

**pine**

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<b>COLLABORATORS</b>
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	<i>TITLE :</i> pine		
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<b>REVISION HISTORY</b>
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# Chapter 1

## pine

### 1.1 Pine 3.91

Pine 3.91  
Amiga Port by Jeff Shepherd

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### 1.2 Installation

#### INSTALLATION

An installer script is supplied which installs~pine~and~copies~the~suitable~files. If you hate installer scripts, you can~do~the~following:

```
assign pine: pine3.91  
assign bin: pine:bin  
assign etc: pine:etc  
assign lib: pine:lib
```

Also, you need to have `ixemul.library` in your `LIBS:` directory. `Ixemul.library`

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is not including in this archive but can be found on aminet in dev/gcc/ixem404lib.lha.

If you have any of these assignments other than pine:~You~can~copy~the~contents of the pine3.91 directory to~the~appropriate~assigned~directory.

To be safe set your shell stack to at LEAST 25000.~If~you~have~problems~with~random crashes (especially 8000004) try~setting~the~stack~higher.

### 1.3 Running Pine from a shell

To run pine you will need to first start AmiTCP or AS225r2. You have~the~option of~logging in with AmiTCP or bypassing it. If you use login, Pine~will~take~ your~username, full name etc from amitcp:db/passwd (or inet:db/passwd for AS225r2). If not, you~can~set~the~environment variables HOME, USERNAME, FULLNAME to~your~home~directory,~username (for sending email) and your full name~respectively.

MAKE SURE THE ENVIRONMENT VARIABLES are in CAPITAL letters. Due to~a~bug~of~some kind, using setenv with lowercase letters does~not~get~recognized~properly. If you find this is the case, just reset~the~environment~with~capital letters.

Pine will make a directory called mail in the home directory~specified~in~the~passwd file or the environment variable HOME. Accompanying this archive is a blank .pinerc file. You will need to edit this file before starting for the first time. At the very~least~you~will~need to specify your inbox path.~The~SMTPserver~and~NNTPserver name are not mandatory but if you want to~send~mail/news~without~playing with the configuration afterwards they should be specified.

By default, Pine uses the IMAP protocol to access the mail~server.~To~make~Pine use the POP protocol, change your inbox~path~to~{host.name/pop3}inbox.~Using the IMAP protocol is preferred. (See doc/imap.vs.pop)

To start pine, just type pine. To get a list of command line options, type pine -h.

This should be enough to get Pine up and running. Any other~variable~including the inbox path and servers can~be~changed in the Setup-Config option from the Main Menu screen. You can get help on any configuration item by pressing '?'.  

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### 1.4 Background

#### BACKGROUND

Pine(tm) --a Program for Internet News & Email-- is a~tool~for~reading,~sending, and managing electronic messages. It~was~designed~specifically with~novice computer users in mind, but can be~tailored~to~accommodate the needs of~"power users" as well. Pine uses~Internet~message~protocols (e.g. RFC-822,~SMTP, MIME, IMAP, NNTP) and runs on~Unix and~PCs and~now Amigas.

The guiding principles for Pine's user-interface were:~careful~limitation~of~features, one-character mnemonic commands,~always-present~command~menus,~immediate user feedback, and high tolerance for~user mistakes.~It is~intended~that Pine can be learned by exploration rather~than reading~manuals.~Feedback~from the University of Washington community and~a growing~number of~Internet~sites has been encouraging.

## 1.5 Features

### FEATURES

- Online help specific to each screen and context.
- Message index showing a message summary which includes the status, sender, size, date and subject of messages.
- Commands to view and process messages: Forward, Reply, Save, Export, Print, Delete, capture address, and search.
- Message composer with easy-to-use editor and spelling checker. The message composer also assists entering and formatting addresses and provides direct access to the address book.
- Address book for saving long complex addresses and personal distribution lists under a nickname.
- Message attachments via the Multipurpose Internet Mail Extensions (MIME) specification. MIME allows sending/receiving non-text objects, such as binary files, spreadsheets, graphics, and sound.
- Folder management commands for creating, deleting, listing, or renaming message folders. Folders may be local or on remote hosts.
- Access to remote message folders and archives via the Internet Message Access Protocol (IMAP) as defined in RFC-1176 and revisions.
- Internet news support via either NNTP or IMAP.
- Aggregate operations, e.g. saving a selected set of messages at once.

## 1.6 Availability

### AVAILABILITY

Pine, Pico, and UW's IMAP server are copyrighted, but~freely~available.~The~latest versions, including source code, can be found on~the~Internet~host~"ftp.cac.washington.edu" in the file~"pine/pine.tar.Z"~(accessible~via~anonymous FTP). You can~email~myself~(jsshephe@undergrad.math.uwaterloo.ca)~for the diffs to the original~archive~or for a standalone archive. To try Pine out~from the Internet without AmiTCP or AS225R2,~you may~telnet to~"demo.cac.washington.edu" and login as~"pinedemo". There is~

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also~a~Pine~specific Internet news group~comp.mail.pine.

For further information, send e-mail to~pine@cac.washington.edu.~Pine~was~originally based on Elm, but there is little~if any Elm code left.~Pine~is~the work of Mike Seibel, Mark Crispin, Steve~Hubert, Sheryl Erez,~David~Miller~and Laurence Lundblade\* at the University of~Washington Office~of~Computing~and Communications. Pine and Pico are~trademarks of the~University~of~Washington. (\* Laurence is now at Virginia~Tech.)

The Amiga port was done by Jeff Shepherd  
<jsshephe@undergrad.math.uwaterloo.ca>

## 1.7 Reporting Bugs

Reporting Bugs

If you find any bugs, please email me (jsshephe@undergrad.math.uwaterloo.ca) stating what the problem was. Also include you computer setup~(computer,memory, AmiTCP/AS225R2 version, if you are using a network card, etc). Also~attach the .pine-debug[1-6] or the .pine-crash file that was created while~running Pine. If the bug is easily reproducible, run pine as pine -dll and~send me email with the .pine-debug file attached.

If you think this is a os-independent bug in Pine you can email the pine developers by selecting the "Bug Report" option in the main menu.

## 1.8 Running Pine from the Workbench

See  
Running~Pine~from~the~shell  
for other other important configuration

options.

To run pine, just click on its icon.

There~are~various~tooltypes~with~which~you~can~configure~pine.~After~the~description is~the~equivalent~option~used~from~the~CLI. DO NOT LOWER THE STACK VALUE LOWER THAN 25000! Any lower than that will cause crashes.

ADDRESS=<name>~~~Start~Pine~in~the~compose~screen~with~ <name>  
in~the~To~field.~ Equivalent~<name>~on~the~command~line.~

CONF=<filename>~~~Use~the~file~<filename>~as~the~pine.conf~file.  
Equivalent~to~~P.

DEBUG=<number>~~~sets~debug~level~to~<number>.~~By~default~Pine~has~a~debug~level of 2. This~is~the~same as~the~-d~option.

FOLDER=<filename>~~~Open~folder~<filename>.~ Equivalent to~-f.

KEYSTROKES=LIST - Execute a comma separated list of keystrokes upon startup of Pine. See

Using~Keystrokes  
for details.

INDEX=YES/NO~~Go~directly~to~the~index~screen,~bypassing~the~  
main~menu.~Equivalent to -i.

LIST=YES/NO - Expand list of folder collections by default.~ Equivalent to  
-l.

PINERC=<filename>~~Use~the~file~<filename>~as~the~.pinerc~file.~  
Equivalent~to~-p.

RESTRICTED=YES/NO~~Restricted~mode,~can~only~send~mail~to~oneself.~  
Equivalent~to -r.

READONLY=YES/NO - Open folder in readonly mode only.~ Equivalent to -o.

SORT=SUBJECT/ARRIVAL/DATE/FROM/SIZE/REVERSE~~Tells~Pine~how~~  
to~sorts~folders.~Equivalent to -sort.

WINDOW=<string>~~Window~setup~of~Pine.~The~window~string~has~  
the~form:~CON:x/y/width/height/title/options.~For~~more~information,~check  
the~AmigaDOS~manual.

## 1.9 DISCLAIMER

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Pine and Pico are trademarks of the University of Washington. No commercial use of these trademarks may be made without prior written permission of the University of Washington.

Pine is in part based on The Elm Mail System.

## 1.10 TODO

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Included in the pine archive is code for an imap and pop mail daemon. I will release these daemons as a separate package.

## 1.11 Requirements

- AmiTCP 4.x or Commodore's AS225R2 (NOTE: The AS225R2 version comes in an 020+ version only.) - 2 Mb of memory is a minimum. If you plan to receive large pieces of mail or like to read binary newsgroups, more may be needed. - ixemul.library. It can be found on aminet in dev/gcc/ixem404lib.lha - At least Workbench 2.04 (V37). 1.3 is DEAD.

## 1.12 Thanks

A special thanks go out to my beta testers (I hope I got your names right):

Stuart Brand <shbrand@mps.ohio-state.edu>  
Mike Castro <reiruoc@ccwc.cc.utexas.edu>  
Mark Ives <mives@mives.flg.primenet.com>  
Bruce Johnson <bjohnson@netcom.netcom.com>  
Donald Maddox <dmaddox@scsn.net>  
Michael Martin <moongie@xnet.com>  
Nicholas Munger <nmunger@oswego.oswego.edu>  
Ivan Smith <ivans@godzilla.zeta.org.au>

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And of course for Pine development team at the University of Washington who made Pine possible.

## 1.13 Using smtpost with Pine

If you want to use smtpost (eg. if you use UUCP) instead of connecting to the SMTPserver, leave the SMTPserver field in the pine.conf file and your personal .pinerc file blank. By default, pine uses the command smtpost with arguments >NIL:. You can override the sendmail command and/or its arguments by setting the environment variables SENDMAIL and SENDMAILFLAGS respectively.

## 1.14 Using keystrokes with Pine

Nowhere in the Pine documentation does it tell you how to use keystrokes with Pine. Here is how. The KEYSTROKES tooltype and the -I command line option take a comma-separated list of keys. The list acts like you pressed a key from the keyboard.

To simulate cursor and other special keys use the following:

```
CR      - carriage return
SPACE  - space bar
TAB    - tab
^<key> - CTRL-<key>
F[1-10], f[1-10] - function key [1-10]
UP     - cursor up
DOWN   - cursor down
LEFT   - cursor left
RIGHT  - cursor right
```

## 1.15 Using Pine for local mail only

Unfortunately Pine still needs AmiTCP to run so you need to get it. You don't need a SLIP connection unless you want to send mail using SMTP.

You can fake starting AmiTCP~with~the~following~script:

```
failat 21
AmiTCP:bin/login ;at your discretion
AmiTCP:bin/umask~022~
AmiTCP:AmiTCP~
WaitForPort AMITCP
amitcp:bin/ifconfig lo0 localhost
amitcp:bin/route add 127.0.0.1 localhost
assign tcp: EXISTS >NIL:
if warn
    mount tcp: from amitcp:devs/inet-mountlist
endif
```

To make AmiTCP use your real hostname instead of local host, add/replace the following line in AmiTCP:db/hosts to: 127.0.0.1 <hostname> localhost where <hostname> is your hostname. Also change localhost to <hostname> in the above script.

Set SMTPMailDir to your local mail directory. If SMTPMailDir is not set, Pine uses Amitcp:Mail/ (or INet:Mail/ if you use AS225R2).

## 1.16 Using Pine to view MIME-encoded attachments

Pine can easily send and receive email containing attachments in MIME format. To view MIME attachments you need to do the following: Set image-viewer in your .pinerc. I use vt >NIL:. Take a look at the .mailcap file in the pine directory. It contains helpful hints on setting up viewers.

If you use AMosaic, Pine can also use its mailcap file. Just delete/rename the already existing .mailcap file and Pine will find the mailcap file in ENV:Mosaic.

## 1.17 Using Pine's pipe command

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Pine has the ability to pipe attachments or messages to external commands. Normally Pine uses csh to execute the commands. With the default distribution, csh is actually sh, which has a limited search path for commands. To specify pipe commands you must use the unix pathname. Eg pine:lpr becomes /pine/lpr. In general device: becomes /device/.

An alternative is to get the excellent shell csh from Aminet. It is located in util/shell. This eliminates using unix pathnames.

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