers; read public or private mail sent to you, upload a file (send a file to the conference) or download a file (copy a file from the BBS). Most of these files can be downloaded either directly to your screen, printed on your printer, or saved to disk for later use.

Conferences available at the time of reprinting of this book are shown in the appendices. The list changes often, however, so to get the current listing, just enter "J". There are some special conferences that are worth note -

> a. Computer Specific Conferences (1,2,3,5,6,13,14). Most of the files available here are in computer specific conferences. File listings do not cross conferences, so you must join the computer specific conference of your choice to obtain files for that computer type from CRS.

> b. Technical/Help Conference (#9) - All responses from the System Operators go into Conference 9.   There are 3 operators dealing with your messages/comments/scripts, and to ensure that you can find our response, we place our answers to you in conference 9.

> c. Information Services (#39) - This area contains direct news feeds from Reuters and UPI, a selection of CD-ROMS, and closing stock market results from seven North American exchanges. This conference is an extra to the basic subscription, and you may join it only after paying an additional fee. (Call the office to join). It's described in some detail later in this manual.

> d. Buy and Sell (#34) - A very popular area to buy and sell products of all types. This area is intended for personal use only.   Companies may not advertise products unless they are either corporate subscribers or have purchased the "commercial advertising" add-on. Call the office for details.

Exploring The Board

Feel free to try out the commands listed on the menus and explore your way through the BBS system. If you enter an invalid command, you'll get a message telling you what went wrong.

Sometimes at high transmission speeds, these messages disappear before you can read them. You may usually stop these by typing Ctl-S to stop and Ctl-Q to restart, or your communications software may support some form of scroll back feature. Unless you are using some kind of a script that requires continuous

sending of information, we recommend that you use the "P"age Length command to set your page length to a suitable number (this ensures that our systems only send your computer as much information as it can display at one time).

To ensure that everyone has a chance to use the BBS, each subscriber is allocated a certain amount of time per day to access it. The board keeps you continually informed of how much time you have remaining. Each subscriber can save up some of their unused time so that they can use it another time. There is a section later in this guide that covers the use of the Deposit door.

Whenever you want information about an operation, just enter the "H" command to display Help text. Anytime you're ready to log off the BBS, just enter "G" for Goodbye.

Electronic Mail

Four types of electronic mail communications are provided:

Public Mail - To all other conference subscribers - provides a public forum for exchanging information of interest to all conference subscribers. At the main or conference menu, enter "R S", and all public mail active since you last called will be presented.

Private Mail - To and from another individual - a direct message to another individual. Should be used for personal messages and messages that would typically not be of interest to all subscribers.

Echo Mail - To other systems - public mail that is echoed out through our connections to other systems. With echo mail, you can address questions and/or comments to hundreds of other Bulletin Boards and thousands of other users. Not all conferences permit echo mail. (See the appendices, for full details on our current echo connections)

Comment to SysOp - When you have a question about the Bulletin Board system - send a (C)omment to the System Operator by entering "C". The SYSOPs typically respond to messages within 4 days and all SYSOP responses are placed in conference 9 (our technical/help conference). Use this for general questions. System related problems (file not found, door not working, etc) should be addressed to the SYSOPs by completing Script Questionnaire #6 (type <<S>> from any menu prompt).

Sending Mail To Everyone

To send your questions, answers, or comments to all conference subscribers, at any conference prompt, enter "E" to Enter a message. When asked to enter the subscriber for whom the mail is intended just press Return to send the mail to all subscribers. You're presented with an area into which you can type your mail. The built in editor will provide word wrapping so you don't have to worry about carriage returns at the end of each line. (To insert a blank line, type a space, then Return.) If your software supports it, you may use the full screen editor that is provided on our system.

When the message is finished, press Return on a blank line (in Full Screen mode you would hit the escape key). You're then asked if you want to send the message, abort it, delete it, re-enter the message area for editing, and other options. Selecting "S" will save and send the message to everyone in your conference. You are encouraged to address your mail to all subscribers when you feel the topic is of general interest to your conference subscribers. In many instances, another caller already knows the answer to your question, or can benefit from the question and public reply. In this way, all subscribers can participate in and benefit from the conference.

Sending Private Mail

To send comments or questions privately to a CRS subscriber, enter "E" to Enter a message. The process is the same as that for sending mail to everyone, except that when asked to enter the subscriber for whom the mail is intended, enter the person's first and last name. Enter your message in the displayed, numbered blank lines (up to 99 lines), and end the message by pressing Return on a blank line.

You're then asked if you want to send the message, abort it, delete it, re-enter the message area for editing, and other options. Select "S" to save and send the message to whomever you addressed it. Selecting "SC" will save and send the message, then ask you if you want to send a "carbon copy" (of the same message) to another person. As long as you keep entering a first name/last name on the blank line you can continue sending carbon copies to individuals. To stop the process, just press Return on a blank line.

Depending on the conference you are in, the system may check for the identity of the intended recipient and you will be advised if he/she does not exist. DO NOT RELY ON THIS. It is not enabled in most conferences due to the additional time delays involved. If you're not sure of the name, you're better off not sending the mail. If sent to an invalid name, the recipient will not be able to retrieve it. (In many cases, if you are sending mail to a user on another system, our user records will not show the identity of that person - make sure you have the correct name, and send the message anyway.)

Many of CRS's message bases are shared with other BBSs in North America and throughout the world through a system called echo mail. All messages (public and private) marked for echo will be passed to all the participating systems. In these conferences, an additional "Echo Message" prompt will appear when you enter a message. If the message is for someone on CRS, do not echo the mail. If, however, the person you wish to send mail to is not on CRS, then you must set this flag to "Y". If you do not wish to echo the mail, make the first three characters of the SUBJECT = "NE:".

Sending Comments To The System Operator

When you have a question about the bulletin board system - send a (C)omment to the System Operator, who will re-direct the mail for you. Enter "C", and the process is the same as that for sending mail to everyone, except that you're not asked for a subscriber name. Enter your message in the displayed, numbered blank lines (up to 99 lines). End the message by pressing Return on a blank line and entering "S" to save the message.

The Comment to SysOp feature also provides a way for you to request more information about the BBS, comment on it, and request new features, such as the creation of a conference area for a topic of interest to you. Comments to SYSOP are automatically flagged private. Comments to system operators are always responded to in conference 9, but they may not be handled for a number of days. We offer faster, more effective ways of dealing with your questions -

Script #6 is our general system problem script. This is where you tell us if something is wrong with the system. You usually will not get responses to this script, but the problems will be fixed as soon as we can examine them. Other scripts allow you to order products, renew your subscription and more. You may use either the Comments to sysop or scripts, but Scripts will normally be handled slightly faster than will comments.

Reading And Erasing Mail Messages

When you joined your conference, if you pressed Return when asked "Scan Message Base Since 'Last Read' (Enter)=yes?", the system replied by telling you what new messages, if any, were waiting for you. If you enter "R" at the conference prompt, a numbered list of available messages is presented. If you had new messages waiting you should enter the number of the first one then press Return. Or you may enter "Y" for Your Mail, and then "S" for since the last time you logged on, and the system will begin displaying your new mail since the last time you checked.

As you become experienced you will learn that you can stack commands to save time. For example you could accomplish all of the above by entering the string "R Y S" Return. This tells the system that you want to read all your new mail since you last checked it. Many of the commands that you use within the conferences can be stacked in this manner.

Once read, the messages remain stored on the board until you "kill" (delete) them. To kill a private message, enter K after reading the message, then press Return.

Automatic Purging - We purge our message bases once daily. Messages will be deleted when either of the following conditions are met:
>   **a.** The message is older than the predetermined conference parameter. Typically, messages will be purged (whether read or not) after 25 days (NANET) or 6 days (Other Networks);
>   **b.** The message is both private and has been read.

This catches some users who read a message but do not respond immediately. By

the time they return to reread the message and respond, the automatic maintenance has deleted the message. It is best to respond to a message as soon as you read it if you want to avoid the automatic purging.

When reading mail, you can reply to messages with the Reply ("RE") option. If you select this option, you're presented with space into which you can enter the reply. Enter and send your reply just as you do when sending new mail to someone (see the sections above on sending mail).

Every reply to a message becomes logically tied to that message. This includes replies to replies. This logical tie is called a "thread". When a message you're reading has replies associated with it, you are presented the option of reading them. In this way, you can thread through all the responses to a topic and add your own comments to the forum, which are in turn threaded to the other messages.

Text searches may be done on a message base with the TS command. The searches can be done with logical AND/OR parameters. For example, if you wanted to find all messages on laser printers for the Atari and Amiga computers, the command would be:

TS Laser & (Atari | Amiga)

The "&" sign indicates a logical AND while the "|" represents a logical OR. The TS command can handle multiple parentheses and logical searches.

Sending a Prepared Document to the Mail Facility

You can prepare a document off-line (on your computer) and send it to the BBS as a mail message using many communications programs. You'll need to do an ASCII upload as follows:

Set your Character line length to be 72 characters or less.

A completely blank line is assumed to end the message. To insert a blank line, enter a space character, then a carriage return. Once you've composed your offline message, log on to CRS and join the CRS message conference of your choice. Start your message by completing the users name and subject matter in the normal manner. Then, when you see the 1: from our system (indicating the first line of your message), do an ASCII upload to us. You should see your offline message appear on-line. When the upload is complete exit the message editor and save the message as you normally would.

Downloading And Uploading Files

The BBS stores files for distribution to subscribers. Files can be sent to the board only by subscribers. If you are sending a file to us, it's called uploading (only subscribers can upload files to CRS). Files can also be transferred to your own computer's disk for usage or reading. This is called downloading.

Files can be transferred between the BBS and your computer with error-free file transfer protocols. Text files can also be transferred using ASCII protocol which does not perform error- checking.

If you select T at the main board or any conference prompt, you can then select the desired file transfer protocol. Among those available are:

HSLINK
Xmodem
Xmodem CRC
Xmodem-1K blocksG

Ymodem Batch
Zmodem (recommended protocol)
None

If you're just starting, we suggest that you choose ZMODEM, as it remains the most reliable protocol.

When you select a BBS protocol, select the same protocol in your communications software. Note that not all communications software uses the same naming convention, so you may have to experiment.

To use ASCII protocol to transfer text-only files, first turn on your communications software's disk capture option (if you want to save to disk).

Uploading Files To The Board

If you have a file you think might be of interest to other subscribers, select "U" at a conference menu. You're asked to enter the name of the file as you want it to appear on the bulletin board. Set your communications software to the desired file transfer protocol, and begin transferring the file. Before uploading, please make sure that you are in the proper machine specific conference (i.e. IBM/DOS is conference 2).

After you upload a file to the board, it is immediately available for downloading from the appropriate upload area. All uploaded files must first pass an integrity check that includes scanning for viruses. On a regular basis, CRS sysops will review the file and place it in an appropriate area on the BBS.

Please note that Canada Remote does not accept for upload OFFENSIVE, COMMERCIAL or PIRATED software. Subscribers found uploading such software will have their subscriptions suspended.

Downloading Files From The Board

CRS has defined a number of file areas to help find files more easily. To view the files in these areas, use the "F" command. You'll be presented with a menu of all the available file areas in the present conference. Select the area that interests you and enter the number when the system prompts you for it. You'll then be given a list of the files and their description. These file listings may also be downloaded. View file area 2 for the exact names of the file listings.

You can also display the names of files that have appeared on the BBS since a specific date. To do so, select "N" for New Files, and enter the date in the numerical format mmddyy. For example, October 31, 1987 would be entered as 103187.

Alternatively, you can search for filenames using the wildcard character *. Enter "L" for Locate File, then supply the wildcard designation. There are a number of sub-commands available for the locate command. Adding the number of a particular file area will instruct the system to search only that area, while "A" will search all areas.

If you're not sure of the file name, you can use the Zippy search. The Zippy search can be used to find files from the description as well as the file name. It searches on any combination of characters and will advise of matches regardless of where they fall in a name or description. For example, a Zippy search on "COMM" would turn up things like "teleCOMMunications" and "COMMand" in the same search. Zippy is a text search and does not require (and cannot handle) wild cards.

Both the LOCATE command and the ZIPPY command are searching text file listings, created by CRS. While we attempt to keep the text of the file listings up to date, there may be instances where a file is shown in the directory, but is not actually on-line. You will not know this until you actually try to download the file with the "D"ownload command and receive a "file not found" error. For files not on-line will generally be unavailable.

Once you've located a file you want to download, enter "D" at the menu and supply the name of the file you want to download. Then instruct your communications software to begin receiving the file to disk. Remember, CRS runs on IBM DOS based equipment, so the format of the file is always xxxxxxxx.yyy - (eight or fewer characters to the left of the period, three or fewer to the right).

Downloading files is generally a two step process - First you tell us to send you the file, using the "D" command. Then, you tell your computer to receive the file. This is often done with PageDown key, but again, will vary from communications package to communications package. If you tell us to send, and 60 seconds later you get a "Transfer Aborted" message, then you didn't tell your end to receive. When receiving files, most communications software will place them in your current directory, unless you specify otherwise. When the transfer is complete, a message to that effect is displayed.

Downloading Archived Files

Some of the files available for downloading have the extension .ARC or .ZIP. These extensions indicate that the file has been archived. Archiving a file reduces its size to conserve space on the BBS's host computer disk, and also to minimize the amount of time it takes to transfer the file. The .ARC. or .ZIP. file may actually be an archiving of multiple files into one. You can view the file makeup of an archived file by selecting "V" before downloading it.

Once you've transferred an archived file to your disk, you need to "unarchive" it so it can be used. To do so, use the program PKARC.COM or PKUNZIP.EXE. If you don't have these "shareware" programs, you can download a copy of them from file area 1. Be sure to print out

and read the documentation that comes with this series of programs. You may also find other compression formats on-line. There are many different compression systems for the various computer types. Some of the more popular ones are:

```
ARC    Use PK361.EXE      IBM
PAK    Use PKZ204G.EXE  IBM
ZIP    Use PKZ204G.EXE  IBM
SIT    Use Stuffit          MAC
CPT    Use Compactor      MAC
USQ    Use Unsqueeze      CPM
LU     Use Library Utility  CPM
PIT    Use Stuffit          MAC
LZH    Use LHARC          IBM
```

Working versions of these unpacking utilities are always maintained in our file area 1. To see the current contents of file area 1, enter "F 1", and then download the utility necessary for your machine. For IBM users, unzipping is done by typing PKUNZIP fn.ft (where fn.ft is the file name.file extension). For PKUNZIP, the extension must be .ZIP, so don't call it something else when you download it.

Batch File Transfers

We allow you to select a number of files for upload or download with the "UB" and "DB" commands respectively. When you select one of these commands, the system will prompt you for all of the files you wish to transfer. Once the file names are entered (and file descriptions in the case of uploads), we'll prepare to transfer them one at a time to you without further intervention.

When you have selected all of the files you wish (or the maximum that you have time or bytes available for), we'll give you the option of logging off immediately after the transfer. To do this, select "G" when prompted after you select the last file.

Bulletins

Messages the SysOp feels are of general interest are posted on the board as bulletins. Topics posted in the bulletins include information on each conference, tips on using the BBS, special announcements for the conferences, and other subjects. Bulletins are placed there by CRS and contain important information on the operation and use of our systems.

To read a bulletin, enter "B" at the main or conference menu. A list of bulletins are displayed, their numbers, and a description of their contents. When you see a bulletin of interest to you, enter its number to display it. To capture a copy to disk, turn on the disk capture option on your software and then display the bulletin.

To reread the daily news, type "NEWS" at the main menu. To read the news for any particular conference, "J"oin that conference and type "NEWS".

Bulletins can be downloaded or captured through a screen capture using your

communications software capture feature.

Script Questionnaires

A script questionnaire is a method of allowing you to report problems, make requests, renew subscriptions and the like in a formal manner. We use scripts rather than allowing you to complete free form messages as there's a considerable amount of information we need to act on your request. You reach the scripts by typing "S" at any main menu.

For example, script #6 is our trouble reporting script. It's here that you report system problems. Script #6 asks you for a considerable amount of information including the Node Number (that's the workstation that you actually entered the system on). Each node has over 75 batch files controlling it and with 175 nodes, that's 10000+ batch files, one of which will be wrong when you report a problem. Without the node #, it's sometimes hard for us to know where to begin to solve your problem. The node # is displayed on logon, but can always be obtained on-line by entering "I" to redisplay the initial welcome.

Please use the proper script to make requests of us. Scripts are handled daily. Message to Sysop may not be for a number of days, depending on workload here at CRS Online.

Other Bulletin Board Features

As you become more experienced at using the BBS, you may wish to try out some of its other features. Use the H command, as needed, to display help messages. The X command changes to Expert mode, in which menus are bypassed. Review bulletins and messages for tips on features and short cuts available. If you ever have any questions or suggestions, just send a (C)omment to the System Operators.

The M command, which toggles Color Graphics on/off, can be changed anytime. You will find that your screen writes will be slightly faster while you are in the Non Color Graphics Mode, however, the Color Graphics Mode On may be more presentable.

Doors

Doors are a means of exiting from the PCBoard controlling software to DOS. In essence, they allow us to provide you with services that are not built-in to the PCBoard BBS software used for our main BBS.

When you select the door command, you are presented with a list of options. On CRS, all doors are identical in all conferences except for the gaming conference (#11) where, due to the nature of this conferences, additional special doors reside.

Doors are constantly changing, but three that you should always be aware of are:

RoseMail (for IBM users Only) is a door that will actually reduce your time connected to CRS while letting you participate with the message bases as much as you want. CRS does not supply you with an offline reader, but we recommend

RoseReader or QMAIL DELUXE (see Appendix G). The door allows you to select the message bases you wish to keep track of and then download to you automatically all new messages available. Unpacking of the message packet is handled off-line at your end, and replies are created automatically. The replies are compressed in a file that you upload through the door where they are inserted into the correct message base(s).

To access doors, simply "open ##" (where ## is the door number). Doors are available from every conference as well as the main conference. Conference 11 (the Gaming conference) has a different set of doors - specifically for gaming.

Other Features

CHATS

CRS supports full interactive CHAT between nodes. You can use it at any time. To enter a CHAT, just type CHAT. At that point, a list of all users on-line will be presented, and by typing the number of the user you want, he/she will be alerted that you'd like to CHAT. Wait up to 2 minutes for a response, as Chats are only available from the main prompts, and the person you wish to chat with may be doing something else.

To enter a group chat, just type CHAT G. This is the same as a private chat, except that any node wishing to participate may join in the session.

SUPPORTING VENDORS

CRS is pleased to have the support of many vendors, and you can talk directly to these vendors in conference 4 (the Vendor Support Conference). Your messages to vendors are answered at least weekly by the supporting vendors, and you have direct access to their technical and sales staff. For a current list of vendors, Join conference 4 and type NEWS.

We know that we can't possibly cover everything in this short guide, so feel free to ask questions- either on-line (as a comment to the Sysops) or on our technical line (213-6001). Please don't call the sales lines with system related questions.

INFORMATION SERVICES

CRS is a leader in the provision of information services at a fixed fee. The following are available to you in conference 39. You must be registered in (and have paid an extra fee) to access conference 39.

Here's what's currently available to you:

News And Information Publications

Newsbytes - Current Computer News and Information - (Updated Mon-Fri)

Newsbytes is an electronic publication available five times a week. Through a network of international correspondents, Newsbytes provides you with latest happenings in the world of computers. The local Newsbytes reporter, Grant Buckler, provides Newsbytes with Canadian Happenings.

Toronto Computes Newspaper - (Updated monthly)

Appears here at approximately the time it is sent to the printers for printing. Toronto Computes covers the local world of computer happenings, but also provides a window across Canada. No ads, but the entire editorial coverage is here.

Denver BoardWatch Magazine - (Updated Monthly)

BoardWatch is an electronic magazine published by Jack Rickart. Oriented towards telecommunications, it often provides BBS information not available any place else.

UPI Wirefeed (updated continuously)

A one hour time delayed feed directly from United Press International. Approximately 4 megabytes per day of news are moved over this wire feed. It's available to you in conference 39, door 59 or conferences 2381-2490.

Reuters Wirefeed (updated continuously)

A one hour time delayed feed directly from Reuters Financial Services. This wirefeed covers financial information and is moved into conference 39 by typing "reuters", through door 60 or conferences 2369, 2370 and 2380.

Stock Market Results

Currently available are over 14000 common stocks from seven difference stock exchanges. (High, Low, Close and Volume). We update these daily at approximately 5:45pm, with the closing prices. See later section for more details.

Archival CD-Roms

CD-ROMS

A multitude of on-line information is available in our Information Services package, including the Canadian Encyclopaedia on CD-Rom, Family Doctor, World Book of Facts and Shakespeare on disk. See later section for more details.

HOW TO USE CD-ROMS

General Introduction:

In May of '91 CRS Online announced the addition of CD-ROMs to its list of Information Services. Since then the Family Doctor (1500 common medical questions with straightforward easy to understand explanations) Shakespeare on Disk and the CIA World Fact Book have been added. We expect to be adding the Canadian Enclyclopaedia on CD-Rom in June 1993.

Limitations:

There are a few limitations that as a user you should be aware of before trying to use the CD-ROMs. None of these limitations affect the value of the service, but if you are unaware of them, you may find them to be quite annoying.

1) Some of the CD-ROMS have VGA graphics; these are unavailable due to the type of interface used for accessing the CD-ROMs.

2) All of the CD-ROMs provide facilities for saving and printing information located by your searches, however the files are not directly sent to your disk drive or printer. When you make a request to have the data printed or saved it is actually saved as a file on a hard drive located at CRS. At the end of your session with a particular CD-ROM, a menu will pop up that will allow you to select and download any of the articles you have requested. Once you have downloaded the articles of interest you may do with them what you wish (keep in mind that all articles are covered by standard copyrights).

3) CRS has placed two limitations on the CD-ROMs. They both deal with the amount of data a single user can access. The first one deals with the amount of disk space a user is able to use on CRS' hard drives. This limitation has been introduced so people that are unfamiliar with the CD-ROM services don't end up requesting that the entire database be saved for downloading and causing CRS to run out of disk space. The second one deals with a limit on the amount of data a user can actually download. At this time the limit has been set to 100 kilobytes. This limit exists simply because CRS would like to avoid unnecessary problems with the distributor of the CD-ROM should they feel users are downloading the data down in large volumes. While many distributors feel that it would be of some advantage to have their CD-ROM visible to 9,000 computer users, they don't want to see a loss in revenue due to it being available on such a service as CRS.

4) While CRS enjoys adding such interesting services as the CD-ROMs we make no guarantee as to the functionality of the service nor to the continued existence of any particular CD-ROM. We strive to maintain a fully functioning CD-ROM capability, but (as with so much here), we're pushing the state of the art, and the operation of the CD-ROM's is sometimes fragile.

Getting Started:

The CD-ROMs share several things in common in terms of how they are accessed. First, all information services are located in conference 39 (J 39). Since PCBoard doesn't and couldn't be expected to know how to handle CD-ROM information services, you will need to OPEN a door to access the CD-ROMs. Below is a list of the CD-ROMs and the door you will need to open to access them:

16 for the Family Doctor
18 for the World Fact Book
19 for Shakespeare

After a few seconds the system will display a screen similiar to the following:

CIA World Fact Book.

CRS Online.
Installed Aug 6th/1991.

Welcome to the CIA World Fact Book, before

When using this information service make sure that your communications software supports ANSI Graphics. The use of a communications package that supports DOORWAY mode is also recommended, but not necessary.

Options
1) Enter the CD-Rom.
2) Return to the BBS.

Which one? (1/2)

There are two terms used above that may be unfamiliar: ANSI Graphics and DOORWAY. ANSI Graphics refers to the ability of your communications package to support the sending and interpretation of certain character sequences that tell your communications package how to change the colors, clear the screen, and position the cursor. ANSI Graphics does not mean the ability to show GIF pictures or draw pretty pictures on the screen of your computer.

DOORWAY is a mode that your communications package can enter that will allow you to use certain keystrokes not usually supported while in a telecommunications package. For example: ALT-F (holding down the ALT key while pressing the F key) is a keystroke that does not belong to the ANSI Graphics terminal emulation, but under DOORWAY is able to be transmitted. Currently there are three telecommunications packages that support DOORWAY mode, Telix (for IBM compatible computers), QModem (IBM compatibles), and JR-COMM (for the Commodore-Amiga line of computers). If you are not using one of these communications packages it does not mean that you will be unable to access the CD-ROMs, just that it will require different keystrokes to be used to execute the same commands. These keystrokes will be listed at the end of this article for

convenience and while reading this article NON-DOORWAY keystrokes will appear in parentheses '()' right beside their DOORWAY equivalents.

If you are using one of the communications packages mentioned above you would need to enter DOORWAY mode at this point. In Telix and Qmodem the command to enter DOORWAY mode is "ALT-=". After enabling DOORWAY mode you will then choose option '1' from the screen shown above followed by a 'Y' to enter the CD-ROM and inform it of the fact that your communications package supports DOORWAY mode. If you are not using one of the packages mentioned above you will choose option '1' followed by a 'N'. This would enable the CD-ROM to be accessible in NON-DOORWAY mode.

Once you've entered your choices the CD-ROM database software will be loaded. At this point each of the CD-ROMs are accessed differently. Depending on which CD you are trying to access you may wish to skip certain sections of this article.

A Brief Description of the CD-ROMs:

The Family Doctor CD-ROM contains advice and information to over 1,500 commonly asked medical questions. Family Doctor also contains Health Update Booklets with detailed information regarding the most common health problems, names and addresses of support groups and informational resources and complete data on over 1,600 prescription drugs from Consumers Guide to Prescription drugs.

World Fact Book carries a wealth of information on different countries of the world. Such tidbits vary from the country's literacy rate to what import and exports can be found in that country. It's really quite an impressive body of data.

Shakespeare on Disc. If I had only had this when I was in school! Full copies of every play and poem that Shakespeare every wrote are available from this CD-ROM in both American English and Queen's English versions. Shakespeare on Disc would be a valuable resource to anyone that needs to find references to characters or incidents that happened within any of his works.

Using the CD's:

When you enter one of the three CD-ROMs listed above, you will be shown a welcoming message and asked to press ENTER (ENTER) to continue. After the welcoming screen you are placed inside the retrieval software. At the top of the screen will be a pull down menu containing such options as Search, Browse, Contents and Database.

Database Searching:

Finding a particular piece of information is a easy as choosing the Search option from the pull down menu located at the top of the screen. The cursor keys (CTRL-S, CTRL-D,CTRL-X and CTRL-E) will allow you to move around the menu and ENTER (ENTER) can be used to select an option.

The search function is broken down into four different categories:

Search every word contained in the database
Search only by the the authors name
Search by the subject of an article
Search by the title of an article

Note: depending on which CD-ROM you have choosen, not all of the options described above may be available. i.e. A search by the authors name in Shakespeare on Disc would be of no value, so that menu option has been made unavailable.

Once you have selected the type of search wanted, a new window appear asking you to supply the criteria for locating the article of interest. The CD-ROMs will allow you to supply up to 7 pieces of data, each item being seperated by a boolean operator.

For example to search for "chickenpox and children" in the Family Doctor CD-ROM you would enter:

Type: Chickenpox(ENTER)
The display will show: [AND]
Press: ENTER to use the boolean AND function, or the SPACE BAR to
select a different boolean operator
Type: Children(ENTER)
The display will show: [AND]
Press: ENTER to use the boolean AND function, or the
SPACE BAR to select a different boolean operator
Press: ENTER again to inform the software you are finished
with entering the criteria

When finished the display should look something like this:

Use: CHICKENPOX_____
[AND] CHILDREN_____
[AND] _____

_____
_____
_____
_____

Next you'll see yet another window open, this one containing a list of the articles found matching the criteria. Use the cursor keys (CTRL-S, CTRL-D,CTRL-X and CTRL-E) to move around the menu and press ENTER (ENTER) on the article you wish to view.

While Viewing an Article:

When viewing the article you'll find that the cursor keys (CTRL-S, CTRL-D, CTRL-X and CTRL-E) are active and can be used to scroll through the article. If you decide that you would like to save copy of the article, just press the F8 (CTRL-C) key. You will be prompted to enter a filename. YOU MUST prefix the file name with B: in order to save a copy of the text. Please refer to the section "DOWNLOADING SAVED ARTICLES" for more details.

Pressing the F3 (CTRL-N) key will cause the next article in the list of ones found matching you criteria to be displayed. The F10 (CTRL-T) key will cause the screen to display the area of text where the next match of the criteria was met to be displayed. SHIFT-F10 (CTRL-B) will cause the software to display the previous

match.

Taking a Look Around:

Another way of checking out what is on the CD-ROM is to use the Browse feature from the main pull down menu. This feature like the search feature has four sub-functions, which describe what part of the CD-ROM is to be browsed. Once, a method is selected a window will appear listing the contents of the CD-ROM with the number of occurances for each entry. A quick way to check for a particular entry is to enter part of the text that would be found in that entry. Likewise, full cursor key support is available.

Contents:

This area will change dramatically for each CD-ROM. For instance, World Fact Book uses this area to provide information on each contient, whereas The Family Doctor places the Consumer Guide to Prescription Drugs in the area. No matter which CD-ROM you are using, everything should be quite clear as to what to do.

Exiting the CD-ROM:

When finished with the CD-ROM place yourself back at the main menu and select the option Change/Exit. From there choose the Exit option. If you have saved any articles they will be made available to you for downloading at this point.

Summary of Key Commands:

DOORWAY and NON-DOORWAY Commands are listed below:

Option/Command	DOORWAY Keystroke	NON-DOORWAY Keystroke
FIND LAST OCCURANCE	Shft-F10	CTRL-B
FIND NEXT OCCURANCE	F10	CTRL-T
SAVE ARTICLE	F8	CTRL-C
NEXT ARTICLE	F3	CTRL-N
RESTART SEARCH	F2	CTRL-R

Cursor Controls:	DOORWAY Keystroke	NON-DOORWAY Keystroke
Up	Cursor UP	CTRL-E
Left	Cursor Left	CTRL-S
Right	Cursor Right	CTRL-D
Down	Cursor Down	CTRL-X
Insert	INS	CTRL-U
Delete	DEL	CTRL-J
Home	HOME	CTRL-I
End	END	CTRL-K
PageUp	PAGEUP	CTRL-O
PageDown	PAGEDOWN	CTRL-L

Downloading Saved Articles:

If you have saved any articles while using one of the CD-ROM information services, you will be displayed a menu that will list all of the files available for downloading. To select or deselect a file from being transferred, enter the corresponding file number followed by a return. Should you find that you had saved more that nine articles use the cursor keys or their matching NON-DOORWAY counterpart to scroll through the list.

Entering the letter "T" will allow you to change your transfer protocol. The CD-ROM services support three protocols: Xmodem, Ymodem (Batch), and Zmodem (Batch). The door will automatically check which protocol you use when inside the CRS BBS; if it finds that you have a protocol selected that it does not support the door will immediately ask you to choose one that is supported.

Pressing escape with no files selected will cause the service to return you to the CRS BBS. Pressing escape with any file selected will cause the door to begin transferring the file after confirming that you are ready to receive the file.

With any luck the CD-ROMs will have become somewhat easier to use after reading this article. If you find there are questions that still remain unanswered, post a message in conference 39 (INFOSERV). Another subscriber will probably be more than willing to give you the answer.

CRS ONLINE STOCK DOOR

CRS offers you (as part of our information services) an after hours feed of closing stock prices. There are 7 exchanges available as follows:

Toronto	Prefix "T"
New York	Prefix "N"
Composite	Prefix "3"
Nasdaq	Prefix "4"
Montreal	Prefix "M"
Alberta	Prefix "C"
Vancouver	Prefix "V"

Stock symbols used are those used by each exchange. While we have a cross-reference here, it would take hundreds of hours to turn it into computer form for you, but any stock broker should be able to provide you with a Symbol Table. We use the Dow Jones/Telerate service at CRS Online.

Using The Stock Door

Using our Stock Door is easy - Just <J>oin Conference 39, OPEN 61 and you'll be in it. The door can hold approximately 100 symbols for you, and once stored, your portfolio will be held for you so that you don't have to update it daily.

There are very few commands for the door:

$ - Displays the closing value for your personal stock portfolio. This portfolio is one that you create with the + command, and it will be retained until you change it.

= - Sends the closing value for your personal stock portfolio to a file for later downloading. You cannot download directly from this program, but on returning to the CRS BBS, you'll be able to download your personal file.

+ - Allows you to create or edit a stock portfolio. You have 10 lines to place your information on, and may place as many symbols as will fit on a line (separate each one by a space). The rules for these symbols follow.

You may request any quote just by entering the appropriate symbol. You may enter the full ticker symbol - or a wildcard. Symbols used are those of the exchanges involved, which are not necessarily the same as those published in the newspaper. Consult your stock broker for symbol tables.

Examples:

Single Stocks	Toronto IBM	Symbol	TIBM
	New York IBM	Symbol	NIBM
	Composite IBM	Symbol	3IBM

Batches of Stocks	All TSE starting with A	TA*

Our stocks are updated at approximately 7:30pm and 10:30pm. We currently bring in over 11,000 stock symbols, and it does take a while to get it all done.

If you wish a full listing, this is available for downloading. Currently, the file is about 90K zipped, and can be downloaded daily as STOCKS.ZIP. Prior day versions are available in conference 39, file area 10.

CRS FAXMAIL SERVICE

CRS offers its subscribers a complimentary outgoing FAX service to exchanges local to Etobicoke. We're pleased to announce that this gateway will now take uploaded files and include them in your fax.

To Send A Fax

a. Join Conference 106 - Fax Traffic is sent only from conference 106.

b. Compose your fax as follows - i.e.

> i. Address it to FAX GATEWAY in conference 106
> ii. Make the first line of your message: TO: xxx-xxxx
> iii. Leave the second line of your message blank (put a few spaces on the line)
> iv. Use the next 98 lines for your fax text.

To Include A File In Your Fax:

a. Upload it in the normal manner to conference 106. It will arrive here as a private upload.

b. Compose your fax as follows - i.e.

> i. Address it to FAX GATEWAY in conference 106
> ii. Make the first line of your message: TO: xxx-xxxx
> iii. Leave the second line of your message blank (put a few spaces on the line)
> iv. Use the next 98 lines for your fax text.

c. At the point in your message where you wish to include your file, just say:

   "/*INCLUDE: filename"

Your file will then be automatically included in your fax. Your file should be straight ASCII text. The gateway does not have the ability to handle graphics or word processor files.

Faxes may be sent to any exchange that is local to CRS in Etobicoke. Bell Canada is constantly adding new exchanges. If there's one that you know is local to Etobicoke that the FAX GATEWAY cannot reach, just leave a comment to SYSOP and it will be added.

PLEASE NOTE -

a. Faxes are sent from the Gateway approximately every 10 minutes. You will not receive a confirmation that your fax has been successfully sent.

b. Incoming Faxes are not supported by CRS Online.

c. There is no charge for this service.

COMMERCIAL AREAS

We'd like to take a few minutes to highlight some of the new and interesting Commercial Conferences on CRS Online.

These Conferences are open to all CRS subscribers, so feel free to go in and browse around.

TAXATION, MANAGEMENT, AND ACCOUNTING - CONFERENCE 69

Moderated by Mr. Keith Doxsee, C.A., this conference has been set up for both individuals and small businesses to ask for information on important financial items. If you have questions about taxes, small business management, or accounting, feel free to oin Conference 69 and pose a question to Keith. Keith is a Chartered Accountant of long standing, and has kindly agreed to address these issues on CRS.

COMPUBOOKSTORE - CONFERENCE 71

Mr. David Chen, owner of CompuFamily Inc. is the proud sponsor of this new endeavour on CRS. His motto of "Any Book, Any Time, Any Place", reflects his goal of making available almost any computer-related book to CRS subscribers. Go into Conference 71 and look around. The Conference Bulletins provide most of the information on how to utilize this new service. He has available for sale many thousands of computer books - and offers the vast majority of them to CRS subscribers at a price lower than that of most regular bookstores. His discounts range up to 27.3%, and convenient pickup or delivery can be arranged! Leave any queries or messages to COMPUBOOK STORE. So, if you're looking for a book on WordPerfect, on a programming language, or on almost any computer-related topic, please give David's new service a try!

INTERNATIONAL CONGRESS OF BUSINESS COUNCILS (ICBC) - CONFERENCE 29

This new conference has been set up for the subscribers of the ICBC, a group that exists to facilitate business networking opportunities between small businesses. It will be used mainly to exchange business leads, and will facilitate communication between the various subscribers of this association. Any CRS subscriber is welcome to go on in and browse (ie - read messages), but only ICBC subscribers may leave business leads in this Conference. Mr.Greg Warren in the Conference Moderator, and will be happy to tell you all about the many other advantages of becoming an ICBC subscriber.

EDUSERVE - CONFERENCE 65

This Conference is proudly moderated by Mr. Paul Shuster. Designed to be a meeting place for all types of educational institutions, this new area is already collecting its following of regular contributors. Calling in regularly from Ottawa, I'm sure Paul will be happy to pass on any information he can about his goals and objectives.

EDPAA/ISSA - CONFERENCE 72

We're very pleased to welcome the subscribers of the Electronic Data Processing Auditors Association (EDPAA) and the Information Systems Security Association (ISSA). Recently having migrated to CRS, this Association Conference is moderated by two individuals - Mr. David Rostoker and Mr. Ed Ing. These organizations exist to spread the word about security, virus, and electronic auditing issues. Join Conference 72, and look at some of the bulletins for more details on these two groups!

PENSION COMMISSION OF ONTARIO - CONFERENCE 149

The Pension Commission of Ontario has made available through its on-line conference, most of its policy materials. Recent news bulletins are also made available. For more information, join confernece 149 and enter "menu" to see what is available.

CANBUILD, THE CONSTRUCTION CONFERENCE ON CRS - CONFERENCE 36

Moderated by Mr. Steve Hartwell, an Estimator by trade, the CANBUILD Conference is dedicated to the Construction Industry. If you need information on almost any type of do-it-yourself or construction-related issue, Steve and the regulars in Conference 36 will be happy to help you out.

USENET

Introduction

The birth of USENET happened in 1979 when two grad students at Duke University in North Carolina decided that they needed to be able to exchange information. The original implementation of the USENET Software was written as UNIX shell scripts, which resemble DOS batch files. During 1980, the USENET Software was rewritten in C and debuted at the conference of UNIX professionals. It was at this conference the Network was given the affectionate name of USENET. In twelve years the Network has grown from two computers to a network of approximately 30,000 computers, with a daily readership of over 15 million people worldwide.

Since its creation, the network has allowed people from the areas of research and development, education, commercial business, military, and hobbyists to come together and exchange their views and help each other with problems they may be experiencing within an "infinite" number of topics. At this time USENET contains over 2400 different topics.

Access to information such as commercial product updates, newsbriefs on research projects, the ability to obtain the views of people around the world on just about any topic under the sun, and technical help are available at the touch of a button. But with any connection between two different services (software) there are adjustments.

One of the major differences between USENET and CRS Online is in the software used. CRS uses a package called PCBoard for its callers. It imposes a 99 line limit when entering a message, whereas the UNIX software allows messages up to a size of 64 kilobytes. Another difference is how messages are entered on CRS; unlike the PCBoard based E-Mail networks, messages that are to be sent out via the PCB/USENET Gateway require additional information - an EMail address. An EMail address is similar to the postal address at your place of residence. Your address for EMail via the USENET Gateway is the following:

Firstname.Lastname@canrem.com

For example: If your login on CRS was John Doe, your USENET Email address would be: john.doe@canrem.uucp. What the "@canrem.com" tells the person sending mail to you is that you are a user at the site "canrem" (CRS Online) which belongs as a commercial subscriber to the electronic mail network. There are several other mail networks that are accessible through the USENET Gateway, which include CompuServe, MCI Mail, Bitnet, Internet, FidoNet, and few others. Sending mail to these networks will be described a little further on.

Now before continuing on with how to enter a message to a person on USENET, there is one more difference between USENET and PCBoard that needs to be clarified. That is, the difference between public messages on USENET and CRS. On CRS when a user wants to read public messages, he or she only needs to 'join' the conference of interest; the same is done on a UNIX system except it is called a "newsgroup". The difference between the two only crops up when private mail

enters the picture. A conference on CRS has the ability to contain both private and public messages. USENET newsgroups do not have this ability; they draw a more dramatic line between public and private messages. Public messages are posted to a newsgroup, while private mail is sent to a specific user. Please keep in mind the incongruency between the way private messages are handled on PCBoard mail networks as compared to USENET mail network.

USENET uses a point to point mailing method whereas PCBoard mail networks send a copy of the private message to all systems that talk to each other. What this means is that if two people have the same name on PCBoard mail network both will be able to read the message; this will not happen if sending private mail via USENET. This is why an address is needed before being able to send private mail to a user on USENET.

Sending A Public Message

When reading USENET public messages - which will be referred to as newsgroups for the rest of this article - and you wish to respond to it with everyone being able to read your message you'll need to use the following:

I) Choose 'E' (for 'Enter' as message) from the PCBoard menu.
II) When prompted for who the message is TO, enter "ALL".
III) When asked for a subject, precede it with "UN: ". (The space is necessary)
IV) When asked if you would like echo the message, enter "Y" (YES). V) Begin entering your message.

NOTE: If your message will not be seen as of interest to everyone reading that newsgroup, please send a private message instead, to the specific user.

The following is an example of a public message posted in a USENET Conference:

Main Board Conference Command? J U-ONTTEST

U-ONTTEST Conference Command? E

TO (enter=ALL)? (ALL)
SUBJECT (enter=ABORT)? (UN: This is a test.)
Echo Message? (Y)

1)This is just a test message.
2) (A,C,D,E,I,Q,S,S,SN,SC) Text entry command? sn

Your message will be sent out by the USENET Gateway within the hour.

Sending A Private Message

Private messages can be entered in the main conference, conference 104 (U-REPLIES), and any USENET Newsgroup. (Writers Note: I recommend using conference 104, so that you can keep track of your private mail easier.) As stated above you'll need to have the receiver's address before you'll be able send private messages. This is not a big problem because every message be it private

or public will contain the original sender's EMail address. Once you have the receiver's address you will enter the message using the following format:

I) Choose 'E' from the PCBoard menu.
II) When prompted for who the message is TO, enter "USENET GATEWAY".
III) When prompted for a subject, enter the subject of the message. IV) When asked for the message security, enter "R" for receiver only. (This is not needed if you enter the message in conference 104.)

V) Set the echo flag to "N" for no.
VI) The first line of your message should have "TO: useraddress"
VII) Place a blank line between the user address and the first line of your message. Use the space bar to make sure that you have a blank line.

The following is an example of a private message posted in USENET Conference 104:

Main Board Conference Command? J 104

U-REPLIES Conference Command? E

TO (enter=ALL)? (USENET GATEWAY)
SUBJECT (enter=ABORT)? (This is a test to Joe)
Echo Message? (N)

1)TO: joe.smith@canrem.uucp
2)
3)This is just a test message.
4)
5)Thanks,
6)Michael.
7)michael.macdonald@canrem.uucp
8) (A,C,D,E,I,Q,S,S,SN,SC) Text entry command? sn

Your message will be sent out within the hour.

Site Addresses

Now that we have handled how to enter private messages you probably want to know how to interpret the many different E-Mail addresses. The following is a list of the several addresses and the corresponding network it is used with:

Format   Example

1) SITE!USER canrem!michael.macdonald or cunews!carleton.ca!victor.kamutzki
This was the original method used to send private mail on the USENET mail network. It required the sender know every site the message had go through to get to the destination. This method is known as the "bang path method". A bang refers to the exclamation mark used to separate the pieces of data in the address.

2) USER@SITE Michael.MacDonald@canrem.com

This is referred to as the smart mailing method, because of the fact a user does not need to know the entire bang path to the receiver. It was originally used with the Internet Mail network, but it is currently being adopted - if it hasn't been already - by most USENET sites.

3) USER%SITE@VIA-SITE Michael.MacDonald%canrem@telly

This method is primarily used when a direct path to the receiver does not co-

operate. For instance: Lets say LSUC (Law Society of Upper Canada) ran into some difficulty handling your message, it could be sent indirectly via another stop. The example above tells the sites handling your message to send it to the site TELLY first, then direct the message to the site CANREM.

4 a) #####.####@COMPUSERVE.COM 74534.7234@compuserve.com

Use this method when you want to send private mail to a personal account on CompuServe. The "#####.####" refers to the account of the receiver on CompuServe with the comma changed to a period.

b) USER@ORGANIZATION.COMPUSERVE.COM Joe@borland.compuserve.com

The method is used when you need to send private mail to a company that has an account on CompuServe.

5) ####@MCIMAIL 2344@MCIMAIL

When sending mail to an account on MCI's EMail service.

6) USER%SITE.BITNET@GATEWAY-SITE VKamutzk%carleton.ca.bitnet@cunews This method is actually the same as method three except it explicitly mentions the fact that the message is bound for a user on the BITNET EMail network. The GATEWAY-SITE refers to a system that is able to convert messages from a USENET system into a format the BITNET systems can handle.

7) FIDONET USER@P#.F#.N#.Z#.FIDONET.ORG James Dean at the FidoNet Site 1:350/12.2 would become: james.dean@p2.f12.n350.z1.fidonet.com For sending mail to users on the FidoNet mail network.

Common Usenet Terms

With the introduction of CRS Online's connection to the USENET world, subscribers who are interested in using this may find it helpful to know some of the more commonly used terms. What follows is a list of terms often used when referring to the USENET EMail network:

DOMAIN: A method used to break up geographical areas or topical areas. Examples of geographical domains are: ON for Ontario and CA for Canada. Topical areas include: COM for Commercial Organizations, EDU for Educational sites, and ORG for non- profit organizations.

GATEWAY: A program or system setup to handle the mingling of messages between two non compatible EMail Networks.

MAILER-DAEMON: The program responsible for directing messages. Users usually never see anything from this program except when a message turns out to be undeliverable (often referred to as bounced messages).

SITE: Site refers to a system able to handle and process USENET messages or one of the deviations of it. A site can be made up of the following information: SITE = (MACHINE.) SITENAME (. (SUBDOMAINS.) DOMAIN)

UUCP: UUCP is actually an acronym for Unix to Unix Copy Program. It is the actual program used for transferring messages between two UNIX sites.

We hope this article has helped in solving some of your questions about USENET. If you find that there are some questions left unanswered by this document, we would like to recommend the following: Download the file USENET.CRS; it contains a list of the newsgroups available on CRS from the USENET Gateway. Download the file USENET2.ZIP; this document was compiled by CRS subscribers (Thanks Jack) and should answer just about any questions you may have. If you find that more information is required leave a message in the USENET Support conference (#8), where we and several knowledgeable subscribers will try to answer your questions.

HOW TO GET HELP

By Modem:

Call our systems and go to conference 9 (technical/help conference). You'll find a series of bulletins and messages covering most common system problems. If you still can't resolve your problem, leave a <C>omment to the Sysops.

By Telephone:

Call our technical line at 213-6001. It's staffed by our tech staff between the hours of 1pm and 7pm Monday to Friday.

In Person:

CRS provides free seminars on a variety of topics including a new users seminar and an advanced seminar. Check the newsletter or the online news or call the office (213-6000) for a current list of upcoming seminars.

CRS Online HOURS

Office/Tech Support Hours

Sales/Administration Line: 9:00 am - 5 pm   Monday - Friday

Technical Support Line: 1:00 pm - 7 pm   Monday - Friday

Office and Voice Phone lines are closed Saturdays, Sundays and Holidays. The systems operate 24 hours a day, 7 days a week except for scheduled downtimes.

If you have a problem relating to a crashed node, call the technical support line 213-6001.

TELEPHONE NUMBERS

Office & Technical Support

Sales/Administration: (416) 213-6000
1-800-563-2529

Technical Support Line: (416) 213-6001

Fax: (416) 213-6038

CRS PCBoard/Online System Lines:

300/1200/2400/9600/14,400/16,800: MNP2-5/USR HST/V.32/V.32bis 213-6002 or 213-6003

Hayes V9600/V.32   213-6006
Telebit Trailblazer   213-6032
CompuCom Speed   213-6007

Out of Town Lines

Brampton (to serve Georgetown) * 874-3001
Burlington/Milton *   681-4048
Hamilton/Stoney Creek/Dundas *   572-7773
Oshawa (to serve Oshawa/Bowm) *404-2021
Newmarket *   836-4074
Barrie *   (705) 737-4215
Hespeler (Kitchener/Waterloo) *   (519) 651-2408
Moonstone (Orillia/Midland) *   (705) 835-7015

(*) Supports 300-16.8K baud with USR HST/V.32/V.32bis modems.

iNet 2000   ACCESS CRS
Datapac (for NUI Users) 43700818

CRS UNIX BOX LINES

T2500 - PEP/V.32   213-6004
Trailblazer+ - PEP   (call CRS)
2400 Baud   (call CRS)

Phone lines are changed from time to time. Check Bulletin 1 ON-LINE for the most current list of phone lines.

PASSWORDS

Passwords are yours and yours alone. While we may assign an initial password (if you haven't indicated a choice), you should change that password with the "W" command as quickly as possible.

We have run into 3 or 4 instances recently of users finding that their passwords have been changed. As best as we can tell, these users used the same password on other systems. We don't recommend that you do so. Keep your CRS password confidential and unique.

We also suggest that you use the "W" command from time to time to change your password...... If you haven't done so for a while, please do so now.

USER REQUESTED UPLOADS

Due to the high volume of users, we cannot deal with individual USER REQUESTED UPLOADS. If a file is not available on-line, it is not likely to exist here at CRS. We simply don't have the human resources to go out and search for individual files for you.

However, PCSIG and PCBLUE disks are ALWAYS available. To access these, you'll need to open door 70 (or 71) to mount our CDROM, and then access the files in the normal way. PCSIG and PCBLUE disks are available only from conference 2.

24 HOUR CLOCK

Your subscription entitles you to a certain amount of time on-line per day, on an as available basis, and in most cases, you'll have no problem in achieving this time on-line each and every day should you so wish.

However, the time calculation in PCBoard isn't perfect, and if you are on the systems at midnight, some strange things will happen.

Here's how it works -

PCBoard maintains 2 pieces of information in your user record, namely your last date on and the time used for that particular day. The time used is cumulative, so if you make multiple calls, PCboard will simply add your session time to the previous counter.

At midnight, your counters will not be zeroed if you are on the system. Effectively, PCBoard will update your last date on to the current day (e.g. the day after midnight) and show your cumulative time for the session along with any time for yesterday's session. The net effect is that you'll lose time for the current day.

The answer is simple - log off before midnight and log back on after midnight. That way, the counters will be properly updated.

CRS time is set daily from the National Research Council Atomic clock in Ottawa, and our time is normally accurate to 2 seconds. Don't second guess us. If you want to ensure you have your full time the next day, log off before midnight.

SHUTDOWNS AND MAINTENANCE

Like any major system, CRS must shut down from time to time for maintanence, backup and upgrading. Here are our scheduled shutdown times:

12:00pm - 12:45 pm - Daily - for backup/system logs/etc
10:00am - 3:00 pm - Tuedays - for scheduled maintenance

Note that if you log on between 10am and 12pm, your available time is automatically reduced to the amount available before 12pm. You get it all back after the shutdown. Other shutdowns occur as required. They will typically be of relatively short duration and to the extent possible, we will announce them in advance where possible.

Remember, we are running one of Toronto's Largest Novell Networks, and while our uptime is greater than 95%, we cannot guarantee that we'll be up all the time.

INET/DATAPAC USERS

We run our systems into an EDA 8 port pad, giving you access to
4 systems through our iNet/Datapac address. Here are some tricks about iNet -

a. Make sure that you have a program that supports YMODEM protocol. Most of
the popular ones do. Telix, Qmodem, Flash, Red Ryder 10.0, Procomm, and MEX
all have Ymodem protocol. Ymodem protocol transfers packets of data 1024
bytes at a time, rather than 128 byte blocks. This means that the overhead on
iNet/Datapac is much less, and you'll achieve 1000-1100 baud without difficulty.
When using YMODEM, select YMODEM protocol as your transfer protocol at our
end (using the command to set it), and then choose a similar protocol at your end
(this may be called YMODEM, 1K Xmodem, or something of that nature).

If you don't use YMODEM, your effective throughput here will be no better than
400-500 baud.

b. Interactive messaging, due to the echoing back from our end, is very slow. No
fix in sight. PCBoard requires full duplex due to screen wrapping, and we can't
change to half duplex. The slow interactive messaging is just something you'll
have to learn to live with.

c. If you find that you're dropping back to the iNet menu for no apparent reason,
change your escape character from / to something unusual (we use a ~). You do
this from the main iNet menu (personal parameters). That should solve most of
your problem, although iNet will occasionally get confused no matter what.
We don't advise using 2400 baud. 2400 baud on iNet can incur a 'bulk transfer
charge', which is not mentioned in any of your iNet documentation. This charge
can be up to $70/hour. You'll never encounter it at 1200 baud.

We know that there are problems in iNet. Over the years, we've tried to eliminate
most of them, but haven't got them all.   Sorry for the inconvenience. You are
being charged, by iNet, an amount that's considerably less than what it would
cost you for the dial up lines......I guess the problems we encounter are the price
we pay for 'cheaper transmission charges'.

REACH ACROSS CANADA

If you've signed up for our "Reach Across Canada" program, then you've been issued a Datapac Network User ID (NUI) by us. With this NUI, you can reduce your access charges to as low as $4/hour (depending on time of day, location and bytes transferred).

To access CRS with your NUI:

a. Call your local Datapac # - it's in your phone book, or you may call our office for the port nearest you.

b. After establishing carrier with Datapac, enter .. <<cr>>

c. Datapac will respond with an 8 digit #. The # is not important.
d. Then type: NUI "yournui" <<cr>>
Leave a space between the I and the first letter of your NUI. You received your NUI from CRS and it's typically a 6 character code.

e. Datapac responds: XXXXXXXX

f. Type your Password

g. Datapac responds: NUI yournui active

h. Type: 43700818 <<cr>> <<cr>> and you'll be on CRS.

It's simple, but you must be precise. If you have problems, or for more information, call our technical staff at (416) 213-6001.

CRS Conferences

Remember - if you're looking for certain topic, you can use the

    J S xxx

command where xxx is the text you're looking for.

This is a full conference listing of the conferences available to you on CRS Online. To join any conference, just type J xxx where xxx is the conference #.

COMPUTER AND FILE SPECIFIC CONFERENCES - All software (files) resides in the computer specific conferences only.

Other conferences are messaging only and will contain no files. These areas contain both messages and files. Use the <F>ile command to check the various file areas within these conferences.

```
Amiga .................5 | Adult.................35 | IBM (MS-DOS) ..........2
Apple ................14 | C-64/C-128 ..........13 | Macintosh .............1
Atari ST ..............6 | CP/M ..................3 | Next.................105
                        | TPUG .................74
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---> NOTE - for users of the CRS USENET GATEWAY <------------

For a listing of the USENET Conferences available on CRS please download the file USENET.CRS from the Main Board Conference.

NorthAmeriNet
[Last Network Update - 09/15/92]

These conferences originate on CRS and their content and file structure is under the control of CRS. They are echoed to over 500 other systems around North America and provide a wide range of topics.

TECHNICAL SUPPORT CONFERENCES - CRS provides technical support to its members via these conferences.   Check these conferences for messages related to CRS specific problems/questions.

Qmail Support ....24 | Usenet Gateway.........8 | Technical/Help 9

GENERAL NANet CONFERENCES

```
A.I. Discussion.......47 | Business Oppor. Net.3394 | DTP...................15
Access/QMM ...........32 | Business/Finance......30 | Databases.............20
Amiga Reader Support..78 | Buy & Sell Ads........34 | Desqview Support......66
Assembly Programming.330 | C Language............45 | Diplomacy.............99
Astrology............126 | CAD...................21 | Disabled..............25
Atari Maximizer......333 | CD-ROM................96 | Disaster Recovery....348
Auto .................42 | CIPS................3452 | EDPAA/ISSA............72
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PRIVATE and/or SPONSORED CONFERENCES

CRS offers its members a variety of sponsored conferences.   You may wish to check these out:

29 - ICBC - International Congress of Business Councils

36 - CANBUILD - For those involved in or interested in the Canadian Construction Industry

65 - EDUSERVE - For Schools and members of the Education Community

69 - TAX/ACCOUNTING - Online tax and accounting help

71 - COMPUBOOKSTORE - Order books by computer

72 - EDPAA\ISSA Computer Security, Control & Audit
   EDP Auditors Association (EDPAA)
   Information Systems Security Association (ISSA)

3391 - MACWORLDEXPO -   MacWorld Expo is coming. If you're a MAC user, you'll want to check this conference from time to time. MACWORLD EXPO is, without doubt, the largest MAC exposition to happen in Toronto.   (Public Conference)

3392 - VISION2000 - VISION 2000 is a consortium of Canada's leading telecommunication companies, academia, research labs, and governments. It is tasked with responsibility of fostering and accelerating the development of new technologies in personal communications and information technology. Our members include IBM, Bell, BNR labs, DOC, MOTOROLA, etc etc   (Public Conference)

3450 - CMSI (Complete Micro Solutions Inc.)

Intelec Echo Mail Conference
[Last Network Update - 01/18/93]

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4DOS.................205 | C/C++................210 | Fantasy Sport........206
911/EMS.............3312 | CD-ROM...............181 | Firearms............362
ANSI_Art.............176 | CDC_Support.........3356 | ForSale New..........287
Adlib................262 | Chess................284 | ForSale............3311
Amiga...............3325 | College Life.........285 | GAP.................195
Animal Rights........177 | Comm...............3318 | GEOS...............3334
Aquarium.............208 | Compression..........172 | Games..............3341
Assembly Language....282 | Computer Security....192 | Gay.................230
Audio/Video..........283 | Cooking..............364 | Genealogy..........3343
Automated Comm.......203 | CorelDraw............173 | Ham Radio..........3322
Automotive..........3342 | Current..............165 | Hardware...........3335
BBS-Ads..............150 | Database............3328 | History............3344
BBS-Door.............161 | Deaf/HOH............3345 | Hobbies..............160
Batch................235 | DesktopPublishing...3316 | ISDN V.Fast..........288
Beatles.............3352 | Disabled.............186 | Issues/Debate.......3340
Beer&Wine............281 | Dr Who...............221 | JobMarket...........157
Bible Studies........178 | Drama................279 | Judaica..............167
Bicycling...........3331 | Ecology..............220 | LAN................3324
Boyan................168 | Entertainment........182 | LDS_Mormon...........200
Broadcaster..........164 | Family Humor.........286 | Laptops..............289


Legal...............3326 | Mystery..............292 | ProComm..............239
Library..............290 | NetChat.............3313 | Programmer.........3332
Lightning...........3354 | Netadmin (restricted)171 | Protocols...........294
Literature...........280 | Novell...............191 | Qedit...............251
MAC.................3327 | OCR Scanners.........293 | Qmodem..............166
MIDI.................175 | OS2..................245 | Quantum Leap........3353
MM-Rnet..............236 | Offline (QWK)........194 | Quarterdeck.........152
Magick...............154 | Online..............3355 | RPG-Play............3350
Martial Arts.........238 | Operating Systems....209 | Recovery............179
Medical.............3319 | PCboard.............3314 | Relationships........295
Men..................225 | POW.................3357 | Religion............183
Mensa...............3330 | Paranormal...........180 | Role Playing Games...196
Microsoft............184 | Parents..............198 | Rose................213
Military............3348 | Pascal...............153 | Rosereader..........211
Moderate............3323 | Pets and Vet.........159 | Rush Limbaugh........296
Modern_Tech.........278 | Photo...............3321 | SCA/Medieval.........189
Monty Python.........155 | Poetry...............215 | SLMR/OLX............197
Motorcycle..........246 | Politics.............185 | Science Fiction.....3337
MultiMedia..........291 | PowerBasic...........188 | SeaSport.............193
Music...............3338 | Printers.............151 | Shareware...........163


Silicon Frog........3346 | USR..................169
Small Business.......158 | Wildcat..............243
Smoking..............162 | Windowware...........201
SnowSki..............190 | Women................187
Software............3320 | Wordproc...........3333
Sparkware............277 | Writers..............359
SpitFire............3347 | ZDCS.................174
Spoilers............3329 | {Commo}..............170
Sports..............3317
Startrek.............207
Structure...........3351
Survivor............156
```

RIME Echo Mail Conferences
[Last Network Update - 02/26/93]

4DOS.................502	Astronomy............547	Brief...............1864
ACOA................1760	Atari ST.............564	Broadcast TV Sys.....406
ANSI Gallery.........514	Audio...............1767	Broadcast Tech......1768
ARJ..................656	Aviation............475	Broadcasting.........519
ASM Toolbox..........650	BBS Ads..............512	C64-128..............526
ASP.................597	BBS Digest.........1779	CAD.................555
Abortion............1968	BBS Issues...........572	CD-ROM..............1939
Adcampaigns.........1967	BBS Software.........567	CEE.................553
Administration.......439	Backalley..........1960	CNE.................1944
AlarmSecuri.........1947	Batch...............517	COCO Computer........588
Alt. Entnmnt........1794	Bbshphar............1950	COMMO Software.......577
American Dream.......419	Beer.................451	Canadian............408
Amiga...............594	Bible Study.........1778	Cancer.............1787
Animal Rights.......1785	Bicycling...........473	Caving..............1953
Anime..............1786	Bimodem.............531	Cellular...........1862
Apple...............558	Biology.............551	Chess...............563
Aquarium...........1792	Black Issues.........400	Chinese............1965
Archive............1869	Boating.............509	Clarion............1769
Arthur..............466	BosComSoc...........1940	Client Server........651
Astrology...........546	Boyan...............516	Clipper.............493
Comics..............453	Diplomacy...........550	File Search..........590
Common Net Mail......455	Directcomm..........1964	Finance.............460
Communication.......426	Disabled............452	Fine Arts..........1878
Comp. Rel. Writings.1857	Disney..............579	Fire Arms...........507
CompuComm............659	Doors...............457	Flight Simulator....1880
Computer Users.......582	EIS.................593	Florida.............658
CorelDraw...........417	EZReader............490	Florida_2..........1957
Cousard.............505	Education Issues....1765	FootBase............432
Cuisine.............454	Education...........513	For Sale............442
DBase...............532	EmerComm............405	ForestProd..........1951
DOS.................407	EmergMgt............1941	Forth Language.......584
DR Who..............556	Emergency Services...569	Forval Modems.......1781
DR-DOS..............665	Engineering.........508	Fox Network.........414
DTP.................436	Entertainment.......469	Fractals............500
Data Protection......518	Environment.........654	French..............1752
Deadhead............506	Fantasy NHL.........1793	GAP Doors...........409
Debate..............427	FastCOMM............560	GAP.................548
Dental.............1770	FaxMail.............402	GT BBS Software......583
Desert Shield.......1788	Feds...............1955	Gadgets.............497
Desqview............450	FemOnly.............1850	Gamble.............1865
Game Design.........524	Host44..............1751	MIDI................541
Games...............430	Hosts -PRIVATE.......528	MSI OLX.............412
GapMain.............1963	IBM Midrange........1795	MSI/QModem..........440

Gardens.............1761 | IBM.................438 | MSIWild.............1764
Gay Issues...........504 | IDC................1771 | Magick..............458
GeoPolRl...........1790 | IOmega.............1868 | Maildoor Vendors.....492
German.............1871 | Intellicom.........1774 | Main Frames.........499
Global Uplink........595 | Ireland............1945 | Major BBS's..........575
Graphics............1853 | Japan...............591 | MarkMail.............562
HAM.................429 | Job Bank............535 | Medical.............425
HDTV...............1756 | Kids................580 | Medieval...........1784
HIV/AIDS...........1872 | LAN.................459 | MegaMail............534
Handyman............498 | LE.................544 | Men's Issues........461
Hard Drives.........435 | Lantastic...........589 | Mensa..............1858
History.............481 | Laptops............1854 | Microsoft Word.......559
Hobbies.............542 | Laser Printers.......474 | Military............537
Home Schooling......1777 | Legal...............431 | Missing Kids........596
HomeHints...........510 | Lotus...............463 | Modem News..........1870
Homeopathy..........1780 | MAC.................471 | Motivation...........655
Horror..............503 | MASM................566 | Motorcycles.........571

Multitasking.........539 | Outdoors............484 | Poetry..............1759
Music...............472 | PC Addicts..........1766 | Police..............573
Musician...........1860 | PC-Fairs............410 | Political...........476
Mystery.............467 | PCB Hints...........521 | Prepress............652
NEC Support.........653 | PCBoard Support......413 | Preteens...........1755
New User............445 | PCRelay Support.....1750 | Private............1863
NewAge.............1956 | PCTools.............415 | Pro Wrestling........403
Nintendo...........1852 | PKWare..............448 | Procomm.............565
No Smoking..........585 | POW-MIA.............462 | Prodoor.............441
Norton Products......401 | Pagan..............1949 | Programming.........433
Novell Users........1782 | Paradox.............666 | Psychology.........1876
NovellUsers.........1966 | Parents.............470 | Pwrbdbbssup.........1942
OOPS................522 | PcbComm............1943 | QBasic..............488
OS/2................661 | Penpals............1879 | QEdit...............523
OSHA...............1763 | Pets................443 | QMM................1775
Offline Mail.........416 | Pharmacy............411 | QMail Reader.........482
Old Cars............1776 | Philosophy...........545 | R.C. Toys...........557
Omen................549 | Phobias.............1762 | RBBS................489
OmniView............495 | Phones..............660 | RBBSQWK.............657
On-Line.............540 | Photography.........434 | RBase...............520

Racing..............529 | Scuba..............1851 | Sunrisesoft.........1959
Recovery............485 | Semetary...........1954 | Sys4Sale............404
Relations...........570 | Senior Citizens......487 | Systems Analysis.....592
Religion............477 | Session Manager.....1753 | TP..................552
Remember...........1859 | Shareware...........446 | TQM................1962
Remote Access.......1758 | Shez...............1773 | Taglines............663
RimeNews............530 | SilentPC...........1958 | Tandy...............561
Robocomm...........491 | Small Business.......468 | Tax&Account.........1952
Role Playing Games...533 | Soap Operas.........1873 | Tech................423
Roots...............447 | Software Reviews.....422 | Teens...............449
Running.............527 | Sound Cards.........525 | Telemate............501
SCIFI...............444 | Spanish............1791 | Telix-Host..........1751
SOI.................581 | Spit Fire...........576 | Telix...............465
SQL................1874 | SpitMail...........1866 | Templates..........1772
SYSOPS.............420 | SpitSysop..........1861 | TradeWars..........1948
Satellite TV........515 | Sports..............424 | TrueCrime..........1946
Saudi..............1875 | Spread Sheet........486 | USR-HST.............421
Scanners...........1754 | Srchlight BBS.......1856 | USSR...............1877
Science.............456 | Star Trek...........480 | UltraBBS............479
Scouting...........574 | Strwargame.........1961 | Unix................511

EchoNet Mail Network Conferences
[Last Network Update - 09/29/92]

EchoNet is a local mail system, run with 1000BBS as the Hub. Echonet attracts considerable local attention, and is a very popular network. You won't see as much traffic in Echonet as in some of the other conferences, but what you do see will typically relate to local interest.

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AlsoLAN.............613 | Crimestoppers........599 | Leftys..............622
Arcade..............618 | Cuisine.............623 | Leisure.............602
Arts and Crafts......631 | Dungons & Dragons....600 | Moderators (*).......626
BBS Ads.............609 | EchoChat............617 | Role Play Conf.......606
Books...............627 | EchoFax.............619 | SCUBA...............603
Buy & Sell, Vendors..624 | EchoNet Admin........611 | Star Trek...........608
Buy & Sell...........601 | Environment.........610 | Teen Conference......605
Can. S/W Authors.....604 | Games...............612 | Virtual Reality......629
Canadian Education...625 | Graphics............614 | Windows 3...........615
Chatters............621 | Homebrew............628 | Women...............630
Chess Masters........607 | Intellicom..........632 | World Issues.........616
Collectibles.........620 | Journalism..........633
```

ILink Echo Mail Conferences
[Last Network Update - 01/19/93]

Ilink now offers over 200 conferences on a wide variety of topics. You can find discussion on both technical and non-technical interests. Support conferences for Qmail, EZ-Reader, Semware (QEdit), Boyan, Telix, AT&T, Hayes, 4DOS are read routinely by the software authors or company staff. Technical conferences cover topics such as Word Perfect, Hardware, Windows and Hard Disk. ILink has many discussion conferences, covering Writers, Opinion, Politics, Religion, Feminism, History, Chit-Chat, Cuisine, Athletics and other subjects.

```
!Hit!Hat............1799 | BookMarks...........1884 | Commo..............1731
4DOS................1689 | Boyan...............1629 | Compress............1716
AI..................1640 | Buerg_Utils.........1886 | Consulting..........1623
AIDS................1589 | Build A PC..........1919 | Country Music.......1890
ANSI-Art............1720 | Buy-Sell............1642 | Cuisine............1668
AT&T................1634 | C-Lang..............1616 | DOS-UseNet..........1918
AdmMeet1............1908 | CADD................1687 | DOSTips.............1702
Amiga...............1645 | CDROMS..............1749 | DR-DOS..............1594
Arcade..............1619 | CNEPA...............1920 | DSZ-Omen............1611
Assembler...........1706 | Caller Digest.......1577 | DataBase............1606
Astronomy...........1651 | Careers.............1725 | DeskTop.............1614
Asylum..............1605 | Cars................1700 | Doorway.............1715
Athletics...........1724 | Caveat..............1708 | Dos-6.0.............1888
Audio...............1627 | Chess...............1674 | DownUnder...........1887
Auto Racing.........1658 | ChitChat............1630 | Dutch...............1590
Aviation............1695 | Chocolate...........1704 | E-Mail..............1712
BBS-Ads.............1603 | Clipper.............1713 | EEC.................1900
BBSPolicy...........1740 | Coconuts............1592 | EXSupport...........1897
Basics..............1615 | Collectors..........1729 | EZReader............1664
Beyond..............1699 | Comedy..............1626 | Economics...........1578

Editors.............1739 | Greek...............1885 | Laptops.............1696
```

CRS Online   New Users Guide

CRS ONLINE   NEW USERS GUIDE

QUEBECNET Echo Mail Conferences
[Last Network Update - 01/18/93]

QUEBECNET - A specialized set of conferences originating in Quebec, and brought to our French speaking members. All messaging in these conferences should be in the French Language.

```
Administration......1837 | Defis..............1808 | Opinions...........1841
Adolescents.........1844 | Education..........1809 | Parapsyc...........1835
Alimentation........1843 | Environment........1845 | Portes.............1805
Amiga...............1849 | Esoterisme.........1800 | Programmation......1826
Amitie..............1804 | Gendarmerie........1810 | Publicites.........1825
Ancetres............1847 | Humour.............1838 | Referendum.........1812
Animateurs..........1805 | Info-Redaction.....1811 | Reseau-Mailer......1813
Announces...........1840 | Interactif.........1803 | Ressources.........1814
Automobile..........1806 | Jeux d'esprit......1803 | Sciences...........1839
Bandes dessinees....1802 | Jeux...............1846 | Sexualitie.........1810
Cinema-Video........1834 | Litterature........1836 | Sports.............1831
Collections.........1827 | Logiciel...........1833 | Sys. Expl..........1801
Commodore...........1828 | Macintosh..........1829 | Systems d'Exploitat.1801
Commune.............1830 | Materiel...........1832 | Urgences...........1815
Communications......1848 | Musique............1842
Consommateurs.......1807 | Nouvelles..........1812
```

ADANET Echo Mail Conferences
[Last Network Update - 01/18/93]

With the advent of Americans with Disabilities Act of 1992, it has become even more important that the disabled have access to information and thus become independent through the use of high-tech solutions. ADAnet is a network formed to educate, protect and serve the disabled community, helping them gather the information that they need to compete in a technological world.

```
ABLEnews.............763 | Anxiety.............731 | DataTalk............714
ADA Family...........759 | Arthritis...........747 | Diabetes............718
ADA Outdoors.........762 | Ask A Nurse.........794 | Dialysis............765
ADA Rights...........756 | Athlete.............742 | Disability Law.......701
ADA Sysop............741 | Barriers............764 | Disability..........700
ADA-Sexuality........770 | Big Computer Pals....705 | Dwarfism............743
ADAchild.............749 | BlindTalk NFB........753 | EduTel..............720
ADAtech..............750 | Blindtalk...........754 | Employment..........724
ADHD.................761 | BlinkTalk...........721 | Enable 2000.........767
AIDS/HIV.............726 | Bodywork............774 | Epilepsy............711
ASL..................791 | Brain Injury........739 | Franco Handi........778
Able Europe..........766 | Bridges.............723 | GoldenYears.........746
Abled Art............760 | Burn................786 | Handicapped Digest...706
Abled...............717 | CES.................757 | HandySysOp..........748
Adaptive Tech........715 | Cancer..............732 | Holistic............777
Al-Anon..............783 | Cardiac.............795 | Home Office.........744
Allergies............772 | Care Giver..........771 | Independent Living...702
Alternative Learn....719 | Cerebral Palsy.......725 | Job Accommodation....708
Alzheimers...........729 | Chinese Med.........775 | Learn. Disabilities..704
Amputee.............730 | Chronic Pain........713 | Medical.............709
```

MidiLink Echo Mail Conferences

FidoNet Echo Mail Conferences
[Last Network Update - 01/10/93]

F-12_Steps...........901 | F-1992-Net..........1508 | F-4DOS..............902
F-4_Sale............1374 | F-60s70sRock.........903 | F-80XXX.............904
F-AD&D..............909 | F-ADAM..............910 | F-ADHD..............911
F-ADLIB.............912 | F-ADS_Announc........914 | F-AI................915
F-AIDS-ARC..........917 | F-AIDS-HIV..........916 | F-AREXX.............939
F-ARJ...............940 | F-ASP...............944 | F-AT&T.............1399
F-A_CAD.............953 | F-AbleNews..........907 | F-Abled.............905
F-Abled_Athlt........906 | F-Abortion..........908 | F-Adoptees..........913
F-Amiga.............918 | F-AmigaDsktop.......921 | F-AmigaGames........919
F-AmigaSale..........920 | F-AmigaTO..........1501 | F-Amiga_Comms.......1395
F-Amiga_Int.........1473 | F-Amiga_LC..........922 | F-Amiga_Music........923
F-Amiga_Net_D........924 | F-Amiga_OS&EM........925 | F-Amiga_PDRvw........926
F-Amiga_Prog.........927 | F-Amiga_UKNA.........929 | F-Amiga_UKNA........1493
F-Amiga_Video.......1396 | F-Amputee............930 | F-Amy_Point..........931
F-Amy_Tech...........932 | F-Anews............1500 | F-Animal_Right......934
F-Anime.............935 | F-Animed.............936 | F-Anxiety............937
F-Apple.............1397 | F-Aquarium...........938 | F-Asian_Link.........941
F-Ask_A_Nurse.......1398 | F-AskaCop............942 | F-AskaCop2...........943
F-Astronomy..........945 | F-Atari.............946 | F-Atari_ST..........947
F-Atheist...........954 | F-Audio.............948 | F-Aus_Genealogy.....1169

F-AutoRace...........950 | F-Automotive.........949 | F-Aviation...........951
F-Aviculture.........952 | F-BAMA..............955 | F-BBSList............960
F-BBS_Ads...........961 | F-BBS_Debate........1504 | F-BBS_Tech..........1505
F-BB_Cards...........959 | F-BCS_Net...........1452 | F-BNU...............971
F-Backroads.........1311 | F-Basic7.............956 | F-BatPower...........957
F-Battered...........958 | F-Beyond_War.........962 | F-BiModem............965
F-Bible.............963 | F-BikeNet............964 | F-Binkley............966
F-Biomed............967 | F-Bitech............968 | F-Blinktalk..........969
F-BlueWave...........970 | F-Boating...........972 | F-Bodywork...........973
F-Brit_Car...........974 | F-Broadcast..........975 | F-Business...........976
F-Buy-Sell..........1482 | F-BuyNSel...........1481 | F-C-Events.........1497
F-C-Telecom.........1498 | F-C-Transit.........1499 | F-CBM-128..........1402
F-CBM...............983 | F-CDROM.............984 | F-CDROM_Sale.........985
F-CD_Echo............986 | F-CFS...............989 | F-CForSale...........988
F-CNet..............1000 | F-CPMTech...........1013 | F-CPalsy............1012
F-CSP_Sysop.........1474 | F-CUSS.............1016 | F-CXL...............1017
F-C_Advocat.........1018 | F-C_Echo............1019 | F-Cad_Cam...........1400
F-CallNY.............977 | F-CanMilitary.......1494 | F-CanaChat...........978
F-Cap_Nat...........1401 | F-CarAudio..........1496 | F-Carcinoma.........981
F-Care_Giver.........982 | F-Cellular..........987 | F-Chameleon..........990

F-Chaos_Lndng........991 | F-Chatter..........1403 | F-ChekFree..........992
F-Chess.............993 | F-Child_Abuse........994 | F-ChronicPain........995
F-CivLib.............997 | F-Civil_War..........996 | F-Clarion............998
F-Classifieds.......1404 | F-Clipper...........999 | F-Cnsmr_Rpt.........1008
F-CoCo..............1001 | F-CoOrd.............1011 | F-Coco_Club.........1405
F-Coffee_Klat.......1002 | F-College...........1003 | F-ComSell...........1480
F-Comics............1004 | F-Comm..............1005 | F-Commo............1394
F-Communique........1006 | F-Consulting........1007 | F-Controv..........1009
F-Cooking...........1010 | F-Crafting..........1014 | F-Crash............1015
F-DBase.............1021 | F-DBridge...........1022 | F-DLG_Info..........1031
F-DND...............1033 | F-DR_Debug..........1036 | F-Dads..............1020
F-DatCom...........1503 | F-DataFlex.........1453 | F-Deadhead..........1406

F-Debate............1023 | F-DeconoNet.........1454 | F-DesqView..........1024
F-Deutsch...........1407 | F-Diabetes..........1025 | F-Dieting...........1026
F-Digitron..........1455 | F-Dirty_Dozen.......1027 | F-Disasters........1028
F-Disney............1029 | F-Disp..............1030 | F-DmnGates..........1032
F-Doghouse..........1034 | F-Doorgames.........1408 | F-Doorware..........1035
F-ECProg............1042 | F-EC_Dev............0979 | F-EC_Support........0980
F-EMS...............1045 | F-E_Ont_Chat........1475 | F-E_Ont_Trade.......1476
F-EchoDor...........1037 | F-Echo_Req..........1039 | F-Echomac...........1038

F-Ecology...........1040 | F-Econet............1041 | F-Educator..........1043
F-Electronics.......1044 | F-Entrepreneur......1046 | F-Enviro............1479
F-Environ...........1047 | F-Equus.............1048 | F-Evolution.........1485
F-Exotic_Bird.......1049 | F-FCC...............1052 | F-FDEcho............1053
F-FE_Help...........1409 | F-FIDO..............1055 | F-FS................1069
F-FTSC..............1411 | F-Falcon_CBCS.......1050 | F-Feminism..........1054
F-FernwOS2..........1486 | F-FidoBill..........1056 | F-FidoCon92.........1057
F-FidoDoor..........1456 | F-Filk..............1059 | F-Film..............1060
F-FireNet...........1062 | F-Firearms..........1061 | F-Fishing...........1410
F-Flame.............1063 | F-Fmail_Help........1064 | F-Fntsy_Sport.......1051
F-For_Sale..........1065 | F-Forem.............1066 | F-FoxPro............1067
F-Francais..........1068 | F-FranceNet.........1152 | F-Funny.............1070
F-GEcho_Help........1074 | F-GMD...............1082 | F-GVP_Echo..........1087
F-Gaming............1071 | F-GayLink...........1072 | F-GayNews...........1073
F-GenSysop..........1080 | F-Gendata...........1075 | F-Gender............1076
F-Genealgyeur.......1078 | F-Genealogy.........1077 | F-Gensoft...........1079
F-GeoWorks..........1081 | F-Glockenspiel......1151 | F-Golded............1083
F-Gourmet...........1084 | F-Grand_Rnds........1085 | F-Graphics..........1412
F-Guitar............1086 | F-HDConf............1093 | F-HD_Sale...........1413
F-HP................1458 | F-HST...............1416 | F-HST_Sale..........1107

F-HS_Modems.........1108 | F-HZ_Echo...........1459 | F-Ham...............1088
F-Ham_4_Sale........1306 | F-Ham_Req...........1090 | F-Ham_Sale..........1089
F-Ham_Tech..........1091 | F-Handy_Sysop.......1092 | F-Hawaii............1058
F-Herbsnsuch........1094 | F-Hermes_Sys........1095 | F-High_Ed...........1096
F-Hints.............1414 | F-Historia..........1097 | F-History...........1098
F-Hobbies...........1415 | F-Hockey............1099 | F-Holy_Bible........1101
F-Holysmoke.........1100 | F-Home-N-Grdn.......1102 | F-HomePowr..........1103
F-HomeSchl..........1104 | F-Home_Office.......1105 | F-Home_Repair.......1106
F-HotRod............1457 | F-Humor.............1109 | F-ICGAL.............1110
F-IEEE..............1111 | F-IVS...............1119 | F-Imail_Help........1460
F-In_Country........1118 | F-Indian_Aff........1112 | F-InfraNet..........1461
F-Insurance.........1113 | F-InterCook.........1114 | F-InterMail.........1115
F-InterUser.........1116 | F-Invest............1117 | F-Jazz..............1120
F-JewishGen.........1121 | F-Jobs..............1122 | F-Jobs_Now..........1123
F-Journal...........1124 | F-Jr_Msg............1125 | F-Judaica...........1126
F-K9Cops............1127 | F-Katty_Kornr.......1128 | F-Kids..............1417
F-Krishna...........1129 | F-LV_Gambler........1141 | F-Lan...............1418
F-Lantastic.........1130 | F-Laptop............1131 | F-LaserPub..........1132
F-Latino............1419 | F-Law...............1133 | F-Law_Disordr.......1134
F-Law_Tech..........1462 | F-Le_Club...........1135 | F-Library...........1136

F-Linux.............1137 | F-Lotus.............1140 | F-MAC_DTP...........1143
F-MCSoft............1149 | F-MDF...............1150 | F-MEBBS.............1259
F-MLM...............1166 | F-MLT_Scleros.......1178 | F-MM1_Tech..........1167
F-MS_Excel..........1174 | F-MS_Word...........1175 | F-MTask.............1176
F-M_P_D.............1184 | F-MacFSale..........1142 | F-MacWoof...........1144
F-Mac_4_Sale........1420 | F-Mac_Comm..........1421 | F-Mac_Dev...........1422
F-Mac_Games.........1145 | F-Mac_HW............1423 | F-Mac_Hype..........1424
F-Mac_SW............1425 | F-Mac_Telefnd.......1146 | F-Mainframe.........1147

F-Sailing...........1276 | F-ScanRadio.........1278 | F-Sci&Tech..........1279
F-Science...........1280 | F-Scifor............1281 | F-Scouter...........1282
F-Scouting..........1283 | F-Scuba.............1285 | F-SeaDog............1286
F-SearchLight.......1287 | F-ShareWare.........1344 | F-Shareware.........1291
F-Shortwave.........1292 | F-Sierran...........1293 | F-SilentTalk........1294
F-Sirius............1301 | F-Skeptic...........1302 | F-SkyDive...........1303
F-SoundNet..........1177 | F-Space.............1305 | F-Spanish_Gen.......1313
F-Speedmodem........1314 | F-Spinal_Injr.......1315 | F-Spiritual.........1469
F-SpitFire..........1316 | F-Sports............1442 | F-StarTrek..........1317
F-StarWars..........1318 | F-Star_Gaze.........1444 | F-Stock_Markt.......1320
F-Stress_Mgmt.......1321 | F-Studio_101........1323 | F-SuperBBS..........1325
F-SupraFax..........1329 | F-Survival..........1470 | F-Survivor.........1326
F-Sust_Ag...........1327 | F-Sys4Sale..........1328 | F-System7..........1330
F-TBBS..............1336 | F-THI_CVA...........1340 | F-TI_Echo...........1341
F-TMPLT_Lang........1339 | F-TO_Prog...........1506 | F-TO_Trek...........1495
F-TPBoard...........1345 | F-TPWTech...........1346 | F-TRS_Mid134........1351

F-TV................1353 | F-TVRO..............1354 | F-TV_Shows..........1502
F-Tabby.............1484 | F-Tag...............1332 | F-TagLines..........1333
F-TagMulti..........1334 | F-Tag_Doors.........1445 | F-Tand2000..........1335
F-Tech..............1446 | F-Teen..............1337 | F-Teen_TO...........1507
F-Telemate..........1447 | F-Telix.............1338 | F-Toons.............1342
F-Tott..............1343 | F-Trade_Wars........1347 | F-Trains............1348
F-TransAmiga........1312 | F-TrapDoor..........1349 | F-Travel............1471
F-Trek..............1350 | F-UFGate............1355 | F-UFO...............1356
F-USASA.............1358 | F-USA_EurLink.......1359 | F-USS_Liberty.......1360
F-Unix..............1357 | F-Vax...............1361 | F-Ventura..........1472
F-Vfalsac...........1362 | F-Vid_Game..........1364 | F-Video.............1363
F-VietNam_Vet.......1365 | F-Vin_Maison........1366 | F-Virus.............1448
F-Virus_Info........1367 | F-VisualBasic.......1368 | F-WC_Tech..........1369
F-WGW...............1372 | F-WOC_Aids..........1378 | F-WP_Craft..........1381
F-WP_Tools..........1382 | F-Warnings..........1449 | F-Welfare...........1370
F-Welmat............1371 | F-Who...............1373 | F-Wildrnss..........1375
F-Win32.............1450 | F-Windows...........1376 | F-Windows_Prg.......1377
F-Winnet_User.......1477 | F-Words_Words.......1379 | F-WorldTlk..........1380
F-Wrestling.........1451 | F-Writing...........1383 | F-Wunderment........1384
F-X00_User..........1385 | F-Xpress_Sys........1386 | F-Young_Adult.......1387

F-Z1_Election.......1388 | F-ZMail.............1390 | F-ZModem............1391
F-Zec...............1389 | F-Zymurgy...........1392 | F-Zyxel.............1393

Vervan's RPG Net
[Last Network Update - 01/18/93]

V-AD&D_CHAT.........1522 | V-BATTLE_TECH.......1523 | V-BLOODSTONE........1524
V-CAR_WARS..........1525 | V-CYBERPUNK.........1526 | V-HARNLINE..........1527
V-IMPERIUM..........1528 | V-PAINT_BALL........1529 | V-PARANOIA..........1530
V-SEATTLE_SPRAWL....1531 | V-SF-BATTLES........1532 | V-SHADOWRUN.........1533
V-TRAVELLER.........1534 | V-TRIAD.............1535 | V-TWIL_2000.........1536
V-LIBRARY...........1537 | V-TREK..............1538 | V-1889..............1539
V-ADWOTL............1540 | V-BOARD.............1541 | V-CHESS.............1542
V-COMPGAME..........1543 | V-CRYPT.............1544 | V-DAWN..............1545
V-GAMECOCK..........1546 | V-GAMER.............1547 | V-GM................1548
V-GURPS.............1549 | V-HERO..............1550 | V-INVASION.........1551
V-NETBIZ............1552 | V-NEWGAME...........1553 | V-REALMS............1554
V-RPG...............1555 | V-STORY.............1556 | V-THEGAME...........1557
V-TORG..............1558 | V-TORG_SD...........1559 | V-VAMPIRE...........1560

Adult Conferences
[Last Network Update - 01/18/93]

Administration.......388 | Grafitti Wall........872 | Pornography..........390
Adult Ansi...........377 | Green Dragon.........873 | Preachnix...........875
Adult Parlor.........881 | Guvmint.............877 | Python.............2311
Adult Photo.........3379 | Homosexuality.......1238 | Roman Bath..........888
Adult_Singles.......3376 | Humor Conference.....392 | Rush................356
Ask_RN_Judi.........3380 | Insanity............876 | Sadism/Masochism.....393
Audioactive..........870 | Issues Conference....401 | Secrets Bed.........891
Basement.............885 | Junk Meet...........378 | Sex Help............382
Bookactive..........871 | Kitchen Fun.........889 | Sex Stories.........394
Dial Tone...........884 | Lesbian Life........376 | Sex Talk............397
Dr. Pixie...........887 | Maybe...............879 | Sex Toys............391
Dr. Rude...........3377 | Mens Issues.........225 | Sex................1252
Druginit.............880 | Mens Issues.........461 | Sex.Bestiality......1253
Exotic Music 1......1217 | Nat. Adult Conf......381 | Sex.Bondage........1254
Exotic Music 2......1218 | Open Forum..........868 | Swingers............386
Fantasy.............389 | Pagans Anonymous.....878 | Sysops (*)..........892
Gay & Lesbians.......398 | Paracity............882 | Throb-Moderator.....3378
Gay Discussions......230 | Play................874 | Throb-Sysops........3375
Gay Discussions......504 | Playroom............890 | TransV..............344
General Discussion...400 | Pleasure............886 | Videoactive.........869

Violet's Bar/Grill...395 | Womens Issues........478 | Ye Olde Shoppe.......379
Wacko...............883 | Writings............399

Additional Information on Mail Networks is available as follows:
Files may be downloaded from any conference.

USENET.CRS   A listing of the Usenet Conferences on CRS
CRSCONF.LST Current List of CRS conferences (all nets)
CRSALL.LST   Current List of CRS conferences (alphabetical)
IL-APP.ZIP   Interlink Application Form
ILCONF09.ZIP Interlink Conferences
ILNK0912.ZIP Participating Interlink Systems
INTCONFS.ZIP Intelec conference list and decriptions
RLYCONF.ZIP RelayNet conference list and description
NANETAPP.ZIP NorthAmeriNet Application Information
NANET.SYS   NorthAmeriNet Participating Systems
RELAY.FRM   Application Form for Relaynet
RLYMAN1.ZIP Relaynet rules/regulations
THROBNET.ZIP Application for Throbnet Network

USENET CONFERENCES
Current Conferences as of February 14, 1993

Please note the following rules for posting message to Usenet:

Procedures for entering PUBLIC messages.

a) Enter the message to ALL or anyone else you desire
b) Mark the message as PUBLIC
c) Make the first 3 letters of the subject UN: to signify that   you want this message to be sent WORLD WIDE on Usenet.
NOTE - PUBLIC MESSAGES should be of interest to the USENET Community.As your public messages are sent to thousands of different sites, pleasemake sure that they will be appropriate both as to topic and to content.

Procedures for entering PRIVATE messages.

a) Enter the message to USENET GATEWAY
b) Mark the message as RECEIVER ONLY
c) Make the first line of the message "to: user@site" (important - you must leave a space after "to: ")
d) Leave a blank line (important) and then continue entering your message on the next line.

All Incoming Private Messages from our Usenet Gateway are posted inConference 104. Outgoing mail may be left in conference 0, 104 or any of the Usenet specific conferences

104   U-REPLIES   *Conference for incoming private mail.

COMPLETE LIST OF AVAILABLE USENET/INTERNET CONFERENCES

CN#	Short Name	USENET/Internet Name	Group
3964	U-AABSURELI	a.bsu.religion	a
3965	U-AABSUTALK	a.bsu.talk	a
3958	U-AABUPPROG	a.bsu.programming	a
4598	U-AACTIVSM	alt.activism	alt
4599	U-AAQUARIA	alt.aquaria	alt
4600	U-AATHEISM	alt.atheism	alt
4691	U-ABBS	alt.bbs	alt
3968	U-ABGENERAL	ab.general	ab
3456	U-ABINPICFINE	alt.binaries.pictures.fine-art.digi	
4601	U-ABIRTH	alt.birthright	alt
3969	U-ABJOBS	ab.jobs	ab
4327	U-ABORTION	talk.abortion	talk
4602	U-ACALIFOR	alt.california	alt
4603	U-ACALLA	alt.callahans	alt
4607	U-ACNSPRCY	alt.conspiracy	alt
4605	U-ACOBOL	alt.cobol	alt
4606	U-ACONFIG	alt.config	alt
4604	U-ACOOPS	alt.co-ops	alt
4608	U-ACOSUARD	alt.cosuard	alt
3944	U-ACSMAGNUS	acs.magnus	acs
3945	U-ACSOSUMENTR	acs.osu-mentor	acs
4609	U-ACULTMOV	alt.cult-movies	alt
4613	U-ACYBPKTC	alt.cyberpunk.tech	alt
4612	U-ACYBPNKM	alt.cyberpunk.movement	alt
4611	U-ACYBPUNK	alt.cyberpunk	alt
4614	U-ACYBSPC	alt.cyberspace	alt
4610	U-ACYBSYS	alt.cyb-sys	alt
4393	U-ADA	comp.lang.ada	comp
4616	U-ADRUGS	alt.drugs	alt
4619	U-ADVBARRY	alt.fan.dave_barry	alt
4192	U-ADVTPROG	rec.games.programmer	rec
4617	U-AEMUSIC1	alt.emusic	alt
4618	U-AEMUSIC2	alt.exotic-music	alt
4256	U-AERO	sci.aeronautics	sci
2144	U-AEROAIRLINE	sci.aeronautics.airliners	
4701	U-AFANCONS	alt.fandom.cons	alt
3842	U-AFANFURRY	alt.fan.furry	alt
4673	U-AFANLIMBAUG	alt.fan.rush-limbaugh	alt
4700	U-AFANMIKE	alt.fan.mike-jittlov	alt
4702	U-AFANMISC	alt.fandom.misc	alt
4695	U-AFANPETERSO	alt.fan.tom_peterson	alt
3991	U-AFATKVMS	sfnet.atk.vms	sfnet
4621	U-AFISHING	alt.fishing	alt
4704	U-AFLKURBN	alt.folklore.urban	alt
4624	U-AFOLKCOM	alt.folklore.computers	alt
4705	U-AFORGERY	alt.forgery	alt
3948	U-AFRACPIC	alt.fractals.pictures	alt
4292	U-AFRICAN	soc.culture.african	soc
4626	U-AGOURMND	alt.gourmand	
4627	U-AGRTLAKE	alt.great-lakes	alt
4628	U-AHACKERS	alt.hackers	
4707	U-AHORROR	alt.horror	alt
4630	U-AHYPTEXT	alt.hypertext	alt
4351	U-AI	comp.ai	comp
4354	U-AI.NNETS	comp.ai.neural-nets	comp
4353	U-AIEDU	comp.ai.edu	comp
4631	U-AINDIVID	alt.individualism	alt
4696	U-AINDUSTRIAL	alt.industrial	alt
4355	U-AINLANG	comp.ai.nlang-know-rep	
4865	U-AIPHILOSPHY	comp.ai.philosophy	comp
4356	U-AISHELLS	comp.ai.shells	comp
4357	U-AIVISION	comp.ai.vision	
4632	U-AKIDSTLK	alt.kids-talk	alt
3457	U-ALBUSMULTIL	alt.business.multi-level	alt
3461	U-ALDTCOMCATV	alt.dcom.catv	alt

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3458  U-ALGCOLORGUA  alt.colorguard                    alt
4747  U-ALLIANT      comp.sys.alliant                  comp
4962  U-ALT-ALIEN-V  alt.alien.visitors                alt
4963  U-ALT-ANGST    alt.angst                         alt
4964  U-ALT-ARTCOM   alt.artcom                        alt
4965  U-ALT-BBSADS   alt.bbs.ads                       alt
4966  U-ALT-BBSINTR  alt.bbs.internet                  alt
4969  U-ALT-BOOKS-T  alt.books.technical               alt
4970  U-ALT-BOOMER   alt.boomerang                     alt
4971  U-ALT-CENSOR   alt.censorship                    alt
4972  U-ALT-CHILDSP  alt.child-support                 alt
4974  U-ALT-DREAMS   alt.dreams                        alt
4976  U-ALT-EVIL     alt.evil                          alt
4979  U-ALT-GAME-GB  alt.games.gb                      alt
4983  U-ALT-IRC      alt.irc                           alt
4984  U-ALT-L-CFUTR  alt.lang.cfutures                 alt
4985  U-ALT-L-INTRC  alt.lang.intercal                 alt
4986  U-ALT-MODELS   alt.models                        alt
4987  U-ALT-NATIVE   alt.native                        alt
4988  U-ALT-PARANOR  alt.paranormal                    alt
4989  U-ALT-PARTY    alt.party                         alt
4990  U-ALT-PERSONL  alt.personals                     alt
4993  U-ALT-SKATE    alt.skate                         alt
4994  U-ALT-SOURCSD  alt.sources.d                     alt
4995  U-ALT-SPT-BUN  alt.sport.bungee                  alt
4996  U-ALT-SPT-PNT  alt.sport.paintball               alt
4997  U-ALT-SUPPORT  alt.support                       alt
4998  U-ALT-SURFING  alt.surfing                       alt
4343  U-ALT-THRASH   alt.thrash                        alt
4344  U-ALT-TLKITXV  alt.toolkits.xview                alt
4345  U-ALT-TV-SIMP  alt.tv.simpsons                   alt
4346  U-ALT-TV-TINY  alt.tv.tiny-toon                  alt
3966  U-ALT3D        alt.3d                            alt
3967  U-ALTABRTINEQ  alt.abortion.inequity             alt
3826  U-ALTACT-D     alt.activism.d                    alt
3051  U-ALTAEFFLE    alt.aeffle.und.pferdle            alt
3886  U-ALTAMUUCP    alt.sys.amiga.uucp                alt
3971  U-ALTAPPALACH  alt.appalachian                   alt
3052  U-ALTARCHERY   alt.archery                       alt
2501  U-ALTASTRLGY   alt.astrology                     alt
4967  U-ALTATHEMODE  alt.atheism.moderated
3053  U-ALTBACCHUS   alt.bacchus                       alt
3828  U-ALTBACKRUB   alt.backrubs                      alt
3830  U-ALTBBSLISTS  alt.bbs.lists                     alt
3829  U-ALTBBSLST-D  alt.bbs.lists.d                   alt
3951  U-ALTBBSSYSOP  alt.bbs.allsysop                  alt
3977  U-ALTBBSUNIXB  alt.bbs.unixbbs                   alt
3956  U-ALTBEER      alt.beer                          alt
3054  U-ALTBINERBLO  alt.binaries.pictures.erotica.blond   alt
4347  U-ALTBINMULTI  alt.binaries.multimedia           alt
3973  U-ALTBINPICER  alt.binaries.pictures.erotica.male    alt
3974  U-ALTBINPICFR  alt.binaries.pictures.fractals    alt
3972  U-ALTBINPICPR  alt.binaries.pictures.erotica.femal   alt
4078  U-ALTBINPICTD  alt.binaries.pictures.d           alt
3978  U-ALTBINPIFAR  alt.binaries.pictures.fine-art.grap
3979  U-ALTBINPIUTI  alt.binaries.pictures.utilities   alt
4071  U-ALTBINPIX    alt.binaries.pictures             alt
2503  U-ALTBPICEROD  alt.binaries.pictures.erotica.d   alt
2502  U-ALTBPICEROT  alt.binaries.pictures.erotica     alt
2504  U-ALTBPICMISC  alt.binaries.pictures.misc        alt
2508  U-ALTBROTHER   alt.brother-jed                   alt
2507  U-ALTBSOUNDMI  alt.binaries.sounds.misc          alt
2506  U-ALTBSOUNDSD  alt.binaries.sounds.d             alt
2505  U-ALTBTASTELS  alt.binaries.pictures.tasteless   alt
4397  U-ALTCACFNEWS  alt.comp.acad-freedom.news
4591  U-ALTCACFTALK  alt.comp.acad-freedom.talk        alt
3933  U-ALTCAD       alt.cad                           alt
3988  U-ALTCADAUTOC  alt.cad.autocad                   alt
3989  U-ALTCASCADE   alt.cascade                       alt
3060  U-ALTCCFSERVI  arc.ccf.services                  arc
4685  U-ALTCCFSUPER  arc.ccf.super                     arc
4084  U-ALTCDROM     alt.cd-rom                        alt
4629  U-ALTCEVINT92  alt.current-events.inet92         alt
3981  U-ALTCHINTEST  alt.chinese.text                  alt
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3982  U-ALTCOEVOLUT  alt.co-evolution              alt
3990  U-ALTCOMEDYBR  alt.comedy.british             alt
3992  U-ALTCOMICSBU  alt.comics.buffalo-roam          alt
3986  U-ALTCONSCIOU  alt.consciousness             alt
3994  U-ALTCONSPIRC  alt.conspiracy.jfk          alt
3980  U-ALTCTVREREG  alt.cable-tv.re-regulate          alt
3459  U-ALTCULKERAL  alt.culture.kerala           alt
3055  U-ALTCULTTUVA  alt.culture.tuva           alt
3995  U-ALTCULTUREL  alt.culture.electric-midget         alt
3838  U-ALTCULTUSAI  alt.culture.us.asian-indian         alt
3996  U-ALTCULTUSNT  alt.culture.usenet           alt
4349  U-ALTCYBCHTSB  alt.cyberpunk.chatsubo           alt
3460  U-ALTDADSRIGH  alt.dads-rights           alt
4083  U-ALTDCOMTELC  alt.dcom.telecom             alt
4623  U-ALTDESKURDS  alt.desert-thekurds          alt
4086  U-ALTDESSTFAC  alt.desert-storm.facts          alt
4480  U-ALTDESSTRM   alt.desert-storm           alt
4633  U-ALTDESTROY   alt.destroy.the.earth           alt
4662  U-ALTDISCRIM   alt.discrimination           alt
3997  U-ALTDIVINATI  alt.divination           alt
4002  U-ALTDRUMCORP  alt.drumcorps             alt
2516  U-ALTEDDSTNCE  alt.education.distance            alt
3462  U-ALTEDUDISAB  alt.education.disabled            alt
2517  U-ALTEXPLODKB  alt.exploding.kibo           alt
4648  U-ALTFAN-JP    alt.rmgroup           alt
4978  U-ALTFAN-MNTY  alt.fan.monty-python            alt
4654  U-ALTFAN-PE    alt.sex.bestiality           alt
4008  U-ALTFANALOK   alt.fan.alok.vijayvargia          alt
4973  U-ALTFANASPRI  alt.fan.asprin           alt
3998  U-ALTFANDALEB  alt.fan.dale-bass           alt
3463  U-ALTFANDICEM  alt.fan.dice-man           alt
4694  U-ALTFANEDDIN  alt.fan.eddings           alt
3999  U-ALTFANENYA   alt.fan.enya           alt
4067  U-ALTFANGRNSL  alt.fan.wal-greenslade           alt
4698  U-ALTFANITCHY  alt.fan.itchy-n-scratchy           alt
3464  U-ALTFANJPALM  alt.fan.john-palmer           alt
4003  U-ALTFANKEVIN  alt.fan.kevin-darcy           alt
4699  U-ALTFANMONTA  alt.fan.kent-montana             alt
4703  U-ALTFANNBRAZ  alt.fan.nathan.brazil           alt
4004  U-ALTFANPIERS  alt.fan.piers-anthony           alt
4693  U-ALTFANPRATC  alt.fan.pratchett           alt
4708  U-ALTFANQ      alt.fan.q           alt
4758  U-ALTFANREN    alt.fan.ren-and-stimpy           alt
4925  U-ALTFANROBBI  alt.fan.tom-robbins           alt
4915  U-ALTFANSHOST  alt.fan.shostakovich             alt
3843  U-ALTFANWRLD   alt.fan.warlord           alt
4005  U-ALTFASHION   alt.fashion           alt
2520  U-ALTFDADAMS   alt.fan.douglas-adams            alt
2518  U-ALTFDQUAYLE  alt.fan.dan-quayle           alt
2521  U-ALTFFZAPPA   alt.fan.frank-zappa           alt
4361  U-ALTFKLRSCI   alt.folklore.science           alt
3465  U-ALTFLAME     alt.flame           alt
3466  U-ALTFLAMGIGA  alt.flame.gigantic.sigs           alt
4360  U-ALTFOLKLRCL  alt.folklore.college           alt
2524  U-ALTFPERN     alt.fan.pern           alt
3056  U-ALTGALAGUID  alt.galactic-guide           alt
4006  U-ALTGAMELYNX  alt.games.lynx           alt
4010  U-ALTGAMEMORN  alt.games.mornington.cresent         alt
4580  U-ALTGAMESSF2  alt.games.sf2           alt
2526  U-ALTGMTORG    alt.games.torg           alt
2527  U-ALTGMXTREK   alt.games.xtrek           alt
2528  U-ALTGOODNEWS  alt.good.news             alt
4581  U-ALTGOPHER    alt.gopher           alt
3467  U-ALTGORETS    alt.gorets           alt
2529  U-ALTGOTHIC    alt.gothic           alt
3942  U-ALTGPIXUTL   alt.graphics.pixutils           alt
4615  U-ALTGUITAR    alt.guitar           alt
4012  U-ALTGUITARBA  alt.guitar.bass           alt
4013  U-ALTGUITARTA  alt.guitar.tab           alt
4636  U-ALTHERALDRY  alt.heraldry.sca           alt
4977  U-ALTHOMOSEX   alt.homosexual             alt
4015  U-ALTINTACCWT  alt.internet.access.wanted          alt
4057  U-ALTINTSERVI  alt.internet.services           alt
4680  U-ALTIRCRECVR  alt.irc.recovery           alt
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3857  U-ALTLANGASM   alt.lang.asm                    alt
3061  U-ALTLANGBASI  alt.lang.basic                  alt
3858  U-ALTLANGML    alt.lang.ml                     alt
2523  U-ALTLANGTECO  alt.lang.teco                   alt
4689  U-ALTLOCKSMIT  alt.locksmithing                alt
4059  U-ALTLUCIDEMA  alt.lucid-emacs.bug             alt
2525  U-ALTLUCIDEMH  alt.lucid-emacs.help            alt
3954  U-ALTMAGIC     alt.magic                       alt
3062  U-ALTMANGA     alt.manga                       alt
4744  U-ALTMCDONALD  alt.mcdonalds                   alt
4922  U-ALTMEDITRAN  alt.meditation.transcendental   alt
2533  U-ALTMGERMAN   alt.mud.german                  alt
2531  U-ALTMISSING   alt.missing-kids                alt
2522  U-ALTMSCENYA   alt.music.enya                  alt
4968  U-ALTMUSICALT  alt.music.alternative           alt
2538  U-ALTMUSICFLK  alt.music.filk                  alt
4802  U-ALTMUSPROG   alt.music.progressive           alt
2133  U-ALTMUSRUSH   alt.music.rush                  alt
3064  U-ALTMYTHOLOG  alt.mythology                   alt
2535  U-ALTNENQUIRE  alt.national.enquirer           alt
2556  U-ALTNWSMEDIA  alt.news-media                  alt
2562  U-ALTOVRLORDS  alt.overlords                   alt
3065  U-ALTPARENTTE  alt.parents-teens               alt
4085  U-ALTPCNEWS    alt.pcnews                      alt
4620  U-ALTPERSONAD  alt.personals.ads               alt
4088  U-ALTPLANURBA  alt.planning.urban              alt
2537  U-ALTPLTCCOR   alt.politics.correct            alt
2565  U-ALTPLTCSELC  alt.politics.elections          alt
4102  U-ALTPOLYAMOR  alt.polyamory                   alt
3863  U-ALTPRIVACY   alt.privacy                     alt
2536  U-ALTPRSNMISC  alt.personals.misc              alt
2657  U-ALTPUBDRAGO  alt.pub.dragons-inn             alt
3066  U-ALTPULP      alt.pulp                        alt
2570  U-ALTRADIOPRT  alt.radio.pirate                alt
2571  U-ALTRADIOSCN  alt.radio.scanner               alt
3864  U-ALTRAP       alt.rap                         alt
3865  U-ALTRAPGDEAD  alt.rap-gdead                   alt
2572  U-ALTRAVE      alt.rave                        alt
2582  U-ALTRDNYKING  alt.rodney-king                 alt
3067  U-ALTRELKIBO   alt.religion.kibology           alt
2972  U-ALTREVISION  alt.revisionism                 alt
2574  U-ALTRLGNALLW  alt.religion.all-worlds         alt
4622  U-ALTRNRMETPR  alt.rock-n-roll.metal.progressive   alt
2973  U-ALTROCKHARD  alt.rock-n-roll.hard            alt
2577  U-ALTROCKNROL  alt.rock-n-roll.acdc            alt
3866  U-ALTROMANCH   alt.romance.chat                alt
4992  U-ALTRRM-MTLC  alt.rock-n-roll.metal.metallica     alt
3867  U-ALTRUSHLIM   alt.rush-limbaugh               alt
3068  U-ALTSATANISM  alt.satanism                    alt
4806  U-ALTSAVEEART  alt.save.the.earth              alt
2592  U-ALTSBPROGRM  alt.sb.programmer               alt
2596  U-ALTSCIASTFG  alt.sci.astro.figaro            alt
2595  U-ALTSCIASTRO  alt.sci.astro.aips              alt
2597  U-ALTSCIPHYAC  alt.sci.physics.acoustics       alt
3069  U-ALTSCIPHYNE  alt.sci.physics.new-theories    alt
2546  U-ALTSCVLBRTY  alt.society.civil-liberty       alt
2545  U-ALTSCVLLIBS  alt.society.civil-liberties     alt
2974  U-ALTSECINDEX  alt.security.index
3468  U-ALTSEXBOND   alt.sex.bondage                 alt
3874  U-ALTSEXMOTSS  alt.sex.motss                   alt
2542  U-ALTSEXMOVIE  alt.sex.movies                  alt
3875  U-ALTSEXPICT   alt.sex.pictures                alt
3876  U-ALTSEXPICTD  alt.sex.pictures.d              alt
2976  U-ALTSEXPIXF   alt.sex.pictures.female         alt
2977  U-ALTSEXPIXM   alt.sex.pictures.male           alt
4313  U-ALTSEXSTORD  alt.sex.stories.d               alt
2978  U-ALTSEXSTORY  alt.sex.stories                 alt
2980  U-ALTSEXWANT   alt.sex.wanted                  alt
2602  U-ALTSEXWIZ    alt.sex.wizards                 alt
2981  U-ALTSIGMA2    alt.sigma2.height               alt
4830  U-ALTSKATEBD   alt.skate-board                 alt
2548  U-ALTSLASERTG  alt.sport.lasertag              alt
2539  U-ALTSLFIMPRV  alt.self-improve                alt
3851  U-ALTSOCCIVIL  alt.society.civil-disob         alt
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2605  U-ALTSOCFOIA   alt.society.foia               alt
4362  U-ALTSOCREVOL  alt.society.revolution          alt
2982  U-ALTSOCSOVER  alt.society.sovereign           alt
4363  U-ALTSOFSYTOO  alt.soft-sys.tooltalk          alt
2628  U-ALTSPRTBOWL  alt.sport.bowling              alt
2629  U-ALTSPRTDART  alt.sport.darts             alt
3882  U-ALTSTCREAT   alt.startrek.creative         alt
4665  U-ALTSTERN     alt.fan.howard-stern           alt
2630  U-ALTSTGCRAFT  alt.stagecraft             alt
4809  U-ALTSTUPBBS   alt.sex.sounds             alt
3963  U-ALTSUICIDE   alt.suicide.holiday           alt
4364  U-ALTSUITATTB  alt.suit.att-bsdi             alt
4365  U-ALTSUPERMOD  alt.supermodels                alt
4473  U-ALTSUPPBIGF  alt.support.big-folks           alt
2634  U-ALTSUPTCNCR  alt.support.cancer              alt
2635  U-ALTSUPTDIET  alt.support.diet              alt
3885  U-ALTSYSAMDEM  alt.sys.amiga.demos              alt
3887  U-ALTSYSAMUP   alt.sys.amiga.uucp.patches         alt
3888  U-ALTSYSINTER  alt.sys.intergraph             alt
2983  U-ALTTASTPIX   alt.tasteless.pictures          alt
3469  U-ALTTEST      alt.test                   alt
3953  U-ALTTEXTDWB   alt.text.dwb               alt
2636  U-ALTTLA       alt.tla                  alt
2637  U-ALTTOONPICS  alt.toon-pics               alt
3070  U-ALTTRUECRIM  alt.true-crime               alt
2638  U-ALTTRUECRIM  eunet.misc                 eunet
3893  U-ALTTVANTAG   alt.tv.antagonists            alt
2639  U-ALTTVDINOSR  alt.tv.dinosaurs             alt
2640  U-ALTTVLALAW   alt.tv.la-law               alt
4562  U-ALTTVMELPLA  alt.tv.melrose-place            alt
2641  U-ALTTVMST3K   alt.tv.mst3k               alt
2984  U-ALTTVREDDRW  alt.tv.red-dwarf             alt
2642  U-ALTTVRENSTM  alt.tv.ren-n-stimpy            alt
4692  U-ALTTVSEINFE  alt.tv.seinfeld             alt
2643  U-ALTTVSMPITC  alt.tv.simpsons.itchy-scratchy       alt
3470  U-ALTUSENETRE  alt.usenet.recovery           alt
4625  U-ALTUUANNOUN  alt.uu.announce              alt
3057  U-ALTUUCOMPMI  alt.uu.comp.misc             alt
3058  U-ALTUUFUTURE  alt.uu.future               alt
4980  U-ALTUULANGES  alt.uu.lang.esperanto.misc        alt
4981  U-ALTUULANGMI  alt.uu.lang.misc             alt
4585  U-ALTUUMATHMI  alt.uu.math.misc             alt
4975  U-ALTUUMISCMI  alt.uu.misc.misc             alt
3059  U-ALTUUTOOLS   alt.uu.tools               alt
4982  U-ALTUUVIRWOR  alt.uu.virtual-worlds.misc         alt
4647  U-ALTVISAUS    alt.visa.us                alt
2553  U-ALTWAIS      alt.wais                 alt
3073  U-ALTWAR       alt.war                  alt
3471  U-ALTWARCIVUS  alt.war.civil.usa             alt
3074  U-ALTWHINE     alt.whine                 alt
4683  U-ALTWOLRDTAE  alt.world.taeis              alt
4677  U-ALTWOLVES    alt.wolves                 alt
4711  U-AMAGICK      alt.magick                 alt
4715  U-AMESSIANIC   alt.messianic               alt
4888  U-AMIGAGAMES   comp.sys.amiga.games              comp
4509  U-AMIGAHW      comp.sys.amiga.hardware          comp
4490  U-AMIGASRC     comp.sources.amiga
4634  U-AMSDOSPR     alt.msdos.programmer            alt
4635  U-AMUD         alt.mud                  alt
4717  U-AMUDLP       alt.mud.lp                alt
4488  U-ANDRWSYS     comp.soft-sys.andrew            comp
4671  U-ANOTASTE     alt.tasteless               alt
4442  U-AOS          comp.os.aos                comp
4637  U-APAGAN       alt.pagan                 alt
4638  U-APEEVES      alt.peeves                 alt
4742  U-APERSONBOND  alt.personals.bondage            alt
4394  U-APL          comp.lang.apl               comp
4639  U-APOLHOMO     alt.politics.homosexuality        alt
4511  U-APOLLO       comp.sys.apollo              comp
4640  U-APOSTMOD     alt.postmodern              alt
4459  U-APPLETLK     comp.protocols.appletalk          comp
4641  U-APROSE       alt.prose                 alt
4642  U-APROSE-D     alt.prose.d                alt
4762  U-APSYCHOACTI  alt.psychoactives             alt
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4293  U-ARABIC        soc.culture.arabic            soc
2530  U-ARCCCFUNIX   arc.ccf.unix                  arc
4358  U-ARCH          comp.arch                    comp
4359  U-ARCHIVES      comp.archives
4643  U-ARECOVER      alt.recovery               alt
4644  U-ARELCOMP      alt.religion.computers        alt
4791  U-ARELIGEMACS   alt.religion.emacs          alt
4797  U-ARELIGSCIEN   alt.religion.scientology      alt
4645  U-AREST         alt.restaurants           alt
4646  U-ARHDISLE      alt.rhode_island           alt
4649  U-AROCK         alt.rock-n-roll           alt
4650  U-AROCKMTL      alt.rock-n-roll.metal        alt
4651  U-AROMANCE      alt.romance                alt
4798  U-ARRMETALHEV   alt.rock-n-roll.metal.heavy      alt
4150  U-ARTANIM       rec.arts.anime            rec
4151  U-ARTBOOKS      rec.arts.books            rec
4153  U-ARTDRWHO      rec.arts.drwho              rec
4154  U-ARTINFIC      rec.arts.int-fiction        rec
4155  U-ARTMISC       rec.arts.misc             rec
4156  U-ARTMOVIE      rec.arts.movies             rec
4157  U-ARTMOVRE      rec.arts.movies.reviews
4158  U-ARTPOEM       rec.arts.poems             rec
4163  U-ARTSOAPS      rec.arts.tv.soaps           rec
4161  U-ARTSTINF      rec.arts.startrek.info
4162  U-ARTTV         rec.arts.tv              rec
4164  U-ARTTVUK       rec.arts.tv.uk            rec
4165  U-ARTWOBE       rec.arts.wobegon             rec
3947  U-ASATI         alt.society.ati
4807  U-ASCIASTROFI   alt.sci.astro.fits          alt
4294  U-ASEAN         soc.culture.asean            soc
4709  U-ASECURTY      alt.security              alt
4710  U-ASEWING       alt.sewing               alt
4653  U-ASEX          alt.sex                alt
4825  U-ASEXABUSERE   alt.sexual.abuse.recovery        alt
4659  U-ASEXMAST      alt.sex.masturbation         alt
4295  U-ASIANAME      soc.culture.asian.american       soc
4660  U-ASKINHDS      alt.skinheads             alt
4661  U-ASLACK        alt.slack                alt
4395  U-ASM370        comp.lang.asm370             comp
4842  U-ASNOWMOBILE   alt.snowmobiles            alt
4844  U-ASOCIEFUTUR   alt.society.futures         alt
4663  U-ASRCS         alt.sources              alt
4664  U-ASRCSAMG      alt.sources.amiga           alt
4666  U-ASRCSNDX      alt.sources.index
4667  U-ASRCSPAT      alt.sources.patches          alt
4668  U-ASRCSWNT      alt.sources.wanted          alt
4258  U-ASTRO         sci.astro               sci
4669  U-ASTUPID       alt.stupidity             alt
4670  U-ASYSSUN       alt.sys.sun              alt
4513  U-ATARI8B       comp.sys.atari.8bit          comp
4514  U-ATARIST       comp.sys.atari.st           comp
2557  U-ATHENA4SALE   athena.forsale            athena
2986  U-ATHENAANNOU   athena.announcements            athena
2988  U-ATHENAMISC    athena.misc              athena
2989  U-ATHENATEST    athena.test              athena
2654  U-ATHGAMIT      athena.gamit              athena
2558  U-ATHHOUSING    athena.housing             athena
2561  U-ATLGENERAL    atl.general              atl
2990  U-ATLJOBS       atl.jobs               atl
2991  U-ATLOLYMPIC    atl.olympics             atl
2992  U-ATLRESUME     atl.resumes              atl
2994  U-ATLTEST       atl.test               atl
4515  U-ATT           comp.sys.att             comp
4712  U-ATVMUPPT      alt.tv.muppets            alt
4713  U-ATVPRIS       alt.tv.prisoner           alt
4714  U-ATVTWIN       alt.tv.twin-peaks          alt
4167  U-AUDHIGH       rec.audio.high-end
4166  U-AUDIO         rec.audio               rec
4687  U-AUSAARNET     aus.aarnet              aus
4688  U-AUSACS        aus.acs                aus
4769  U-AUSACSNET     aus.acsnet              aus
4867  U-AUSAGEENGLI   alt.usage.english           alt
4780  U-AUSAI         aus.ai                 aus
4805  U-AUSARCHIVES   aus.archives              aus
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4824  U-AUSAUUG      aus.auug                   aus
4847  U-AUSAVIATION  aus.aviation               aus
4862  U-AUSBICYCLE   aus.bicycle                aus
4863  U-AUSBOOKS     aus.books                  aus
4916  U-AUSCOMMS     aus.comms                  aus
4939  U-AUSCOMPAMIG  aus.computers.amiga            aus
2233  U-AUSCOMPIBMP  aus.computers.ibm-pc           aus
4920  U-AUSCOMPUTER  aus.computers              aus
2532  U-AUSCONSERVE  aus.conserve               aus
2534  U-AUSCULTCHIN  aus.culture.china          aus
2540  U-AUSCULTULTI  aus.culture.ultimo         aus
2543  U-AUSEDUCATIO  aus.education              aus
2544  U-AUSFILMS     aus.films               aus
2551  U-AUSFLAME     aus.flame               aus
2550  U-AUSFOLLOWUP  aus.followup               aus
2552  U-AUSFOOTY     aus.footy               aus
2554  U-AUSFORSALE   aus.forsale                aus
3063  U-AUSFPS       aus.fps                 aus
2555  U-AUSGAMES     aus.games                  aus
2559  U-AUSGAMESROL  aus.games.roleplay             aus
2560  U-AUSGENERAL   aus.general                aus
2563  U-AUSGENSTAT   aus.genstat                aus
2564  U-AUSHIFI      aus.hi-fi               aus
2566  U-AUSJOBS      aus.jobs                aus
2584  U-AUSJOKES     aus.jokes               aus
4652  U-AUSJOKESD    aus.jokes.d                aus
4656  U-AUSKERMIT    aus.kermit                 aus
2599  U-AUSLP        aus.lp                  aus
4658  U-AUSMAC       aus.mac                 aus
2601  U-AUSMAIL      aus.mail                aus
2541  U-AUSMAP       aus.map
3879  U-AUSMBIO      aus.mbio                   aus
2604  U-AUSMOTORCYC  aus.motorcycles            aus
3472  U-AUSMUSIC     aus.music               aus
2627  U-AUSNETDIREC  aus.net.directory          aus
2632  U-AUSNETDIROS  aus.net.directory.osi-ds       aus
2633  U-AUSNETDIRQU  aus.net.directory.quipu        aus
3890  U-AUSNETSTATU  aus.netstatus              aus
4672  U-AUSNEWS      aus.news                aus
3072  U-AUSPARALLEL  aus.parallel               aus
2645  U-AUSPHOTO     aus.photo               aus
3473  U-AUSPOLITICS  aus.politics               aus
3474  U-AUSPYRAMID   aus.pyramid                aus
3475  U-AUSRADIO     aus.radio               aus
2650  U-AUSRADIOAMS  aus.radio.amsat            aus
2651  U-AUSRADIOPAC  aus.radio.packet           aus
2652  U-AUSRELIGION  aus.religion               aus
2653  U-AUSSCHEME    aus.scheme                 aus
2655  U-AUSSF        aus.sf                  aus
3894  U-AUSSNOW      aus.snow                aus
4050  U-AUSSOURCES   aus.sources                aus
4054  U-AUSSPEARNET  aus.spearnet               aus
4055  U-AUSSPORT     aus.sport               aus
4056  U-AUSSTATSS    aus.stats.s             aus
4065  U-AUSSTUDENTO  aus.students.overseas          aus
4064  U-AUSSTUDENTS  aus.students               aus
4066  U-AUSSUNWORKS  aus.sun-works              aus
3907  U-AUSWANTED    aus.wanted                 aus
2241  U-AUTOANTIQUE  rec.autos.antique          rec
4168  U-AUTOS        rec.autos               rec
3905  U-AUXTEX       aus.tex                 aus
2243  U-AVIATANSWER  rec.aviation.answers           rec
2250  U-AVIATHOMEBU  rec.aviation.homebuilt         rec
4172  U-AVIATION     rec.aviation            rec
2242  U-AVIATIONANN  rec.aviation.announce          rec
2255  U-AVIATIONIFR  rec.aviation.ifr           rec
2257  U-AVIATMILITA  rec.aviation.military          rec
2261  U-AVIATMISC    rec.aviation.misc          rec
2547  U-AVIATOWNING  rec.aviation.owning            rec
2610  U-AVIATPILOT   rec.aviation.piloting          rec
2618  U-AVIATPRODUC  rec.aviation.products          rec
2661  U-AVIATSIMULA  rec.aviation.simulators        rec
2727  U-AVIATSOARIN  rec.aviation.soaring           rec
2734  U-AVIATSTORIE  rec.aviation.stories           rec
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3909  U-BAANNOUNCE   ba.announce
4774  U-BABROADCAST  ba.broadcast                    ba
4173  U-BACKCTRY     rec.backcountry                 rec
3476  U-BADANCE      ba.dance                   ba
3477  U-BAFOOD       ba.food              ba
4781  U-BAGENERAL    ba.general             ba
2023  U-BAINTERNET   ba.internet          ba
2024  U-BAJOBSMISC   ba.jobs.misc           ba
2032  U-BAJOBSOFFER  ba.jobs.offered          ba
3478  U-BAMARKETCOM  ba.market.computers         ba
2049  U-BAMARKETHOU  ba.market.housing           ba
4812  U-BAMARKETMIS  ba.market.misc            ba
4818  U-BAMARKETVEH  ba.market.vehicles          ba
4823  U-BAMOTSS      ba.motss                ba
2058  U-BAMOUNTAINF  ba.mountain-folk           ba
4827  U-BAMUSIC      ba.music              ba
4829  U-BANEWS       ba.news              ba
2063  U-BANEWSCONFI  ba.news.config           ba
3078  U-BANEWSGROUP  ba.news.group            ba
2067  U-BANEWSSTATS  ba.news.stats           ba
2071  U-BAPOLITICS   ba.politics             ba
4235  U-BASEBALL     rec.sport.baseball          rec
4854  U-BASEMINARS   ba.seminars            ba
2080  U-BASINGLES    ba.singles            ba
3479  U-BASPORTS     ba.sports            ba
4856  U-BATEST       ba.test             ba
2679  U-BATRANSPORT  ba.transportation          ba
4858  U-BAWEATHER    ba.weather             ba
2086  U-BAWINDOW-X   ba.windows.x             ba
2656  U-BCBCNET      bc.bcnet              bc
2658  U-BCGENERAL    bc.general              bc
2995  U-BCNEWSSTATS  bc.news.stats           bc
2996  U-BCUNIX       bc.unix            bc
2659  U-BCWEATHER    bc.weather             bc
4213  U-BEATLES      rec.music.beatles          rec
4866  U-BENCHMARK    comp.benchmarks            comp
4942  U-BIGENCHRO22  bionet.genome.chrom22          bionet
4259  U-BIO          sci.bio                sci
4045  U-BIOAGE       bionet.molbio.ageing        bionet
4041  U-BIOAGROF     bionet.agroforestry         bionet
3896  U-BIOBIOCOMP   bionet.biology.computational
2662  U-BIOBIOLGYTR  bionet.biology.tropical       bionet
4047  U-BIOEMBL      bionet.molbio.embldatabank        bionet
4048  U-BIOEVOLU     bionet.molbio.evolution       bionet
3897  U-BIOGENARA    bionet.genome.arabidopsis        bionet
4042  U-BIOGENER     bionet.general           bionet
4052  U-BIOGENOME    bionet.molbio.genome-program        bionet
4697  U-BIOGENUP     bionet.molbio.genbank.updates
4049  U-BIOGNBNK     bionet.molbio.genbank          bionet 3853  U-BIOIMMUNOL   bionet.immunology            bionet
3075  U-BIOINFOTHEO  bionet.info-theory         bionet
4043  U-BIOJOBS      bionet.jobs            bionet
4044  U-BIOJOUR      bionet.journals.contents      bionet
4046  U-BIOMATRX     bionet.molbio.bio-matrix        bionet
2663  U-BIOMOLBIOHV  bionet.molbio.hiv          bionet
4374  U-BIOMOLGDB    bionet.molbio.gdb          bionet
3898  U-BIOMOLGENE   bionet.molbio.gene-linkage         bionet
2660  U-BIONETANNCE  bionet.announce
3899  U-BIONEURO     bionet.neuroscience         bionet
4376  U-BIOPLANTS    bionet.plants           bionet
4061  U-BIOPOPUL     bionet.population-bio        bionet
4058  U-BIOPROTEIN   bionet.molbio.proteins        bionet
4053  U-BIOREAGENT   bionet.molbio.methds-reagnts       bionet
4062  U-BIOSCI-R     bionet.sci-resources        bionet
2567  U-BIOSFTWRSRC  bionet.software.sources
4063  U-BIOSOFTW     bionet.software          bionet
4260  U-BIOTECH      sci.bio.technology        sci
4864  U-BIOUSERSADD  bionet.users.addresses         bionet
2997  U-BIOXTALLOGR  bionet.xtallography         bionet
4174  U-BIRDS        rec.birds             rec
3900  U-BITADMIN     bit.admin            bit
4960  U-BITADVANC1   bit.listserv.advanc-l         bit
4961  U-BITCDROMLAN  bit.listserv.cdromlan          bit
3000  U-BITETHOLOGY  bit.listserv.ethology         bit
3839  U-BITFNORD-1   bit.listserv.fnord-l          bit
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2998  U-BITGENERAL   bit.general                         bit
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2568  U-BITLBANYAN   bit.listserv.banyan-l               bit
2569  U-BITLCWIG     bit.listserv.cwis-l          bit
3841  U-BITLINKFAIL  bit.listserv.linkfail        bit
2573  U-BITLINNOPAC  bit.listserv.innopac              bit
3076  U-BITLISDASIG  bit.listserv.dasig           bit
2586  U-BITLIST3COM  bit.listserv.3com-l             bit
3086  U-BITLISTAUTI  bit.listserv.autism             bit
4388  U-BITLISTBUSL  bit.listserv.buslib-l           bit
4390  U-BITLISTDECT  bit.listserv.dectei-l           bit
2091  U-BITLISTDIPL  bit.listserv.dipl-l          bit
2703  U-BITLISTEUEA  bit.listserv.euearn-l           bit
3088  U-BITLISTLIBR  bit.listserv.libref-l        bit
4402  U-BITLISTLIBS  bit.listserv.libres
4876  U-BITLISTMIDE  bit.listserv.mideur-l           bit
4441  U-BITLISTNOTA  bit.listserv.notabene            bit
4445  U-BITLISTSLOV  bit.listserv.slovak-l           bit
4449  U-BITLISTVPIE  bit.listserv.vpiej-l         bit
3079  U-BITLISTWPWI  bit.listserv.wpwin-l            bit
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2576  U-BITLQUALRS   bit.listserv.qualrs-l         bit
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2664  U-BITLSAPPCL   bit.listserv.appc-l          bit
3910  U-BITLSAPPLIC  bit.listserv.applicat           bit
2666  U-BITLSASHEL   bit.listserv.ashe-l          bit
3911  U-BITLSBIGLAN  bit.listserv.big-lan
3919  U-BITLSC18-1   bit.listserv.c18-l           bit
2000  U-BITLSC370-1  bit.listserv.c370-l          bit
2002  U-BITLSCINEMA  bit.listserv.cinema-l          bit
2005  U-BITLSCOMMED  bit.listserv.commed               bit
2668  U-BITLSCSG-L   bit.listserv.csg-l           bit
2008  U-BITLSDB2-1   bit.listserv.db2-l           bit
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2673  U-BITLSDECNWS  bit.listserv.decnews              bit
2009  U-BITLSDISARM  bit.listserv.disarm-l           bit
2675  U-BITLSEDSTAT  bit.listserv.edstat-l           bit
3902  U-BITLSETHICS  bit.listserv.ethics-l        bit
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2022  U-BITLSGEODES  bit.listserv.geodesic            bit
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2026  U-BITLSHISTOR  bit.listserv.history         bit
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2034  U-BITLSINFONE  bit.listserv.infonets           bit
2035  U-BITLSINGRAF  bit.listserv.ingrafx         bit
2037  U-BITLSL-HCAP  bit.listserv.l-hcap
2039  U-BITLSL-VMCT  bit.listserv.l-vmctr            bit
2578  U-BITLSLART    bit.listserv.slart-l         bit
2041  U-BITLSLAWSHC  bit.listserv.lawsch-l           bit
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2078  U-BITLSVNEWS   bit.listserv.vnews-l            bit
2670  U-BITLSWEMAIL  bit.listserv.cw-email            bit
2079  U-BITLSWIN3    bit.listserv.win3-l          bit
2083  U-BITLSWORDPC  bit.mailserv.word-pc             bit
2680  U-BITLSWPCRPL  bit.listserv.wpcorp-l           bit
2081  U-BITLSXEDIT1  bit.listserv.xedit-l         bit
2682  U-BITLSXTROPY  bit.listserv.xtropy-l           bit
2579  U-BITLTEST     bit.listserv.test            bit
2580  U-BITLVMESA    bit.listserv.vmesa-l            bit
2581  U-BITLWORDS    bit.listserv.words-l            bit
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3845  U-BITSGANET    bit.listserv.sganet            bit
3846  U-BITUIGIS-1   bit.listserv.uigis-l         bit
3852  U-BIXSCOOPEN   biz.sco.opendesktop              biz
2688  U-BIZAMERICST  biz.americast              biz
2690  U-BIZAMRCSTSM  biz.americast.samples
4328  U-BIZARRE      talk.bizarre              talk
3005  U-BIZCOMTBNBL  biz.comp.telebit.netblazer        biz
3487  U-BIZCONTROL   biz.control              biz
2691  U-BIZDECDCNWS  biz.dec.decnews
3009  U-BIZDECIP     biz.dec.ip                biz
3485  U-BIZMISC      biz.misc                biz
3849  U-BIZSCOANNOU  biz.sco.announce
4470  U-BIZSCOBINAR  biz.sco.binaries
3850  U-BIZSCOGEN    biz.sco.general            biz
4487  U-BIZSCOSOURC  biz.sco.sources
3486  U-BIZSTOLEN    biz.stolen              biz
4508  U-BIZTADSPARC  biz.tadpole.sparcbook          biz
4510  U-BIZZEOUSANN  biz.zeos.announce
4512  U-BIZZEOUSGEN  biz.zeos.general            biz
3483  U-BLISTACULTL  bit.listserv.xcult-l          bit
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2048  U-BLISTEMUSIC  bit.listserv.emusic-l          bit
3482  U-BLISTFRAC-L  bit.listserv.frac-l          bit
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2044  U-BLISTMBU     bit.listserv.mbu-l          bit
4518  U-BLNGENERAL   bln.general              bln
3481  U-BLSEREDPOLY  bit.listserv.edpolyan            bit
3480  U-BLSTEDI-L    bit.listserv.edi-l          bit
4214  U-BLUENOTE     rec.music.bluenote            rec
4103  U-BNEWS        news.software.b            news
4175  U-BOATS        rec.boats              rec
2344  U-BOULDGENERA  boulder.general            boulder
4182  U-BRDGAMES     rec.games.board            rec
4183  U-BRIDGE       rec.games.bridge          rec
4296  U-BRITISH      soc.culture.british          soc
4368  U-BUG4BSDU     comp.bugs.4bsd.ucb-fixes
4366  U-BUGS2BSD     comp.bugs.2bsd            comp
4367  U-BUGS4BSD     comp.bugs.4bsd            comp
4369  U-BUGSMISC     comp.bugs.misc          comp
4492  U-BUGSRC       comp.sources.bugs          comp
4370  U-BUGSSYS5     comp.bugs.sys5            comp
2098  U-BYUNEWS      byu.news              byu
4674  U-BZCLNET      biz.clarinet            biz
4675  U-BZCLNSA      biz.clarinet.sample          biz
4676  U-BZCOMHDW     biz.comp.hardware            biz
4678  U-BZCOMSER     biz.comp.services          biz
4679  U-BZCOMSFW     biz.comp.software          biz
4681  U-BZCOMTEL     biz.comp.telebit          biz
4682  U-BZCONFIG     biz.config              biz
4684  U-BZDEC        biz.dec              biz
4686  U-BZDECWKS     biz.dec.workstations            biz
4716  U-BZJOBOFF     biz.jobs.offered          biz
4690  U-BZTEST       biz.test              biz
4396  U-C            comp.lang.c            comp
3938  U-C20          c20.0056                c20
4108  U-CANAI        can.ai              can
3935  U-CANCANETD    can.canet.d
4525  U-CANCANETSTA  can.canet.stats            can
2099  U-CANDOM       can.domain              can
3854  U-CANENGLISH   can.english            can
4109  U-CANFRANC     can.francais            can
4110  U-CANGEN       can.general            can
4111  U-CANJOBS      can.jobs              can
3016  U-CANNEWPROD   can.newprod              can
4112  U-CANPOL       can.politics            can
4113  U-CANSUN       can.sun-stroke            can
3020  U-CANTEST      can.test              can
4114  U-CANUSRGP     can.usrgroup            can
4115  U-CANUUCP      can.uucp              can
3957  U-CANUUCPMAPS  can.uucp.maps
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2583 U-CANVLSI     can.vlsi                     can
3081 U-CARCHINESE  carleton.chinese-news        carleton
4516 U-CBM         comp.sys.cbm                 comp
4891 U-CCGENERAL   cc.general                   cc
4517 U-CDC         comp.sys.cdc                 comp
3143 U-CDCOMCELLRE comp.dcom.cell-relay         comp
3144 U-CDCOMISDN   comp.dcom.isdn               comp
3145 U-CDCOMSERVER comp.dcom.servers            comp
4215 U-CDS         rec.music.cd                 rec
4572 U-CELLAUTO    comp.theory.cell-automata    comp
4297 U-CELTIC      soc.culture.celtic           soc
4756 U-CHCHUUG     ch.chuug                     ch
4261 U-CHEM        sci.chem                     sci
4184 U-CHESS       rec.games.chess              rec
4530 U-CHGENERAL   ch.general                   ch
4298 U-CHINA       soc.culture.china            soc
4537 U-CHNETWORK   ch.network                   ch
2357 U-CHPHILOAGE  ch.philo.agenda              ch
4542 U-CHSICHOOSE  ch.si.choose                 ch
4546 U-CHSIGENERAL ch.si.general                ch
4554 U-CHSISGAICO  ch.si.sgaico                 ch
4728 U-CINEMA      rec.arts.cinema
4560 U-CISGENERAL  cis.general                  cis
4576 U-CISGRADS    cis.grads                    cis
3443 U-CISUNDERGRA cis.undergrads               cis
4871 U-CLANGCLOS   comp.lang.clos               comp
4872 U-CLANGIDL    comp.lang.idl-pvwave         comp
4873 U-CLANGOBJC   comp.lang.objective-c        comp
4216 U-CLASSIC     rec.music.classical          rec
2018 U-CLONE32BIT  comp.unix.pc-clone.32bit     comp
4398 U-CLU         comp.lang.clu                comp
4248 U-CLVHDL      comp.lang.vhdl               comp
4588 U-CMHFORSALE  cmh.forsale                  cmh
4905 U-CMHGENERAL  cmh.general                  cmh
2750 U-CMHJOBS     cmh.jobs                     cmh
2784 U-CMHNETWORK  cmh.network                  cmh
2785 U-CMHOPINION  cmh.opinion                  cmh
2598 U-CMHTEST     cmh.test                     cmh
2585 U-CMPDATINFMX comp.databases.informix      comp
4943 U-CMPDCOMFAX  comp.dcom.fax                comp
2587 U-CMPGRAPHICS comp.graphics.avs            comp
2588 U-CMPLANGHRMS comp.lang.hermes             comp
2589 U-CMPORGISSN  comp.org.issnnet             comp
2590 U-CMPPATENTS  comp.patents
2591 U-CMPPTLPPP   comp.protocols.ppp           comp
4945 U-CMPSYSACORN comp.sys.acorn               comp
4946 U-CMPSYSNOVLL comp.sys.novell              comp
2593 U-CMPSYSPRIME comp.sys.prime               comp
2594 U-CMPTXTFRAME comp.text.frame              comp
4433 U-CMUSIC      comp.music                   comp
4874 U-COEFFTALK   comp.org.eff.talk            comp
2600 U-COGENERAL   co.general                   co
4371 U-COGENG      comp.cog-eng                 comp
2871 U-COLLECTCARD rec.collecting.cards         rec
4290 U-COLLEGE     soc.college                  soc
4778 U-COMACAPP3   comp.sys.mac.oop.macapp3     comp
4706 U-COMADVOCACY comp.sys.mac.advocacy        comp
3772 U-COMAIGENET  comp.ai.genetic              comp
4051 U-COMANNOUNCE comp.os.linux.announce       comp
2003 U-COMANNOUNCE comp.sys.sgi.announce        comp
3881 U-COMARCBUS   comp.arch.bus.vmebus         comp
3983 U-COMARCDOSD  comp.archives.msdos.d        comp
4007 U-COMCLISERVE comp.client-server           comp
4566 U-COMCONVEX   comp.sys.convex              comp
4028 U-COMDATBASE  comp.databases.sybase        comp
3970 U-COMDOSANN   comp.archives.msdos.announce
2014 U-COMDOSUNIX  comp.unix.dos-under.unix     comp
2603 U-COMEGIARMN  co.media.rmn                 co
3635 U-COMFUZZY    comp.ai.fuzzy                comp
2007 U-COMGRAPHICS comp.sys.sgi.graphics        comp
4031 U-COMGRAPHLOT comp.graphics.gnuplot        comp
4033 U-COMGRAPOPEN comp.graphics.opengl1        comp
4032 U-COMLANGC++  comp.lang.c++                comp
4035 U-COMLANGPOP  pubnet.wanted                pubnet
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```
4944  U-COMMACMISC   comp.sys.mac.oop.misc              comp
4038  U-COMMAILMINE  comp.mail.mime              comp
2015  U-COMMISCUNIX  comp.unix.osf.misc          comp
4898  U-COMNEXANNOU  comp.sys.next.announce
3855  U-COMPADPOLIC  comp.admin.policy              comp
3792  U-COMPANSWERS  comp.answers
2693  U-COMPAPSSPRD  comp.apps.spreadsheets         comp
3856  U-COMPARCADMI  comp.archives.admin          comp
2694  U-COMPARCSTOR  comp.arch.storage            comp
2608  U-COMPBBSMISC  comp.bbs.misc            comp
2695  U-COMPBBSWAFL  comp.bbs.waffle            comp
2609  U-COMPBINACOR  comp.binaries.acorn
3134  U-COMPBINAMIG  comp.binaries.amiga
3135  U-COMPBINAPP2  comp.binaries.apple2         comp
3136  U-COMPBINATST  comp.binaries.atari.st
3138  U-COMPBINIBMA  comp.binaries.ibm.pc.archives       comp
3139  U-COMPBINIBMD  comp.binaries.ibm.pc.d        comp
3137  U-COMPBINIBMP  comp.binaries.ibm.pc
3140  U-COMPBINIBMW  comp.binaries.ibm.pc.wanted        comp
3141  U-COMPBINMAC   comp.binaries.mac
3142  U-COMPBINOS2   comp.binaries.os2
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2816  U-COMPCOMPRES  comp.compression.research         comp
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3084  U-COMPDCLANFI  comp.dcom.lans.fddi          comp
3085  U-COMPDCLANMI  comp.dcom.lans.misc          comp
2701  U-COMPDCOMETH  comp.dcom.lans.ethernet         comp
3880  U-COMPDESQVIE  comp.os.msdos.desqview         comp
2697  U-COMPDTABSIN  comp.databases.ingres        comp
2700  U-COMPDTBTHER  comp.databases.theory          comp
4910  U-COMPGRAPEXP  comp.graphics.explorer         comp
3862  U-COMPGRAPRES  comp.graphics.research
3873  U-COMPGRAVS    comp.lsi.testing           comp
3868  U-COMPHUMANFA  comp.human-factors           comp
4372  U-COMPILRS     comp.compilers
4072  U-COMPINFOGIS  comp.infosystems.gis          comp
4076  U-COMPINFOGOP  comp.infosystems.gopher          comp
2704  U-COMPINFWAIS  comp.infosystems.wais          comp
3087  U-COMPINLIBRA  comp.internet.library
3872  U-COMPLALISP   comp.lang.lisp.mcl           comp
3871  U-COMPLANFORT  comp.lang.fortran           comp
3870  U-COMPLANGC++  comp.lang.c!!            comp
4034  U-COMPLANGDX   comp.lang.dylan           comp
3146  U-COMPLANGLIS  comp.lang.lisp          comp
2368  U-COMPLANGLOG  comp.lang.logo            comp
3089  U-COMPLANGTCL  comp.lang.tcl            comp
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3955  U-COMPLANMOD3  comp.lang.modula3            comp
4432  U-COMPMISC     comp.misc            comp
4081  U-COMPMULTIME  comp.multimedia            comp
2746  U-COMPNEXTSFT  comp.sys.next.software         comp
2744  U-COMPNXTHDWR  comp.sys.next.hardware          comp
3877  U-COMPORGACM   comp.org.acm              comp
2706  U-COMPORGEFF   comp.org.eff.news
2092  U-COMPOSCOHER  comp.os.coherent            comp
2707  U-COMPOSLINUX  comp.os.linux            comp
3156  U-COMPOSVXWOR  comp.os.vxworks            comp
4991  U-COMPPALMTOP  comp.sys.palmtops           comp
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4090  U-COMPROGRAM   comp.programming            comp
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4107  U-COMPSOCDIG   comp.society.cu-digest
2093  U-COMPSOCFOLK  comp.society.folklore
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2094  U-COMPSOU3B1   comp.sources.3b1
2038  U-COMPSOUHP48  comp.sources.hp48
3158  U-COMPSOURREV  comp.sources.reviewed
2087  U-COMPSPECIFZ  comp.specification.z          comp
2740  U-COMPSRCACRN  comp.sources.acorn
3484  U-COMPSTDANNO  comp.std.announce
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```
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2019 U-COMPSYS3    comp.unix.sys3             comp
2020 U-COMPSYS5    comp.unix.sys5.misc           comp
2027 U-COMPSYS5R    comp.unix.sys5.r3          comp
2028 U-COMPSYS5R4  comp.unix.sys5.r4          comp
2681 U-COMPSYSACAD  comp.sys.acorn.advocacy        comp
2683 U-COMPSYSACAN  comp.sys.acorn.announce
3444 U-COMPSYSACTE  comp.windows.x.pex          comp
3159 U-COMPSYSAPP2  comp.sys.apple2            comp
2097 U-COMPSYSHP48  comp.sys.hp48             comp
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3440 U-COMPSYSSUNW  comp.sys.sun.wanted          comp
3441 U-COMPSYSUNIS  comp.sys.unisys            comp
3163 U-COMPSYSZENI  comp.sys.zenith.z100          comp
3442 U-COMPTEXTINT  comp.text.interleaf          comp
3164 U-COMPUNIXBSD  comp.unix.bsd             comp
3449 U-COMPWINPTOO  comp.os.ms-windows.programmer.tools   comp
3453 U-COMPWINXAPP  comp.windows.x.apps           comp
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2006 U-COMSGIBUGS    comp.sys.sgi.bugs          comp
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2031 U-COMWIN386    comp.windows.x.i386unix        comp
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4909 U-CONTROLGRP   control              control
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3148 U-COSMSWINANN  comp.os.ms-windows.announce
3149 U-COSMSWINAPP  comp.os.ms-windows.apps          comp
3150 U-COSMSWINMIS  comp.os.ms-windows.misc         comp
3154 U-COSMSWINPCG  comp.os.msdos.pcgeos          comp
3151 U-COSMSWINPRM  comp.os.ms-windows.programmer.misc    comp
3153 U-COSMSWINSET  comp.os.ms-windows.setup         comp
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4875 U-COSUG      comp.org.sug              comp
2607 U-COTEST     co.test               co
4291 U-COUPLES     soc.couples              soc
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4443 U-CPM       comp.os.cpm              comp
4444 U-CPMAMETH    comp.os.cpm.amethyst           comp
3952 U-CRESJAPAN    comp.research.japan
4733 U-CRICKET     rec.sport.cricket           rec
3200 U-CRUZIOGENER  cruzio.general            cruzio
4135 U-CRUZIONETWO  cruzio.network            cruzio
4262 U-CRYPTION    sci.crypt               sci
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4250 U-CSAMANNOUNC  comp.sys.amiga.announce
```

```
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4478 U-CSAMEMULATI  comp.sys.amiga.emulations        comp
4255 U-CSAMGRAPHIC  comp.sys.amiga.graphics          comp
4253 U-CSAMINTROD   comp.sys.amiga.introduction      comp
4350 U-CSAMMARKET   comp.sys.amiga.marketplace       comp
4247 U-CSAMMISC     comp.sys.amiga.misc              comp
4475 U-CSAMMULTIME  comp.sys.amiga.multimedia        comp
4249 U-CSAMPROG     comp.sys.amiga.programmer        comp
4252 U-CSAMREVIEWS  comp.sys.amiga.reviews
4019 U-CSATARITECH  comp.sys.atari.st.tech           comp
3204 U-CSCUKNEWS    cscuk.news                       cscuk
4144 U-CSDAFLB      csd.aflb                  csd
2169 U-CSDBBOARD    csd.bboard                   csd
2171 U-CSDBUILDING  csd.building                 csd
2806 U-CSDLOGIC     csd.logic                 csd
4159 U-CSDMACHINHP  csd.machines.hp              csd
2175 U-CSDNEWPHD    csd.new-phd                  csd
4160 U-CSDSPORTS    csd.sports                csd
4194 U-CSSTUGENER   csstu.general                csstu
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3934 U-CSYS3B1      comp.sys.3b1                 comp
3211 U-CSYSIBMGAME  comp.sys.ibm.pc.games         comp
2776 U-CTDLATARI8   ctdl.sys.atari8          ctdl
2775 U-CTDLATARIST  ctdl.sys.atari.st           ctdl
2772 U-CTDLLANGC    ctdl.lang.c                 ctdl
2774 U-CTDLLANGCPL  ctdl.lang.c!!               ctdl
4200 U-CTDLLANPAS   ctdl.lang.pascal             ctdl
3166 U-CTDLSYSMAC   ctdl.sys.mac              ctdl
4201 U-CUAPPLMATH   cu.applmath                  cu
2781 U-CUCSCLIM     cu.cs.clim                cu
2782 U-CUCSGRADS    cu.cs.grads                  cu
2783 U-CUCSMACLINF  cu.cs.macl.info              cu
2367 U-CUCSSYSTAT   cu.cs.systat               cu
4208 U-CUCSUGRADS   cu.cs.ugrads                 cu
2787 U-CUDECSTNMNG  cu.decstation.managers           cu
2780 U-CUDENGEN     cu-den.general                cu-den
2789 U-CUGARNET     cu.garnet                 cu
2821 U-CUGENERAL    cu.general                cu
3217 U-CUICS        cu.ics                 cu
2193 U-CULTBOSNA    soc.culture.bosna.herzgvna        soc
2192 U-CULTCROATIA  soc.culture.croatia          soc
2190 U-CULTINDTELU  soc.culture.indian.telugu         soc
4307 U-CULTMISC     soc.culture.misc             soc
2792 U-CUMOTIFTLK   cu.motif-talk               cu
2205 U-CUNETSTAT    cu.netstat                cu
4020 U-CUNIXAMIGA   comp.unix.amiga              comp
2766 U-CUPHYSICGRA  cu.physics.ugrads             cu
2793 U-CUSLUG       cu.slug                   cu
3222 U-CUTEST       cu.test                  cu
4236 U-CUVLSI       cu.vlsi                cu
4237 U-CWOX11INTRI  cwo.x11.intrinsics            cwo
2366 U-CWOX11MLTAL  cwo.x11.mltalk               cwo
2365 U-DALGENERAL   dal.general                  dal
4729 U-DANCE        rec.arts.dance             rec
4373 U-DB           comp.databases               comp
4745 U-DCM-CISC     comp.dcom.sys.cisco            comp
4375 U-DCOMHYP      comp.dcom.lans.hyperchannel       comp
4377 U-DCOMMODM     comp.dcom.modems              comp
4378 U-DCOMTELE     comp.dcom.telecom
4021 U-DDNMGTBL     ddn.mgt-bulletin
4022 U-DDNNEWS      ddn.newsletter
4520 U-DEC          comp.sys.dec               comp
4521 U-DECMICRO     comp.sys.dec.micro             comp
4436 U-DECUS        comp.org.decus              comp
4217 U-DEMENTIA     rec.music.dementia             rec
2198 U-DENTISTRY    sci.med.dentistry            sci
4570 U-DESKTOP      comp.text.desktop             comp
2364 U-DNSUPERS     dn.supers                dn
3227 U-DNSUPERSDIS  dn.supers.disc               dn
4379 U-DOC          comp.doc
4380 U-DOC-TECH     comp.doc.techreports
3228 U-DSMNETWORK   dsm.network                  dsm
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```
4381  U-DSP          comp.dsp                      comp
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3243  U-EDMUSRGRP    edm.usrgrp                    edm
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4384  U-EDUCOMP      comp.edu.composition          comp
4399  U-EIFFEL       comp.lang.eiffel              comp
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4131  U-EMERG        misc.emerg-services           misc
4185  U-EMPIRE       rec.games.empire              rec
4522  U-ENCORE       comp.sys.encore               comp
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2146  U-ENGRCONTROL  sci.engr.control              sci
4341  U-ENVIRO       talk.environment              talk
4176  U-EQUESTR      rec.equestrian                rec
4730  U-EROTICA      rec.arts.erotica
4321  U-ESMOTIF      es.motif                      es
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2626  U-EUNWORKS     eunet.works                   eunet
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3171  U-FJCOMPSPEEC  fj.comp.speech                fj
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3018  U-FJEDITORMI   fj.editor.misc                fj
3038  U-FJEDITORSE   fj.editor.sse                 fj
2808  U-FJFOLLOWUP   fj.followup                   fj
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3024  U-FJGUIADMIN   fj.guide.admin
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3041  U-FJKANJI      fj.kanji              fj
3042  U-FJKERMIT     fj.kermit             fj
2822  U-FJLAN        fj.lan                fj
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2824  U-FJLANGC      fj.lang.c                fj
2825  U-FJLANGFORTH  fj.lang.forth              fj
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3049  U-FJLECTURES   fj.lectures              fj
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3248  U-FJMAILLSTTP  fj.mail-lists.types
3174  U-FJMEETINGS   fj.meetings              fj
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3175  U-FJMISCHANDI  fj.misc.handicap           fj
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2837  U-FJMLCONNECT  fj.mail-lists.connectionist
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3177  U-FJNEWSADM    fj.news.adm             fj
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2852  U-FJNEWSLISTS  fj.news.lists            fj
3251  U-FJNEWSMAP    fj.news.map             fj
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2855  U-FJNEWSNEWSI  fj.news.newsite           fj
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2859  U-FJOSMSDOS    fj.os.msdos             fj
3179  U-FJOSOS9      fj.os.os9             fj
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2183  U-FJRECGAMSC   fj.rec.games.scores         fj
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2184  U-FJRECMODEL   fj.rec.models            fj
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2885  U-FJRECPHOTO   fj.rec.photo            fj
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2186  U-FJRECSPBASK  fj.rec.sports.basketball          fj
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2188  U-FJRECTRAAIR  fj.rec.travel.air
2894  U-FJRECTRAVEL  fj.rec.travel              fj
2189  U-FJRECTRAVJA  fj.rec.travel.japan
2281  U-FJRECTRAVWO  fj.rec.travel.world
2895  U-FJRECTV     fj.rec.tv                 fj
2877  U-FJREMIDOL    fj.rec.idol               fj
2896  U-FJSCIASTRO   fj.sci.astro              fj
2897  U-FJSCIBIO     fj.sci.bio               fj
2898  U-FJSCICHEM    fj.sci.chem               fj
2282  U-FJSCIGEO     fj.sci.geo               fj
2899  U-FJSCILANG    fj.sci.lang               fj
2900  U-FJSCIMATH    fj.sci.math               fj
2901  U-FJSCIMISC    fj.sci.misc              fj
2902  U-FJSCIPHYSIC  fj.sci.physics             fj
2283  U-FJSCIPSYCHO  fj.sci.psychology            fj
2285  U-FJSOCCULTUR  fj.soc.culture             fj
2286  U-FJSOCENVIRO  fj.soc.environment           fj
2904  U-FJSOCLAW     fj.soc.law               fj
2905  U-FJSOCMENWOM  fj.soc.men-women              fj
2906  U-FJSOCMISC    fj.soc.misc               fj
2907  U-FJSOCTECHU   fj.soc.tech               fj
2908  U-FJSOCTRAFFI  fj.soc.traffic             fj
2909  U-FJSOURCES    fj.sources               fj
3181  U-FJSOURCESD   fj.sources.d              fj
2287  U-FJSOURCESMA  fj.sources.mac             fj
2288  U-FJSTD       fj.std             fj
2954  U-FJSYSEWS480  fj.sys.ews4800             fj
3182  U-FJSYSFAMICO  fj.sys.famicom             fj
2801  U-FJSYSHP     fj.sys.hp                fj
2289  U-FJSYSIBMPC   fj.sys.ibmpc              fj
3183  U-FJSYSJ3100   fj.sys.j3100              fj
2200  U-FJSYSLUNA    fj.sys.luna              fj
3184  U-FJSYSMAC     fj.sys.mac               fj
2917  U-FJSYSNEWS    fj.sys.news               fj
2918  U-FJSYSNEXT    fj.sys.next              fj
3185  U-FJSYSPC98    fj.sys.pc98              fj
3186  U-FJSYSRS6000  fj.sys.rs6000             fj
2202  U-FJSYSSGI     fj.sys.sgi               fj
2921  U-FJSYSX68000  fj.sys.x68000             fj
2922  U-FJTEST      fj.test              fj
2923  U-FJUNIX      fj.unix              fj
3937  U-FJUNIXWIZAR  fj.unix.wizards            fj
3936  U-FJWANTED     fj.wanted               fj
2203  U-FJWINDOWGMW  fj.windows.gmw               fj
4719  U-FJWINDOWMIS  fj.windows.misc             fj
2928  U-FJWINDOWSX   fj.windows.x              fj
2827  U-FLANGMISC    fj.lang.misc              fj
2260  U-FLANNOUNCE   fl.announce              fl
2270  U-FLATTRACTIO  fl.attractions             fl
2262  U-FLCOMP      fl.comp              fl
2263  U-FLCOMPREP    fl.comp.rep              fl
2265  U-FLFORSALE    fl.forsale              fl
2266  U-FLGENERAL    fl.general              fl
2268  U-FLJOBS      fl.jobs             fl
2970  U-FLMAIL      fl.mail             fl
3500  U-FLNEWS      fl.news              fl
3501  U-FLSOURCES    fl.sources              fl
3502  U-FLTRAVEL     fl.travel              fl
3448  U-FLUUG       fl.uug             fl
3503  U-FLYUMYUM     fl.yumyum               fl
3504  U-FNETAFUU     fnet.afuu              fnet
3505  U-FNETC3      fnet.c3             fnet
3506  U-FNETCOMBIN   fnet.combinatoire           fnet
3507  U-FNETCOMMON   fnet.common-lp             fnet
3508  U-FNETCULTUR   fnet.culture              fnet
3509  U-FNETFOLLOW   fnet.followup             fnet
3510  U-FNETGENERA   fnet.general              fnet
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3511  U-FNETGRECOP   fnet.greco-prog                    fnet
3512  U-FNETHYPERC   fnet.hypercubes                    fnet
3513  U-FNETIA       fnet.ia                    fnet
3514  U-FNETLANG     fnet.lang                    fnet
3515  U-FNETLELISP   fnet.lelisp                fnet
3516  U-FNETLMASAT   fnet.lmastat                    fnet
3517  U-FNETSEMINA   fnet.seminaires                fnet
3518  U-FNETSM90     fnet.sm90                    fnet
3519  U-FNETSPS9     fnet.sps9                    fnet
3520  U-FNETTEST     fnet.test                fnet
4177  U-FOLKDANC     rec.folk-dancing                    rec
4219  U-FOLKMUSI     rec.music.folk                rec
4386  U-FONTS        comp.fonts                comp
4178  U-FOODCOOK     rec.food.cooking                rec
4132  U-FORSALE      misc.forsale                misc
4913  U-FORSALECOMP  misc.forsale.computers           misc
2156  U-FORSALEMAC   misc.forsale.computers.mac         misc
2157  U-FORSALOTHER  misc.forsale.computers.other        misc
4400  U-FORTH        comp.lang.forth                comp
4401  U-FORTHMAC     comp.lang.forth.mac            comp
4736  U-FRENCH       soc.culture.french            soc
3521  U-FRMUGGENER   frmug.general                    frmug
2158  U-FRSALECLONE  misc.forsale.computers.other        misc
3522  U-FUBGENERAL   fub.general                    fub
2920  U-FYSYSSUN     fj.sys.sun                fj
4220  U-GAFFA        rec.music.gaffa
3523  U-GAFORSALE    ga.forsale                    ga
3524  U-GAGENERAL    ga.general                    ga
4181  U-GAMBLING     rec.gambling                rec
3152  U-GAMEABSTRAC  rec.games.abstract               rec
3165  U-GAMEDIPLOMA  rec.games.diplomacy              rec
3189  U-GAMEINTFICT  rec.games.int-fiction            rec
3190  U-GAMEMECHA    rec.games.mecha                rec
4189  U-GAMEMISC     rec.games.misc                rec
4494  U-GAMESSRC     comp.sources.games
4198  U-GARDENS      rec.gardens                rec
3525  U-GATEST       ga.test                ga
4245  U-GDEAD        rec.music.gdead                rec
4737  U-GERMAN       soc.culture.german                soc
3526  U-GITCCGENER   git.cc.general                git
3527  U-GITCCHELP    git.cc.help                git
4495  U-GMBUGSRC     comp.sources.games.bugs            comp
4068  U-GNUANNOUNC   gnu.announce
4069  U-GNUBASH      gnu.bash.bug
4070  U-GNUCHESS     gnu.chess                gnu
3528  U-GNUEMACANN   gnu.emacs.announce
4073  U-GNUEMACSB    gnu.emacs.bug
4075  U-GNUEMACSG    gnu.emacs.gnus                gnu
4074  U-GNUEMACSN    gnu.emacs.gnews                gnu
4077  U-GNUEMACSV    gnu.emacs.vms                gnu
3187  U-GNUG++ANNOU  gnu.g!!.announce
3188  U-GNUG++HELP   gnu.g!!.help                gnu
4592  U-GNUGCCBG     gnu.gcc.bug
4593  U-GNUGDBBG     gnu.gdb.bug
4594  U-GNUGHOST     gnu.ghostscript.bug
4595  U-GNUMISC      gnu.misc.discuss                gnu
4597  U-GNUUTILS     gnu.utils.bug
4187  U-GO           rec.games.go                rec
4870  U-GPHCVISUAL   comp.graphics.visualization        comp
4387  U-GRAPHICS     comp.graphics                comp
4300  U-GREEK        soc.culture.greek            soc
4389  U-GRPWARE      comp.groupware                comp
4199  U-GUNS         rec.guns
4188  U-HACK         rec.games.hack                rec
3529  U-HACKERSTAT   hackercorp.statistics          hackercorp
4523  U-HANDHELD     comp.sys.handhelds                comp
4133  U-HANDICAP     misc.handicap
3530  U-HARTEST      harvard.test                harvard
4424  U-HEADERS      comp.mail.headers            comp
4134  U-HEADLINE     misc.headlines                misc
2167  U-HEALTHALTRN  misc.health.alternative            misc
3191  U-HERALDDRY    rec.heraldry                rec
3531  U-HFXGENERAL   hfx.general                hfx
4238  U-HOCKEY       rec.sport.hockey                rec
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4342  U-HOMOSEXU    soc.motss                    soc
4301  U-HONGKONG    soc.culture.hongkong            soc
4130  U-HOUSE       misc.consumers.house            misc
4524  U-HP          comp.sys.hp               comp
3533  U-HSVFLAME    hsv.flame                 hsv
3534  U-HSVFORSALE  hsv.forsale               hsv
3535  U-HSVGENERAL  hsv.general               hsv
3536  U-HSVJOBS     hsv.jobs                hsv
3537  U-HSVPOLITIC  hsv.politics              hsv
3538  U-HSVRELIGIO  hsv.religion              hsv
3539  U-HSVTECH     hsv.tech                hsv
4204  U-HUMFUNNY    rec.humor.funny
4203  U-HUMOR       rec.humor                 rec
4205  U-HUMORDIG    rec.humor.d               rec
4322  U-HUMRGHTS    soc.rights.human            soc
3192  U-HUNTING     rec.hunting               rec
3540  U-HWGENERAL   hw.general                hw
4526  U-IBMPCDIG    comp.sys.ibm.pc.digest
4889  U-IBMPCHARDWR comp.sys.ibm.pc.hardware        comp
4890  U-IBMPCMISC   comp.sys.ibm.pc.misc          comp
4527  U-IBMPCRT     comp.sys.ibm.pc.rt          comp
4460  U-IBMPROTO    comp.protocols.ibm          comp
4892  U-IBMPS2HRDWR comp.sys.ibm.ps2.hardware        comp
4403  U-ICON        comp.lang.icon            comp
4404  U-IDL         comp.lang.idl           comp
4438  U-IEEE        comp.org.ieee           comp
2665  U-IEEEANNOUNC ieee.announce               ieee
3541  U-IEEECONFIG  ieee.config               ieee
2667  U-IEEEGENERAL ieee.general               ieee
3542  U-IEEEPCNFS   ieee.pcnfs               ieee
2669  U-IEEERABANCE ieee.rab.announce            ieee
3543  U-IEEERABGEN  ieee.rab.general             ieee
3544  U-IEEEREGIO1  ieee.region1             ieee
2672  U-IEEETABANCE ieee.tab.announce            ieee
3545  U-IEEETABGEN  ieee.tab.general            ieee
3546  U-IEEETCOS    ieee.tcos
2674  U-IEEEUSABANC ieee.usab.announce            ieee
3547  U-IEEEUSABGE  ieee.usab.general            ieee
3548  U-INBIZARRE   in.bizarre               in
2676  U-INFOACDMCFR info.academic-freedom
3556  U-INFOADMIN   info.admin
3557  U-INFOBIND    info.bind
3558  U-INFOBRLCAD  info.brl-cad
3559  U-INFOBYTECO  info.bytecounters
3560  U-INFOCONVEX  info.convex
2684  U-INFOFRARMS  info.firearms
2685  U-INFOFRARMSP info.firearms.politics
2686  U-INFOGATED   info.gated
2689  U-INFOIETF    info.ietf
3561  U-INFOIETFHO  info.ietf.hosts
3562  U-INFOIETFIS  info.ietf.isoc
3563  U-INFOIETFNJ  info.ietf.njm
2692  U-INFOIETFSMP info.ietf.smtp
3564  U-INFOISODE   info.isode
3565  U-INFOJETHRO  info.jethro-tull
3566  U-INFOLABMGR  info.labmgr
3567  U-INFOMACH    info.mach
2696  U-INFOMHWRKRS info.mh.workers
2698  U-INFONETS    info.nets
2699  U-INFONSFGRNT info.nsf.grants
3568  U-INFONSFNETC info.nsfnet.cert
3569  U-INFONSFNETS info.nsfnet.status
2702  U-INFONYSERSN info.nysersnmp
3570  U-INFOOSF     info.osf
3571  U-INFOPEMDEV  info.pem-dev
2705  U-INFOPH      info.ph
4574  U-INFORETR    comp.theory.info-retrieval
3572  U-INFORFC     info.rfc
2708  U-INFOSLUG    info.slug
2709  U-INFOSNMP    info.snmp
2745  U-INFOSUNMGRS info.sun-managers
3573  U-INFOSUNNET  info.sun-nets
4391  U-INFOSYST    comp.infosystems            comp
2747  U-INFOTHEORYN info.theorynt
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3574 U-INFOUNIXSW   info.unix-sw
3549 U-INGENERAL    in.general                in
3550 U-INHAMRADIO   in.ham-radio              in
3551 U-INJOBS       in.jobs              in
3552 U-INMISC       in.misc              in
3553 U-INPCMAC      in.pc.mac            in
4503 U-INTERSTD     comp.std.internat        comp
3554 U-INTEST       in.test              in
3555 U-INUNIX       in.unix              in
4136 U-INVEST       misc.invest              misc
4738 U-IRANIAN      soc.culture.iranian        soc
4531 U-ISIS         comp.sys.isis          comp
4461 U-ISO          comp.protocols.iso         comp
4462 U-ISODEVEL     comp.protocols.iso.dev-environ    comp
4463 U-ISOX400      comp.protocols.iso.x400         comp
4464 U-ISOX400G     comp.protocols.iso.x400.gateway
4392 U-IVIDEOD      comp.ivideodisc          comp
4303 U-JAPAN        soc.culture.japan          soc
4304 U-JEWISH       soc.culture.jewish         soc
4914 U-JOBCONTRACT  misc.jobs.contract          misc
4139 U-JOBRESUM     misc.jobs.resumes          misc
4137 U-JOBSMISC     misc.jobs.misc           misc
2716 U-JUNK         junk                 junk
2258 U-K12CHATELEM  k12.chat.elementary          k12
2259 U-K12CHATJUNI  k12.chat.junior          k12
2717 U-K12CHATTEAC  k12.chat.teacher           k12
2718 U-K12EDART     k12.ed.art             k12
2720 U-K12EDBUSINE  k12.ed.business           k12
2721 U-K12EDCOMPLI  k12.ed.comp.literacy          k12
2722 U-K12EDHEALTH  k12.ed.health-pe           k12
2723 U-K12EDLIFESK  k12.ed.life-skills          k12
2724 U-K12EDMATH    k12.ed.math            k12
2725 U-K12EDMUSIC   k12.ed.music           k12
2726 U-K12EDSCIENC  k12.ed.science           k12
2728 U-K12EDSPECIA  k12.ed.special           k12
2729 U-K12EDTAG     k12.ed.tag             k12
2730 U-K12EDTECH    k12.ed.tech            k12
2731 U-K12LANGART   k12.lang.art           k12
2732 U-K12LANGDEUT  k12.lang.deutsch-eng          k12
2733 U-K12LANGESPE  k12.lang.esp-eng           k12
2735 U-K12LANGRUSS  k12.lang.russian           k12
2738 U-K12SYSCHA10  k12.sys.channel10           k12
2924 U-K12SYSCHA11  k12.sys.channel11           k12
2925 U-K12SYSCHA12  k12.sys.channel12           k12
2736 U-K12SYSCHAN0  k12.sys.channel0           k12
2737 U-K12SYSCHAN1  k12.sys.channel1           k12
2926 U-K12SYSCHAN2  k12.sys.channel2           k12
2927 U-K12SYSCHAN3  k12.sys.channel3           k12
2930 U-K12SYSCHAN4  k12.sys.channel4           k12
2931 U-K12SYSCHAN5  k12.sys.channel5           k12
2933 U-K12SYSCHAN6  k12.sys.channel6           k12
2937 U-K12SYSCHAN7  k12.sys.channel7           k12
2949 U-K12SYSCHAN8  k12.sys.channel8           k12
2966 U-K12SYSCHAN9  k12.sys.channel9           k12
4465 U-KERBEROS     comp.protocols.kerberos         comp
4466 U-KERMIT       comp.protocols.kermit
3575 U-KIDLINKTES   kidlink.test
4140 U-KIDS         misc.kids                misc
4305 U-KOREAN       soc.culture.korean         soc
3576 U-KSADMIN      ks.admin             ks
3577 U-KSMISC       ks.misc              ks
3578 U-KWBBSALE     kw.bb.sale             kw
3579 U-KWBIRTHDAY   kw.birthdays             kw
3580 U-KWCPSR       kw.cpsr              kw
3581 U-KWEATS       kw.eats              kw
3582 U-KWFUN        kw.fun               kw
2742 U-KWHOUSING    kw.housing             kw
3583 U-KWJOBS       kw.jobs              kw
3584 U-KWMICRO      kw.micro             kw
3585 U-KWMICROVAX   kw.microvax              kw
3586 U-KWMOVIES     kw.movies              kw
3587 U-KWNEWS       kw.news              kw
3588 U-KWNEWSSTAT   kw.news.stats            kw
3589 U-KWSTATS      kw.stats               kw
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3590  U-KWTHEATRE    kw.theatre                    kw
3591  U-KWUUCP       kw.uucp                       kw
4759  U-L9370        bit.listserv.9370-l           bit
4760  U-LAIX         bit.listserv.aix-l            bit
4268  U-LANGJAP      sci.lang.japan               sci
4408  U-LANGMISC     comp.lang.misc                comp
4267  U-LANGUAGE     sci.lang                     sci
4761  U-LAPPLE2      bit.listserv.apple2-l         bit
4532  U-LAPTOPS      comp.sys.laptops              comp
4420  U-LASERPRT     comp.laser-printers
4763  U-LASM370      bit.listserv.asm370           bit
4306  U-LATINAME     soc.culture.latin-america     soc
4764  U-LBILLING     bit.listserv.billing          bit
4765  U-LBITNEWS     bit.listserv.bitnews          bit
4766  U-LCANDLE      bit.listserv.candle-l         bit
4767  U-LCHRIST      bit.listserv.christia
4768  U-LCMSPIP      bit.listserv.cmspip-l         bit
4770  U-LCUMREC      bit.listserv.cumrec-l         bit
4771  U-LCYBER       bit.listserv.cyber-l          bit
4772  U-LDBASE       bit.listserv.dbase-l          bit
4773  U-LDOMAIN      bit.listserv.domain-l         bit
4775  U-LEARNTCH     bit.listserv.earntech         bit
4141  U-LEGAL        misc.legal                   misc
4776  U-LENVBEH      bit.listserv.envbeh-l         bit
4777  U-LERL         bit.listserv.erl-l            bit
4779  U-LFILM        bit.listserv.film-l           bit
4782  U-LGAMES       bit.listserv.games-l          bit
4783  U-LGDDM        bit.listserv.gddm-l           bit
4784  U-LGGUIDE      bit.listserv.gguide           bit
4785  U-LGUTNBER     bit.listserv.gutnberg         bit
4786  U-LHELLAS      bit.listserv.hellas
4787  U-LIAMIGA      bit.listserv.i-amiga          bit
4790  U-LIBM7171     bit.listserv.ibm7171          bit
4788  U-LIBMMAIN     bit.listserv.ibm-main         bit
4789  U-LIBMNETS     bit.listserv.ibm-nets         bit
4792  U-LINFOGCG     bit.listserv.info-gcg         bit
4793  U-LIOOB        bit.listserv.ioob-l           bit
4794  U-LISN         bit.listserv.isn              bit
4405  U-LISP         comp.lang.lisp.franz          comp
4795  U-LJES2        bit.listserv.jes2-l           bit
4796  U-LJNET        bit.listserv.jnet-l           bit
4799  U-LLIAISON     bit.listserv.liaison          bit
4800  U-LLICENSE     bit.listserv.license          bit
4801  U-LLITERAR     bit.listserv.literary         bit
4803  U-LMAIL        bit.listserv.mail-l           bit
4804  U-LMAILBOO     bit.listserv.mailbook         bit
4810  U-LNETNEWS     bit.listserv.netnws-l         bit
4811  U-LNEWLIST     bit.listserv.new-list
4813  U-LNEXT        bit.listserv.next-l           bit
4746  U-LNG-FUNC     comp.lang.functional          comp
4814  U-LNODMGT      bit.listserv.nodmgt-l         bit
4815  U-LNOTIS       bit.listserv.notis-l          bit
4816  U-LNOVELL      bit.listserv.novell           bit
4269  U-LOGIC        sci.logic                    sci
4817  U-LOMRSCAN     bit.listserv.omrscan          bit
3592  U-LOUGENERAL   lou.general                   lou
3593  U-LOUSUN       lou.sun                       lou
4819  U-LOZONE       bit.listserv.ozone            bit
4820  U-LPACS        bit.listserv.pacs-l
4821  U-LPAGE        bit.listserv.page-l           bit
4822  U-LPMDF        bit.listserv.pmdf-l           bit
4826  U-LRELUSR      bit.listserv.relusr-l         bit
4828  U-LRSCSMOD     bit.listserv.rscsmods         bit
3594  U-LSAMNESTY    ls.amnesty                    ls
4831  U-LSAS         bit.listserv.sas-l            bit
4832  U-LSCRIPT      bit.listserv.script-l         bit
4833  U-LSCUBA       bit.listserv.scuba-l          bit
4834  U-LSERVERS     bit.listserv.lstsrv-l         bit
4421  U-LSI          comp.lsi                     comp
4422  U-LSI.CAD      comp.lsi.cad                  comp
4835  U-LSIMULA      bit.listserv.simula           bit
4836  U-LSNAMGT      bit.listserv.snamgt-l         bit
3595  U-LSOLNEWS     ls.olnews                     ls
4837  U-LSOSDATA     bit.listserv.sos-data         bit
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4838  U-LSPIRES      bit.listserv.spires-l           bit
4839  U-LSPRTPSY     bit.listserv.sportpsy           bit
4840  U-LSQLINFO     bit.listserv.sqlinfo            bit
4841  U-LSTAT        bit.listserv.stat-l            bit
3596  U-LSUSSR       ls.ussr                        ls
4843  U-LTECH        bit.listserv.tech-l            bit
4845  U-LTEX         bit.listserv.tex-l            bit
4846  U-LTN3270      bit.listserv.tn3270-l           bit
4861  U-LTRAVEL      bit.listserv.travel-l           bit
4848  U-LUCP         bit.listserv.ucp-l             bit
4849  U-LUG          bit.listserv.ug-l             bit
4850  U-LUREP        bit.listserv.urep-l            bit
4851  U-LUSRDIR      bit.listserv.usrdir-l           bit
4852  U-LVALERT      bit.listserv.valert-l
4853  U-LVFORT       bit.listserv.vfort-l           bit
4855  U-LVMXA        bit.listserv.vmxa-l            bit
4857  U-LX400        bit.listserv.x400-l            bit
4533  U-M6809        comp.sys.m6809                 comp
4534  U-M68K         comp.sys.m68k                  comp
4535  U-M68KPC       comp.sys.m68k.pc
4536  U-M88K         comp.sys.m88k                  comp
4749  U-MACANNO      comp.sys.mac.announce
4751  U-MACAPPS      comp.sys.mac.apps              comp
4750  U-MACCOMM      comp.sys.mac.comm                comp
4538  U-MACDIGST     comp.sys.mac.digest
4752  U-MACGAMES     comp.sys.mac.games              comp
4446  U-MACH         comp.os.mach                   comp
4539  U-MACHW        comp.sys.mac.hardware           comp
4540  U-MACHYPR      comp.sys.mac.hypercard          comp
4753  U-MACMISC      comp.sys.mac.misc             comp
4541  U-MACPROG      comp.sys.mac.programmer          comp
4496  U-MACSRC       comp.sources.mac
4754  U-MACSYSTM     comp.sys.mac.system             comp
4755  U-MACWANT      comp.sys.mac.wanted            comp
4206  U-MAGSUM       rec.mag.fsfnet
4427  U-MAILMISC     comp.mail.misc                comp
4425  U-MAPS         comp.mail.maps
2237  U-MARCHDRUMCO  rec.arts.marching.drumcorps       rec
2240  U-MARCHMISC    rec.arts.marching misc           rec
4270  U-MATH         sci.math                      sci
4275  U-MEDAIDS      sci.med.aids
4274  U-MEDICINE     sci.med                       sci
4276  U-MEDPHYS      sci.med.physics                sci
3597  U-MERCGENERAL  mercury.general                mercury
2999  U-METALWORKIN  rec.crafts.metalworking          rec
4426  U-MH           comp.mail.mh                  comp
4911  U-MIEDUCATION  misc.education                 misc
4912  U-MIFITNESS    misc.fitness                  misc
4277  U-MILITARY     sci.military
3598  U-MIMAP        mi.map
3599  U-MIMISC       mi.misc                       mi
3600  U-MINEWS       mi.news                       mi
4447  U-MINIX        comp.os.minix                 comp
4543  U-MIPS         comp.sys.mips                 comp
4142  U-MISC         misc.misc                     misc
4657  U-MISCACTIVPR  misc.activism.progressive
2154  U-MISCANSWERS  misc.answers
4868  U-MISCBOOKTEC  misc.books.technical            misc
2155  U-MISCCOMPUTE  misc.forsale.computers.d          misc
2161  U-MISCENTREPR  misc.entrepreneurs             misc
3202  U-MISCINTPROP  misc.int-property              misc
3604  U-MISCINVRE    misc.invest.real-estate          misc
3605  U-MISCJOBOFFE  misc.jobs.offered.entry          misc
2804  U-MISCJOBSOFR  misc.jobs.offered             misc
3203  U-MISCLEGALCO  misc.legal.computing            misc
4222  U-MISCMUSI     rec.music.misc                rec
4467  U-MISCPROT     comp.protocols.misc            comp
4209  U-MISCREC      rec.misc                      rec
4239  U-MISCSPRT     rec.sport.misc                rec
4497  U-MISCSRC      comp.sources.misc
4504  U-MISCSTD      comp.std.misc                 comp
2168  U-MISCWRITING  misc.writing                  misc
3601  U-MISOURCES    mi.sources                    mi
3602  U-MISUN        mi.sun                        mi
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3606  U-MITBBOARD    mit.bboard                    mit
3608  U-MITLCSMISC   mit.lcs.misc                  mit
3609  U-MITLCSSEMIN  mit.lcs.seminar               mit
3607  U-MITLSCANNOU  mit.lcs.announce              mit
3610  U-MITTEST      mit.test                      mit
3603  U-MIWANTED     mi.wanted                     mi
3611  U-MNARCHIVE    mn.archive                    mn
3612  U-MNGENERAL    mn.general                    mn
3613  U-MNMAP        mn.map
3614  U-MNNET        mn.net                        mn
3615  U-MNSOURCES    mn.sources                    mn
3616  U-MNTEST       mn.test                       mn
3617  U-MNTRAFFIC    mn.traffic                    mn
4271  U-MNUMANAL     sci.math.num-analysis         sci
3618  U-MNUUM        mn.uum                        mn
4409  U-MODULA2      comp.lang.modula2             comp
4190  U-MORIA        rec.games.moria               rec
4212  U-MOTORCYC     rec.motorcycles               rec
3195  U-MOTORHARLEY  rec.motorcycles.harley        rec
4211  U-MROCKETS     rec.models.rockets            rec
3619  U-MSCSGENERAL  mscs.general                  mscs
4272  U-MSTATS       sci.math.stat                 sci
3620  U-MSUGENERAL   msu.general                   msu
4273  U-MSYMBOL      sci.math.symbolic             sci
4146  U-MTEST        misc.test                     misc
2749  U-MTLGENERAL   mtl.general                   mtl
3621  U-MTLTEST      mtl.test                      mtl
3623  U-MUCSDGENERA  mucsd.general                 mucsd
3622  U-MUGENERAL    mu.general                    mu
4428  U-MULTIMED     comp.mail.multi-media         comp
4505  U-MUMPSSTD     comp.std.mumps
4429  U-MUSH         comp.mail.mush                comp
3197  U-MUSICGUITAR  rec.music.classical.guitar    rec
3199  U-MUSICGUITAR  rec.music.makers.guitar       rec
3196  U-MUSICLATIN   rec.music.afro.latin          rec
3198  U-MUSICMAKBAS  rec.music.makers.bass         rec
4221  U-MUSICMKR     rec.music.makers              rec
3532  U-MUSICPERCUS  rec.music.makers.percussion   rec
2212  U-MUSICREGGAE  rec.music.reggae              rec
3634  U-MUSICSYNTH   net159.chat159                net159
2213  U-MUSICSYNTH   rec.music.makers.synth        rec
3455  U-MUSICTABLAT  rec.music.makers.guitar.tablature  rec
2211  U-MUSICVIDEO   rec.music.video               rec
4279  U-NANOTECH     sci.nanotech
3627  U-NASHVILGEN   nashville.general             nashville
3624  U-NASMSGS      nas.msgs                      nas
3625  U-NASNETS      nas.nets                      nas
3626  U-NASWKS       nas.wks                       nas
3628  U-NBGGENERAL   nbg.general                   nbg
3629  U-NCARWEATHER  ncar.weather                  ncar
4545  U-NCR          comp.sys.ncr                  comp
3630  U-NCSCCHEMIST  ncsc.chemistry                ncsc
3631  U-NCSCGENERAL  ncsc.general                  ncsc
3632  U-NCSCSYSTEMS  ncsc.systems                  ncsc
3633  U-NCSCTRAININ  ncsc.training                 ncsc
3636  U-NETCOMGENER  netcom.general                netcom
4223  U-NEWAGE       rec.music.newage              rec
3637  U-NEWORLGENER  neworleans.general            neworleans
4434  U-NEWPROD      comp.newprod
4091  U-NEWSADM      news.announce.conferences
3638  U-NEWSADMMISC  news.admin.misc               news
3639  U-NEWSADMPOLI  news.admin.policy             news
3640  U-NEWSADMTECH  news.admin.technical
4094  U-NEWSAGRP     news.announce.newgroups
4092  U-NEWSANNC     news.announce.important
3205  U-NEWSANSWERS  news.answers
4096  U-NEWSCFG      news.config                   news
3206  U-NEWSFUTURE   news.future                   news
4097  U-NEWSGRP      news.groups                   news
4100  U-NEWSITES     news.newsites                 news
4098  U-NEWSLIST     news.lists.ps-maps
3939  U-NEWSLISTS    news.lists
4099  U-NEWSMISC     news.misc                     news
2172  U-NEWSOFTREAD  news.software.readers         news
```

```
4095 U-NEWUSER     news.announce.newusers
4468 U-NFS         comp.protocols.nfs              comp
3641 U-NILGENERAL  nil.general                     nil
3642 U-NILMAPS     nil.maps                        nil
3643 U-NLNETAIO    nlnet.aio                       nlnet
3644 U-NLNETFOLLOW nlnet.followup                  nlnet
3645 U-NLNETGENERA nlnet.general                   nlnet
3646 U-NLNETMISC   nlnet.misc                      nlnet
3647 U-NLNETPICO   nlnet.pico                      nlnet
3648 U-NLNETTEST   nlnet.test                      nlnet
4104 U-NNREADER    news.software.nn                news
4105 U-NNTP        news.software.nntp              news
4308 U-NORDIC      soc.culture.nordic              soc
4547 U-NRTHSTAR    comp.sys.northstar              comp
4548 U-NSC32K      comp.sys.nsc.32k                comp
3940 U-NSOFTANUNEW news.software.anu-news          news
4225 U-NUDE        rec.nude                        rec
2170 U-NWSEASTEURO misc.news.east-europe.rfer1
2173 U-NWSSOUTHASI misc.news.southasia
4101 U-NWUSRQ&A    news.newusers.questions         news
3649 U-OAUNEWS     oau.news                        oau
4435 U-OBJECT      comp.object                     comp
3650 U-OCACM       oc.acm                          oc
3651 U-OCFORSALE   oc.forsale                      oc
3652 U-OCGENERAL   oc.general                      oc
3653 U-OCSLUG      oc.slug                         oc
3654 U-OCSTEST     oc.test                         oc
3655 U-OCWANTED    oc.wanted                       oc
3656 U-OGIGENERAL  ogi.general                     ogi
3657 U-OKGENERAL   ok.general                      ok
4116 U-ONTARCHV    ont.archives                    ont
4118 U-ONTEVENT    ont.events                      ont
3658 U-ONTFOLLOW   ont.followup                    ont
2174 U-ONTFORSALE  ont.forsale                     ont
4119 U-ONTGENER    ont.general                     ont
4120 U-ONTJOBS     ont.jobs                        ont
4121 U-ONTMICRO    ont.micro                       ont
4117 U-ONTROAD     ont.conditions                  ont
4122 U-ONTSCIFI    ont.sf-lovers                   ont
4123 U-ONTSNGLE    ont.singles                     ont
4124 U-ONTTEST     ont.test                        ont
4125 U-ONTUUCP     ont.uucp                        ont
3659 U-OPINIONSC   opinions.supreme-court
2210 U-ORGFLAME    rec.org.mensa.flame.flame.flame rec
2085 U-ORGTECH     relcom.commerce.orgtech         relcom
4330 U-ORIGINS     talk.origins                    talk
4450 U-OS9         comp.os.os9                     comp
4448 U-OSMISC      comp.os.misc                    comp
4877 U-OSMSDOSAPPS comp.os.msdos.apps              comp
4878 U-OSMSDOSMISC comp.os.msdos.misc              comp
4879 U-OSMSDOSPROG comp.os.msdos.programmer        comp
4880 U-OSOS2APPS   comp.os.os2.apps                comp
4881 U-OSOS2MISC   comp.os.os2.misc                comp
4882 U-OSOS2PROG   comp.os.os2.programmer          comp
4451 U-OSRSRCH     comp.os.research
3660 U-OTTEVENTS   ott.events                      ott
3661 U-OTTGENERAL  ott.general                     ott
4739 U-PAKISTAN    soc.culture.pakistan            soc
4456 U-PARALLEL    comp.parallel
4410 U-PASCAL      comp.lang.pascal                comp
3662 U-PBINFOAMIG  pbinfo.amiga                    pbinfo
4191 U-PBM         rec.games.pbm                   rec
4469 U-PCNET       comp.protocols.pcnet            comp
4457 U-PERIPHS     comp.periphs                    comp
4411 U-PERL        comp.lang.perl                  comp
4227 U-PETS        rec.pets                        rec
4280 U-PHLMETA     sci.philosophy.meta             sci
4331 U-PHLOMISC    talk.philosophy.misc            talk
4281 U-PHLTECH     sci.philosophy.tech             sci
4228 U-PHOTO       rec.photo                       rec
3663 U-PHRIGENERA  phri.general                    phri
4283 U-PHYFUS      sci.physics.fusion              sci
4282 U-PHYSICS     sci.physics                     sci
4332 U-POLGUNS     talk.politics.guns              talk
```

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4740  U-POLISH        soc.culture.polish              soc
2033  U-POLITANIM     talk.politics.animals           talk
2036  U-POLITIMEDIC   talk.politics.medicine          talk
4333  U-POLMID        talk.politics.mideast           talk
4334  U-POLMISC       talk.politics.misc              talk
4335  U-POLSOVIE      talk.politics.soviet            talk
4336  U-POLTHEOR      talk.politics.theory            talk
3664  U-PRGJOBS       prg.jobs                        prg
3665  U-PRINCGENER    princeton.general               princeton
3666  U-PRINCGRAD     princeton.grad                  princeton
4458  U-PRINTERS      comp.periphs.printers           comp
4413  U-PROLOG        comp.lang.prolog                comp
4549  U-PROTEON       comp.sys.proteon                comp
4883  U-PROTTIMENTP   comp.protocols.time.ntp         comp
3667  U-PSIGENERAL    psi.general                     psi
3668  U-PSINRG        psi.nrg                         psi
3669  U-PSINWG        psi.nwg                         psi
3207  U-PSIPSINET     psi.psinet                      psi
3670  U-PSISTATS      psi.stats                       psi
3671  U-PSITICKET     psi.tickets                     psi
4412  U-PSTSCRPT      comp.lang.postscript            comp
4284  U-PSYCHOLO      sci.psychology                  sci
4735  U-PSYDIGST      sci.psychology.digest
3672  U-PURDUEFORS    purdue.forsale                  purdue
3673  U-PURDUEGENR    purdue.general                  purdue
4229  U-PUZZLE        rec.puzzles                     rec
4550  U-PYRAMID       comp.sys.pyramid                comp
3674  U-QTPBULLTN     qtp.bulletin                    qtp
3675  U-QTPGENERAL    qtp.general                     qtp
4917  U-RAANIMATION   rec.arts.animation              rec
2201  U-RADIOCB       rec.radio.cb                    rec
2199  U-RADIOINFO     rec.radio.info
2197  U-RADIOSWAP     rec.radio.swap                  rec
4918  U-RADISNEY      rec.arts.disney                 rec
4231  U-RAILROAD      rec.railroad                    rec
3677  U-RAINSOURCD    rain.sources.d                  rain
3676  U-RAINSOURCE    rain.sources                    rain
4337  U-RAPE          talk.rape                       talk
4149  U-RAQUARIA      rec.aquaria                     rec
4169  U-RATDRIV       rec.autos.driving               rec
4919  U-RATHEATRE     rec.arts.theatre                rec
4171  U-RATTECH       rec.autos.tech                  rec
4921  U-RBOATS-PAD    rec.boats.paddle                rec
4947  U-RCARTFINE     rec.arts.fine                   rec
4948  U-RCAUDIOCAR    rec.audio.car                   rec
4949  U-RCAUTO-VW     rec.autos.vw                    rec
3950  U-RCBICYSOC     rec.bicycles.soc                rec
4210  U-RCONTROL      rec.models.rc                   rec
4927  U-RCOUNTRYWST   rec.music.country.western       rec
4481  U-REALTIME      comp.realtime                   comp
2751  U-RECACMCMKT    rec.arts.comics.marketplace     rec
2753  U-RECAFANDOM    rec.arts.sf.fandom              rec
4999  U-RECAMRADSWP   rec.radio.amateur.swap          rec
2234  U-RECANSWSERS   rec.answers
2844  U-RECARSFSTAR   rec.arts.sf.starwars            rec
3077  U-RECARSTTECH   rec.arts.startrek.tech          rec
3678  U-RECARTANTI    rec.antiques                    rec
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3679  U-RECARTCOMI    rec.arts.comics.info
3680  U-RECARTCOMM    rec.arts.comics.misc            rec
3681  U-RECARTCOMX    rec.arts.comics.xbooks          rec
3682  U-RECARTMANG    rec.arts.manga                  rec
3208  U-RECARTSTCUR   rec.arts.startrek.current       rec
3209  U-RECARTSTFAN   rec.arts.startrek.fandom        rec
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2752  U-RECASFANCMN   rec.arts.sf.announce
2755  U-RECASFMISC    rec.arts.sf.misc                rec
2754  U-RECASFMKTPL   rec.arts.sf.marketplace         rec
2756  U-RECASFMOVIE   rec.arts.sf.movies              rec
2757  U-RECASFREVW    rec.arts.sf.reviews
2758  U-RECASFSCNCE   rec.arts.sf.science             rec
2759  U-RECASFTV      rec.arts.sf.tv                  rec
2760  U-RECASFWRTN    rec.arts.sf.written             rec
2846  U-RECAUDIOPRO   rec.audio.pro                   rec
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4016  U-RECBICMARKE  rec.bicycles.marketplace         rec
4018  U-RECBICRIDES  rec.bicycles.rides           rec
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4655  U-RECCOLLECT   rec.collecting            rec
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2176  U-RECCRMUSIC   rec.crafts.misc           rec
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3684  U-RECFOODSOU   rec.food.sourdough           rec
4950  U-RECGAM-PINB  rec.games.pinball         rec
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2179  U-RECGAMEBOAR  rec.games.board.ce           rec
2762  U-RECGAMECRWR  rec.games.corewar           rec
2180  U-RECGAMEDESI  rec.games.design          rec
3201  U-RECGAMEFRPA  rec.games.frp.advocacy          rec
2763  U-RECGAMEMUDL  rec.games.mud.lp           rec
3080  U-RECGAMESCYB  rec.games.cyber
2847  U-RECGAMESNET  rec.games.netrek           rec
2848  U-RECGAMESXTP  rec.games.xtank.play          rec
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3250  U-RECGAMFRPAN  rec.games.frp.announce
3686  U-RECGAMFRPD   rec.games.frp.dnd           rec
3688  U-RECGAMFRPI   rec.games.frp.misc         rec
3687  U-RECGAMFRPM   rec.games.frp.marketplace         rec
3689  U-RECGAMMDAD   rec.games.mud.admin           rec
3690  U-RECGAMMDAN   rec.games.mud.announce
3691  U-RECGAMMDDI   rec.games.mud.diku           rec
3692  U-RECGAMMDMI   rec.games.mud.misc           rec
3693  U-RECGAMMDTI   rec.games.mud.tiny          rec
2817  U-RECGMXTANKP  rec.games.xtank.programmer        rec
4202  U-RECHUMOR     rec.humor            rec
3424  U-RECHUMORACD  rec.humor.oracle.d          rec
2818  U-RECHUMRORCL  rec.humor.oracle
4731  U-RECIPIES     rec.food.recipes
2764  U-RECJUGGLING  rec.juggling            rec
3247  U-RECKITES     rec.kites            rec
3193  U-RECMAG       rec.mag           rec
2820  U-RECMODELSRR  rec.models.railroad           rec
3249  U-RECMOTORDIR  rec.motorcycles.dirt          rec
3216  U-RECMOTORRAC  rec.motorcycles.racing          rec
2828  U-RECMSCPHISH  rec.music.phish           rec
2204  U-RECMUSCHRIS  rec.music.christian          rec
2208  U-RECMUSEARLY  rec.music.early          rec
2209  U-RECMUSFUNKY  rec.music.funky          rec
3694  U-RECMUSICCO   rec.music.compose          rec
3695  U-RECMUSICIN   rec.music.info
2244  U-RECMUSICIND  rec.music.industrial          rec
2823  U-RECMUSICMKT  rec.music.marketplace           rec
2245  U-RECMUSICREV  rec.music.reviews
3218  U-RECMUSINCL   rec.music.indian.classical         rec
3437  U-RECMUSINDMU  rec.music.indian.misc           rec
2830  U-RECORGMENSA  rec.org.mensa           rec
3696  U-RECOUTFISH   rec.outdoors.fishing          rec
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2765  U-RECPETHERP   rec.pets.herp          rec
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2832  U-RECPUZCROSS  rec.puzzles.crosswords           rec
4727  U-RECRADAMMIS  rec.radio.amateur.misc          rec
4732  U-RECRADAMPAC  rec.radio.amateur.packet          rec
4748  U-RECRADAMPOL  rec.radio.amateur.policy          rec
2836  U-RECRADIOBRD  rec.radio.broadcasting
3438  U-RECROLLERCO  rec.roller-coaster           rec
2838  U-RECSCOUTING  rec.scouting          rec
3221  U-RECSKATE     rec.skate           rec
3697  U-RECSPBASEF   rec.sport.baseball.fantasy          rec
2216  U-RECSPBASKMI  rec.sport.basketball.misc          rec
2217  U-RECSPBASKPR  rec.sport.basketball.pro          rec
3223  U-RECSPCRISCO  rec.sport.cricket.scores
3224  U-RECSPHOCFIE  rec.sport.hockey.field          rec
```

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2238  U-RECSPORTGLF  rec.sport.golf              rec
2220  U-RECSPORTTEN  rec.sport.tennis              rec
2221  U-RECSPORTVOL  rec.sport.volleyball            rec
2842  U-RECSPRTBSBL  rec.sport.baseball.college        rec
2249  U-RECSPTBSKCO  rec.sport.basketball.college        rec
2849  U-RECSPTPAINT  rec.sport.paintball          rec
2767  U-RECSPTRIATH  rec.sport.triathlon          rec
2853  U-RECSPTSWIM   rec.sport.swimming            rec
2856  U-RECTRAVLAIR  rec.travel.air             rec
2768  U-RECVIDEOCAB  rec.video.cable-tv            rec
2860  U-RECVIDEOPRD  rec.video.production           rec
2769  U-RECVIDEORLS  rec.video.releases           rec
4082  U-RECVIDEOSAT  rec.video.satellite          rec
2042  U-RELADSCOMP   relcom.ads.comp
2052  U-RELARCHIVED  relcom.archives.d           relcom
2056  U-RELAUDVID    relcom.commerce.audio-video       relcom
4319  U-RELCHRIS     soc.religion.christian
2040  U-RELCOMADS    relcom.ads
2051  U-RELCOMARC    relcom.archive             relcom
2055  U-RELCOMBBS    relcom.bbs             relcom
2057  U-RELCOMCHEM   relcom.commerce.chemical        relcom
2060  U-RELCOMCOMPU  relcom.commerce.computers       relcom
2062  U-RELCOMCONST  relcom.commerce.construction      relcom
2064  U-RELCOMCONSU  relcom.commerce.consume        relcom
2121  U-RELCOMLAN    relcom.lan             relcom
2070  U-RELCOMMFOOD  relcom.commerce.food          relcom
2072  U-RELCOMMHOUS  relcom.commerce.household       relcom
2139  U-RELCOMTALK   relcom.talk             relcom
2142  U-RELCOMWTC    relcom.wtc             relcom
2102  U-RELDEMOS     relcom.demos.commerce         relcom
4743  U-RELEAST      soc.religion.eastern
2123  U-RELECONOMIC  relcom.economics            relcom
2066  U-RELENERGY    relcom.commerce.energy         relcom
2069  U-RELESTATE    relcom.commerce.estate         relcom
2103  U-RELEXNET     relcom.exnet             relcom
2124  U-RELFAXDIGES  relcom.mn.faxdigest           relcom
2111  U-RELFIDOC++   relcom.fido.su.c-c++           relcom
2105  U-RELFLIRT     relcom.fido.flirt          relcom
2112  U-RELGENERAL   relcom.fido.su.general         relcom
2106  U-RELHACKER    relcom.fido.ru.hacker          relcom
2113  U-RELHARDWARE  relcom.fido.su.hardw          relcom
2116  U-RELHUMOR     relcom.humor             relcom
2143  U-RELIGIONQUA  soc.culture.quaker           soc
2117  U-RELINFOQUOT  relcom.infomarket.quote
2074  U-RELINFOSERV  relcom.commerce.infoserv        relcom
2118  U-RELINFOTALK  relcom.infomarket.talk
4320  U-RELISLAM     soc.religion.islam
2119  U-RELJUSINF    relcom.jusinf
2120  U-RELKIDS      relcom.kids             relcom
2075  U-RELMACHINE   relcom.commerce.machinery        relcom
2122  U-RELMAP       relcom.maps             relcom
2077  U-RELMEDICINE  relcom.commerce.medicine        relocm
2082  U-RELMETALS    relcom.commerce.metals         relcom
4338  U-RELMISC      talk.religion.misc          talk
2125  U-RELMNLAWS    relcom.mn.laws           relcom
2107  U-RELMODEM     relcom.fido.ru.modem          relcom
2084  U-RELMONEY     relcom.commerce.money          relcom
2127  U-RELMSDOS     relcom.msdos             relcom
2128  U-RELMUSIC     relcom.music             relcom
2130  U-RELNETBIG    relcom.netnews.big           relcom
2129  U-RELNETNEWS   relcom.netnews            relcom
2108  U-RELNETWORKS  relcom.fido.ru.networks         relcom
4339  U-RELNEWAG     talk.religion.newage          talk
2126  U-RELNEWPAPER  relcom.mn.newspaper           relcom
2136  U-RELNEWS      relcom.renews            relcom
2088  U-RELOTHER     relcom.commerce.other          relcom
2131  U-RELPENPALS   relcom.penpals           relcom.
2132  U-RELPOLITICS  relcom.politics          relcom
2135  U-RELPOSTMASD  relcom.postmasters.d           relcom
2134  U-RELPOSTMAST  relcom.postmasters           relcom
2104  U-RELQUOTE     relcom.exnet.quote           relcom
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2137  U-RELSOURCE    relcom.sources             relcom
2138  U-RELSPBNEWS   relcom.spbnews            relcom
2095  U-RELSTOCKS    relcom.commerce.stocks         relcom
2110  U-RELSUBOOKS   relcom.fido.su.books          relcom
2115  U-RELSUVIRUS   relcom.fido.su.virus         relcom
2096  U-RELTALK      relcom.commerce.talk          relcom
2140  U-RELTERMS     relcom.terms             relcom
2141  U-RELTESTS     relcom.test           relcom
2100  U-RELTOBACCO   relcom.commerce.tobacco          relcom
2114  U-RELTOLKIEN   relcom.fido.su.tolkien         relcom
2101  U-RELTRANSPOR  relcom.commerce.transport        relcom
2109  U-RELUNIX      relcom.fido.ru.unix          relcom
104   U-REPLIES      local.private
4414  U-REXX         comp.lang.rexx           comp
4551  U-RIDGE        comp.sys.ridge           comp
4482  U-RISKS        comp.risks
4926  U-RMARTIAL     rec.martial-arts          rec
4884  U-ROBOTICS     comp.robotics            comp
4193  U-ROGUE        rec.games.rogue          rec
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4929  U-RPYROTECH    rec.pyrotechnics          rec
4951  U-RRDNONCOMM   rec.radio.noncomm          rec
4923  U-RRESTAURANT  rec.food.restaurants         rec
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4952  U-RSPFOOTCOLL  rec.sport.football.college        rec
4953  U-RSPFOOTMISC  rec.sport.football.misc         rec
4954  U-RSPFOOTPRO   rec.sport.football.pro         rec
4452  U-RSTS         comp.os.rsts           comp
3699  U-RUGENERAL    ru.general           ru
4340  U-RUMORS       talk.rumors           talk
4143  U-RURAL        misc.rural          misc
3700  U-SACGENERAL   sac.general           sac
3701  U-SACSWAP      sac.swap           sac
3702  U-SACTEST      sac.test           sac
2159  U-SALEWORKSTA  misc.forsale.computers.workstation    misc
3703  U-SANETADVER   sanet.adverts             sanet
3704  U-SANETANNOU   sanet.announce
3705  U-SANETCONFI   sanet.config           sanet
3706  U-SANETFLAME   sanet.flame           sanet
3707  U-SANETFUN     sanet.fun           sanet
3708  U-SANETIBMPC   sanet.ibmpc           sanet
3709  U-SANETLANGC   sanet.lang.c           sanet
3710  U-SANETMAPS    sanet.maps
3711  U-SANETMODEM   sanet.modems             sanet
3712  U-SANETMONPY   sanet.monty-python           sanet
3714  U-SANETNEWSD   sanet.newsletters.d         sanet
3713  U-SANETNEWSL   sanet.newsletters
3715  U-SANETRADPK   sanet.radio.packet         sanet
3716  U-SANETSOUCD   sanet.sources.d         sanet
3717  U-SANETTALPO   sanet.talk.politics         sanet
3718  U-SANETTAREL   sanet.talk.religion         sanet
3719  U-SANETTEST    sanet.test           sanet
3720  U-SANETUNIFO   sanet.uniforum           sanet
3721  U-SANETUNQUE   sanet.unix.questions         sanet
3722  U-SANETUNSOU   sanet.unix.sources
3723  U-SANETUNTAL   sanet.unix.talk         sanet
4257  U-SAQUARIA     sci.aquaria           sci
4226  U-SCA          rec.org.sca           rec
3194  U-SCALEMODEL   rec.models.scale           rec
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4934  U-SCCLAUSTRAL  soc.culture.australian          soc
4935  U-SCCLBANGLA   soc.culture.bangladesh          soc
4936  U-SCCLNEPAL    soc.culture.nepal          soc
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4416  U-SCHEME.C     comp.lang.scheme.c           comp
4937  U-SCHISTORY    soc.history           soc
3724  U-SCIANTHROP   sci.anthropology          sci
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3726  U-SCICOGNITI   sci.cognitive           sci
```

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```
3727  U-SCICOMPAID   sci.comp-aided                sci
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4264  U-SCIEDU       sci.edu                 sci
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4956  U-SCIENGRCHEM  sci.engr.chem                 sci
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4957  U-SCIENVIRON   sci.environment               sci
2147  U-SCIFRACTALS  sci.fractals             sci
4932  U-SCIGEOFLUID  sci.geo.fluids           sci
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3929  U-SCIMARE      sci.math.research
2903  U-SCIMATERIAL  sci.materials            sci
4278  U-SCIMISC      sci.misc                 sci
4087  U-SCIOPTICS    sci.optics               sci
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3731  U-SCIRESACAR   sci.research.careers          sci
4285  U-SCIRSRCH     sci.research             sci
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2160  U-SCOOPENDKTP  sco.opendesktop               sco
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4232  U-SCUBA        rec.scuba                rec
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3735  U-SDNETEATS    sdnet.eats               sdnet
3739  U-SDNETEMOVIE  sdnet.movies             sdnet
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3742  U-SDNETTEST    sdnet.test               sdnet
3743  U-SDNETWANTE   sdnet.wanted             sdnet
4483  U-SECURITY     comp.security.announce
3744  U-SEISMICGEN   seismic.general               seismic
4575  U-SELFORG      comp.theory.self-org-sys      comp
4430  U-SENDMAIL     comp.mail.sendmail            comp
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3975  U-SFALLOITTEL  sfnet.aloittelijoille         sfnet
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3985  U-SFATKMAC     sfnet.atk.mac            sfnet
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4000  U-SFHARAUTOT   sfnet.harrastus.autot         sfnet
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4001  U-SFHARDXKUUN  sfnet.harrastus.dx-kuuntelu        sfnet
3233  U-SFHARILMAIL  sfnet.harrastus.kulttuuri.sf       sfnet
3234  U-SFHARKULTT   sfnet.harrastus.kulttuuri.sf       sfnet
4009  U-SFHARTANSSI  sfnet.harrastus.tanssi        sfnet
4011  U-SFHARVISAIL  sfnet.harrastus.visailu       sfnet
2929  U-SFKESFILE    sfnet.keskustelu.filosofia    sfnet
3237  U-SFKESKLAPSE  sfnet.keskustelu.lapset            sfnet
2941  U-SFKESKUIHMI  sfnet.keskustelu.ihmissuhteet      sfnet
2940  U-SFKESKUSHUU  sfnet.keskustelu.huumeet           sfnet
2942  U-SFKESKUSLKI  sfnet.keskustelu.laki         sfnet
2943  U-SFKESKUSMAN  sfnet.keskustelu.maanpuolustus      sfnet
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4014  U-SFKESKUSTEL  sfnet.keskustelu              sfnet
2935  U-SFKESKVITSI  sfnet.keskustelu.vitsit       sfnet
2932  U-SFKESUSKONT  sfnet.keskustelu.uskonto           sfnet
2934  U-SFKESVARAV   sfnet.keskustelu.varaventtiili      sfnet
2936  U-SFKESYHTEIS  sfnet.keskustelu.yhteiskunta        sfnet
2938  U-SFMATKUSTA   sfnet.matkustaminen           sfnet
2939  U-SFNETHUUHAA  sfnet.huuhaa                  sfnet
3984  U-SFNETLAI     sfnet.atk.laitteet            sfnet
2948  U-SFTEST       sfnet.test               sfnet
2950  U-SFTIEDEARK   sfnet.tiede.arkeologia        sfnet
2968  U-SFTIEDEKIRJ  sfnet.tiede.kirjastot         sfnet
2971  U-SFTIEDEMATE  sfnet.tiede.matematiikka           sfnet
2979  U-SFTIEDEYTIN  sfnet.tiede.yt.info           sfnet
2987  U-SFTIETKATKO  sfnet.tietoliikenne.katko          sfnet
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2985  U-SFTIETOKIIK  sfnet.tietoliikenne              sfnet
3238  U-SFTIETTILA   sfnet.tietoliikenne.tilastot     sfnet
2975  U-SFTIOEDETOH  sfnet.tiede.tietotekniikka.tohtorix    sfnet
2993  U-SFTORI       sfnet.tori                       sfnet
4553  U-SGI          comp.sys.sgi                     comp
3745  U-SGIGENERAL   sgi.general                      sgi
2010  U-COMSGIHARDW  comp.sys.sgi.hardware            comp
4230  U-SHORTWAV     rec.radio.shortwave              rec
4417  U-SIGPLAN      comp.lang.sigplan
4484  U-SIMULAT      comp.simulation
4286  U-SKEPTIC      sci.skeptic                      sci
4233  U-SKIING       rec.skiing                       rec
4234  U-SKYDIVE      rec.skydiving                    rec
4418  U-SMLLTALK     comp.lang.smalltalk              comp
4318  U-SOCARMSD     soc.politics.arms-d
2770  U-SOCBI        soc.bi                           soc
4241  U-SOCCER       rec.sport.soccer                 rec
2225  U-SOCCOLGRAD   soc.college.grad                 soc
2162  U-SOCCOLGRAD   soc.college.gradinfo             soc
4958  U-SOCCUL-FILI  soc.culture.filipino             soc
4959  U-SOCCUL-LEB   soc.culture.lebanon              soc
3239  U-SOCCULAFGHA  soc.culture.afghanistan          soc
3240  U-SOCCULBRAZI  soc.culture.brazil               soc
3241  U-SOCCULBULAR  soc.culture.bulgaria             soc
2163  U-SOCCULCANAD  soc.culture.canada               soc
3242  U-SOCCULCARIB  soc.culture.caribbean            soc
3746  U-SOCCULCZECH  soc.culture.czecho-slovak        soc
2226  U-SOCCULEUROP  soc.culture.europe               soc
2227  U-SOCCULITALI  soc.culture.italian              soc
2164  U-SOCCULMAGYA  soc.culture.magyar               soc
3930  U-SOCCULMEX    soc.culture.mexican              soc
2771  U-SOCCULMEXCN  soc.culture.mexican              soc
3245  U-SOCCULNETHE  soc.culture.netherlands          soc
2228  U-SOCCULNEWZE  soc.culture.new-zealand          soc
3931  U-SOCCULPORT   soc.culture.portuguese           soc
2165  U-SOCCULSOVIE  soc.culture.soviet               soc
2229  U-SOCCULSPAIN  soc.culture.spain                soc
3747  U-SOCCULTAMIL  soc.culture.tamil                soc
2230  U-SOCCULTHAI   soc.culture.thai                 soc
3246  U-SOCCULTUROM  soc.culture.romanian             soc
2773  U-SOCCULUSA    soc.culture.usa                  soc
2166  U-SOCCULYUGOS  soc.culture.yugoslavia           soc
4486  U-SOCFUTUR     comp.society.futures             comp
4485  U-SOCIETY      comp.society
2944  U-SOCLIBRARTL  soc.libraries.talk               soc
4314  U-SOCMEN       soc.men                          soc
4315  U-SOCMISC      soc.misc                         soc
4316  U-SOCNET       soc.net-people                   soc
3748  U-SOCPENPALS   soc.penpals                      soc
4317  U-SOCPOLIT     soc.politics
2945  U-SOCRLGNBAHA  soc.religion.bahai
4323  U-SOCROOTS     soc.roots                        soc
4324  U-SOCSINGL     soc.singles                      soc
2231  U-SOCVETERANS  soc.veterans                     soc
4326  U-SOCWOMEN     soc.women                        soc
4489  U-SOFT-ENG     comp.software-eng                comp
4287  U-SPACE        sci.space                        sci
4288  U-SPCSHUTT     sci.space.shuttle                sci
4886  U-SPECIFICATN  comp.specification               comp
4170  U-SPORTDRV     rec.autos.sport                  rec
2196  U-SPORTFENCE   rec.sport.fencing                rec
2195  U-SPORTRUGBY   rec.sport.rugby                  rec
3749  U-SQNTPUFORSA  sqnt-public.forsale              sqnt-publi
4885  U-SRC-APPLE2   comp.sources.apple2
4493  U-SRCDISCU     comp.sources.d                   comp
4309  U-SRILANKA     soc.culture.sri-lanka            soc
3750  U-SRIMARKET    sri.market                       sri
4887  U-STDC++       comp.std.c!!                     comp
3751  U-STGTGENERAL  stgt.general                     stgt
3752  U-STLGENERAL   stl.general                      stl
3753  U-STLJOBS      stl.jobs                         stl
3754  U-STLNEWS      stl.news                         stl
3755  U-STLREC       stl.rec                          stl
3756  U-STLTEST      stl.test                         stl
```

```
4491 U-STSRC      comp.sources.atari.st
4498 U-SUNSRC     comp.sources.sun
4555 U-SUPER      comp.sys.super            comp
3757 U-SURAANNOUN  sura.announce
3758 U-SURACONFIG  sura.config              sura
3759 U-SURANOCSTA  sura.noc.status
3760 U-SURASECURI  sura.security
3761 U-SURATECHS   sura.techs               sura
4507 U-SWCMPNTS    comp.sw.components       comp
4106 U-SWNOTES     news.software.notes      news
4224 U-SYNTH      rec.music.synth           rec
4544 U-SYSMISC     comp.sys.misc            comp
2011 U-SYSSGIMISC  comp.sys.sgi.misc        comp
2194 U-TABLETENNIS rec.sport.table-tennis   rec
4556 U-TAHOE      comp.sys.tahoe            comp
4310 U-TAIWAN      soc.culture.taiwan       soc
3762 U-TALKPOLCHI  talk.politics.china      talk
4938 U-TALKPOLDRUG talk.politics.drugs      talk
2232 U-TALKPOLSPCE talk.politics.space      talk
4557 U-TANDY      comp.sys.tandy            comp
3763 U-TARONGAMIS  taronga.misc             taronga
3764 U-TARONGAWOR  taronga.worldview        taronga
4145 U-TAXES      misc.taxes                misc
4471 U-TCP-IP     comp.protocols.tcp-ip     comp
4472 U-TCP-IPDO   comp.protocols.tcp-ip.domains     comp
4474 U-TCP-IPPC   comp.protocols.tcp-ip.ibmpc       comp
2013 U-TERMINALS   comp.terminals           comp
4569 U-TEXT       comp.text                 comp
4757 U-TEXT.TEX   comp.text.tex             comp
4893 U-TEXTSGML    comp.text.sgml           comp
4571 U-THEORY     comp.theory               comp
4558 U-TI         comp.sys.ti               comp
4559 U-TIEXPLR    comp.sys.ti.explorer      comp
3765 U-TNFLAME    tn.flame                  tn
3766 U-TNGENERAL   tn.general               tn
3767 U-TNMSDOS    tn.msdos                  tn
3768 U-TNTALK     tn.talk                   tn
3769 U-TNTEST     tn.test                   tn
3770 U-TNUNIX     tn.unix                   tn
3771 U-TO         to                        to
4126 U-TORGENER   tor.general               tor
4148 U-TORNEWS    tor.news                  tor
4127 U-TORNEWST   tor.news.stats            tor
4128 U-TORTEST    tor.test                  tor
3773 U-TORUUCP    tor.uucp                  tor
4561 U-TRANSPUT   comp.sys.transputer       comp
4242 U-TRAVEL     rec.travel                rec
4030 U-TRAVMARKET  rec.travel.marketplace   rec
2777 U-TRIALRECMTW  trial.rec.metalworking   trial
2778 U-TRIALSCULCZ  trial.soc.culture.czechoslovak    trial
2779 U-TRIALSCULIT  trial.soc.culture.italian    trial
4195 U-TRIVIA     rec.games.trivia          rec
4568 U-TTY5620    comp.terminals.tty5620    comp
3774 U-TUBGENERAL  tub.general              tub
3775 U-TUBWANTED   tub.wanted               tub
4311 U-TURKISH    soc.culture.turkish       soc
4023 U-U3BCFG     u3b.config                u3b
4024 U-U3BMISC    u3b.misc                  u3b
2235 U-U3BSOURCES  u3b.sources              u3b
4025 U-U3BSRCS    u3b.tech                  u3b
4027 U-U3BTEST    u3b.test                  u3b
3776 U-UALBGENERAL ualberta.general         ualberta
3777 U-UALBPHYGENE ualberta.phys.general    ualberta
3778 U-UBERLINGENE uberlin.general          uberlin
3779 U-UCGENERAL   uc.general               uc
3783 U-UCHGENERAL  uch.general              uch
3780 U-UCMOTSS    uc.motss                  uc
3781 U-UCNEWS     uc.news                   uc
3782 U-UCTEST     uc.test                   uc
3784 U-UGGENERAL   ug.general               ug
2947 U-UMGENERAL   um.general               um
2951 U-UMHOUSING   um.housing               um
3789 U-UMIAMICSAN  umiami.cs.announce       umiami
3790 U-UMIAMIGENER  umiami.general          umiami
```

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```
3785 U-UMMUSIC      um.music                    um
3791 U-UMNCONFIG   umn.config                    umn
3786 U-UMNETWORK   um.network                   um
3787 U-UMTEST      um.test                 um
3788 U-UMTEX       um.tex                  um
2952 U-UMWAM       um.wam                      um
2953 U-UMWAMBMGT   um.wam.bmgt301              um
4894 U-UNIXADMIN   comp.unix.admin           comp
4577 U-UNIXAIX     comp.unix.aix           comp
4578 U-UNIXAUX     comp.unix.aux            comp
2017 U-UNIXCLONE   comp.unix.pc-clone.16bit        comp
4579 U-UNIXCRAY    comp.unix.cray           comp
4895 U-UNIXINTERNL comp.unix.internals         comp
4896 U-UNIXLARGE   comp.unix.large          comp
4897 U-UNIXMISC    comp.unix.misc           comp
4899 U-UNIXPROGRMR comp.unix.programmer         comp
4582 U-UNIXQUST    comp.unix.questions         comp
4900 U-UNIXSHELL   comp.unix.shell          comp
4499 U-UNIXSRC     comp.sources.unix
4506 U-UNIXSTD     comp.std.unix
4583 U-UNIXULTR    comp.unix.ultrix          comp
4584 U-UNIXWIZ     comp.unix.wizards          comp
4903 U-UNXXENIXMSC comp.unix.xenix.misc          comp
4904 U-UNXXENIXSCO comp.unix.xenix.sco          comp
4940 U-UOFT-GENERL ut.general              ut
4941 U-UOFW-GENERL uw.general               uw
3932 U-USA         soc.culture.usa             soc
4528 U-USENET      comp.sys.intel           comp
4439 U-USENIX      comp.org.usenix           comp
3355 U-USPAMI      uw.pami                 uw
2181 U-UTAI        ut.ai                  ut
3793 U-UTBIZARRE   ut.bizarre               ut
2182 U-UTCHINESE   ut.chinese               ut
2955 U-UTCSGENERAL utcs.general             utcs
2956 U-UTCSGRAD    utcs.grad               utcs
3798 U-UTCSGRAPHIC utcs.graphics             utcs
3799 U-UTCSJOBS    utcs.jobs              utcs
3800 U-UTCSLISPM   utcs.lispm              utcs
3801 U-UTCSPROJECT utcs.projects             utcs
3802 U-UTCSTALKS   utcs.talks              utcs
2957 U-UTCSTECHRPT utcs.techreports           utcs
3803 U-UTCSUNDER   utcs.under              utcs
3804 U-UTCSUPE     utcs.upe              utcs
2187 U-UTDCSGRADNE ut.dcs.gradnews             ut
2958 U-UTECEGENRAL utece.general               utece
3794 U-UTFOLLOWUP  ut.followup              ut
3795 U-UTJOBS      ut.jobs              ut
3949 U-UTNETREPTS  ut.nets.reports            ut
3796 U-UTSTATDATE  ut.stardate             ut
3962 U-UTTEST      ut.test              ut
3797 U-UTTEXT      ut.text              ut
4431 U-UUCPMAIL    comp.mail.uucp            comp
3805 U-UUNETALTER  uunet.alternet
3806 U-UUNETANNOU  uunet.announce
3807 U-UUNETFORUM  uunet.forum               uunet
3808 U-UUNETPRODU  uunet.products
3809 U-UUNETSTATU  uunet.status
3810 U-UUNETTECH   uunet.tech
3811 U-UWACOSYSTE  uw.aco.system             uw
3812 U-UWAHSGENER  uw.ahs.general            uw
3813 U-UWAHSSYSTE  uw.ahs.system             uw
3814 U-UWAILEARN   uw.ai.learning            uw
3815 U-UWASPLOS    uw.asplos               uw
3816 U-UWASSIGNM   uw.assignments            uw
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3821 U-UWCHINESE   uw.chinese              uw
3822 U-UWCOMPSUPST uw.computing.support.staff        uw
3823 U-UWCRAY      uw.cray               uw
2248 U-UWCSC       uw.csc               uw
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3824  U-UWCSCS788     uw.cs.cs788                    uw
3825  U-UWCSDEPT      uw.cs.dept                     uw
3301  U-UWCSEEE       uw.cs.eee                      uw
3302  U-UWCSFACULT    uw.cs.faculty                   uw
3304  U-UWCSGRAD      uw.cs.grad                      uw
3305  U-UWCSGRADTOP   uw.cs.grad.topics                uw
3306  U-UWCSGRADTOP   uw.cs.ugrad                     uw
3307  U-UWDCSCHANGE   uw.dcs.changes                   uw
3309  U-UWDCSCOURSE   uw.dcs.courses                   uw
3310  U-UWDCSNEWS     uw.dcs.news                     uw
3311  U-UWDCSSUGG     uw.dcs.suggestions               uw
3312  U-UWDCSSYSTEM   uw.dcs.system                   uw
3313  U-UWDCSWATSE1   uw.dcs.watserv1                  uw
3314  U-UWDCSWATSHI   uw.dcs.watshine                  uw
3315  U-UWDSGROUP     uw.dsgroup                     uw
3316  U-UWDSGROUPMI   uw.dsgroup.misc                  uw
3317  U-UWEEGRAD      uw.ee.grad                     uw
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3319  U-UWFASS        uw.fass                        uw
3943  U-UWFORSALE     uw.forsale                     uw
3320  U-UWGLLOW       uw.gllow                       uw
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3322  U-UWHARMONY     uw.harmony                     uw
3323  U-UWICR         uw.icr                         uw
3324  U-UWICRFORUM    uw.icr.forum                    uw
2224  U-UWICRHARDWR   uw.icr.hardware                  uw
3325  U-UWIMAGEPROC   uw.image-proc                   uw
3326  U-UWIMPRINT     uw.imprint                     uw
3387  U-UWISCGENER    uwisc.general                   uwisc
3388  U-UWISCNSFDOC   uwisc.nsfdoc                    uwisc
3389  U-UWISCSOFCHA   uwisc.software-changes            uwisc
3327  U-UWJSAW        uw.jsaw                        uw
3328  U-UWKIN         uw.kin                         uw
3329  U-UWLANG        uw.lang                        uw
3330  U-UWLAUREL      uw.laurel                      uw
3331  U-UWLIBRARY     uw.library                     uw
3332  U-UWLOGIC       uw.logic                       uw
3333  U-UWLPAIG       uw.lpaig                       uw
3334  U-UWLPAIGCH     uw.lpaig.changes                uw
3335  U-UWLPAIGSYS    uw.lpaig.system                 uw
3336  U-UWMAPLE       uw.maple                       uw
3337  U-UWMATHFACU    uw.math.faculty                  uw
3338  U-UWMATHGRAD    uw.math.grad                    uw
3339  U-UWMECHSYST    uw.mech.system                   uw
3340  U-UWMFCFBUGS    uw.mfcf.bugs                    uw
3341  U-UWMFCFGRIP    uw.mfcf.gripe                   uw
3342  U-UWMFCFHARD    uw.mfcf.hardware                 uw
3343  U-UWMFCFPEOP    uw.mfcf.people                  uw
3344  U-UWMFCFSOFT    uw.mfcf.software                 uw
3345  U-UWMFCFSUGG    uw.mfcf.suggestions               uw
3346  U-UWMFCFSYST    uw.mfcf.system                  uw
3347  U-UWMFCFTODO    uw.mfcf.todo                    uw
3348  U-UWMFCFUPDA    uw.mfcf.updates                 uw
3390  U-UWMGENERAL    uwm.general                     uwm
3349  U-UWMINOS       uw.minos                       uw
3350  U-UWMSG         uw.msg                         uw
3946  U-UWNETWORK     uw.network                     uw
3351  U-UWNEURALNE    uw.neural-nets                  uw
3352  U-UWNEWSGROU    uw.newsgroups                   uw
3353  U-UWOPINION     uw.opinion                     uw
3354  U-UWOSRESEAR    uw.os.research                   uw
3356  U-UWPAMIBSD     uw.pami.bsd                    uw
3357  U-UWPAMIGRIPE   uw.pami.gripe                   uw
3358  U-UWPAMISYSTE   uw.pami.system                  uw
3359  U-UWRECYCLING   uw.recycling                   uw
3303  U-UWSCGENERA    uw.cs.general                   uw
3360  U-UWSCICOM      uw.scicom                      uw
3361  U-UWSDGRAD      uw.sd.grad                     uw
3362  U-UWSHOSHIN     uw.shoshin                     uw
3363  U-UWSHOSHINCH   uw.shoshin.changes               uw
3364  U-UWSHOSHINSY   uw.shoshin.system                uw
3385  U-UWSICFORSA    uwisc.forsale                   uwisc
3386  U-UWSICFORUM    uwisc.forum                     uwisc
3365  U-UWSTATS       uw.stats                       uw
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3366 U-UWSTATSS    uw.stats.s                  uw
3367 U-UWSUNOWNERS uw.sun-owners                   uw
3368 U-UWSYLVAN    uw.sylvan                   uw
3369 U-UWSYLVANOS  uw.sylvan.os                 uw
3370 U-UWSYSAMIGA  uw.sys.amiga                 uw
3371 U-UWSYSAPOLLO uw.sys.apollo                uw
3372 U-UWSYSATARI  uw.sys.atari                uw
3373 U-UWSYSTEK    uw.sytek                    uw
3959 U-UWTALKS     uw.talks                   uw
3960 U-UWTEST      uw.test                    uw
3374 U-UWTEX       uw.tex                     uw
3375 U-UWUCCFORTR  uw.ucc.fortrade                uw
3376 U-UWUGRADCS   uw.ugrad.cs                 uw
3961 U-UWUNIX      uw.unix                    uw
2247 U-UWUNIXSYSAD uw.unix.sysadmin               uw
3377 U-UWUSYSTEM   uw.usystem                  uw
3378 U-UWVLSI      uw.vlsi                    uw
3379 U-UWVLSISOFT  uw.vlsi.software               uw
3380 U-UWVLSISYST  uw.vlsi.system                uw
3381 U-UWVMS       uw.vms                     uw
3382 U-UWWATSTAR   uw.watstar                  uw
3383 U-UWXHINTS    uw.x-hints                  uw
3384 U-UWXWINDOWS  uw.x-windows                  uw
4453 U-V           comp.os.v                  comp
3400 U-VAGENERAL   va.general                 va
2786 U-VAIATSTUDEN rec.aviation.student            rec
3402 U-VANGENERAL  van.general                 van
3401 U-VATEST      va.test                    va
4196 U-VECTREX     rec.games.vectrex             rec
4180 U-VEGFOOD     rec.food.veg                 rec
4246 U-VIDEO       rec.video                 rec
4197 U-VIDEOGAM    rec.games.video              rec
4741 U-VIETNAM     soc.culture.vietnamese           soc
4289 U-VIRTWRLD    sci.virtual-worlds
4586 U-VIRUS       comp.virus
4419 U-VISUAL      comp.lang.visual             comp
4454 U-VMS         comp.os.vms                comp
4718 U-VMSANNOU    vmsnet.announce
4720 U-VMSMISC     vmsnet.misc                 vmsnet
2253 U-VMSNETANNOU vmsnet.announce.newusers
3403 U-VMSNETDECLU vmsnet.decus.lugs            vmsnet
3405 U-VMSNETDESKM vmsnet.networks.desktop.misc      vmsnet
2252 U-VMSNETEADMI vmsnet.admin                vmsnet
2254 U-VMSNETMAIL  vmsnet.mail.pmdf              vmsnet
3404 U-VMSNETMAILM vmsnet.mail.misc              vmsnet
3406 U-VMSNETMANAD vmsnet.networks.management.decmcc    vmsnet
3407 U-VMSNETMANAM vmsnet.networks.management.misc     vmsnet
3408 U-VMSNETNETMI vmsnet.networks.misc            vmsnet
3409 U-VMSNETTCIPM vmsnet.networks.tcp-ip.misc        vmsnet
3410 U-VMSNETTCIPU vmsnet.networks.tcp-ip.ucx        vmsnet
2967 U-VMSNETTPU   vmsnet.tpu                 vmsnet
3411 U-VMSNETVMSPO vmsnet.vms-posix              vmsnet
2959 U-VMSNTEMPLOY vmsnet.employment             vmsnet
2960 U-VMSNTINTRNL vmsnet.internals             vmsnet
2961 U-VMSNTMAILMX vmsnet.mail.mx              vmsnet
2964 U-VMSNTNTMLTN vmsnet.networks.tcp-ip.multinet     vmsnet
2965 U-VMSNTNTWINT vmsnet.networks.tcp-ip.wintcp       vmsnet
2962 U-VMSNTNTWRK  vmsnet.networks.desktop.pathworks    vmsnet
2963 U-VMSNTNTWTCP vmsnet.networks.tcp-ip.cmu-tek      vmsnet
4723 U-VMSSRCGA    vmsnet.sources.games            vmsnet
4721 U-VMSSRCS     vmsnet.sources
4722 U-VMSSRCSD    vmsnet.sources.d              vmsnet
4724 U-VMSSYSMG    vmsnet.sysmgt               vmsnet
4725 U-VMSTEST     vmsnet.test                vmsnet
4726 U-VMSUUCP     vmsnet.uucp                vmsnet
3412 U-VUWGENERAL  vuw.general                 vuw
4147 U-WANTED      misc.wanted                misc
4500 U-WANTSRC     comp.sources.wanted            comp
3413 U-WELLGENERAL well.general                well
3414 U-WGTNCHAT    wgtn.chat                 wgtn
3415 U-WIFORSALE   wi.forsale                wi
3416 U-WIGENERAL   wi.general                wi
2029 U-WINDINTERVI comp.windows.interviews          comp
4907 U-WINDOWSXANN comp.windows.x.announce
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4908  U-WINDOWSXMTF  comp.windows.x.motif              comp
4734  U-WINDSURF     rec.windsurfing              rec
3417  U-WIZMOTORACE  wiz.motorace                 wiz
3418  U-WIZNREN      wiz.nren                 wiz
3419  U-WIZROADSTER  wiz.roadsters                wiz
4587  U-WNDWMISC     comp.windows.misc            comp
4589  U-WNDWNEWS     comp.windows.news            comp
4906  U-WNDWSOPN-LK  comp.windows.open-look          comp
4590  U-WNDWX        comp.windows.x            comp
4243  U-WOODWORK     rec.woodworking              rec
4240  U-WRESTLIN     rec.sport.pro-wrestling          rec
3420  U-WTBYANNOUNC  wtby.announce                wtby
3421  U-WUCSGENERAL  wu.cs.general                wu
4859  U-XEROX        bit.listserv.xerox-l          bit
4563  U-XEROX        comp.sys.xerox            comp
4455  U-XINU         comp.os.xinu          comp
4407  U-XLISP        comp.lang.lisp.x          comp
4860  U-XMAILER      bit.listserv.xmailer          bit
4501  U-XSRC         comp.sources.x
2256  U-YORKANNOUNC  york.announce                york
3422  U-YORKARIEL    york.ariel               york
3423  U-YORKCALUMET  york.calumet              york
3425  U-YORKDOC      york.doc              york
2969  U-YORKEMAIL    york.email              york
4564  U-ZENITH       comp.sys.zenith              comp
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SOFTWARE: FILE AREAS

⎯⎯═══ MACINTOSH FILE AREAS ═══⎯⎯-
Conference 1

  7. The Best for Mac -- Files Everyone Should Have

USER GROUP DISKS

  10. Educorp Disks 2000 - 3999
  11. Educorp Disks 4000 - 5999
  12. Educorp Disks 6000 and up
  13. Public Domain Exchange Disks
  14. Los Angeles Mac Group
  15. Berkley User Group
  16. Washington Apple PI
  17. Boston Computer Society
  18. Club Mac Disks (U.S.)
  19. Mac Tutor Journal's Source Codes

COMMUNICATIONS

  20. Anti-Viral Utilities/Information
  21. Archive Utilities (for .sit .cpt .zip .arc etc.)
  22. BBS Lists (world wide)
  23. BBS Software
  24. Communications Software
  25. Networking / Mac IBM Utilities

PRODUCTIVITY and EDUCATION

  30. Business and Financial
  31. Database - Programs, Utilities, Templates
  32. Spreadsheet - Programs, Utilities, Templates
  33. Programming Utilities and Languages
  34. Programming Source Codes
  35. Word Processing / Text Editors / DTP
  36. Science, Math, Health and Medicine
  37. Other Productivity

GRAPHICS and SOUND

  40. Graphics Programs, Editors and Viewers
  41. Still Graphic Files (clip art)
  42. Nudes / Adult Files -- See Adult Conference
  43. Moving Graphics
  44. Digitized Sounds
  45. Music
  46. Sound Utilities / Applications

SYSTEM RELATED SOFTWARE AND UTILITIES

50. System, Finder and Multifinder Utilities
51. Hardware Utilities (eg. SCSI related, clock speed test)
52. Printer Utilities
53. Disk and File Utilities (incl. resource editors)
54. Icons and Icon Utilities
55. Screen Utilities (screen savers, copiers etc)
56. Fonts and Font Utilities
57. Utilities for Hypercard
58. Misc. Utilities
59. Apple Licensed Software - Not to be redistributed except
        by license from Apple.

GAMES

60. Adventure and Fantasy Games
61. Arcade Games
62. Board, Dice and Card Games
63. Puzzles and Word Games
64. Simulations (eg. car racing, etc.)
65. Sports Games
66. Misc. Games

OTHER FILES

70. Mac II Specific Software (works only on Mac II family)
71. Reference / Text Files / Misc. Infomation files
72. Software not Classified or Unknown

RECENT UPLOADS

97. Uploads by CRS - Automated File Collection
98. User Uploads - Two Months Ago
99. Current User Uploads

–== IBM/DOS FILE AREAS ==-
Conference 2
Last updated July 20, 1992

A. GENERAL INFORMATION - All Computer Types

B. USER GROUP DISKS - User Group Software is more nicely cataloged than
   Topical Software, but may not be as complete or as current.

C. TOPICAL SOFTWARE - Software in the following areas is arranged by topic.
   You may find considerable duplication and older versions, so exercise
   some caution when looking in these areas. New software always resides
   in areas 394 to 399.

CRS ONLINE   NEW USERS GUIDE

UTILITIES

WORD PROCESSING

NEW FILES

Files marked (CRS) have been sourced by CRS and have been virus scanned.
Files marked (ASP) have been received directly from the authors or via

—╾═ AMIGA FILE AREAS ═╾─
Conference 5

7. Group Disks (FISH etc)
8. Uploads by CRS
9. (Reserved)
10. (Reserved) (Group Disks)
11. Artificial Intelligence (AI)
12. Bulletin Board S/W, Support
13. Business Applications
14. Communications, Terminal S/W
15. C Language Programming
16. Database,Cataloguers
17. Desktop, Icons, Mngrs, CLI
18. Education, Learning, RRR
19. Entertainment, Just for Fun

20. Financial Applications
21. Games, Additions, Tips
22. Graphics, Pictures, Display
23. Home Applications
24. Programming, OS's
25. Music, Songs, Sounds
26. Nudes (Use Judgement!)
27. Reference, Demos, Text
28. Spreadsheet, Calculators
29. Word(Text),Drivers,Fonts
30. UTILITIES
31. Misc. Not Classified

32. Current Subscriber Uploads

—╾═ ATARI ST FILE AREAS ═╾─
Conference 6

COMMUNICATIONS
7. Archive Utilities (ARC/LZH/ZIP)
8. BBS and Support Programs
9. Terminal Programs

10. Communications Utilities
11. Virus Remedies

PROGRAMMING
15. Languages
16. GFA Source Code
17. C Source Code

18. Other Source Code
19. Programming Utilities

PRODUCTIVITY
25. Databases
26. Spreadsheets

27. Business Utilities

WORDS AND PRINT
30. Wordprocessors
31. Text Readers/Processors
32. Desktop Publishing
33. Calumus Fonts

34. GDOS/Other Fonts
35. Clip Art
36. Print Utilities

TEXT FILES
40. Online Magazine
41. Computer References

42. Other Text Files

GAMES AND ENTERTAINMENT
50. Arcade Style Games
51. Adventure Games
52. Board Dice Card Games

53. Misc. Games
54. Educational Games
55. About Games/Help/Reviews

MUSIC
60. MIDI Programs and Patches
61. MIDI Music/Sound Files
62. Other Music Programs

63. Other Songs
64. Music/MIDI/Sound Utilities

SYSTEM AND DESKTOP
70. Alternate Desktops
71. Alternate Operating Systems

72. TOS/GEM Fixes/Utilities

GRAPHICS
75. Drawing Programs
76. Pictures

77. Animation
78. Graphics Utilities

OTHER UTILITIES
85. Disk Utilities
86. Misc. Utilities

87. Emulators et al

PORTFOLIO
90. Portfolio Programs

91. Portfolio Information

NEW UPLOADS
98. Unclassified/Previous Months
99. Current Month

COMMODORE 64/128 FILE AREAS
Conference 13

 7. C64 - Utilities
 8. C64 - Communications
 9. C64 - Games
10. C64 - Graphics Utilities
11. C64 - Graphics
12. C64 - Music Utilities
13. SIDPLAYER Music
14. CPower C
15. GEOS - Utilities
16. GEOS - Graphics
17. GEOS - Documents
29. CMD Support
31. Commodore Education

18. C128 - Utilities
19. C128 - Communications
20. C128 - Games
21. C128 - Graphics Utilities
22. C128 - Graphics
23. C128 - Music Utilities
24. C64/128 Music
25. C64/128 Misc
26. GEOS - Games
27. GEOS - Fonts
28. GEOS - Drivers
30. CP/M
32. Current User Uploads

APPLE II+, //e, //c, //gs FILE AREAS
Conference 14

7. The Best for Apple -- Files Everyone Should Have

PDE SOFTWARE

10. Public Domain Exchange Disks ApII - 1988-89
11. Public Domain Exchange Disks ApII - 1990 and up
12. Public Domain Exchange Disks IIgs - 1988-89
13. Public Domain Exchange Disks IIgs - 1990 and up
14. New from other sources (by CRS)

COMMUNICATIONS

20. Anti-Viral Utilities/Information
21. Archive Utilities (for .BXY .BQY .BLU .QQ etc)
22. BBS Lists (from Toronto Computes!)
23. BBS Software
24. Communications Software
25. Networking

PRODUCTIVITY and EDUCATION

28. HyperCard - Utilities and Stacks
29. HyperStudio - Utilities and Stacks
30. Business and Financial
31. Database - Programs, Utilities, Templates
32. Spreadsheet - Programs, Utilities, Templates
33. Programming Utilities and Languages
34. Programming Source Codes
35. Word Processing / Text Editors / DTP
36. Science, Math, Health and Medicine
37. Misc. Files and Utilities
38. Educational templates / files / games, etc.

GRAPHICS and SOUND
40. Graphics Programs, Editors and Viewers
41. Still Graphic Files (clip art)
42. Nudes / Adult - Also, see Adult Conference 35
43. Animated Graphics
44. Digitized Sounds
45. Music
46. Sound Utilities / Applications
47. MIDI
48. Print Shop Graphics
49. GIF

SYSTEM RELATED SOFTWARE AND UTILITIES

53. System and Finder Utilities
 (CDA's; NDA's; CDevs; Inits
54. Hardware Utilities (eg. SCSI tester)
55. Printer Utilities
56. Disk and File Utilities
57. Icons and Icon Utilities
58. Screen Utilities (screen savers, copiers etc)
59. Fonts and Font Utilities

GAMES
64. Eamon
65. Adventure and Fantasy Games
66. Arcade Games
67. Board, Dice and Card Games
68. Puzzles and Word Games
69. Simulations (eg. car racing, etc.)
70. Sports Games
71. Misc. Games

OTHER FILES

75. Tech Notes
76. IIgs Specific Software (works only on a IIgs)
77. Reference / Text Files / Misc. Infomation files
78. Software not Classified or Unknown

RECENT UPLOADS

99. Current 2 Months - User Uploads

ECHOMAIL NETWORKS

CRS supports the concept of Echo Mail and participates in a number of international networks.

Echoing into and out of CRS are the following networks -

a. NorthAmeriNet - over 500 worldwide systems, now set up on a regional basis, NorthAmeriNet (NANET) is one of the most active nets in Canada. It's been expanded to the U.S. under the name NorthAmeriNet, and regionals are now in place in a dozen or so locations in the US.   We expect to see NorthAmeriNet grow dramatically over the next few months as more and more systems start to tie into the regionals.   Canada Conference Mail/NorthAmeriNet conferences are the usual CRS conferences from 1-106 and from 300-350.

b. Usenet - Over 30,000 primarily Unix based systems, around the world.   With 2800+ conferences, Usenet is one of the oldest and most active systems in the world.   Offering true point to point mail capabilities as well as international echo capabilities, the Usenet conferences may be accessed through all conferences starting with U-.

c.   Intelec - A relatively small system, Intelec offers some 100 conferences. Intelec conferences all start with I-.

d. RIME - Through arrangements with RIME, CRS subscribers have access to the entire RIME network and conferences.   PCBrelay is a network of some 650+ systems and over 150+ conferences, including some very important vendor support conferences. RIME conferences all start with R-.

e. Echonet - A very local network of some 12 conferences and 35+
systems, Echonet offers many things of local interest. Echoed only into systems in the Toronto area, the entire echonet set of conferences is available. Echonet conferences all start with E-.
f.   ILINK - A professional network of some 150+ conferences. ILINK is a very tightly moderated net, and you'll find that messages in ILINK conferences are almost always on topic and of a high quality nature. ILINK is not noted for idle chitchat, but you'll find some very interesting conferences. ILINK conferences all start with L-.
g. Throbnet - An adult network, accessible only to those that have the adult add-on. Throbnet conferences all start with T-.

It's very simple to send message in network conferences.   Simply join the conference of your choice and leave your message in the normal manner. Networks have their own rules and regulations, and if you plan on participating in the many mail networks, please review the appropriate documentation found in file area 1.

POPULAR TECHNICAL QUESTIONS

Q1 - How do I join the Adult Conference?

A1 - Go to the main conference and complete script #3 by hitting "S" followed by a carriage return and then "3".   Please note that this script must be filled out entirely and all information must match.   We're very concerned about the material in this conference. We ask you for some personal information (which is not recorded in our database, but which is used to verify your age), and without it, we simply will not allow you into the Adult Conference.   This conference is an add-on to your basic subscription, and you will be asked to provide credit card information.

Q2 - How do I get the latest version of Qmail Deluxe? I can't find the door or the door doesn't recognize me.

A2 - OPEN (Door) 67 for the latest version of Qmail Deluxe. The door must find your serial # in our user file. If you get a message that your serial # is not found, just leave a comment to SYSOP in any of the machine specific or main conferences. We'll update the database, typically within 24 hours, so you can get the latest version.

Q3 - I tell CRS to download and then it gives me a time out error. I don't get any files. How come?

A3 - After telling us to send a file to you with the "D" command, you must tell your end to receive the file.   This is often (but not always) done by hitting the PageDown key.   Unfortunately, each software package may be different, so you'll have to look in your manual for exact downloading instructions. Downloading is a two step process - tell us to send, and then tell your end to receive.

Q4 - How do I unarchive a file ending in ZIP?

A4 - Get PKZ204G.EXE from our system, and use it. ZIP files are a different type of compression, and require PKZIP. Latest version is PKZ204G, and it can be downloaded from Conference 2. (Note that this version # changes from time to time. The latest version may always be found in file area 285, conference 2).

Q5 - Can I download the directory listings?

A5 - In most cases, yes.   Directory listings for MAC, IBM, CP/M, Amiga and ST are all downloadable using the format xDIRyy where x is the first letter of the conference, and yy is the number of the directory in question.   To download IBM Spreadsheet info (directory 34) for example, you would download IDIR34.   The New File Upload directories are the only listings that cannot be downloaded in this manner, as they are constantly being updated on our net. To capture a new file listing, use the screen capture feature of your communications program.

Q6- I tried to open a door and the system hung.   Why?

A6 - Doors are add-on programs, and have to load themselves. Some are quite large.   Thus, depending on the speed of the workstation/node that you are on,

the network activity, and where you are in the extended user file, it may take 2 to 4 minutes to open a door.

Q7 - What is the fastest protocol for file transfer?

A7 - Fast is a relative term. In purely theoretical terms, any Non- Error correcting protocol designed to be used with Error correcting modems will be the fastest. In practice, line noise may play a significant role in the speed of your transfer. Xmodem-1K-G will be the fastest.   However, we use (and recommend) Zmodem. Although it will be a bit slower, it's a more robust protocol and you are less likely to have an aborted file transfer.

Our choices (in descending order of preference are)

ZMODEM
XMODEM-1K-G (for error correcting modems)
XMODEM-1K
XMODEM-CRC

Note that with slower modems, the choice of protocol makes little difference in file transfer speed.

Q8 - How do I use .SIT or .PIT files from the Mac area?

A8 - Download STUFFIT 1.51 from the Mac conference. Click on Stuffit and then use Stuffit to open your .SIT or .PIT file.

Q9 - How does CRS keep track of our time on-line?   I signed on at 11pm and off at 1am, and the system won't let me on today.

A9 - PCBoard keeps two variables in the user files - The date last on and the amount of time used on that date.   This works fine unless you are on the systems over midnight.   If you are on over midnight, PCBoard will charge the current day with the entire time on-line for that session.   Thus, if you log on at 11pm and off at 1am, PCBoard will record todays date and 120 minutes, and not allow you back on until tomorrow.

To get around this, simply log off a minute or two before midnight and then log back on.

Q10- I haven't called the system for a number of months, and it doesn't recognize my name. I know my subscription is still paid up.

A10- Something's wrong.   It is possible that something in your user record has been changed (this will be a problem at CRS). Try calling our main Etobicoke #'s (213-6002 or 213-6003). If your name still isn't recognized, call the CRS office at 213-6000 and we'll sort out the problem for you.

Q11 - I can't ever get on at noon between 12:00pm and 12:45pm.

A11 - Our systems shutdown automatically for maintenance between 12:00pm and 12:45pm (eastern time). During that time, our tape backups are completed, new users added, and other system maintenance is done. Call back after 12:45 and you'll get on.

The systems also are scheduled down between 10am and 3pm on Tuesdays.

Q12- How do I use LHZ extensions?

A12 - LHZ is simply another method of packing/squeezing files. It's very efficient, and some boards are moving towards it. We don't plan to do so here at CRS, but some files are coming in in the LHZ format.   To extract, you need LHARC.EXE, available in conference 2, area 36.

Q13 - What steps do you take to ensure virus free software?

A13 - CRS cannot guarantee that you'll never get a virus from CRS. No professional software company can make this claim. However, as all our software comes from known and reputable sources, your chances of contacting a virus at CRS is quite remote. In 10 years of running a BBS, we've only seen two trojan horses. All programs that show (CRS) at the front of their descirption have been virus scanned.

CRS runs virus scanning software on all new IBM software that we acquire over the phone lines, but in the final analysis, it's your responsibility to take appropriate precautions. Since the most common threat of viruses is from disks passed from user to user, you should be constantly checking for viruses on all software that you bring onto your computer. You can get the latest virus protection software from McAfee from CRS in the IBM file areas.

Q14 - Can I send private mail through NorthAmeriNet Systems?

A14 - Yes, you can.   Mail left privately here at CRS will travel to any NANET system that accepts private mail, and replies will, in turn, travel back to CRS. However, the remote system must be willing to accept private messages.

Q15 - Are my messages on CRS private?

A15 - Yes and no.   Messages left on CRS can only be viewed by someone with System Operator status.   That includes only full time staff of CRS, and generally is limited to the three individuals involved in running the board. As a matter of policy, we do not comment on or involve ourselves in private messages unless there is clearly something illegal going on.   We do not delete messages except in very rare instances and then, a message will be left by "Sysop" advising why a message has been deleted.

Conference Chairmen may also review and respond to private messages IN THEIR CONFERENCE only. Again, they typically will not involve themselves in private messages.

Other employees of CRS, Canada conference sysops, and subscribers of CRS cannot view private messages, as long as you do not mark them for ECHO. If marked ECHO, then your private messages echo throughout our network, and can be read by other network sysops.

Q16 - What protocols do you support for high speed transfer?

A16 - Our phone list has a breakdown for the different modem protocols CRS supports.

Q17 - How do I view GIF files?

A17 - GIF files are in a Graphics Interchange Format, a protocol developed by Compuserve for display of graphics files.   In order to read them, you need a GIF reader.   GIF readers vary in their capabilities, but will be found in file area 29 of conference 2.   Most popular is a GIF reader called CSHOW, but you'll need to check the listings for your particular combination of hardware/software.

GIF readers are available for some other machines, in the graphics areas of the machine specific conference.

Q18 - Why is your tech line so busy? Why isn't it toll free?

A18 - Our tech line is busy for two reasons - First, the tech staff will attempt to assist you with virtually any of your questions, and are a valuable resource for you to call on.   Second, it's free, and you can't get a better price than that. It's most busy between 1pm and 2pm - just after it opens daily and between 6pm and 7pm.   Call between 2pm and 6pm and you'll often get right through. If it is busy, please keep trying. Don't call on the sales lines. The sales staff aren't equipped to answer technical questions and thus cannot help you.

The tech service is free, but we cannot pay for your long distance calls. If you can't make the long distance call, feel free to write us or leave a message on the system.   Letters and messages get responded to but not quite as quickly as telephone calls.

We know the tech line is busy, but the alternative is to add more staff and charge for access to it. We think you'd rather have it free.   **TECH ASSISTANCE 213-6001**

GETTING YOUR PERSONAL OFF-LINE READER

CRS Online offers free on-line updates of the Qmail Deluxe. You may obtain your original copy of QMAIL Deluxe for $30 by calling the office.

Many of you asked how to go about getting the Qmail reader or the latest upgrade of same. Believe it or not, it is quite simple!

QMail Deluxe

Qmail Deluxe is available for downloading to the public as Deluxe2.ZIP at the time of this writing. Note that this name may change with future revisions. The file you download is a demo version only which requires a QMAIL.KEY file to make it fully functional. You can always download the latest version of the reader (the demo) regardless if you have purchased the software or not. If you have a .KEY file you are all set. Should the .KEY file have changed or if you have just purchased the reader you will need to download the .KEY file from us. You can do this quickly via the QMail system. At our main system prompt simply enter "QMAIL4 KEY" (without the quotes!) and you'll be on the way!

If you acquired Deluxe from CRS Online simply select the download option. Note that the transfer is automatically set for XModem - not your default protocol! This is a very small file and it makes sense to use XModem.

If you acquired Deluxe at Sparkware or some other place you must have a .KEY file in order to get a new one from us. Simply select the upload option, transmit your current .KEY file and you will receive the latest copy automatically via return transfer. If you have no .KEY file or if your Deluxe serial number contains the letter "s" (sysop copies) you must call Sparkware for the upgrade. If you have the original disk from us, you can simply leave a comment to SYSOP along with your serial # and we'll provide further instructions on obtaining the latest version.

Once you have the latest version of the .KEY file place it in your Deluxe directory and you are all set!

This is all there is to it. Give it a try you'll find it simple and quick! Should you have further questions we'll be happy to answer them.

QMAIL

The Qwikmail System is a combination of a door accessable by users from PCBoard, and a reader program available on this board. The Qwikmail door allows you, the user, to download a copy of all the public messages (and any private messages addressed to you) available since your last call. You are not deducted or credited for downloads or uploads during message transfer. The door will package up the messages in a format usable by the QMail reader program. Before using the door, you should download the reader program for a few reasons. First, the door is useless to you without it. Second, it contains a more detailed explanation of the door, the configuration process and usage. The

program is available for downloading as "QMAILnnn.ARC" where 'nnn' is the current release version number. At the time of this writing, it is QMAI01.ARC, however check for new releases by using the Locate command (at the Command prompt enter "L QMAIL *.ARC A", without the quotes). The reader program, Qmail, which runs on the IBM PC family and compatibles, allows MS-DOS or PC-DOS users to read the messages offline in an environment very similar to that of PCBoard and, best of all, reply to messages while reading. The replies are then uploaded to the Qwikmail door on a second call and placed in all the appropriate conference and main message bases.

Qmail also gives you the ability to:
* scan the messages for your personal database of keywords.
* scan for messages only from a list of users you choose.
* read only the messages you haven't yet seen.
* thread through conversations by subject.
* import text into messages.
* send public or private messages
* send carbon copies of private messages to several users

To download messages through the QMail door, you must use either the XModem CRC, 1K-Xmodem (also called YModem), 1K-XModem-G (used to be called YModem-G) or Z-Modem protocols. YModem-G will not be available unless you have an MNP connection here. To use the Qmail reader, you must have the PKXARC and PKARC (or PKZIP) utilities available in your DOS PATH.

There is one other caveat - the MOST IMPORTANT ONE. You must follow this procedure carefully to avoid serious problems (and to save your Sysop some grief). If you are familiar with the PCBoard conference system, be aware that your Qmail packet will contain ALL the public messages in ALL the public conferences on the board. That means, that if you have never entered a PCBoard conference with the Join option, your message pointer (the highest message number you have read) is ZERO. When you open the Qmail door, ALL THE MESSAGES WITH NUMBERS GREATER THAN THIS MESSAGE POINTER WIL BE SENT. If they are extremely active conferences, this could be several megabytes of text files.

Since CRS Online has several megabytes of free space, you'll get a big file (you'd better have a hard drive and be ready for it!).
Follow this simple procedure the FIRST TIME you pick up Qmail.

1. Open the Qmail door.
2. Select the transmission protocol you desire.
3. Select and deselect conference to indicate just which topics you wish to receive.
4. For conferences you selected, check and if needed reset the message pointer somewhere near the highest message shown.
5. Choose D (to begin the packing and download procedure). WAIT for the board to tell you when to begin your download. With ZModem, the board supplies the filename for you.
6. Once the download is complete, choose Q (Quit) to return to the Executive Network or G (Good bye) to hang up On your computer, make sure the CRS.QWK file that contains your messages is in the same directory as QMAIL.EXE. Type Qmail at the DOS prompt and begin the program. From here, please rely on the documentation that comes with Qmail. To upload replies, simply call the board

back, open the Qwikmail door and choose the U (upload) option from the Qwikmail prompt. WAIT for the board to prompt you when to begin your upload. If your upload is successful, it will notify you of that fact. You can immediately read the messages you have just posted in conferences and on the main board.

If you have bug reports or suggestions on the program, please leave all messages in the QMail support conference.

The bottom line is simply a very large savings in your connect time, which translates to savings of $$. In addition, you gain immediate access to several other conference areas with specialized topics of interest. You will find QMail to be a significant addition to BBS-ing for sure.

Configuring the Qmail Door

Before you can use The Qmail Door you really need to spend some time on it and configure it for your needs and usage. This bulletin will introduce the latest features available and describes how best to use them.

"A" - The AUTOSTART sequence

AutoStart sequences are Qmail Door commands that are stored inside your private configuration area. Every time you open The Qmail Door and there is an AutoStart sequence defined the door will count down ten seconds before it executes the command(s). You can abort the AutoStart sequence by pressing the [ESC] or [CTRL-K] keys TWICE during the countdown.

The AutoStart sequence is designed to get around the problem of "line noise" that can plague SCRIPTED sessions. Sometimes during a SCRIPTED session line noise (usually seen as random characters) can be introduced on the telephone line. This can cause incorrect commands to be transmitted to The Qmail Door and cause a scripted session to fail. The AutoStart sequence is a stack of Qmail Door commands (up to ten characters long) separated by semicolons that are sent to the door when it is first opened. This means that your script no longer needs to transmit commands to the door - the script can wait for certain prompts to take appropriate actions. Since no characters are ever accepted from the script by the door line noise can no longer affect the door's performance.

There can be many different AutoStart commands - you can define any sequence of valid characters you wish. The AutoStart sequence below offers the best performance by The Qmail Door (when certain options are combined with it):

D;Y;U;G

This sequence performs the following tasks:

"D" Downloads waiting messages.

"Y" "Download this packet (Y or N)? " is answered with a "Y". OPTION #2 must be set to OFF if this sequence is used. See OPTIONS for more information.

"U" Uploads any replies the you have ready to send. The script should check to see if you have a reply packet waiting for The Qmail Door. If a packet is found it should be uploaded to the door.   If one is not found then the script should

transmit CTRL-X's to abort the upload process.

You might want to turn OPTION #3 ON when using this sequence. This lets you upload your replies and then logoff the system BEFORE messages are integrated into the message bases.

"G" Goodbye - and disconnect from The Qmail Door You can erase an AutoStart sequence by entering SPACES instead of a command.

@BULLET = "ARC" - Selecting an archiver

The Qmail Door has the ability to work with up to five different archiving systems. The door will not let you upload or download messages without selecting an archive system first.
Currently we support only the .ZIP and .ARC formats, both through the use of the PK series programs.

The "ARC" command will give you a list of the archivers supported by The Qmail Door. You can then select from the list and the door will use this archiver to pack their messages.

! The Qmail Door does not use this archiver selection to unpack .REP files. The door scans the .REP file and matches it to the correct archiving system used. This lets you change to a different archiver and still upload a .REP file used by their old selection.
"F" - Packet formats

The Qmail Door has the ability to send your messages in three different formats. You can choose which format you wish to use.
DeLuxe 1.xx and shareware readers.

This selection will send you packets that are compatible with the shareware Qmail Reader and the Qmail DeLuxe 1.xx readers. If you have been using the older Qmail Door 2.33 you should select this choice.

DeLuxe 2.00.

The DeLuxe 2.00 format has yet to be defined inside The Qmail Door so for the time being this selection will default to the DeLuxe 1.xx format.

Text format.

The Qmail Door will send you a text file that contains messages scanned by the door. The file also includes the WELCOME, NEWS, bulletins and new files lists, if any.

@BULLET = "K" - Keywords

The Qmail Door lets you enter and store up to five keywords in your setup. These keywords are stored inside a file on our system for you.

You can enter the keywords one keyword per line. You will then be asked if you wish to search for all messages that contain these keywords or messages that DO NOT contain these keywords.

If you set KEYWORDS to search for all messages that contain these keywords, then Qmail Door will only include messages that contain any one of the keywords.

If you set KEYWORDS to search for all messages that do not contain these keywords, Qmail Door will reject any messages that contain any one of the keywords.

A keyword can be erased by typing SPACES instead of a keyword.

"L" - Limit packet sizes

If you will be using the Qmail readers on floppy disk system, you might not like receiving a mail packet that unpacks to over 500k - the packet wouldn't fit on a 360k diskette.

You can limit the size of your packets by using the "L" command.
All you need to do is to enter the largest packet size you wish to receive (in Kbytes) and the door will stop scanning when the packet size reaches this limit.

! You cannot exceed the total amount of workspace allocated by the sysop. This figure is displayed by The Qmail Door at the beginning of each download.

"P" - Protocols

You must select a protocol before you can upload or download messages. When you enter The Qmail Door for the first time the door will attempt to use your PCBoard protocol (if it is defined).

A list of protocols will be displayed and you can enter the LETTER associated with the protocol's name. For example, "Z" always refers to the ZMODEM protocol.

 "OPT" - Options

Options are "configuration switches" that you can turn on or off inside The Qmail Door.

Some options may be disabled by the sysop - or they may have passwords attached to them. If one of these options is NOT displayed inside the door then the sysop has disabled it.

#1 - Download your own replies

This option, if ON, will send you any message replies you have uploaded since your last download scan. Some folks like to see their own replies; others like to write a reply and never see it gain. Now they can decide how to do this for themselves.

#2 - Download packets without messages

If this option is ON The Qmail Door will not ask the question "Download this packet (Y or N)?" if the scan does not find any messages.

Some scans may find new files or bulletins but no messages. This option will simply bypass the question and return you to the "Command?" prompt.

If a stacked command line is being used in the door (either from AutoStart or from you directly) then The Qmail Door will "bleed off" the next keystroke in the buffer when this option is turned ON and when no messages were found. This prevents the door from trying to interpret the "Y" response as a valid Qmail Door command.

#3 - Logoff after uploading replies

This option, when ON, will let you log off The Qmail Door before message replies (.REP packets) are inserted into PCBoard. The door will give you a ten second countdown before being logged off - you can abort the logoff by pressing the [ESC] key twice (but inserting messages continues).

This option is great for long distance callers who don't want to stay connected to the system while their messages are being inserted into PCBoard.

#4 - Send the WELCOME screen

This option will insert the Executive Network's WELCOME screen in your .QWK message packet.

#5 - Send the NEWS screen

This option will insert the NEWS file in your .QWK message packet.

#6 - Scan for new BULLETINS
 This option will insert any new bulletins found during the message scan into your .QWK message packet.

#7 - Scan for new FILES

This opti will scan the main upload directory and any conference upload directories you have access to into your .QWK packet.

#8 - Send the LOGOFF screen

This option will insert our logoff file into your .QWK packet.

#9 - Send the Qmail DeLuxe menu

This option will insert the Qmail DeLuxe menu screen into your .QWK packet.

#10 - Download only network mail
 This option will ignore any mail entered locally on this system and will only scan mail that was received over InterLink.

#11 - Show "dots" while scanning

Sometimes you may think that The Qmail Door is "hung" when it's really scanning large bases. If this option is ON then the door will transmit "."'s to you - one for every five messages scanned.

If you are capturing the message scan to a file in your SCRIPT this option should be left OFF. Otherwise, the display captured might look a bit strange (due to the backspacing over the dots).

#12 - Display extended prompts

This option, if ON, will send "extended" prompts to you so your SCRIPT might easily "pick up" on them and perform actions on your end.

Some of you have wondered why use these extended prompts in the door? Here are a few reasons:

A script cannot rely on the fact that a prompt in Qmail Door will not change ("Command?" for example). The Qmail Door fully supports international languages and this would force script authors to support multiple versions of one script. The extended prompts are HARDCODED into the door itself and will always be presented in English.

Some telecommunications programs seem to have problems picking up some prompts. Extended prompts can help fix this problem (see option 13 for more information).

Using extended prompts along with an AutoStart sequence gives scripted users as close a chance as possible to a 100% successful mail transfer every time. All scripts should use the extended prompts option.

These prompts are supported by The Qmail Door:

AUTOSTART

If you have defined an AutoStart sequence this prompt is sent by
the door. The SCRIPT can send [ESC] or CTRL-K twice in ten seconds to disable the AutoStart command from executing.

~ COMMAND

This prompt is sent whenever The Qmail Door is at the "Command?" prompt. Scripts should delay sending commands to the door for one second after receiving this prompt.

UP

The door is about to send you a message packet that was scanned by the system during a maintenance schedule. No message scanning has been done and the SCRIPT should be ready to accept a .QWK packet.

TRANSFER

This prompt is sent whenever option #2 is ON and no messages were found in the message scan.

This can also be sent after a message packet has been archived but
there is insufficient time left for the you to download the packet.

DOWNLOAD

The door is ready to begin sending the .QWK message packet to you. The script should be ready to accept the download.

<L> SUCCESS

The Qmail Door has checked the transfer log and found that the message packet was transmitted successfully.

<L> ERROR

The QmaiDoor has checked the transfer log and found that the message packet was NOT transmitted successfully.

AD

The Qmail Door is ready to accept a message reply packet from the script. The script should check to see if a .REP packet is waiting to be sent. If one is found then it should be uploaded now. If a packet was not found the script should transmit CTRL-X's to abort the upload function.

SUCCESS

The Qmail Door has checked the transfer log and found that the reply packet was transmitted successfully.

! This does not mean that the messages were inserted into PCBoard correctly. This prompt is sent when the file transmitted was successfully uploaded.

ERROR

The Qmail Door has checked the transfer log and found that the reply packet was NOT transmitted successfully.

MESSAGES INSERTED

The Qmail Door has completed inserting messages. The script can now take whatever action it wants to with the .REP reply packet on your system (usually the script should delete the .REP packet at this time).

This prompt should be used to delete .REP packets by the script instead of SUCCESS because the script may upload the wrong .REP packet.   In this case, the door would reject the packet - but the script, keying only on the success of the upload, would DELETE it.

MESSAGES NOT INSERTED

Qmail Door could not identify the archiving system used to pack the reply packet or the replies uploaded were not intended for this system. The replies were not inserted so the script should not delete the .REP file.

HANGUP

The Qmail Door has hung up on you. The script should disconnect at this time.

#13 - Delay extended prompts one second.

If option #12 is ON this option, when ON, will delay sending the extended prompts by ONE second.

Setting this option ON is a good idea for those using a script.
Some telecommunications programs have problems picking up prompts
because their input buffers may get behind incoming text from the
door. This option will force a one second pause before transmitting
the extended prompts - giving these programs a second to "catch their breaths".

#14 - Clear the keyboard buffer.

If this option is ON then The Qmail Door will clear any input received before the prompt was transmitted to the you. This helps cutdown on any "line noise" effecting script commands.

#15 - Configuring Qmail Door offline.

More to come on this option later. Stay tuned!

"S" - Select conferences

When you open The Qmail Door for the first time you are assigned conferences that have been defined as "default conferences".

If you wish to remove or add conferences, this is where you need to go.

If you are in GRAPHICS mode or are using a telecommunications program that uses ANSI then the Qmail Door will send you what might be called the "fancy" configuration screen. Otherwise, you get a conference selection screen that scrolls down the display.

Files On-line - Why the .ZIP extension?

* System note: if you have trouble with a ZIP'd file - download PKZ204G.EXE *

Most all of the files on our system have a .ZIP extension on them, for example, in directory #1 there is a file called CRSNOV91.ZIP (Our November/91 Newsletter)

What is the significance of .ZIP and why is it used here?

A program called PKZIP, created by Phil Katz, has been used to create the files you see on this system with the .ZIP extension. Each of those files may contain within themselves one or more files in a compressed format.

The reasons for ZIPing a file are:

 1) creates a smaller file which saves disk space
 2) the same file, being smaller, takes less time to download
 3) because the file can contain entire groups of files (even directories) inside of a single file it is easier to download one file and get all of the necessary components of a program or system at one time. For example, in the file mentioned above, CRSNOV91.ZIP contains within itself 33 separate DOC files. These separate DOC files adds up to 179240 bytes - which could take nearly 30 minutes to download at 1200 baud.

By compressing all 33 files into one file you are able to download all 33 files at once and the size of the download is now only 80,723 bytes (a savings of nearly 15 minutes of download time at 1200 baud).

What do I do with a ZIP file after I've downloaded it?

To extract the files from a ZIP file you use the companion program to PKZIP called PKUNZIP. An example might be: PKUNZIP CRSNOV92 which will extract all 33 files into the current directory.

What if I get the message "warning don't know how to handle this file"?

That means that the file you are trying to UNZIP was created with a later release of PKZIP. For example, you might be using version 1.10 of PKZIP and PKUNZIP and if you try to extract files from a ZIP file created by version 2.04G of PKZIP then you will get that message. To correct this - you need to download a newer copy of PKZIP and PKUNZIP.

Where do I get PKZIP and PKUNZIP?

The file is available from CRS and is called PKZ204G.EXE. This is a self-extracting file - which means that you download only one file but when you run this file it will extract a number of files from itself (including the PKZIP.EXE and PKUNZIP.EXE files mentioned above).

Introduction to Using Other BBSs

Observing how people use an Electronic Bulletin Board has led me to conclude that many of you spend a fair amount of time floundering around before you get comfortable with its use. Therefore, I'd like to offer some suggestions on how to optimize your time and minimize your phone bill.

BBS COMMANDS

Learn the basic command set. Most BBSs have similar commands (R for Read, B for Bulletins, etc.). Usually you'll find either on-line help (for PCBoard systems, type H and the letter of the command on which you need help - "H R" for help on the Read command), or a user's guide. If you 'capture' this info the first time you use an unfamiliar system, and keep it handy for reference, you'll save considerable time.

BBSs FOR IBM PC AND COMPATIBLES

If you're using an IBM PC, you should probably take the time to get comfortable with the three major BBS systems - RBBS, FIDO, and PCBoard. There are others, but these three make up the majority of IBM PC based boards and are quite similar.

You will find it much more economical to familiarize yourself with these different systems using local boards, than trying to learn them while on a long distance connection. You should not have much difficulty finding these in most cities.

SCREEN GRAPHICS CHARACTERS AND ANSI.SYS

IBM PC screen graphics characters can be used in board menu and other info screens to make the screens more interesting. These characters do not require that ANSI.SYS be installed at your end, but the screen files may use ANSI.SYS commands that will not produce the desired effect at your end unless you have ANSI.SYS installed. If you haven't bothered with ANSI.SYS yet, you may want to soon because its commands are being used more and more commonly.
ANSI.SYS is used by having it loaded when you boot your system. That is done by having the file ANSI.SYS (from your PC/MS-DOS program disk) in your bootup drive's root directory and the line "device=ansi.sys" in your CONFIG.SYS file.

CALLER STYLE

Develop a style for maneuvering about a new board. Most experienced callers will do the following when dialing into a new board:
1. Note any particular requirements in the initial logon message - this is not usually repeated. Some boards require that you leave
a comment to the Sysop (SYStem OPerator) with particular information. Most boards require that you answer a questionnaire.

2. Review the bulletins - particularly if you are having problems.
There's usually a fair amount of information there that the Sysop thinks you ought to know. Usually he or she spent a good deal of time putting these

bulletins together.

3. Read or scan the primary message file - I'll generally read the
first few and last few messages (if it's a large message base), and do a Quickscan of the entire message base, noting any message numbers of particular interest. Doing this will give you a sense of the board's "style" and users. If you're on a PCBoard system, try the "Thread" command if you find a particularly interesting topic - this allows you to go through an entire mini- conference, staying on a single topic, hopefully.

4. Capture (don't print) the download directories. On your first visit, you may not be able to download files, but you will usually be allowed to review what's available.

5. If you decide that a board will be of use to you and plan to dial back in, make sure you've supplied all of the requested information, and leave a comment or message to the Sysop noting your interest/appreciation.

SAVING TIME

To optimize your time (and minimize your long-distance charges) switch to expert mode (type X on PCBoard and RBBS systems). If you get stuck later, simply type X again, and you'll be switched back to novice mode.

Note that many systems (e.g. RBBS, PCBoard) permit you to "stack" commands. For example, at logon, when you are asked to enter your first name, you can often enter your first name, last name, and password, all separated by semicolons or spaces:

ENTER YOUR FIRST NAME: JOHN;DOE;NHOJ

Also, you can often stack requests for downloads, bulletins, etc.
If you're using a 300 or 1200 bps (bits per second) modem, unless you're only calling local boards, a 2400 bps modem (about $75 these days) will quickly pay for itself in reduced long distance charges. Also, a number of boards no longer permit 300 bps access.

LINE NOISE

If you're suffering through lots of line noise - garbled text, numerous errors during uploads and downloads - it'll probably be better to hang up, and dial back in, hoping for a cleaner telephone line. Some of the alternate long distance services have difficulty handling 2400 bps transmission. It may be worthwhile to dial back in at 1200 bps. Also, check with your long distance service; some of them have special dialing sequences for data calls.

DOWNLOADING FILES

When you first logon to most systems you will be asked to specify a download "protocol" (some systems will make you specify this each time you do a download). Your choices are generally one of the following:

1. ASCII - files will be sent as normal text files. Note that this will not allow re-transmission in case of errors, or allow you to receive any "binary" files (executable modules or com pressed files).

2. XMODEM - files are sent as blocks of 128 bytes, with a block sequence number and a checksum. If there is an error in either the block number or checksum, the block will be retransmitted.

3. CRC-XMODEM - this is the same as XMODEM, except that a cyclic redundancy check (CRC) character is used instead of the checksum. This provides greater reliability.

4. YMODEM - this is like CRC-XMODEM, but with longer blocks (up to 1024 bytes) being transmitted. If you have a good telephone connection this will greatly speed up your file transfer. On the other hand, if you have lots of line noise, this will be slower than XMODEM.

5. KERMIT - this is a machine-independent protocol, sometimes used for accessing mainframe computers.

6. ZMODEM - Files are sent in a streaming manner, with longer blocks. ZMODEM is generally the protocol of choice if your software supports it. It's a little slower than -G protocols when used with error correcting modems, but much more robust.

7. NONE - this will cause you to be prompted for the transmission protocol each time you request a download.

You should check the documentation for your communications package to see which of these are supported.

It's considered bad manners to do nothing but download - try to download only a couple of files at a time. Use your remaining time to upload something in return or else to participate in the messages. Remember, you can always dial in the next day and download additional files. Many Sysops recommend that you try to maintain a ratio of at least one upload for every ten downloads.

UPLOADING FILES

Avoid uploading files currently on the board or ones that are not of interest to a particular board. If you've just installed a new printer, why not write up a review of it. If you've had good or bad dealings with a particular mail-order house, a lot of people are interested in reading about it.

TALKING TO THE SYSOP

Most BBSs allow you to page the Sysop (on RBBS and PCBoard, use O for Operator). If the Sysop has authorized paging and is around, he or she will generally be happy to help you with problems, answer questions, etc.

Larger boards may not have the time to monitor your session or to answer your CHAT call. CRS sysops monitor over 180 phone lines, and they cannot respond

to CHAT calls. Try leaving a message to ALL if you are in need of urgent help.

Occasionally, the Sysop may notice that you're having difficulty and enter "chat" mode to offer help. (The Sysop's monitor displays your session, just like your own).

On chat mode - in the first place, remember that there's a real human behind the computer you've dialed in to. One time, I noted a visitor leaving a somewhat hostile comment, and broke into chat mode to discuss it with him. He was immediately apologetic and somewhat flustered at dealing with a person instead of a disembodied keyboard/monitor.

Secondly, spelling and grammar don't really count in chat mode (unless a typo changes the meaning of a sentence). I think it's rather a waste of time to backspace a few words to insert a comma in the right place or fix up a mis-spelling.

CONFERENCING

Many Sysops have established separate conferences as sub-boards of their main board. These may be either public or private. These conferences are intended to provide a special area for messages and files of a particular nature. For example, you may run across conferences dedicated to a particular software package (Turbo Pascal, Framework, Lotus, etc.), or to a topic dear to the Sysop's heart (religion, running a BBS, AI, and so on). Usually, the Sysop will allow you to join these conferences simply by leaving a request.

SHOULD I PAY FOR USING A BBS?

Sometimes a Sysop will request (or require) you to donate money to help fund or expand a particular board. If you are a regular user of the BBS, it may be worthwhile for you to help keep it operational. Most boards are funded out of the Sysop's pocket, and while the original equipment may already be paid for, there are a number of ongoing expenses (telephone service, supplies, repairs, etc.). Additionally, it may be to your advantage to support a board's expansion for higher speed modems, additional disk storage, and the like. Sysops will often try a number of incentives to obtain funding (additional time allotments, access to special files, etc.) - you'll need to evaluate its services against your needs and pocketbook.

Boards like CRS are large commercial services, and subscription is required for access.   The larger services may have their own quirks (for example, you are not required to upload files at CRS), but the basics will remain the same.

High Speed Modems

(REPRINTED from Salt Air BBS - The Home of PCBOARD) - This is a somewhated dated article, as the HST now is a 16.8K modem and the V.32 has been extended to V.32bis (14.4), but it does give a good summary of differences in modems.

We have received numerous messages asking about high speed modems, their capabilities and compatibility between modems from different manufacturers. The following text basically discusses the US Robotics HST 9600 bps modems and the Hayes V-Series 9600 bps modems. It also covers the subject of v.32 modems.

1) The old USR HST had a top transmission speed of 9600 bps. This is before taking into account any kind of MNP compression. Typical throughputs with the old HST ranged from 1150 cps on a compressed file with the modem-compression-DISABLED to 1900 cps on a regular text file with modem-compression-ENABLED.

The HST will only transmit at 9600 bps when connected to another HST but will connect at 300/1200/2400 baud to other standard modems.

2) The new USR HST (termed the 144) is able to transmit data at 14400 bps (again, this is before taking into account MNP compression, etc). Typical throughputs with the new HST will range from about 1500-1700 cps on a compressed file with modem-compression-DISABLED to about 2300-2400 cps on a text file with modem-compression-ENABLED -- this is assuming that you've opened your comm port at 38400 bps.

The HST will only transmit at 14400 bps when connected to another HST but will connect at 300/1200/2400 baud to other standard modems.

3) The Hayes V-Series 9600 modems are similar to the old USR HST described in #1 above. You will typically see throughputs as high as 1900 cps on text files but only about 960 cps on compressed files.

The Hayes V-Series 9600 will only transmit at 9600 bps when connected to another Hayes V-Series 9600 modem but will connect at 300/1200/2400 baud to other standard modems.

4) Hayes has recently begun shipping its V-Series modems with new ROM chips in them giving them v.42 compatibility. This means that the V-Series 9600 modems can now provide an error-corrected session when connected to any regular MNP modems at 2400 bps. This is because v.42 implements MNP levels 1 through 4 (which excludes MNP compression). You will typically see throughputs of about 260-280 cps on a 2400 bps line due to MNP's stripping of the start and stop bits.

5) The v.32 modems (such as those made by US Robotics and GVC) run at 9600 bps and will give you similar throughputs to those described in #1 above (i.e. v.32 will give you slower transmission speeds than will the new HST's running at 14400 described in #2). However, the advantages of v.32 are that it provides you with better "interactive response times" (such as when typing) and that because v.32 is a CCITT "standard" they will connect at 9600 bps to modems made by OTHER manufacturers. By "other" I mean that you can connect US

Robotics v.32's to MultiTech v.32's to any other v.32's. The v.32 standard appears to be one that remain for some time to come .. so purchasing a v.32 modem may be a better investment if you are concerned about future compatibility.

6) The USR Dual Standard is BOTH a v.32 and an HST modem. When it is in the "HST mode" everything said in #2 above (about the new 144 HST's) is true. When it is in "v.32 mode" then every thing said in #5 (about v.32 modems) is true. In other words in v.32 mode you will not get the full speed advantage of the Dual Standard for file transfers. However, one BIG advantage to the Dual Standard is that it is compatible not only with the v.32 standard but with all of the existing HST modems as well. This may or may not be an advantage for you depending on which modems you frequently dial into or which modems dial into you.

Why are my file transfers slow?

From Salt Air BBS - The Home of PCBOARD

The above question is one that just doesn't seem to want to go away. It is most often asked by users who have just recently purchased a high speed modem but even the veterans with high speed modems sometimes ask the same question. Let's look at a few possible reasons:

Line Noise at Connect Time

If line noise occurs during the connection process where your modem and the host modem perform their handshaking sequence looking for common ground then it is very likely that the two modems will agree to a SLOWER speed to avoid having problems during the remainder of the connection.

For instance, we very commonly have users with US Robotics HST or HST Dual Standard modems complain that their modems are capable of 1700 cps but they are seeing only 1400 cps or maybe 1150 cps or even lower and they ask why.

Let me explain: the HST modem has real BPS rates of 14400, 12000 and 9600. With the effects of MNP or v.42 (no compression here) you can figure about a 20% speed increase making the CPS rates 1700, 1400 and 1150 respectively.

That makes it very obvious then that during the connection phase the modems agreed to only 12000 or 9600 bps instead of the full rated speed of 14400 bps. In fact, if line noise occurs during the call the modems may very well decide to shift down at that time as well. If 9600 bps is noisy your modem may shift down even further to 7200 or 4800 bps.

For the USR HST user you can, immediately after logging off, type ATI6 and your modem will tell you what your connect speed was which may help you determine if the slow down was the speed of the connection.

Other modems have similar drop down capabilities.

Line Noise During the File Transfer

For years people used to state that 2400 bps was as fast as DIAL UP phone lines could handle and that we would never go beyond that rate due to the low bandwidth and high noise levels of telephone lines. Then along comes people like US Robotics and Hayes and many others who make high speed modems practical even on dial up lines.
Well, line noise is NOT a thing of the past, lost and forgotten. It
is still with us. These new modems are not magic either. They manage to HIDE the line noise and in some cases are able to filter it out or even through special encoding cancel some of the line noise. But it is still there.

When line noise occurs during a file transfer between two modems which have established an error correction session the only TANGIBLE EVIDENCE of this line noise may very well be SLOW FILE TRANSFERS and nothing else.

The USR HST modem has a light on the front panel labelled ARQ. Depending on which modem may have to recover from the line noise by re-sending its data you may see the ARQ light flash perhaps randomly, sometimes very quickly to indicate that it is having to retransmit the data. Most modems give no indication at all that extra work is being required of the modem. Some modems eventually give up and just drop the carrier completely.

Like the first example above the HST's ATI6 report (after hanging up) can give you information as to how many times packets of data had to be retransmitted which may give you some clue as to how noisy the line may have been.

Inability to Compress ZIP Files

If you find that downloading ASCII files produces OUTSTANDING file transfers but that downloading ZIP files cuts file transfer CPS rates 25% or more off of your expected throughput then very likely you have turned on what is called "data compression". If you've ever tried to use PKZIP to zip a .ZIP file you usually find that PKZIP will decide to just "store" the file rather than "shrink" or "implode" the file. Why? Because in its attempt to shrink the file it actually causes the file to GROW in size! Quite the opposite of the desired effect.

The same exact thing happens when you try to use your modem's built-in data compression capability on a file that is already compressed. The modem's compression algorithm actually causes the data to GROW (i.e. it sends more bytes out over the phone line than are coming into the modem) which slows the file transfer.

PCBoard's modem configuration program, called PCBModem, is generally set up to turn data compression ON by default! Why? You ask... because it is generally believed that it should be up to the CALLER to decide if he wants to take advantage of the data compression capabilities of his modem. If PCBModem were to turn data compression OFF then *nobody* calling your system would get data compression. Leaving it enabled allows the caller to make the choice.

However, many sysops like to use the same high speed modem that they set up for use with PCBoard to dial out to other systems. What they are forgetting is that PCBModem has turned data compression ON and they go right ahead and try to download a ZIP file.
Our recommendation is this: Leave data compression turned on when the BBS is up and running but turn data compression off when dialing out (assuming you are planning to download ZIP files).

One "high tech" solution to the problem is to upgrade your modem to the v.42bis standard. In theory, like PKZIP, v.42bis data compression will detect when it is making the data grow and turn itself off so that the data is sent out un-compressed (similar to PKZIP's simple "storing" of zip files). Again, in theory, that means that you can leave data compression turned on all the time and never have to worry about slow transfers of pre- compressed files.

Flow Control Problems

For high speed file transfers to work you generally want to open your port speed (the speed that your PC talks to your Modem) at a rate that is faster than the line speed (the speed that your Modem talks to the other Modem).

This is somewhat akin to squeezing a bottle to make the liquid come out faster than if you just poured it out directly. If the data is sent to the modem at 9600 bps then the fastest over-the-phone-line rate will be 9600 bps. By sending data to the modem faster than the over-the-line rate you give the modem time to work on packetizing the data (this is where the 20% increase in speed comes from) and possibly even compressing the data (if compression is turned on and the data is not already compressed).

The only trouble is, if you are sending data to the modem FASTER than it can send it across the line then there are times when the PC simply must stop sending and wait for the modem to catch up. That is when a traffic light called CTS and RTS, must enter the picture to control the flow of the data. To indicate when the modem's buffer is sufficiently empty to receive data and to indicate when it is full and the data flow must be stopped.

If your modem is not configured correctly for flow control, or if your software is not configured correctly to use flow control, or if your asynch board does not support flow control, or if your modem's cable does not have the CTS and RTS lines wired properly ... all of these possibilities can result in flow con trol errors which will cause data to be lost.

When data is lost due to flow control problems there is only one solution and that is to send the data again! This results in slowing down your file transfer. Zmodem will give a ZRPOS error (which means resend the last block of data) while other protocols will simple indicate an error and expect a retransmission of the data. Full flow protocols such as Ymodem/G and 1K-Xmodem/G have no built-in facility to request that data be re-sent and there fore must CANCEL the entire file transfer if such a loss of data occurs.
Similar to the modem's buffer and its traffic light to control the
flow of data, your PC, and the SOFTWARE it is using, will set up its own local buffer to receive data from the modem. If you are multitasking on your PC you may be asking the PC to perform other tasks besides attending to the data coming in from the modem. If the modem's buffer (or even the buffer on your asynch card) gets too full and is not emptied quickly enough the data can be lost. Your software should be configured to use flow control to tell the modem when to stop sending data to it. Anoth er course of action is to utilize the National Semi-conductor NS16550AFN uart chip in your asynch port which has a 16-byte buffer on it (that may sound small but it is 16 TIMES the size of the buffer used by all uart chips before it).

All things must come together to work in harmony, your modem, your software, your asynch card and cable. And this is only on one side of the connection. The same requirements are necessary on the other side of the telephone line to ensure fast and reliable transmission of data.

File Transfer Protocols

One more area that people need to learn about is choosing the right protocol for the file transfer. Too often you'll find people using Xmodem to download files when their modems have established a high speed connection.

What's wrong with Xmodem, you ask? Xmodem sends packets of 128 bytes of data and after each and every packet is sent it waits for the receiver to tell if it

the packet was good or bad. This is fine at slower speeds because if it takes 1/10th of a second to receive this acknowledgement at 1200 bps then at most you've lost the ability to send 12 characters out the port. At 2400 bps that same 1/10th second delay means a slow down of 24 characters. And at 9600 cps the delay means 96 characters. And a 1/10th of a second delay is being OPTIMISTIC here because if you are dialing long distance or going over a satellite or using a packet-switch network the delays might actually be measured in full seconds.

Ymodem sends packets of 1024 bytes. This means that the same delay that Xmodem experiences occurs only 1/8th as often because it sends 8 times as much data before waiting for an acknowledge ment. Okay, that means that Ymodem will give you faster file transfers than Xmodem. But it still is not perfect.

Zmodem, on the other hand, does not wait for an acknowledgement but instead continually sends data until the receiving end tells it to back up to a previous location (ZRPOS) in the data stream and resend that information. Since there are no built-in delays every X-bytes of data you'll find Zmodem gives you excellent file transfer rates.

Ymodem/G, having less over-head than Zmodem because it ASSUMES that
your modem is configured correctly and that there will be no data loss, is able to send the data even faster than Zmodem. The one caveat: if an error *does* occur then the file transfer will be aborted.

In summary

With the above arsenal of information, about line noise, about data compression, about flow control and about file transfer protocols you should have enough information to guide you to the real cause of the slow down in file trans fers. There is no "one set answer" to the question. But taken together the above should help you determine which answer, or answers, may apply to your specific situation.

One final point: Make sure the software you use is top-notch. PCBoard for the host connection has been tested to give very fast and very reliable transfers all the way up to 115K bps. On the caller's side programs such as Qmodem, Telix and Procomm are all worthy of evaluation.

(note: the US Robotics HST was mentioned in the above, not to pick
on HST for line noise, but simply because a very large majority of PCBoard sysops use HST's and can identify with the examples given)

HIGH SPEED MODEM SETTINGS

We get many requests for proper settings for high speed modems - The new modems are complex, and most often, the factory settings are not proper for optimal communications.

Here's what we use - Those running PCBoard systems can use these settings directly. Those running other BBS systems may have to modify these settings (Sorry, we do not support other BBS systems).
Those communicating with BBS systems should set these up once, write them to the modems NRAM with an AT&W command and use ATH0 as an initialization string in their communications program.

Modem Selected: USRobotics HST (9600 model)
Set Switches - 1 2 3 4 5 6 7 8 9 0
Rear   - U U D D D U U D D U
NRAM Settings
ATC1F1M0Q0V1X4S2=255&B1
AT&A1&G0&H1&I0&M4&N0
AT&P0&R2&S1&Y1S7=60&W

Modem Selected: Hayes V-Series with V.42
Comments: None
NRAM Settings:
AT&L0&G0&J0&P0Y0N1E0&K3&Q5
ATM0L2Q0V1X4W1&C1&D2&S0&X0
ATS2=255S0=0S36=5S37=0S38=2&W

Modem Selected: USRobotics HST (14400 model)
Set Switches - 1 2 3 4 5 6 7 8 9 0
Rear -   U U D D D U U D D U
NRAM Settings:
ATC1F1M0Q0V1X4S2=255S15=8&B1
AT&A1&G0&H1&I0&M4&N0&P0
AT&R2&S1&Y1S7=60S0=0&W

Modem Selected: USRobotics Dual Standard HST
Set Switches - 1 2 3 4 5 6 7 8 9 0
Rear -   U U D D D U U D D U
NRAM Settings:
ATC1F1M0Q0V1X4S2=255B0S13=1&B1
AT&A1&G0&H1&I0&M4&N0&P0&C1
AT&R2&S1&Y1S7=60S0=0&D2&W

Modem Selected: ATI2400ETC Modem
NRAM Settings:
ATM0N1Q0V1W1Y0&C1&D2&G0&I0&J0&B0
AT&K3&L0&P0&Q5&R0&S1&T4&X0&Y1
ATS2=255S0=0&E1X4

Modem Selected: Telebit Trailblazer Plus
NRAM Settings:
ATE0F1M0Q0V1X1   S2=255
S52=0S53=3S54=1S58=2S59=4S66=1S68=2S95=2S110=0

Modem Selected: Practical Peripherals PM2400
NRAM Settings:
ATB0E1L2M0Q0V1X4Y0/C1/D2/G0/J0/L0P0/Q0/R0/S1/X0

In all cases, if a register is not shown, the default is assumed. Setting up high speed modems is not difficult, but the settings are sometimes tricky. These settings have worked here at CRS.

PCBOARD - REFERENCE

(A)bandon Conference

Subcommands NONE

Description: Places you back in the main section of the board. If you are not in a conference, the main menu is re-displayed along with the main command prompt. You may also use the (J 0) command and get the same effect.

(B)ulletin Listings

Subcommands (#) (A) (D) (N) (R) (S) (NS)

 (#) Bulletin number to view.
 (A) Displays all of the bulletins.
 (D) Immediately goes into download mode to send the bulletin(s). See examples below.
 (N) Displays a bulletin only if it has been updated since you were last on.
 (R) Re-displays the Bulletin Menu. (S) Scans the bulletins for text. (NS) Displays file in   non-stop mode.

Description: Allows viewing Bulletins available.

Selecting Bulletins Numbers can be stacked such as (1 2 3) or (1;2;3).

Typing (A) will select all of the bulletins for display.

Combining (A) with (N) would display all new bulletins while combining (A) with (S) would search all bulletins and display only those bulletins containing the search text entered.

Reading Bulletins Typing (NS) selects Non-stop mode which avoid page breaks in the display.

Typing (D) puts the system immediately into download mode to send the file using the default protocol. (D) option must be specified as the last variable of command. Imagine using the proper commands for viewing and then stack a (D) at the end.

Examples:
 1 2 3 D Displays bulletins 1, 2 and 3
 2 N D Displays bulletin 2 if, and only if, it is new.
 B A N D Displays all new bulletins.
 B A N D D Using a batch protocol sends all new bulletins.
 1 2 D - Download Bulletins 1 and 2.

(C)omment to Sysop/System Operator

Subcommands NONE

Description: Allows leaving a private message or comment to the system operator.

See (E)nter a Message for information on how to actually enter and save your comment text.

(CHAT) or (NODE) Node CHAT

Subcommands (#) (G) (A) (U)

> (#) Any other active Node Number.
> (G) Places you in Group CHAT with others.
> (A) Flags your Node as being available for CHAT (default).
> (U) Flags your Node as being Unavailable for CHAT.

Description: Allows interactive keyboard conversation with one or more other system nodes. To CHAT with only one other node, enter that node's number. To CHAT with a group of nodes, enter (G). If a Node is unavailable for CHAT, you will be advised of such. If the Node requested is available, they will be informed of your request. When entering (G)roup CHAT, only other Nodes which are already in Group CHAT will be advised that you have joined them.

When in Node CHAT, the following subcommands are available:

(Q), (E), (U), (H)

> (Q) Quits Node CHAT.
> (E) Also quits Node CHAT.
> (U) Displays the status of the other Nodes.
> (H) Gives a quick display of these subcommands.

When conversing in Node CHAT, there can be, and usually will be, delays between when you enter your text to the other person, and the time it takes them to respond. Since text is only sent to the other Node when an (Enter) key or word-wrap occurs, there can be time periods of several seconds between text coming back to your screen. Please WAIT until it is your turn to type! End your text with a (/ga) or (/o) to indicate it is the other person's turn to type D and then WAIT!

(D)ownload a File

Subcommands (filename 1) (filename 2) (etc) (protocol) (gb or bye)

> (filename) any valid DOS filename may be used and more than one filename may be entered if you choose to use a BATCH protocol for the file transfer
>
> (protocol) is a letter from A-Z or 1-9 of the protocol desired based on the protocols available. For a listing of protocols, see the (T) command.
>
> (gb) Either (gb) or (bye) may be entered on the (bye) command line to indicate that you want the system to hang up after it finishes the file transfer. You will have ten seconds to press CTRL-K to abort before the board hangs up.

Description: Allows transferring a file from the system being called to your machine.

There can be up to 26 different types of protocols available. If you have not previously set a default protocol for the system you are calling, you will be asked for the protocol type each time you request a download.

Ascii protocol transfers are only available on non-binary text files. Filenames which have extensions of .EXE, .ARC, .COM, .WKS, etc. can not be downloaded using Ascii protocol.

Selecting Files; Filenames do not need to be typed in completely in order for the system to locate the desired file. A default filename extension is usually provided by the Sysop such as (.ZIP) so that if you request a file called TEST it will first search to see if a file called TEST.ZIP can be located and if not it will search for TEST and send which ever file it finds.

In some cases this default extension can make it difficult to download a desired file. For instance, if both TEST and TEST.ZIP exist on the system then typing (D TEST) will always result in downloading TEST.ZIP. To download the file called TEST in this instance you would need to type TEST followed by a period with no extension like this:

(D TEST.)

You may also locate files for download by using the * and ? wildcard characters - the same as those used by DOS to specify files. See the examples below.

Batch Downloads Some protocols allow you to download more than one file at a time. Examples of this are the Ymodem and Ymodem/G protocols. Downloading more than one file at a time requires that you select a batch protocol on both your end and the host end of the connection. The system will continue to ask for filenames until it reaches it's batch limit, or you press enter at the filespec prompt.

Examples D TEST - Downloads TEST using default protocol. D TEST X - Downloads

TEST using Xmodem protocol. D TEST1 TEST2 Y - Downloads TEST1 & TEST2 using Ymodem. D TEST? G - Downloads TEST1 & TEST2 using Ymodem/G. D TEST*.* - Downloads any file starting with TEST.

(E)nter a Message

Subcommands NONE

Description: Allows leaving a message to another person(s) for them to read at a later date.

Full Screen Editor: After selecting (E), you will be asked if you want to use the Full Screen Editor. To use the Full Screen Editor your software must be capable of interpreting ANSI cursor position commands. The default answer to the question will be NO if the system did not detect ANSI on your end or if you are in novice mode.

Addressing the Message: You will be prompted to enter the name of the person the message is being addressed to. If the system operator has enabled message name verification on his system, the name entered will be checked against all names in the user's file to insure a proper match. If the user's name is not found, or the user is not registered in the same conference or board area where the message is being left, you will be advised of such to avoid leaving a message to a non-existent individual. However, a SOUNDEX search to locate a name that sounds like what you entered can be performed or you can override the verification and answer (C) to continue and use the name that you have entered which might be done to facilitate leaving a message to a group of people. By not entering a username at the "To:" prompt, it will automatically address the message to (ALL).

Brackets will be displayed either above the line or surrounding the area on the screen in which you are allowed to enter text.

Entering a Subject: Next, up to a 25 character subject must be entered. If no subject is entered you will be returned to the main menu and command line prompt.

Message Security: A security prompt will next appear looking something like this:

Security: (G)roup, (R)eceiver, (S)ender, (H)elp, (N)one
    (N)one means that the message will be open for all to read.
    (G)roup allows assigning a password to the message which only other callers who know the common password will be allowed to read the message.
    (R)eceiver makes the message private to all except you and the person to whom it is addressed.
    (S)ender allows you to assign a password to the message so that only you can kill it later. This prevents the other person to whom the message is addressed from killing it.

Note that you can NOT assign (R)eceiver protection to a message which has been addressed to ALL.

All Messages Private? A message base can be set up such that all messages are initially flagged as private. In this case the above security prompt is skipped and the message will be saved using (R)eceiver security so that only you and the person to whom the message is addressed can read it.

Entering a Message: After completing the above steps, you can enter your text. Each line you enter will be preceded by it's line number. Up to 72 characters per line is allowed. Typing beyond the 72 character limit will cause your text to automatically "word-wrap" down to the next line.

Exiting the Editor: There are two modes in which text can be entered which you will have already chosen by the time you get to the editor. One of them is the Line Editor mode where only one line at a time can be entered or edited and the other is Full Screen Editor mode in which the entire screen is used as the workspace for message entry.

To exit the Line Editor, press (Enter) alone on a blank line. To exit the Full Screen Editor, press (ESC). After you exit the Line Editor or the Full Screen Editor you will be prompted for message completion subcommands as described below:

Message Completion Subcommands

 (A)bort Abandons/cancels your message entry.
 (C)ontinue Continue using the Line Editor.
 (D)elete Delete a line of text from the message.
 (E)dit Allows you to edit a line of text.
 (F)ull Continue using the Full Screen Editor.
 (H)elp Displays Help file.
 (I)nsert Insert a line of text above another.
 (L)ist Relist your text entry so far.
 (Q)uote Quote a portion of the replied-to message.
 (S)ave Writes the message to disk.
 (U)pload Upload ASCII text into message w/o echo.
 (SC) Save the same message to another individual.
 (SK) Save message, kill replied-to message.
 (SN) Save message, skip redisplay of replied-to message.

Note, The format to (E)dit a line of text is:

(old text;new text)

where the (old text) is the text you wish to replace, followed by a (;) followed by the (new text). The old text search is case sensitive - so capital letters must match exactly. If your new text causes that line to exceed 72 characters, the characters beyond 72 will be truncated from the line.

When uploading Ascii text to the message base, insure your text lines are 72 characters or less in length.

Note, while in the full screen editor you can press CTRL-Z to get help on the editing keys available in the full screen editor.

(F)ile Directories

Subcommands (#) (D) (L) (N) (R) (U) (V) (Z) (NS)

 (#) Directory number to view.

(D) Download a file.
(L) Locate Files by Name (wildcarding OK).
(N) Locate Files by Date Scan.
(R) Re-lists the directory menu.
(U) Display Upload Directory.
(V) View contents of a compressed file.
(Z) Zippy DIR Scan by Text Search.
(NS) Displays request in non-stop mode.

Description: This command allows you to view a listing of the files available. After selecting (F), a listing of the file directories available will be shown - usually grouped by category. To view one or more of the directory listing files, enter the number to view. Multiple listings can be viewed at the same time by entering several numbers at the same time.

e.g. (F) (1) (2) (10)

By adding the (NS) non-stop parameter at the end of your request, the entire listing will be displayed without screen pauses every 23 lines.

You can use the (V)iew subcommand to view the files included in a compressed file listed in one of the directories. If you elect to (D)ownload the file just (V)iewed, the filename of the Viewed file will automatically be carried forward as the download filename request unless over-ridden by you.

Additionally, you can request a download of a specific file from the (F)ile Subcommand prompt to avoid having to return to the main menu.

Also, you can request a Download, Upload, or the Viewing of any file at all "More?" prompts while scanning a file directory.

(FLAG) Files for Download

Subcommands (filename 1) (filename 2) (filename 3) (etc)

(filename) is the name of the file to be downloaded. Multiple names can be stacked on the same line and wildcards may be used in the name.

Description: The FLAG command is used to flag files or groups of files for later download. For instance, you may be busy looking at a list of download files and find some that you want to download but don't wish to download them at that very moment. Rather than having to write down the name or try to remember it later you can simply tell the system to flag the file and remember it for you.

To download the files that are flagged you would then issue a (D)ownload command at which point the system will ask you if you want to download the files that were flagged. Answering NO will cause the system to forget the files that were flagged.

Examples * FLAG test1

Functioning the same as the download command, this command will first check to see if TEST1. exists where is the default extension for the system you are on.

For example, it will see if TEST.ZIP exists and if not it will attempt to flag TEST instead.

* FLAG file1 file2 file3

Flags all three files for download.

* FLAG file*.txt

Flags any files matching file*.txt for later download.

(G)oodbye

Subcommands NONE

Description: Disconnects you from the host system. This command should always be used to log off of the system to insure proper updating of all message pointers, etc. NEVER just drop carrier by issuing an (Alt-H) (or equivalent) command to your communication's software without first entering the (G) command!

Some systems also ask that you complete a (S)cript Questionnaire at the time of logoff.

(H)elp

Subcommands (A-Z) (CHAT) (DOOR)

      (A-Z) is any letter of the alphabet.
      (CHAT) or (NODE) displays Node CHAT help file.
      (DOOR) or (OPEN) displays DOOR help file.

Description: Displays the appropriate help file which corresponds with the command you need help with. The software usually indicates that help is available by displaying a (H) option at the command line you are at. Additionally, the code will also recognize a (?) in place of the letter (H) when requesting help. If no help is available it will simply redisplay the command line prompt.

(I)nitial Welcome

Subcommands NONE

Description: Redisplays the initial welcome screen, along with the version number of PCBoard which the system is running.

(J)oin a Conference

Subcommands (#) or (Name)

      (#) Valid conference number from 0 to the highest conference number on the system. (Name) Name of any existing conference.

Description: Allows joining an active conference on the system. The conference name or number to be joined can be included with the (J) command on the same line if desired. If you are not registered in the conference requested, you will be advised of such and returned to the main command line prompt.

The entering of a "J 0" will act as if you did an (A)bandon command
and return you to the main board message base area.

Examples J 1 - to join conference #1 J SYSOPS - to join the Sysops conference

(K)ill a Message

Subcommands (#)

(#) Valid active message number

Description: Allows marking a message as inactive or killed so that others can no longer read it. Additionally, when the system operator packs the message base, the message will be purged from the system.

Entry of an invalid message number returns you to the main command line.

(L)ocate Files by Name

Subcommands (filename/wildcard) (A) (D) (N) (U) (NS)

(filename/wildcard) Filename to search for.
(A) Scans all available file directories.
(D) Download all files found.
(N) Combine the search with a date scan.
(S) With (N) indicates new files since the last date you scanned.
(U) Scans only the available upload file directory.
(NS) Displays listing in non-stop mode.

Description: Allows you to search the file directory listings for filenames which match those you are looking for. You can also use valid DOS wildcards in your filename request if you are unsure of the exact filename you are looking for.

Examples:
L TEST A - Search all directories for a file called TEST.
L TEST*.* A - Search all directories for any file beginning with TEST.
L TEST A D - Find TEST or TEST.(ext) and download it.
L TEST*.* U - Find TEST*.* in the UPLOAD directory.
L TEST*.* N A - Find only new files matching TEST*.*.

Other examples of wildcards: TEST? TEST?.ZIP ??TEST.*

Note, If the filename is less than 8 characters long and no wildcards have been used it automatically appends "*.*" to the name (i.e. searching for TEST turns into TEST*.*).

If an invalid file is requested it will automatically switch to a (Z)ippy search command

(LANG) Language Change

Subcommands (#)

(#) Language number to change to.

Description: Allows you to change from the current default language to a new language of your choice. If the system you are calling does not support language changes, you are returned to the main command line prompt.

(M)ode

Subcommands NONE

Description: Switches your screen display mode between ANSI graphics and non-graphics mode. If you toggle ANSI Graphics on, you must be using a communication's program which supports standard ANSI (Esc) code graphics. If you select graphics and get a lot of symbols such as "[01;49m" on your screen mixed in with the normal text display, your software does not support ANSI graphics and you should toggle Graphics off by re-entering the (M) command.

Note, The system will automatically detect if you have ANSI capability and your system supports the CURSOR POSITION REPORT sequence. However, you still must select whether or not you want the color graphics sent to you.

(N)ew Files by Date

Subcommands (date) (A) (D) (S) (U) (NS)

        (date) Valid date in mmddyy format (no spaces!).
        (A) Scans all file directory listings.
        (D) Download all new files found.
        (S) Scan for new files since your last directory scan.
        (U) Scans only upload file directory listings.
        (NS) Displays output in non-stop mode.

Description: Displays file listings based on a date scan of when the file was placed on the system. Matching files are those found which have a date equal to or later than that requested.

Entering an (S) indicates that the last DATE scan or the DATE of the most recent files found on your last scan should be used as the scan date.

Entering a (D) on the command line will cause all files found to be queued up for download on your next (D)ownload command.
Examples
        N A S - Scan for all new files since last scan.
        N U S - Scan for new files in the upload directory.
        N U 1 D S - Scan for and download new files in directory 1.

(NEWS) File - Redisplay

Subcommands None

Description: Redisplays the NEWS file for the message base you are in.

(O)perator Page (NOT AVAILABLE ON CRS)

Subcommands NONE

Description: Allows paging of the system operator to come
to the host keyboard and enter an inter-active typing mode with you. If the system operator is not available, a message will be displayed and you will be returned to the main menu. You can abort the page in advance of the 30 second timeout period if desired by pressing (Ctrl-K).

(OPEN) a (DOOR)

Subcommands (#) or (Name)

   (#) Number of the DOOR to open
   (Name) Name of the DOOR to open

Description: A DOOR is an extension to the system. A part of the system which is not built directly into the PCBoard Bulletin Board Software.

(P)age Length

Subcommands (#)

   (#) Valid number between 0 and 50.

Description: Allows setting the number of display lines you want sent to you before the displaying a "(H)elp, More?" prompt. If you select 0 as your page length, you will never pause during any screen display. The default value for this command is 23 lines per page.

(Q)uick Message Scan

Subcommands (#) (F) (Y) (S) (NS) (+) (-) (TS)

   (#) Any number from 1 to 9999999.
   (F) Scans for message headers from you.
   (Y) Scans for message headers to you.
   (S) Scans for headers above those you have already read.
   (NS) Displays text in non-stop mode.
   (+) or (-) appended to the end of a numbers forces the display to be shown
   in forward or reverse order respectively. (TS) Search message headers for

specific text.
(USER) Selects only those message to or from a specified user.

Description: Allows viewing a quick description of the message header information available. The display includes the message number, the message reference number (if any), who the message is to, who the message is from, and the subject matter of the message.

Due to screen width constraints, some fields are shortened for display purposes. Messages which are protected from reading will not be displayed to you.

(R)ead Messages

Subcommands
        (#) Message number between 1 and 9999999.
        (F) Selects only messages from you. (Y) Selects only messages for you.
        (YA) Selects only messages for you or addressed to "ALL".
        (S) Selects messages above the last one you have read.
        (A) Read messages in all (SELECT)ed conferences.
        (ALL) Read messages in all conferences in which you are registered.
        (L) Read in backwards order from the last message to the first.
        (C) Capture the messages to a file for download.   (D) Implies a (C)apture and immediately downloads.
        (Z) Implies a (D)ownload but compresses the file before.
        (G) Goodbye - Logoff. (J) Join another conference.
        (Q) Display only message headers (see (Q)uick message scan function).
        (NS) Displays text in non-stop mode.
        (RM) Re-read previously "memorized" message.
        (RM+) Re-read "memorized" message plus forward read.
        (RM-) Re-read "memorized" message plus backwards read.
        (+) Alone reads messages forward from present position or when appended to a number causes forward reading from that message number.
        (-) Alone reads messages backwards from present position or when appended to a number causes backward reading from that message number.
        (TS) Searches messages for the specified search criteria.
        (SET) Sets the number of the last message read.
        (EDIT) Puts the current message into the editor for re-editing.
        (NEXT) Reads next higher message number available.
        (PREV) Reads next lower message number available.
        (JUMP) Skips to the next conference on a (R)ead (A)ll command.
        (SKIP) Sets the last message read pointer, skips to next conference.
        (USER) Selects only those message to or from the specified user.
        (SELECT) Selects the current conference for future scans.
        (DESELECT) Deselects the current conference for future scans.

Description: Allows reading messages left on the system. All public messages will be displayed, along with private messages left either by you or for you. If a message has more display lines than what your (P)age Length is set for, a "(H)elp, More?" prompt will appear asking for your input. Multiple message numbers to read can be entered on the same command line if desired. Additionally, combinations of the above commands can be entered on the same

command line if desired.

Examples:
      * R S
The above command will read all mail that is new since you last read mail in this message base.

* R Y S

The above command will read all mail that is addressed to you that is new since you last read mail in this message base.

* R 1+

The above command will read all messages from #1 to the end.

* R 1 5 10 20

The above command will read messages 1, 5, 10 and 20 and then stop.

* R L

The above command will read all mail in reverse order from beginning
to end.

* TS A 1+
PCBoard & LANtastic

The above commands will search through every available message in ALL conference areas you are set to scan for any message that has both the word "PCBoard" AND the word "LANtastic" in it.

* TS A 1+
PCBoard & (LANtastic | DESQview)

The above commands will search through every available message in ALL conferences areas you are set to scan for any message that has both the word "PCBoard" AND either the word "LANtastic" OR the word
"DESQview" in it.

The parenthesis tell PCBoard how you want to group your criteria if you have a complex search request such as the one above. It will allow for nearly any number of parens and any combination of AND's (using the "&" character) and OR's (ing the "|" character).

* TS A 1+ USER JOHN DOE
PCBoard & Help

The above command (similar to examples above) adds the keyword USER to the command line specifying that only messages that are either TO or FROM John Doe should be displayed if they are found to have both the words PCBoard and Help in them.

* R A Z

The above command will capture all messages in all conferences since the last message read, compress the capture file and then begin the download procedure.

* R SET 100

Sets the last message read for that conference to 100.

End of Message Command

Commands Available to All

(Enter) Continues on with message read function.
(N) Stop reading messages.
(NS) Continue reading messages in non-stop format.
(T) Thread read (forward) (or T+).
(T-) Thread read (backwards).
(#) A specific message number between 1 and 9999999.
(+) Alone reads messages forward from present position or when appended to a number causes forward reading from that message number.
(-) Alone reads messages backwards from present position or when appended to a number causes backward reading from that message number.
(F) Selects only messages left by you.
(Y) Selects only messages for you.
(YA) Selects only messages for you or addressed to "ALL".
(S) Selects messages above the last one you have read.
(A) Read messages in all (SELECT)ed conferences.
(ALL) Read messages in all conferences in which you are registered.
(L) Read in backwards order from the last message to the first.
(C) Capture the messages to a file for download.
(D) Implies a (C)apture and immediately downloads.
(Z) Implies a (D)ownload but compresses the file before.
(G) Goodbye. (J) Join another conference.
(Q) Display only message headers (quick scan mode).
(/) Redisplays the current message.
(RE) Enter a reply to the message just read.
(RR) Read the referenced message.
(M) Memorize that message number for later return.
(RM) Return to a previously (M)emorized message number.
(TS) Searches messages for specified search criteria.
(SET) Sets the number of the last message read.
(NEXT) Reads next higher message number available.
(PREV) Reads next lower message number available.
(USER) Search for messages to/from a specific user.

Additional Commands Available if Message is To/From You

(K) Kill the message.
(E) Edit the "To:" and "Subj:" of the message header and 'Echo' flag if applicable.

(REPLY) To Messages

Subcommands (#)

(#) A message number between 1 and 9999999.

Description: Allows replying directly to another message from the main command line. Message numbers can be stacked together if desired.

(RM) Read Marked Message

Subcommands None

While there are no subcommands the RM function can take any of three separate forms:
RM Read the marked message and stop.
RM+ Read the marked message then continue going forward.
RM- Read the marked message then continue going backward.

Description: When reading messages you can use the (M)ark Message command to tell the system to remember that number for you so that you can easily go back to it. To return to that Marked Message you simply issue one of the above three RM commands.

Tips: To redisplay and possibly capture the message you are currently reading you could issue a command such as this:
M RM NS

It first marks the message you are reading, then it re-reads that message in NON-STOP mode. Another form of the same thing if you wanted to re-read that message and then keep going would be:

M RM+

Note, You must be in the conference where you marked the message in order for the system to properly locate it.

(S)cript Questionnaire - Function Help

Subcommands NONE

Description: A script questionnaire is a set of questions that the system operator has set up where the answers that you provide will be recorded in a file for later analysis or processing.

If no questionnaires have been defined, you will be told such and returned to the main command line. If scripts are present, you will be displayed a menu of them, including a number of the choices available. To complete a script, enter the number indicated.

After selecting a valid number, you will be displayed a brief description of the

what the questionnaire is for and asked whether or not you wish to continue. If you indicate (Y)es, the script will begin execution. During execution, you will be displayed a prompt of one or more lines which will ask you a question, followed by an input field in which you can enter your response. You are limited to a one line response for each question asked. Responses can not be longer than the brackets shown above the input line. Attempting to exceed the input length will cause the host to send you a BEEP and will pause awaiting either the shortening of your response or the pressing of your (Enter) key.

(SELECT) Conferences to Scan

Subcommands (S) (D) (#) (#-#)

    (S) Selects ALL conferences.
    (D) Deselects ALL conferences.
    (#) Toggles a specific conference on or off.
    (#-#) Toggles a range of conferences on or off.

Description: The SELECT function is used to tell the system which conferences you are interested in (or not interested in). It affects the scanning of conferences when reading or searching for mail.

The command can also be used to reset the Last Message Read pointers in each of the conferences selected.

Examples:

* SELECT S

The above command would select ALL conferences to be scanned or read. (Not recommended for CRS. This can take up to an hour to execute).

* SELECT 1

If conference #1 was already selected then it is turned off. If it was not already selected then it will be turned on and you will be prompted for a new Last Message Read number for that conference.

* SELECT D 1-3 6

The above command starts out by deselecting all conferences after which it reselects conferences 1 through 3 followed by 6. It will then prompt the caller for any last message read changes in each of the newly selected conferences.

(T)ransfer Protocol - Function Help

Subcommands (A-Z)

    (A-Z) is a valid protocol defined to that system

Description: Allows setting of a default transfer protocol. The choices of protocols

available will vary from system to system based on the protocols which the system operator has enabled. A default of (N)one can also be entered, in which case you will be asked to specify the protocol type each time you begin either an upload or download from the system. If you specify a value here, it will be used as the default each time you request a file transfer. However, this default can be over-ridden at the time of a file transfer request by including the protocol desired as a separate entry on the same line as the filename is entered. (i.e. (filename) (F) would over-ride any default here as specifying 1K-Xmodem Full-Flow protocol.)

(TEST) Files

Subcommands (filename)

> (filename) Name of the file you want to test. Like the download function it will append the default extension to the filename if one is not specified.

Description: Allows you to test a file's integrity prior to downloading the file. The system operator must specify the kinds of tests that will be performed if this option is available. It could, for example, perform a CRC check on the file as well as scan for a virus and then inform you prior to downloading if the file passes the tests that were executed on it.

(TS) Message Text Search

Subcommands :

> (F) Selects only messages left by you.
> (Y) Selects only messages left for you.
> (S) Selects messages above the last one you have read.
> (A) Scan messages in all (SELECT)ed conferences.
> (ALL) Scan messages in all conferences in which you are registered.
> (L) Read in backwards order from the last message to the first.
> (C) Capture the messages found to a file for download
> (D) Implies a (C)apture and immediately downloads
> (Z) Implies a (D)ownload but compresses the file before
> (NS) Displays text in non-stop mode
> (RM+) Re-read "memorized" message plus forward read.
> (RM-) Re-read "memorized" message plus backwards read.
> (##+) Scan messages from a selected number forward.
> (##-) Scan messages from a selected number backward.
> (USER) Selects only those message to or from the specified user.

Description: Allows searching the messages on the system to find messages that match the search criteria that you provide.

Examples:

* TS A 1+
PCBoard & LANtastic

The above commands will search through every available message in ALL conferences areas you are set to scan for any message that has both the word

"PCBoard" AND the word "LANtastic" in it.

* TS A 1+
PCBoard & (LANtastic | DESQview)

The above commands will search through every available message in ALL conferences areas you are set to scan for any message that has both the word "PCBoard" AND either the word "LANtastic" OR the word "DESQview" in it.

The parenthesis tell PCBoard how you want to group your criteria if you have a complex search request such as the one above. It will allow for nearly any number of parens and any combination of AND's (using the "&" character) and OR's (using the "|" character).

* TS A 1+ USER JOHN DOE
PCBoard & Help

The above command (similar to examples above) adds the keyword USER to the command line specifying that only messages that are either TO or FROM John Doe should be displayed if they are found to have both the words PCBoard and Help in them.

(U)pload a File - Function Help

Subcommands (filename 1) (filename 2) (etc) (protocol) (gb or bye)

> (filename) Any valid DOS filename may be used and more than one filename may be entered if you choose to use a BATCH protocol for the file transfer.
> (protocol) Letter from A-Z of the protocol desired based on the protocols available.
> (gb) Either (gb) or (bye) may be entered on the (bye) command line to indicate that you want the system to hang up after it finishes the file transfer.

Description: Allows transferring a file from your machine to the host system.

There can be up to 26 different types of protocols available. If you have not previously set a default protocol, you will be asked for the protocol type each time you request a download.

Ascii protocol transfers are only available on non-binary text files. Filenames which have extensions of .EXE, .ARC, .COM, .WKS, etc. can not be downloaded using Ascii protocol.

Selecting Files: Unlike downloading a filename must be specified exactly as you intend to send it. In other words, if you type the word "TEST" then the name of the file when posted will be called "TEST" with no other extension added to it.

After giving the system one or more filenames to be uploaded it will ask you for a description of each file. If you wish to make a particular file PRIVATE so that it is not posted in the public upload directory you simply place a "/" at the beginning of the first line of text in your description.

Batch Uploads When uploading a batch of files you must enter at least ONE filename even if it is a dummy filename. Then on your end you simply tell your software to send all of the desired files. Any files that are received which you did not specify originally will then be brought up on the screen with the system asking you to describe each of them.

Examples U TEST - uploads TEST using the default protocol U TEST X - uploads TEST using the Xmodem protocol U TEST1 TEST2 Y - uploads both TEST1 & TEST2 using Ymodem/BATCH

(USERS) Display Users (NOT AVAILABLE ON CRS)

Subcommands (search text)

>   (search text) Any text that you want to search for. You could for example, search for a name or a part of a name or a city or state.

Description: Displays the user name, location and last date on for all users that have access to the current conference.

Alternatively, you can enter search criteria to limit your search to only those users or locations that match the criteria.

Examples:

* USERS

Display all users that are registered in the current conference.

* USERS David

Display all users that have the name "David" in their record.

* USERS Utah

Display all users that have "Utah" in their record.

* USERS David & Utah

Display all users that have the name "David" who are in "Utah".

(V)iew User Settings

Subcommands NONE

Description: Allows viewing your current user settings. Included in the listing are:

>   The number of system caller you are.
>   Your Default Page Length.
>   Your System Expiration Date (or NONE).
>   Your Security Level.
>   Your Last Date On.
>   The last message number you read.
>   The current high message number.
>   Number of Active Messages.
>   Available download bytes available for that day.
>   Default Transfer Protocol Selected.

(W)rite User Data Base Information

Subcommands NONE

Description: Allows changing some of your data base information stored on that system, including:

>   Password desired.
>   Location you are calling from.
>   Your Business/Data Phone Number.
>   Your Home/Voice Phone Number.
>   A Comment Field of 30 characters.
>   Choice of having the screen cleared before reading a message.
>   The Message base areas you want to scan with the "Y A" command.

If the system operator has restricted you to only password changes instead of all of the above, you will only be allowed to change it and not the other items listed.

(WHO) is Online

Subcommands None

Description: On multinode systems this command displays the name and location of users that are currently online on all of the nodes in the system.

(X) Expert/Novice Mode Toggle

Subcommands NONE

Description: The (X) command lets you toggle between Expert and Novice mode. When the Expert mode is active, the main menu is never displayed, and most command line prompts are considerably abbreviated.

In Novice mode, all menus are displayed and all command line prompts give a more descriptive definition of the commands available.

(Y)our Mail Check

Subcommands (A) (S) (NS) (+) (-) (C)

      (A) Scans all message bases.
      (S) Scans only for mail left since the last message read.
      (C) Limits scan to current message base only.
      (+) or (-) forces the direction of the scan.
      (Q) Display in Quick Scan format.
      (L) Display in Long Scan format.
      (NS) Displays text output in non-stop mode.

Description: Allows checking for mail left to you or from you in a message base. The above commands can be entered in combination on the same line to limit the scan function as desired. The default for the (Y) command is to scan the current message base only, in reverse direction, checking for mail left by you as well as for mail addressed to you and to scan the complete message base, from the end of the file to the beginning.

You can select which areas you want to be scanned when using the (A) subcommand by typing (SELECT) or by using the (W)rite User Info command.

(Z)ippy Directory Listing Scan

Subcommands (text) (#) (A) (D) (N) (U) (NS)

      (text) Text you wish to search for.
      (#) Valid directory number.
      (A) Scans all directory listings for the text input.
      (D) Download all files found.
      (N) Combines the search with a date scan.
      (S) With (N) indicates new files since last date scanned.
      (U) Scans only the upload directory(s) for the text.
      (NS) Displays screen output in non-stop mode.

Description: Allows you to search the download directories for words or phrases either in the filename itself or in the description of the files. See examples below. (D) will cause all files found to be flagged for later download the next time you issue a (D)ownload command.

(N) combines a new files search with the text search.

Examples:

* Z A PCBoard

The above command will search all of the file directories for the word "PCBoard" (anywhere - the filename, the description or even the extended description lines).

* Z A
PCBoard & DESQview

The above commands will search all of the file directories for any file that has both the word "PCBoard" and the word "DESQview" in the description.

* Z PCBoard A N
120189

The above command combines a text search for the word PCBoard with a date search of 12/01/89 or later in search all of the download directories.
* Z DESQview A S D

The above command combines the Zippy Search of the file directories with a "new files since" search and then flags all files found for later downloading.

Examples of using boolean (and / or) searching

There are numerous places where PCBoard will ask you for some kind of search criteria for the text you want to scan. In those areas you can simply type in a word or phrase or you may create much more complex searches by using boolean logic symbols in your request.

The symbols "&" and "|" can be used to mean AND and OR respectively. In addition you can combine criteria using parentheses to denote the grouping of the search.

The rules below apply at any prompt given where PCBoard wants you to tell it what to scan for and the following rules can be used whether you are scanning through the message base, the download directories, the users file or the caller logs.

Multiple words making up a sentence or phrase

PCBoard version 14.5

Searches for the words "PCBoard version 14.5" all together in a line.
Multiple words searching for each word separately

PCBoard | Qmodem | Procomm

Searches for any text having either PCBoard OR Qmodem OR Procomm anywhere in the text.

CRS ONLINE   NEW USERS GUIDE

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Multiple words searching for each word separately requiring ALL to match

PCBoard & Qmodem & Procomm

Searches for any text having ALL THREE words but not necessarily in any order or even next to each other.
Using parentheses for grouping

DESQview & (PCBoard | Qmodem)

Searches for any text having DESQview in it AND having either PCBoard OR Qmodem also in the same text in any order and not necessarily together.