TIN

COLLABORATORS			

	TITLE : TIN		
ACTION	*NAME*	*DATE*	*SIGNATURE*
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REVISION HISTORY			

NUMBER	DATE	DESCRIPTION	NAME

Contents

Chapter 1

TIN

1.1   TIN - A Netnews reader

```
                    tin, rtin, tind - A Netnews reader

SYNOPSIS
      tin/rtin/tind [
              options
              ] [newsgroups]


              Amiga installation

              Description

              Index Files

              News Administration

              Screen Format

              Commands

              Global Options Menu

              Tinrc Configurable Variables

              Environment Variables

              Special Files

              Signatures

              Customizing the Quote String

              Group Attributes

              Automatic Mailing and Saving New News

              Tips and Tricks
```

Bugs

History

Credits

1.2 Amiga Installation and Special Features

This manual page has been converted to Amigaguide from the ←
original
Unix manual page written by Iain Lea. It still has some references
to things which are only true under Unix, but I hope most of it
will still be helpful. This manual is also a little out-of-date in
sections, so don't assume that just because it is in the manual it
should work that way.

This is also my first attempt at writing amigaguide documents. If
anyone has any objections to the style I have used, feel free to
change it and send me an updated version.

Unless enough people have objections to the new amigaguide manual,
I will stop including all the different readme files in the TIN
archive, and only distribute this file.

 - Mark Tomlinson
(mark@garden.equinox.gen.nz)

UUCP installation

Remote NNTP installation

BBS specific options

Actived program

1.3 UUCP Installation

Tin has been designed to work with DUUCP 1.16 and later. ←
Specifically, TIN
requires the following:

1) The files uulib:active, uulib:newsdescrip (optional),
uulib:active.times (optional). The active and active.times files are
standard if you're using cnews, and are created for DUUCP with the

actived
 program.

2) The assignment UUNEWS: to your news tree. The news must be stored in

hierarchical format, so you must use DUUCP 1.16 or higher for this.

3) The following environment variables (either global or local).
NODENAME, USERNAME, REALNAME, HOME, EDITOR.

TIN has been made to work with Dillon's Sendmail & Postnews programs.
These take different arguments from standard UNIX mail and news programs.
With release 1.1 PL 9 of TIN two further environment variables can been
defined:

TIN_POST (default "uucp:c/postnews %s") and
TIN_MAIL (default "uucp:c/sendmail").

If you set these variables, you can configure TIN for any other news/mail
system. The %s in TIN_POST gets replaced with a filename containing the
news article. TIN_MAIL's command line is configurable in your tinrc file.

The editor you use with TIN should not return until you quit editing that
file, so if you are using CED or TTX (or probably some others too) you
will need to also add in the appropriate options in the environment
variable EDITOR (see script file below) which will force your editor to
wait until you've quit the editor. Unless you have an editor which
understands the argument +7 to mean "start editing at line 7", you should
set "Editor Offset" in the configuration menu (type shift-M) to OFF. An
example startup script is given here.

```
---------------------------------
.key opt1,opt2,opt3,opt4,opt5
.bra {
.ket }

; For WB2.0 users, the setenv's can be set's instead. This allows multiple
; users to run with their own names etc. WB1.3 users have to use setenv.

setenv USERNAME fred
setenv REALNAME "Fred Flinstone"
setenv NODENAME bedrock    ; This should be just your node name, not the
                           ; entire domain.
setenv HOME    dh0:news    ; wherever you want your saved news & .newsrc
                           ; files etc. stored
setenv EDITOR  c:ed
actived                    ; create a new active file
delete uulib:active
rename uulib:newsactive uulib:active
tin.exe {opt1} {opt2} {opt3} {opt4} {opt5}          ; start tin itself
---------------------------------
```

See the
                  actived
                   description for information on actived.

This should be enough to get started. From there, use the help screens
within TIN, and if you can be bothered, the rest of this manual.

Another two environment variables LINES and COLUMNS can be set to specify
the size of your screen. Inside an Amiga window this isn't required, as TIN
can query the window size (and now notices window size changes!), but if

you're running on anything other than the Amiga's console, this query
escape sequence won't work. If TIN finds the LINES and COLUMNS environment
variables set, it will not try to query the window size. Use these
variables for axsh, aux:, use on any
                         BBS
                         , etc.

1.4 NNTP Installation

                         Requirements of TIN for use via NNTP:

- AmiTCP. (Which in turn requires WB2.04 + a network connection).
- A sendmail of some sort. (Only required to actually send mail! See

                         UUCP installation
                          for info on setting the TIN_MAIL environment
  variable.)

The same executable is used for reading news locally as well as via NNTP.
You do not need to set the assigns UULIB: and UUNEWS:. You may still wish
to assign UULIB: if you want to use UULIB:sitename (see below).

The environment variables NODENAME, USERNAME, REALNAME, HOME and EDITOR
still must be set in the same way as for
                         UUCP
                         .

To start TIN for reading from the remote server, you must specify '-r' on
the command line. ie "tin.exe -r", or alternatively, you can rename or
link tin to "rtin.exe" (or anything else beginning with an 'r').

You must also set the environment variables NNTPSERVER and DOMAIN.

[Note once again, that all environment variables may be set with the WB2.0
"set" command, to allow multiple users to run TIN at the same time with
different usenames.]

NNTPSERVER is simply the name of the NNTP server, e.g. host.blarg.foo. The
port number is now settable (via
                         NNTPPORT
                         ), it defaults to 119 (NNTP).
DOMAIN gets used to work out what to put in the Path: & From: lines of any
posted message.

The Path line is always:

Path: hostname!user

where hostname is either held in uulib:sitename (if it exists) or $NODENAME,
and user = $USERNAME.

The From line is:

From: user@domain if $DOMAIN doesn't begin with a '.' or

From: user@host.domain if $DOMAIN begins with a '.', where host = hostname,
upto the first '.' (hostname is as above).

If you can't receive mail with the particular username in the From: line,
you should set the REPLYTO environment variable. (Many other things can
also be configured through
                    environment variables
                    .

For nntpservers which require authorization, you must create a file
$HOME/.newsauth, which contains lines of the form:
<nntpserver> <password>

The default signature file for posted messages is $HOME/.Sig. Other
possible files in $HOME are described in the rest of this guide.

1.5   BBS specific options

This section is here just to bring to attention some options which have
been put in place specifically for BBS use.

The command line option "-B" does the following:

- disables piping
- does not allow saving to any directory other than $HOME
- disables various options in TIN's internal configuration menu.

Note that printing itself is not disabled! You can effectively do this by
creating the file UULIB:tinrc with the line:
default_printer=copy pipe: nil:

Provided you don't let users edit their own $HOME/.tin/tinrc file, they
will not be able to override this. The Sysop of course can change his/her
own tinrc file to allow printing (copy pipe: prt:).

The LINES and COLUMNS variables will have to be set for virtually every
BBS package, as I have never seen a remote console which supports the
querying of the window size. LINES and COLUMNS should of course be set to
the number of lines and columns on the users screen. (Running with a
smaller size does no harm, it just doesn't make full use of the users
screen.)

1.6   Actived program documentation

Actived creates an "active" file. This is a standard file in Unix
environments, but missing from DUUCP. I actually creates uulib:newsactive,
allowing current users to be reading from the old active file while the
new one is being created. Actived also sets the environment variable
"TIN_GROUPS" to equal the number of newsgroups. This variable isn't
necessary to run TIN, but allows TIN to save some memory. If you don't
wish to run actived each time you start TIN, you may copy TIN_GROUPS to

ENVARC: (WB 2.0+).

Actived now also appends any new groups it notices to the
uulib:active.times file. TIN uses this file to determine whether a group
has been created since you last read news.

1.7 Description

TIN is a full-screen easy to use Netnews reader. It can read
news locally (i.e. uunews: or remotely (rtin or
                tin -r
                 option)
via a NNTP (Network News Transport Protocol) server. It will
automatically utilize nov (news overview) style index files if
available locally or via the nntp xover command.

Tin has four separate levels of operation: Group selection level,
Group level, Thread level and Article level (see
                Screen Format
).
Use the 'h' (help) command to view a list of the
                commands
                 available
at a particular level.

On startup tin will show a list of the newsgroups found in

                $HOME
                /
                .newsrc
                . An arrow '->' or highlighted bar will point to the
first newsgroup. Move to a group by using the terminal arrow keys
(terminal dependent) or 'j' and 'k'. Use space/'b' or Ctrl-U and
Ctrl-D to page up/down. Enter a newsgroup by pressing RETURN.

The TAB key advances to the next newsgroup with unread articles and
enters it.

1.8 Command Line Options

                -c create/update index files for every group in
                $HOME
                /
                .newsrc
                 or
    file specified by the -f option and mark all articles as read.

-C count articles for each subscribed group at startup. With a
    large number of groups this will be slow. However the number of
    unread articles in each group will be accurate.

-d delete
                index files
                 for each group before indexing article (tind
    index daemon only).

-f "file" use the specified file of subscribed to newsgroups in
    place of
                $HOME
                /
                .newsrc
                .

-h help listing all command line options.

-H brief introduction to TIN that is also shown the first time it
    is started.

-I "dir" directory in which to store newsgroup
                index files
                . Default
    is
                $HOME
                /.tin/
                .news
                .

-m "dir" mailbox directory to use. Default is
                $HOME
                /
                Mail
                .

-M "user" mail unread articles to specified user for later reading.
    For more information see
                Automatic Mailing and Saving New News
                .

-n Only load groups from the active file that are also subscribed
    to in the users
                .newsrc
                . This allows a noticeable speedup when
    connecting via a slow line.

-q quick start without checking for new newsgroups.

-P purge group
                index files
                 of articles that no longer exist. Care
    should be taken when using this command as it checks each and
    every article in each group that is accessed. On a low speed
    connection this can have an undesirable effect and it also
    knocks the hell out of your filesystem.

-r read news remotely from the default NNTP server specified in
    the environment variable
                $NNTPSERVER
                 or contained in the file

```
                        uulib:nntpserver
                         .
```

-R read news saved by the -S option (not yet implemented).

-s "dir" save articles to directory. Default is
```
                        $HOME
                        /
                        News
                         .
```

-S save unread articles for later reading by the -R option. For
    more information see
```
                        Automatic Mailing and Saving New News
                         .
```

-u create/update
```
                        index files
                         for every group in
                        $HOME
                        /.newsrc or
```
    file specified by the -f option. This option is disabled if
    TIN retrieves its index files via a NNTP server.

-U start TIN in the background to update index files while reading
    news in the foreground. This option is disabled if TIN
    retrieves its index files via a NNTP server.

-v verbose mode for -c -M -S -u and -Z options.

-w quick mode to
```
                        post
                         ('write') an article and then exit.
```

-z only start TIN if there is any new/unread news. If there is
    news TIN will position cursor at first group with unread news.
    Useful for putting in login file.

-Z check if there is any new/unread news and exit with appropriate
    status. If -v option is specified the number of unread articles
    in each group is printed. An exit code 0 indicates no news, 1
    that an error occurred, 2 that a nntp error ocurred and 3 that
    new/unread news exists. Useful for writing scripts.

TIN can also dynamically change its options by the 'M'
```
                        menu command
                         .
```
Any changes are written to
```
                        $HOME
                        /.tin/
                        tinrc
                         .
```

The index daemon version, tind, supports the -f, -h, -I and
-v options.

1.9   Index Files

In order to keep track of threads, TIN maintains an index for each
newsgroup. TIN now always creates index in .overview files in the
news tree. If you are using TIN via NNTP, the files will be stored
in
                $HOME
                /.tin/
                .news
                . There are a few methods of getting TIN to keep
these up to date.

Simply by ruuning TIN, the index files will be updated on entering
the group. You can also update index files via a cron utility with
the
                -u
                 option. You may wish to enter something similar to the
following into your
                crontab
                 file if you have cron running on your
machine:

30 6 * * * tin -u

If you are running your machine with multiple users, it is better
install the tind index file updating daemon and have it create and
update index files for all groups in your active file at regular
intervals in the news spool directory (i.e. uunews:
                .news
                 for NNTP
or directly in uunews: for local reading). The index daemon will
have to be run at regular intervals to keep the index up to date.

The best method is to install the tind index file updating daemon
on your NNTP server and have it create and update index files for
all groups in your active file at regular intervals in the news
spool directory (i.e. /usr/spool/news/.news). This has the
advantage that there will only be one copy of the index files on
the NNTP server for the whole of your network, but the disadvantage
is that you will have to install my NNTP server patches to allow
TIN to retrieve index file from your NNTP server and and you must
install an entry in the cron batcher system to have tind regularly
update index files (note that this is the method we use on our
network of 40-50 machines and have not had any problems).

Entering a group the first time tends to be slow because the index
file must be built from scratch unless the tind update daemon is
being used. To alleviate the slowness start tin to create all index
files for the groups you subscribe to with TIN
                -u -v
                 and go for a
coffee. Subsequent readings of a group will cause incremental
updating of the index file.

If reading news remotely and updating index files locally,
operation will be somewhat slower because the articles must be
retrieved from the NNTP server.

1.10   News Administration

                Maintaining Netnews on large networks of machines can be a pretty
time consuming job as I discovered when I was given the job of
maintaining our news system and news users.

TIN is a News User Agent and so most of the users were always
asking questions or doing things that could be frowned upon by
their departments. To relieve news admins (and especially me) some
features have been added.

When a user starts TIN it is possible to inform them of any
important changes/information concerning the news system by
displaying a message of the day (motd) file. The motd file should
be created in your news lib directory (i.e.
                uulib:motd
). The motd
file will only be displayed if its content is newer than the last
time the user started TIN. If reading news via NNTP my XMOTD patch
will have to have been applied to your NNTP server.

A user starting TIN for the first time can be automatically
subscribed to a list of newsgroups that are deemed appropriate by
the news administrator. At our site the subscriptions file has 125
groups (our active file contains over 400 groups with many only
being marginally interesting to most people). The subscriptions
file should be created in your news lib directory
(i.e.
                uulib:subscriptions
). If reading news via NNTP my LIST
SUBSCRIPTIONS patch will have to have been applied to your NNTP
server.

If my NNTP XUSER patch has been applied to your NNTP server you
will be able to log the username and machine to your NNTP logfile
for usage statistics.

1.11   Screen Format

                TIN has four separate levels of operation:
Group selection level, Group level, Thread level and Article level.

At the Group Selection level the title displays the number of
subscribed groups. The newsgroups are displayed with the number of unread
articles displayed to the left of each group name.

```
  <Selection Num> <Num of unread articles> <Newsgroup>
      i.e.,
          1    10  alt.sources
          2     3  comp.sources.misc
          3    12  news.software.readers
```

At the Group level the title contains the name of the group, the
number of conversation threads and total number of articles i.e.,
alt.sources (7 23). If the group has been setup not to thread
articles (i.e., alt.sources is in $(HOME)/.tin/
                unthread
) the title
will be alt.sources (U 23). There are two possible display formats
as shown below:

```
          <Selection Num> <Unread> <Responses> <Subject> <Author>
      i.e.,
          1    +   3   Bnews sources?      iain@anl433.uucp
          2        1   This question has   ether@net
      or
          <Selection Num> <Unread> <Responses> <Subject (longer)>
      i.e.,
          1    +   3   Bnews sources?
          2        1   This question has a longer subject line
```

At the Article level the page header has the following format:
```
          <Date posted> <Newsgroup>     <Thread 1 of n>
          <Article Num> <Subject>       <Num of responses in thread>
          <Author>                      <Organization>

          <Article body>
      i.e.,
          24 Jul 15:20:03 GMT   alt.sources      Thread 1 of 2
          Article 452           Bnews sources?   3 responses
          iain@anl433.uucp                       Organization name

          <Article body>
```

1.12 Commands and Operation

```
              TIN has four levels of operation (see
              Screen Format
              ).
```
At each level of operation a different set of commands is available:

```
              Group Selection Commands

              Group Index Commands

              Thread level Commands
```

Article level Commands
Movement and editing keys are common to all levels:

Common Moving Keys

Common Editing Commands
In depth documentation on major features:

Filtering Articles

Posting Articles

Mailing, Piping, Printing, Reposting and Saving Articles

1.13 Common Moving Keys

This table shows the common keys/commands for moving at all five levels
within TIN.

Beginning of list/article		1 (^R or g at article level)
End of list/article		$ (also G at article level)
Page Up		^U or ^B or b
Page Down		^D or ^F or <SPACE>
Line Up	Up arrow	k (not at article level)
Line Down	Down arrow	j (not at article level)

1.14 Common Editing Commands

An emacs style editing package allows the easy editing of input
strings.   An history list allows the easy reuse of previously
entered strings.   The following commands are available when
editing a string:

^A,^E   move to beginning or end of line, respectively.

^F,^B   nondestructive move forward or back one location,
          respectively.

^D   delete the character currently under the cursor, or
          send EOF if no characters in the buffer.

^H,<DEL> delete character left of the cursor.

^K   delete from cursor to end of line.

^P,^N   move through history, previous and next, respectively.

^L,^R   redraw the current line.

<CR>   places line on history list if nonblank, appends
           newline and returns to the caller.

<ESC>   aborts the present editing operation.

1.15 Group Selection Commands

               4   Select group 4.

^L   Redraw page.

^R   Reset
            $HOME
            /
            .newsrc
             file.

<CR>   Read current group.

<TAB>   View next group with unread news. Will wrap around to
          the beginning of the group selection list looking for
          unread groups.

c   Mark current group as all read with confirmation and
          goto next group in group selection list.

C   Mark current group as all read and goto next unread
          group in group selection list.

d   Toggle display to show just the groupname or the
          groupname and the groups description.

g   Choose a new group by name. The position of the group
          within the group list will also be asked for. By
          entering '1' the new group will be the first group in
          the displayed list, by entering '8' the group will be
          the eighth group in the list etc. By entering '$' the
          group will be the last group displayed.

h   Help screen of newsgroup selection commands.

H   Toggle the display of help mini menu at the bottom of
          the screen.

I   Toggle inverse video.

l   List and allow selection of the available spool
          directories. This feature requires a special library
          to be linked with tin to create cdtin which can then
          read news from an active news feed and also from
          multiple CD-ROMs.

m   Move the current group within the group selection list.
          By entering '1' the group will become the first
          displayed group in the list, by entering '8' the eighth

group in the list etc. By entering '$' the group will
be the last group displayed.

M   User configurable options menu (for more information
         see section
           Options Menu
).

q   Quit tin.

Q   Quit tin.

r   Toggle display of all subscribed to groups and just the
         subscribed to groups containing   unread   articles.
         Command has no effect if groups were read from the
         command line when tin was started.

R   Mail a bug report or comment to the author.   This is
         the best way of getting bugs fixed and features
         added/changed.

s   Subscribe to current group.

S   Subscribe to groups matching user specified pattern.

u   Unsubscribe to current group.

U   Unsubscribe to groups matching user specified pattern.

v   Print tin version information.

w

           Post
            an article to current group.

W   List articles posted by user. The date posted, the
         newsgroup and the subject are listed.

y   The first time this command is called it will yank in
         all   groups   from
           uulib:active
              that are not in

           $HOME
           /
           .newsrc
           . After any groups have been
         subscribed/unsubscribed to, this command if pressed
         again will reread $HOME/.newsrc and display only the
         subscribed groups.

Y   Reread the active file to see if any new news has
         arrived since starting tin.

z   Mark all articles in the current group as unread.

/   Group forward search.

?   Group backward search.

1.16   Group Index Commands

          4   Select article 4.

^A   Auto select article(s) via a menu. Read the section

            Filtering Articles
             for more information.

[Auto select article(s) with a single key. The defaults
          used for selection are set via the following three
          tinrc config variables: default_filter_select_header
          (0=Subject:,   1=From:,   2=MessageiId:),
          default_filter_select_global (ON=apply to all groups,
          OFF=apply   to   current   group)   and
          default_filter_select_expire (ON=expire after specifed
          time, OFF=always apply the filter). Read the section

            Filtering Articles
             for more information.

^K   Kill article(s) via a menu. Read the section

            Filtering Articles
             for more information.

]   Kill article(s) with a single key. The defaults used
          for killing are set via the following three tinrc
          config   variables: default_filter_kill_header
          (0=Subject:,   1=From:,   2=MessageiId:),
          default_filter_kill_global (ON=apply to all groups,
          OFF=apply   to   current   group)   and
          default_filter_kill_expire (ON=expire after specifed
          time, OFF=always apply the filter). Read the section

            Filtering Articles
             for more information.

^L   Redraw page.

<CR>   Read current article.

<TAB>   View next unread article or group.

a   Author forward search.

A   Author backward search.

c   Mark all articles as read with confirmation.

C   Mark all articles as read and goto next group with

unread news.

d   Toggle display to show just the subject or the subject
           and author.

g   Choose a new group by name.

h   Help screen of group index commands.

H   Toggle the display of help mini menu at the bottom of
           the screen.

I   Toggle inverse video.

K   Mark article/thread as read and advance to next unread
           article/thread.

l   List the author of each response in current thread and
           enter thread selection level.

m   Mail current article / thread / auto selected (hot)
           articles / articles matching pattern / tagged articles
           to someone (see
             Mailing Articles
).

M   User configurable options menu (for more information
           see section
             Options Menu
).

n   Go to next group.

N   Go to next unread article.

o   Output current article / thread / auto selected (hot)
           articles / articles matching pattern / tagged articles
           to printer.

p   Go to previous group.

P   Go to previous unread article.

q   Return to previous level.

Q   Quit tin.

s   Save current article / thread / auto selected (hot)
           articles / articles matching pattern / tagged articles
           to file / files / mailbox. To save to a mailbox enter
           '=' or '=mailbox' when asked for filename to save to.
           To save in <newsgroup name>/<filename> format enter
           '+filename'.   Environment variables are allowed within
           a filename (i.e. $SOURCES/dir/filename).
           See section
             Saving Articles

```
                          t        Tag current article / thread for mailing ('m') /  ←
                             piping
                      ('|') / printing ('o') / saving ('s') / reposting ('x')
```

u   Toggle display to show all articles as unthreaded or
           threaded.

U   Untag all articles that were tagged.

v   Print tin version information.

w

             Post
              an article to current group.

W   List articles posted by user. The date posted, the
           newsgroup and the subject are listed.

x

             Repost
              an already posted article / thread / auto
           selected (hot) articles / articles matching pattern /
           tagged articles to another newsgroup(s).   Useful for
           reposting from global to local newsgroups. Do not use
           this to crosspost your own articles.

X   Mark all unread articles that have not been selected as
           read, redo screen to reflect changes and put index at
           the first thread to begin reading. Pressing 'X' again
           will toggle back to the way it was before. See '~'
           command for clearing the toggle effect.

z   Mark current article as unread.

Z   Mark current thread as unread.

/   Search forward for specified subject.

?   Search backward for specified subject.

-          Show last message.

| Pipe current article / thread / auto selected (hot)
           articles / articles matching pattern / tagged articles
           into command. See
             Piping Articles
               .

*   Select current thread for later processing.

.   Toggle selection of current thread. If at least one
           unread art, but not all unread arts, in thread is
           selected, then all unread arts become selected.

@   Reverse all selections on all articles.

~   Undo all selections on all articles. It clears the

                  toggle effect of 'X' command. Thus after first doing a
                  'X', one can then do '~' to reset articles. Thus, one
                  can iteratively whittle down uninteresting threads.

    +   Perform auto-selection on current group.

    =   Prompts for a pattern with which to match on. All
                  threads whose subjects match the pattern will be
                  selected. A pattern of "*" will match all subjects.
                  Entering just <CR> will cause the previous entered
                  pattern to be used.

    ;   For each thread in current group, if it at least one
                  unread art is selected, all unread arts become
                  selected. This is useful for auto-selection on author
                  where reader wants to see entire thread.

1.17   Thread Listing Commands

    4   Select article 4 within thread.

    ^L   Redraw page.

    <CR>   Read current article within thread.

    <TAB>   View next unread article within thread.

    c   Mark thread as read after confirmation and return to
                  previous level.

    d   Toggle display to show just the subject or the subject
                  and author.

    h   Help screen of thread listing commands.

    H   Toggle the display of help mini menu at the bottom of
                  the screen.

    I   Toggle inverse video.

    K   Mark thread as read and return to previous level.

    q   Return to previous level.

    Q   Quit tin.

    r   Toggle display to show all articles or only unread
                  articles.

    R   Mail a bug report or comment to the author. This is
                  the best way of getting bugs fixed and features
                  added/changed.

    t   Tag current article for mailing ('m') / piping ('|') /

                       printing ('o') / saving ('s') / reposting ('x').

T   Return to group index level.

v   Print tin version information.

z   Mark current article in thread as unread.

Z   Mark all articles in thread as unread.

1.18   Article Viewer Commands

              0   Read the base article in this thread.

4   Read response 4 in this thread.

^A   Auto select article(s) via a menu. Read the section

             Filtering Articles
              for more information.

[Auto select article(s) with a single key. The defaults
           used for selection are set via the following three
           tinrc config variables: default_filter_select_header
           (0=Subject:,   1=From:,   2=MessageiId:),
           default_filter_select_global (ON=apply to all groups,
           OFF=apply   to   current   group)   and
           default_filter_select_expire (ON=expire after specifed
           time, OFF=always apply the filter). Read the section

             Filtering Articles
              for more information.

^H   Show all of the articles mail header.

^K   Kill article(s) via a menu. Read the section

             Filtering Articles
              for more information.

]   Kill article(s) with a single key. The defaults used
           for killing are set via the following three tinrc
           config   variables: default_filter_kill_header
           (0=Subject:,   1=From:,   2=MessageiId:),
           default_filter_kill_global (ON=apply to all groups,
           OFF=apply   to   current   group)   and
           default_filter_kill_expire (ON=expire after specifed
           time, OFF=always apply the filter). Read the section

             Filtering Articles
              for more information.

^L   Redraw page.

<CR>   Goto next base article.

```
<TAB>      Goto next unread article.

a          Author forward search.

A          Author backward search.

c          Mark all articles as read with confirmation and  return
           to group selection level.

C          Mark  current  group  as  all read and goto next unread
           group in group selection list.

d          Toggle rot-13 decoding for this article.

D          Delete current article.  It must have  been  posted  by
           the  same  user.  The cancel message can be seen in the
           newsgroup 'control'.

f          Post a followup to the current article with a  copy  of
           the article included.

e          Edit  the  current  article.  Only  available when in a
           mailgroup.

F          Post a followup to the current article.

h          Help screen of article page commands.

H          Toggle the display of help mini menu at the  bottom  of
           the screen.

I          Toggle inverse video.

k          Mark  article  as  read  and  advance  to  next  unread
           article.

K          Mark thread as read and advance to next unread  thread.

m          Mail  current  article  /  thread / auto selected (hot)
           articles / articles matching pattern / tagged  articles
           to someone. See
             Mailing Articles
             .

M          User  configurable  options  menu (for more information
           see section
             Options Menu
             ).

n          Go to the next article.

N          Go to the next unread article.

o          Output current article / thread / auto  selected  (hot)
           articles  / articles matching pattern / tagged articles
           to printer. See
```

           Printing Articles
             .

   p   Go to the previous article.

   P   Go to the previous unread article.

   q   Return to previous level.

   Q   Quit tin.

   r   Reply through mail to the author of the current article
           with a copy of the article included.

   R   Reply through mail to the author of the current
           article.

   s   Save current article / thread / auto selected (hot)
           articles / articles matching pattern / tagged articles
           to file / files / mailbox. To save to a mailbox enter
           '=' or '=mailbox' when asked for filename to save to.
           To save in <newsgroup name>/<filename> format enter
           '+filename'.   Environment variables are allowed within
           a filename (i.e. $SOURCES/dir/filename).
           See
             Saving Articles
               .

   t   Tag current article for mailing ('m') / piping ('|') /
           printing ('o') / saving ('s') / reposting ('x').

   T   Return to group selection level.

   v   Print tin version information.

   w

             Post
              an article to current group.

   W   List articles posted by user. The date posted, the
           newsgroup and the subject are listed.

   x   Repost an already posted article / thread / auto
           selected (hot) articles / articles matching pattern /
           tagged articles to another newsgroup(s).   Useful for
           reposting from global to local newsgroups. Do not use
           this to crosspost your own articles.

   z   Mark article as unread.

   /   Article forward search.

   ?   Article backward search

   | Pipe current article / thread / auto selected (hot)
           articles / articles matching pattern / tagged articles
           into command. See

Piping Articles
.

<   Goto the first article in the current thread.

>   Goto the last article in the current thread.

*   Select current thread for later processing.

.   Toggle selection of current article.

@   Reverse article selections.

~   Undo all selections on current thread.

1.19 Global Options Menu

This menu is accessed by pressing 'M' at all levels. It ↩
allows
the user to customize the behaviour of tin. The options are saved
to the file
$HOME
/.tin/
tinrc
. Use <SPACE> to toggle the required
option and <CR> to set.

Auto save
    Automatically save articles/threads by ``Archive-name:'' line
    in article header and post process them if process type is
    not set to None.

Editor offset
    Set ON if the editor used for posting, follow-ups and bug
    reports has the capability of starting and positioning the
    cursor at a specified line within a file.

Mark saved read
    Allows saved articles/threads to be automatically marked as
    read.

Confirm Command
    Allows certain commands (i.e. 'c' catchup) that require user
    confirmation to be executed immediately if set OFF.

Draw arrow
    Allows groups/articles to be selected by an arrow '->' if set
    ON or by an highlighted bar if set OFF.

Print header
    This allows the complete mail header or only the ``Subject:''
    and ``From:'' fields to be output when printing articles.

Goto 1st unread

This allows the cursor to be placed at the first / last
unread article upon entering a newsgroup with unread news.

Scroll full page
    If set ON scrolling of groups/articles will be a full page at
    a time, otherwise half a page at a time.

Catchup on quit
    If set ON the user is asked when quitting if all groups read
    during the current session should be marked read.

Thread articles
    If set ON articles will be threaded in all groups (default),
    otherwise   articles   will   be   shown   unthreaded.
    Threading/unthreading is possible on a per group basis by
    setting the group attribute variable 'thread_arts' to ON/OFF
    in the file
            $HOME
            /.tin/
            attributes
            .

Show only unread
    If set ON show only new/unread articles, otherwise show all
    articles.

Show description
    If set ON show a short descriptive text for each displayed
    newsgroup.   The   text   used   is   taken   from   the

            $LIBDIR/newsgroups
             file.

Show Author
    If set 'None' only the ''Subject:'' line will be displayed.
    If set 'Addr' ''Subject:'' line & the address part of the
    ''From:'' line are displayed.   If set 'Name' ''Subject:''
    line & the authors full name part of the ''From:'' line are
    displayed.   If set 'Both' ''Subject:'' line & all of the
    ''From:'' line are displayed.

Process type
    This specifies the default type of post processing to perform
    on saved articles.   The following types of processing are
    allowed:
        --none.
        --unpacking of multi-part shell archives.
        --unpacking of multi-part uuencoded files.
        --unpacking of multi-part uuencoded files, which produce a
          *.zoo archive whose contents is listed.
        --unpacking of multi-part uuencoded files, which produce a
          *.zoo archive whose contents is extracted.
        --unpacking of multi-part uuencoded files, which produce a
          *.zip archive whose contents is listed.
        --unpacking of multi-part uuencoded files, which produce a
          *.zip archive whose contents is extracted.
        --unpacking of multi-part uuencoded files, which produce a

                    *.lha archive whose contents is listed (AmigaDOS version
                    only).
               --unpacking of multi-part uuencoded files, which produce a
                    *.lha   archive   whose   contents   is   extracted (AmigaDOS
                    version only).

     Sort articles by
          This specifies how articles should be sorted. The following
          sort types are allowed:
               --don't sort articles (default).
               --sort   articles   by   ``Subject:''   field   (ascending   &
                    descending).
               --sort   articles   by   ``From:''   field   (ascending   &
                    descending).
               --sort   articles   by   ``Date:''   field   (ascending   &
                    descending).

     Save directory
          The   directory   where   articles/threads   are   to   be   saved.
          Default is
                    $HOME
                    /
                    News
                    .

     Mail directory
          The   directory   where   articles/threads   are   to   be saved in
          mailbox format. This feature is mainly for use with the Elm
          mail   program.   It   allows   the   user   to   save
          articles/threads/groups simply by giving '=' as the filename
          to save to.

     Printer
          The printer program with options that is to be used to print
          articles. Printing article is achieved by opening a pipe. The
          default command is "copy pipe: prt:"

1.20 Tinrc Configurable Variables

               The   following   variables   are   user   configurable   by   ←
                    editing

          $HOME
          /.tin/tinrc directly. It is hoped to eventually provide a
menu to allow the setting of the most common variables. A global
configuration can be set in
          uulib:tinrc
           which will override these
defaults for any first time users of TIN.

art_marked_deleted
     Default is D.

art_marked_inrange

```
        Default is #.

art_marked_return
    Default is -.

art_marked_selected
    Default is *.

art_marked_unread
    Default is +.

auto_cc
    Default is OFF

auto_list_thread
    Default is ON.

auto_save
    Default is OFF

batch_save
    If  set  ON articles/threads will be saved in batch mode when
    save -S or mail -M is specified on the command line.  Default
    is OFF.

beginner_level
    If  set  ON  a  mini menu of the most useful commands will be
    displayed at the bottom of the screen for each level. Default
    is ON.

catchup_read_groups
    Default is OFF.

confirm_action
    Default is ON.

confirm_quit
    Default is ON.

default_editor_format
    The format string used to create  the  editor  start  command
    with parameters.  Default is '%E %F' (i.e., "c:ed .article").

default_filter_days
    Default is 28.

default_filter_kill_case
    Default is OFF.

default_filter_kill_expire
    Default is OFF.

default_filter_kill_global
    Default is ON.

default_filter_kill_header
    Default is 0.
```

default_filter_select_case
    Default is OFF.

default_filter_select_expire
    Default is OFF.

default_filter_select_global
    Default is ON.

default_filter_select_header
    Default is 0.

default_maildir
    Default is $HOME/Mail.

default_mailer_format
    The format string used to create the mailer command with
    parameters that is used for mailing articles to other people.
    Default is '%M <%F −f %U' (i.e., uucp:c/sendmail <.article
    −f "iain"). The flexible format allows other mailers with
    different command line parameters to be used such as 'elm −s
    "%S" "%T" < "%F"' (i.e., elm −s "subject" "iain" < .article).

default_printer
    The printer program with options that is to be used to print
    articles. Printing article is achieved by opening a pipe. The
    default command is "copy pipe: prt:"

default_savedir
    Default is $HOME/News.

default_sigfile
    The path that specifies the signature file to use when
    posting, following upto or replying to an article. If the
    path is a directory then the signature will be randomly
    generated from files that are in the specified directory.
    Default is
            $HOME
            /
            .Sig
            .

display_reading_prompt
    The prompt ''Reading...'' will be displayed when reading an
    article from a NNTP server to provide feedback to the user.
    Default is ON.

force_screen_redraw
    Specifies whether a screen redraw should always be done after
    certain external commands. Default is OFF.

groupname_max_length
    Maximum length of the names of newsgroups to be displayed so
    that more of the newgroup description can be displayed.
    Default is 132.

draw_arrow
    Default is OFF.

full_page_scroll
    Default is ON.

group_catchup_on_exit
    Default is ON

hot_art_mark
    The character used to show that an article/thread is auto-
    selected (hot). Default is '*'.

inverse_okay
    Default is ON.

mail_quote_format
    Default is In article %M you wrote:

mark_saved_read
    Default is ON.

news_quote_format
    Default is %F wrote:

pos_first_unread
    Default is ON.

post_process_type
    Default is 1.

print_header
    Default is OFF.

process_only_unread
    Default is ON.

quote_chars
    The character used in quoting included text to article
    followups and mail replys. The '_' character represents a
    blank character and is replaced with ' ' when read. Default
    is ':_'.

reread_active_file_secs
    The news active file is reread at regular intervals to show
    if any new news has arrived. Default is 300 seconds.

return_art_mark
    The character used to show that an article will return.
    Default is '-'.

save_to_mmdf_mailbox
    Allows articles to be saved to a MMDF style mailbox instead
    of mbox format. Default is OFF unless reading news on SCO
    Unix which uses MMDF by default.

show_author

Default is 2.

show_description
    Default is ON.

show_last_line_prev_page
    The last line of the previous page will be displayed as the
    first line of next page. Default is OFF.

show_only_unread
    Default is ON.

show_only_unread_groups
    Default is OFF.

sort_article_type
    Default is 2.

start_editor_offset
    Default is OFF.

strip_blanks
    Strips the blanks from the end of each line therefore
    speeding up the display when reading on a slow terminal or
    via modem. Default is ON.

tab_after_X_selection
    If enabled will automatically goto the first unread article
    after having selected all hot articles and threads with the
    'X' command at group index level. Default is OFF.

tab_goto_next_unread
    If enabled pressing TAB at the article viewer level will goto
    the next unread article immediately instead of first paging
    through the current one. Default is ON.

thread_articles
    Default is ON.

thread_catchup_on_exit
    Default is ON.

unlink_article
    Default is ON.

unread_art_mark
    The character used to show that an article has not been read.
    Default is '+'.

use_builtin_inews
    Allows the builtin NNTP inews to be enabled/disabled. Default
    is ON (enabled).

use_keypad
    Allows the scroll keys on the keypad to be enabled/disabled
    on supported terminals. Default is OFF.

use_mouse
    Allows the mouse key support in a xterm to be
    enabled/disabled. Default is ON.

1.21 Group Attributes

                Tin allows certain attributes to be set on a per group ←
                   basis.
These   group   attributes   are   read   from   the   file

        $HOME
        /.tin/attributes.   A   later   version   will   provide   a menu
interface to set all the attributes. At present you will have to
edit   the   file   with   your   editor   :-(. The   following   group
attributes are available:

        newsgroup=alt.sources
        maildir=/usr/iain/Mail/sources
        savedir=/usr/iain/News/alt.sources
        savefile==sources
        sigfile=/usr/iain/.funny_sig
        organization=Wacky Bits Inc.
        followup_to=alt.sources.d
        printer=/usr/local/bin/a2ps -nn | /bin/lpr
        auto_save=ON
        batch_save=OFF
        delete_tmp_files=ON
        show_only_unread=OFF
        thread_arts=ON
        show_author=1
        sort_art_type=5
        post_proc_type=1

Note that the ''newsgroup=<groupname>'' line has to be specified
before the attributes are specified for that group.

All attributes are set to a reasonable default so you only have
to specify the attribute that you want to change (i.e., savedir).

All toggle attributes are set by specifying ON/OFF.

The show_author attribute is specified by a number from the
following range: 0=none, 1=username, 2=network address, 3=both.

The sort_art_type attribute is specified by a number   from the
following   range: 0=none,   1=subject   descending, 2=subject
ascending, 3=from descending, 4=from ascending, 5=date
descending, 6=date ascending.

The post_proc_type attribute is specified by a number from the
following range: 0=none, 1=unshar, 2=uudecode, 3=uudecode & list
zoo archive, 4=uudecode & extract zoo archive, 5=uudecode & list
zip archive, 6=uudecode & extract zip archive. (note: if running
on AmigaDOS the zoo options are replaced by there corresponding

lha archiver options).

1.22   Filtering Articles

When there is a subject or an author which you are either ↩
               very
interested in, or find completely uninteresting, you can easily
instruct tin to auto-select or auto-kill articles with specific
subjects or from specific authors. These instructions are stored
in a kill file.

This menu is accessed by pressing '^K' at the group and page
levels.   It allows the user to kill or select an article that
matches the current ``Subject:'' line, ``From:'' line or a string
entered by the user. The user entered string can be applied to
the ``Subject:'' or ``From:'' lines of an article.   The kill
description can be limited to the current newsgroup or it can
apply to all newsgroups. Once entered the user can abort the
command and not save the kill description, edit the kill file or
save the kill description.

On starting tin the users killfile
              $HOME
              /.tin/
              kill
               is read and on
entering a newsgroup any kill or select descriptions are applied.

Articles that match a kill description are marked killed and are
not displayed. Articles that match an auto-select description are
marked with a ''*'' when displayed.

1.23   Posting Articles

Tin allows posting of articles, follow-up to already ↩
               posted
articles and replying direct through mail to the author of an
article.

Use the 'w' command to post an article to a newsgroup.   After
entering the post subject the default editor (i.e. c:ed) or the
editor specified by the
              $EDITOR
               environment variable will be
started and the article can be entered. To crosspost articles
simply add a comma and the name of the newsgroup(s) to the end of
the ``Newsgroups:'' line at the beginning of the article. After
saving and exiting the editor you are asked if you wish to a)bort
posting the article, e)dit the article again or p)ost the article
to the specified newsgroup(s).

Use the 'W' command to display a history of the articles you have
posted. The date the article was posted, which newsgroups the
article was posted to and the articles subject line   are
displayed.

Use the 'f' / 'F' command to post a follow-up article to an
already posted article. The 'f' command will copy the text of
the original article into the editor. The editing procedure is
the same as when posting an article with the 'w' command.

Use the 'r' / 'R' command to reply direct through mail to the
author of an already posted article. The 'r' command will copy
the text of the original article into the editor.   The editing
procedure is the same as when posting an article with the 'w'
command. After saving and exiting the editor you are asked if
you wish to a)bort sending the article, e)dit the article again
or s)end the article to the author.

1.24   Customizing the Article Quote String

                When posting a followup to an article or replying direct to   ←
                 the
author of an article via email the text of the article can be
quoted. The beginning of the quoted text can contain information
about the quoted article (i.e., Name and the Message Id of the
article). To allow for different situations certain information
from the article can be used in the quoted string. The following
variables are expanded if found in   the
           tinrc
             variables
'mail_quote_format=' or 'news_quote_format=':
    %A Address (Email)
    %D Date
    %F Full address (%N (%A))
    %G Groupname
    %M Message Id
    %N Name of user
i.e.,
    mail_quote_format=On %D in %G you wrote:
    news_quote_format=In %M, %F wrote:
would expand when used to:
    On 21 Jul 1992 09:45:51 -0400 in alt.sources you wrote:
    In <abcINN123@anl433.uucp>, Iain Lea (iain@erlm.siemens.de) wrote:
The quoted text section of an article is marked by a preceding
quote string at the beginning of each quoted line. The default
quote string is set to ': ' (a semi-colon followed by a space).
The default can be changed by setting the tinrc variable
'quote_chars=' to ones own preference.   A number of other
newsreaders use the '> ' quoting string. To set this one would
have to write 'quote_chars=>_' (note that '_' underline is used
to represent a space).

1.25   Mailing, Piping, Printing, Reposting and Saving Articles

The   command interface   to mail ('m'), pipe ('|'), print ('o ↩
'),
repost ('x') and save ('s') articles is the same for ease of use.

The initial command will ask you to select which a)rticle,
t)hread, h)ot (auto selected) r)egex pattern, t)agged articles
you wish to mail, pipe etc.

Tagged articles must have already been tagged with the 't'
command. All tagged articles can be untagged by the 'U' untag
command.

If regex pattern matching is selected you are asked to enter a
regular expression (i.e. to match all articles subject lines
containing 'net News' you must enter '*net News*'). Any articles
that match the entered expression will be mailed, piped etc.

To save articles to a mailbox with the name of the current
newsgroup (i.e. Alt.sources) enter '=' or '=<mailbox name>' when
asked for the save filename.

To save articles in <newsgroup name>/<filename> format enter
'+<filename>'.

When saving articles you can specify whether the saved files
should be post processed (i.e. unshar shell archive, uudecode
multiple parts etc).   A default process type can be set by the
'Process type:' in the 'M'
options menu
.

1.26   Automatic Mailing and Saving New News

Tin allows new/unread news   articles   to   be   mailed   ↩
(-M
option)/saved (-S option) in batch mode for later reading.
Useful when going on holiday and you don't want to return and
find that expire has removed a whole load of unread articles.
Best to run from crontab everyday while away, after which you
will be mailed a report of which articles were mailed/saved from
which newsgroups and the total number of articles mailed/saved.
Articles are saved in a private news structure under your
<savedir> directory (default is
$HOME
/News). Be careful of using
this option if you read a lot of groups because you could
overflow your filesystem. If you only want to save a few groups
it would be best to backup your full $HOME/
.newsrc
and create a
new one that only contains the newsgroups you want to mail/save.
Saved news can be read later by tin -R.

```
tin -M iain -c -f newsrc.mail
                    (mail   any   unread  articles   in   newgroups
                    specified in file newsrc.mail)


tin -S -c -f newsrc.save
                    (save   any   unread   articles   in   newgroups
                    specified in file newsrc.save)


tin -R              (read any articles saved by tin -S)
```


1.27 Signatures

              Tin   will   recognize   a   signature   in either
           $HOME
           /
           .signature
            or
$HOME/.Sig. If $HOME/.signature exists, then the signature will
be pulled into the editor for mail commands. A signature in
$HOME/.signature will not be pulled into the editor for posting
commands since inews will append the signature itself.

A signature in $HOME/.Sig will be pulled into the editor for both
posting and mailing commands.

The following is an example of a $HOME/.Sig file:
        NAMES Iain Lea   iain.lea@erlm.siemens.de
        SNAIL Bruecken Str 12, 90419 Nuernberg 90, Germany
        PHONE +49-9131-43402 (work)

Tin also has the capability to generate random signatures on a
per newsgroup basis if so desired. The way to accomplish this is
to specify the default signature or the group attribute sigfile
as   a   directory.   If   for   example the sigfile path is
/usr/iain/.sigs and .sigs is a directory then tin will select a
random signature from any file that is in the directory .sigs
(note: one signature per numbered file). A random signature can
also consist of a fixed part signature that can contain your
name, address etc. followed by the random sig. The fixed part of
the random sig is read from the file $HOME/.sigfixed.

1.28 Environment Variables

   TINRC Define this variable if you want to specify command line
          options that tin should be started with to save typing
          them   each   time   it is started. The contents of the
          environment variable are added to the front of the command

line options before it is parsed therefore allowing an
option specified on the command line to override the same
option specified in the environment.

TIN_HOMEDIR
     Define this variable if you do not want the .tin directory
     in $HOME/.tin. (i.e. if you want all tin's private files
     in /tmp/.tin you would set TIN_HOMEDIR to /tmp.

TIN_INDEX_NEWSDIR
     Define this variable if you do not want the .news
     directory in $HOME/.tin/.news. (i.e. if you want all tin's
     news   index   files   in   /tmp/.news   you   would   set
     TIN_INDEX_NEWSDIR to /tmp.

TIN_INDEX_MAILDIR
     Define this variable if you do not want the .mail
     directory in $HOME/.tin/.mail. (i.e. if you want all tin's
     mail   index   files   in   /tmp/.mail   you   would   set
     TIN_INDEX_MAILDIR to /tmp.

TIN_INDEX_SAVEDIR
     Define this variable if you do not want the .save
     directory in $HOME/.tin/.save. (i.e. if you want all tin's
     save   index   files   in   /tmp/.save   you   would   set
     TIN_INDEX_SAVEDIR to /tmp.

TIN_LIBDIR
     Define this variable if you want to override the LIBDIR
     path that was compiled into the tin binary via the
     Makefile.

TIN_SPOOLDIR
     Define this variable if you want to override the SPOOLDIR
     path that was compiled into the tin binary via the
     Makefile.

TIN_NOVROOTDIR
     Define this variable if you want to override   the
     NOVROOTDIR path that was compiled into the tin binary via
     the Makefile.

TIN_ACTIVEFILE
     Define this variable if you want to override   the
     LIBDIR/active path that was compiled into the tin binary
     via the Makefile.

NNTPSERVER
     The default NNTP server to remotely read news from.   This
     variable only needs to be set if the -r command line
     option is specified and the file /etc/nntpserver does not
     exist.

NNTPPORT
     The NNTP tcp port to read news from. This variable only
     needs to be set if the the tcp port is not the default
     119.

DISTRIBUTION
        Set the article header field ``Distribution:'' to the
        contents of the variable instead of the system default.

TEX2ISO
        Set the article viewer to decode german style umlaut codes
        to ISO latin1.   Value 0 has the same effect as not
        defining the variable. Use in combination with ISO2ASC.

ISO2ASC
        Set the ISO to Ascii charset decoding table character to
        use   in decoding an articles text. Values can range from 0
        to 6.

ORGANIZATION
        Set the article header field ``Organization:'' to the
        contents of the variable instead of the system default.
        This   variable has precedence over the file
        $HOME/.tin/organization that may also contain an
        organization string.   If reading news on an Apollo
        DomainOS machine the environment variable NEWSORG has to
        be used instead of ORGANIZATION.

REPLYTO
        Set the article header field ``Reply-To:'' to the return
        address specified by the variable.   This is useful if the
        machine is not registered in the UUCP mail maps or if you
        wish to receive replies at a different machine.   This
        variable has precedence over the file $HOME/.tin/replyto
        that may also contain a return address.

ADD_ADDRESS
        This can contain an address to append to the return
        address when replying directly through mail to somebody
        whose mail address is not directly recognized by the local
        host. For example say the return address is user@bigvax,
        but bigvax is not recognized by your host, so therefore
        the mail will not reach user. But the host littevax is
        known to recognize your host and bigvax, so if ADD_ADDRESS
        is set (i.e. 'setenv ADD_ADDRESS @littevax' for csh or
        'set ADD_ADDRESS @littevax' and 'export ADD_ADDRESS' for
        sh) the address user@bigvax@littlevax will be used and the
        mail will reach user@bigvax.   This variable has precedence
        over the file $HOME/.tin/add_address that may also contain
        an address.

BUG_ADDRESS
        If the 'B' command bug report mail address is not correct
        this variable should be set to the correct mail address.
        This   variable   has   precedence   over   the   file
        $HOME/.tin/bug_address that may also contain a mail
        address.

MAILER This variable has precedence over the default mailer that
        is used in all mailing operations within tin (i.e.
        replying 'rR', and bug reports 'B').

VISUAL This variable has precedence over the default editor (i.e.
       vi) that is used in all editing operations within tin
       (i.e. posting 'w', replying 'rR', follow-ups 'fF' and bug
       reports 'B').

AUTOSUBSCRIBE
       tin interprets this variable similarly to rn. It contains
       a list of patterns, separated by commas and possibly
       prefixed with exclamation points. A new group is checked
       against the list of patterns; if it matches, tin
       subscribes the user to the group without further query. An
       exclamation point negates the meaning of a match on this
       pattern, and can be used to cancel certain matches. For
       example,   setting
       AUTOSUBSCRIBE=comp.os.unix.*,talk.*,!talk.politics.* will
       automatically subscribe the user to all new groups in the
       comp.os.unix hierarchy, and all talk groups other than
       talk.politics groups (which will be queried for as usual.)

AUTOUNSUBSCRIBE
       tin interprets this variable similarly to rn. It is
       handled like the AUTOSUBSCRIBE variable, but groups
       matching the list are unsubscribed from without further
       query.   For   example,   setting
       AUTOUNSUBSCRIBE=alt.flame.*,u*,!uk.* will automatically
       unsubscribe the user from all new alt.flame groups and all
       groups starting with u (university groups) other than UK
       groups (which will be queried for as usual.)

1.29 Tips and Tricks

Tin can be pretty much be navigated by using the four cursor
keys. The left arrow key goes up a level, the right arrow key
goes down a level, the up arrow key goes up a line (page at
article viewer level) and the down arrow key goes down a line
(page at article viewer level).

The following newsgroups provide useful information concerning
news software:
    --news.software.readers (info. about news user agents
      tin,rn,nn,vn etc.)
    --news.software.nntp (info. about NNTP)
    --news.software.b (info. about news transport agents
      Bnews,Cnews and INN)
    --news.answers (Frequently Asked Questions (FAQ) about many
      different themes)

Many prompts (i.e. 'Mark everything as read? (y/n): y') within
tin offer a default choice that the cursor is positioned on. By
pressing <CR> the default value is taken.

Many prompts (i.e. 'Post subject []>') within tin can be aborted
by pressing ESC.

When tin is run in an xterm window it will resize itself each
time the xterm is resized.

Tin will reread the active file at set intervals to show any
newly arrived news.

1.30 Files

```
$HOME/.newsrc        subscribed to newgroups.

$HOME/.newsauth      ''nntpserver password'' pairs for NNTP
                     servers that require authorization.

$HOME/.tin/tinrc     options.

$HOME/.tin/attributes
                     contains user specified group attributes.

$HOME/.tin/.news     newsgroups index files directory.

$HOME/.tin/.mail     mailgroups index files directory.

$HOME/.tin/.save     saved newsgroups index files directory.

$HOME/.tin/active.mail
                     active file of users mailgroups.

$HOME/.tin/active.save
                     active file of users saved newsgroups.

$HOME/.tin/add_address
                     address to add to when replying through mail.

$HOME/.tin/bug_address
                     address to send bug reports to.

$HOME/.tin/filter    filtering file for article killing and  auto-
                     selection.

$HOME/.tin/group.times
                     list of last time all groups were updated
                     (used only by tind index daemon).

$HOME/.tin/organization
                     string to replace default organization.

$HOME/.tin/posted    history of articles posted by user.

$HOME/.tin/replyto   host address to use in ''Reply-To:'' mail
                     header.

$HOME/.signature     signature.

$HOME/.Sig           signature.
```

```
$HOME/.sigfixed      fixed part of a randomly generated signature.

uulib:active.times

                     Contains list of new newsgroups as  they  are
                     added to the news history file. Created by
                     actived as it notices new groups added to the
                     uulib:newsgroups file.

uulib:motd           News message of the day file.

uulib:newsdescrip

                     Short description of all newsgroups.

uulib:subscriptions

                     List  of  newsgroups  to subscribe first time
                     user to.
```

1.31 Bugs

There are bugs somewhere among the creeping featurism. Any bugs
found should be reported by the 'B' (bug report) command.

Coredumps when setting certain toggle options from the options
menu at article viewer level.

Coredumps when killing an article in a thread at article viewer
level.

1.32 History

Based on the tass newsreader that was developed by Rich Skrenta
and posted to alt.sources in March 1991. Tass was itself heavily
influenced by NOTES which was developed at the University of
Illinois by Ray Essick and Rob Kolstad in 1982.

v1.0 PL0 (full) was posted in 8 parts to alt.sources on 23 Aug
1991.
v1.0 PL1 (full) was posted in 8 parts to alt.sources on 03 Sep
1991.
v1.0 PL2 (full) was posted in 9 parts to alt.sources on 24 Sep
1991.
v1.0 PL3 (patch) was posted in 4 parts to alt.sources on 30 Sep
1991.
v1.0 PL4 (patch) was posted in 2 parts to alt.sources on 02 Oct
1991.
v1.0 PL5 (patch) was posted in 4 parts to alt.sources on 17 Oct
1991.
v1.0 PL6 (patch) was posted in 5 parts to alt.sources on 27 Nov
1991.
v1.0 PL7 (patch) was posted in 2 parts to alt.sources on 27 Nov
1991.
v1.1 PL0 (full) was posted in 11 parts to alt.sources on 13 Feb

1992.
v1.1 PL1 (full) was posted in 12 parts to alt.sources on 24 Mar
1992.
v1.1 PL2 (patch) was posted in 4 parts to alt.sources on 30 Mar
1992.
v1.1 PL3 (full) was posted in 15 parts to alt.sources on 13 May
1992.
v1.1 PL4 (full) was posted in 15 parts to alt.sources on 22 Jun
1992.
v1.1 PL5 (patch) was posted in 7 parts to alt.sources on 11 Aug
1992.
v1.1 PL6 (full) was posted in 15 parts to alt.sources on 14 Sep
1992.
v1.1 PL7 (patch) was posted in 10 parts to alt.sources on 15 Nov
1992.
v1.1 PL8 (patch) was posted in 6 parts to alt.sources on 06 Dec
1992.
v1.1 PL9 (patch) was posted in 3 parts to alt.sources on 20 Mar
1993.
v1.2 PL0 (full) was posted in 14 parts to alt.sources on 25 May
1993.
v1.2 PL1 (patch) was posted in 8 parts to alt.sources on 14 Jul
1993.
v1.2 PL2 (patch) was posted in 5 parts to alt.sources on 25 Sep
1993.
v1.3 PL0 (full) was posted in ? parts to comp.sources.misc on ??
May 1994.

1.33 Author & Credits

    Iain Lea   author of TIN (iain.lea@erlm.siemens.de) and
                   author of the man page on which this guide is
                   based.

    Rich Skrenta   author of tass v3.2 which this newsreader used as
                   its base.

    Bill Davidsen author of envarg.c environment variable reading
                   routine.

    Mike Gleason   author of sigfile.c random signature generation
                   routines.

    Paul Kramer   author   of intro.txt and cmdref.txt beginners
                   documentation.

    Markus Kuhn   author of charset.c and iso2asc.txt ISO-8859-1
                   documentation.

    Arnold Robbins author of strftime.c date formatting routine.

    Jim Robinson   co-author of original kill.c article kill and
                   auto-selection routines.

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