AmiPOP

	COLLABORATORS		
	TITLE : AmiPOP		
ACTION	*NAME*	*DATE*	*SIGNATURE*
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Chapter 1

AmiPOP

1.1 AmiPOP

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              AmiPOP - A POP3 Client

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1.2 Introduction

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1.3 What it is

What it is -

  AmiPOP is a POP3 Client for AmigaDOS. It was written directly from
  the POP3 RFC (RFC #1225). AmiPOP is only a simple transport mechanism
  for moving electronic mail messages between a POP-Host, typically
  a mainframe, and your local AmigaDOS system. The advantage of POP
  over other transports such as SMTP is that all E-mail can still be
  directed to the mainframe system. This is of primary importance when
  either a dialup line is used, which has a new IP address for each
  connection, or when a user uses many machines, and wishes to be able
  to transparently read mail on all of them.

1.4 What it's not

What it's not -

  AmiPOP is not intended to be a do-everything-mail-reader-reminder-slicer-dicer
  program. AmiPOP is meant to simply transport mail from a host to your Amiga.
  That's it. Nothing else. The "Notify" function inlcuded in AmiPOP is intended
  to be a stopgap measure only, and was included as a request of an especially ←
     helpful
  beta-tester. The "Notify" function will never grow. If you want to do exotic ←
     things
  when you get new mail, use another utility, like Mike Schwarz's 'Mail-Minder', ←
     or
  Scott Ellis' (me) program 'Sabot'.

1.5 What you need

What you need -

  AmiPOP requires either the AS225r2 TCP/IP package or the AmiTCP package, and a
  machine running a POP3 daemon. (More on this later)
  AS225r2 and AmITCP require AmigaDOS 2.0 or higher, and this is therefore ←
     required
  by AmiPOP as well.

1.6 AmiPOP features

AmiPOP features -

  · AUISG compliant (or at least it tries to be!)
  · Makes heavy use of 2.0 (and higher) functions such as ReadArgs,
    utility.library, GadTools, and 2.0 functions in Amiga.lib.
  · Written from RFC 1225, not a port of a Unix or a PC application.
  · Small code size, and low system resource usage.
  · Commodities interface

1.7 Options

            Options –

             Window

             Command line
              Please read the
            History
             section for usage information not outlined
  in the above areas.

1.8 Window

            Window –

             Gadgets

             Menus

1.9 Gadgets

            Gadgets –

  Each gadget in the window may be activated from the keyboard by using
  the underlined character in the gadget label (case insensitive).

  Activating a string or integer gadget enables the information to be
  immediately typed in, and the gadget can be de-activated either by
  the RETURN key, or by cycling to the next gadget with the TAB key.

  After activating one of the string or integer gadgets, the TAB key
  allows cycling through each of the gadgets. The order is:

    · POP Host
    · How Often
    · Username
    · Password
    · Mail Box

  If "How Often" is disabled, then it is ignored, and the gadget is skipped
  during the TAB-Cycle.

            POP Host

            Username

            Password

```
                    Mail Box

                    Append to MailBox

                    Delete Messages

                    Check Periodically

                    How Often

                    Check Now
```

1.10 POPHost

```
POP Host -
```

  This is the address of the machine which is running the
  POP3 daemon. It can either be an IP address, a full
  name and domain, or just the name (if the site is in
  your inet:DB/Hosts file, or in your local domain).

1.11 Username

```
Username -
```

  Username is your login name on the POP Host machine.
  It is used in determining which mailbox to look at,
  and which password to accept.

1.12 Password

```
Password -
```

  This is the password for Username on machine POP Host.
  The Password gadget is a special string gadget which
  ill NOT echo what you type. Instead, you will see
  a bullet ("·") for each character you type. The
  Password gadget is more limited in it's editing abilities
  then the other gadget, and will only allow you to delete
  characters from the end of the password, or clear the
  entire gadget.

1.13 Mail Box

```
Mail Box -
```

  Mail Box is the FULL AmigaDOS path and filename that
  you would like the mail stored in on your Amiga.
  Most UUCP mail-readers require this be "UUMAIL:Username",
  but you are free to choose whatever you like.

1.14 Append to Mail Box

```
Append to Mail Box -
```

  When checked, this gadget will append all incoming mail
  to the file listed in the MailBox gadget. If it is
  unchecked, new mail will overwrite the mailbox. This
  gadget is most useful in conjuction with the "Delete
  Messages" gadget.

1.15 Delete Messages

```
Delete Messages -
```

  If Delete Messages is checked, it will delete the mail
  message on POP Host after it is downloaded. Caution
  is advised with this gadget, since once mail is deleted
  on the POP Host, there is no way to retrieve it.
  This gadget is best used with "Append to MailBox".

1.16 Check Periodically

```
Check Periodically -
```

  When this gadget is marked, mail will be transfered
  from the POP Host on a time schedule. This schedule
  is defined in "How Often".

1.17 How Often

```
How Often -
```

  This gadget defines the number of minutes that should
  elapse between queries for mail to POP Host. If
  Check Periodically is not checked, this gadget will
  be disabled, and have no effect.

1.18   Check Now

Check Now -

  Check Now will immediately query POP Host for mail.
  It is primarily used for impatient people who cannot
  wait for the Check Periodically time to elapse, or
  who would like the mail checked manually, instead
  of periodically.

1.19   Menus

             Menus -

  Menu options can also be accessed via their key combination (Right Amiga key).

             Hide

             About...

             Quit

1.20   hide

Hide -

  This option will close the AmiPOP window, but not quit
  AmiPOP. The window may be reopened either via the
  hotkey (If specified) or with Commodities Exchange.

1.21   About...

About... -

  Opens a requester with the AmiPOP authors name.

1.22   Quit

Quit -

  Quits the AmiPOP program. This is identical to
  sending AmiPOP a Control-C character, or clicking
  on the close box in the AmiPOP window.

1.23 Command Line

                    Command Line –

  Command line options maybe be given either on the command line
  when starting AmiPOP from a shell, or as ToolTypes when
  using AmiPOP from an icon.

  AmiPOP uses ReadArgs to process command line and tooltype
  arguments passed to it.

        Arguments:

            Username

            Password

            POPHost

            MailBox

            CheckPer

            Time

            Delete

            Append

            NoWindow

            Port

            Notify

            Cx_Popkey

            Immediate

            Quiet

            PubScreen

            Once

1.24 Username

Username –

  This is identical to the Username gadget in the
  AmiPOP window. Specifying a username on the
  command line avoids having to enter it into the
  AmiPOP window.

1.25 Password

Password –

  This is identical to the Password gadget in the
  AmiPOP window. Specifying a password on the
  command line avoids having to enter it into the
  AmiPOP window.

1.26 POPHost

POPHost –

  This is identical to the POP Host gadget in the
  AmiPOP window. Specifying a POP Host on the
  command line avoids having to enter it into the
  AmiPOP window.

1.27 MailBox

MailBox –

  This is identical to the MailBox gadget in the
  AmiPOP window. Specifying a MailBox on the
  command line avoids having to enter it into the
  AmiPOP window.

1.28 CheckPer

CheckPer –

  When given, this switch specifies that the
  Check Periodically function should be enabled. It
  is identical to making Check Periodically enabled
  in the AmiPOP window.

1.29 Time

Time –

  Time, followed by an integer will place a default
  value into the How Often gadget in the AmiPOP
  window. If CheckPer is not also given, or if the
  Check periodically gadget in the AmiPOP window is
  not active, this setting has no effect.

1.30 Delete

Delete —

  When present, this switch enables the Delete Messages
  function of AmiPOP. It is identical to the Delete
  Messages gadget in the AmiPOP window.

1.31 Append

Append —

  When present, Append activates the Append to MailBox
  feature of AmiPOP. It is identical to activating the
  Append to MailBox gadget in the AmiPOP window.

1.32 NoWindow

NoWindow —

  When the NoWindow flag is given, it instructs AmiPOP not
  to open it's window my default. This is useful when
  running AmiPOP from WBStartup, or from a script.
  The AmiPOP window may later be opened by the hotkey, or
  via Commodities Exchange.

1.33 Port

Port —

  Normally, POP3 uses port 110 on the POP Host machine.
  When the Port switch is given, followed by an integer,
  that will be used in attempts to connect to the POP3
  daemon on the POP Host, instead of port 110.

1.34 Notify

Notify —

  The Notify switch will force AmiPOP to open a requester
  when it detects that you have new mail. By default,
  AmiPOP does not notify the user of new mail.

1.35 cx_popkey

Cx_Popkey –

  This is the hotkey that AmiPOP will use. When pressed,
  AmiPOP will open it's window, if it is not already open.
  Any valid hotkey combination may be given. If Cx_Popkey
  is not specified, AmiPOP will not add itself to the
  input chain, and will not cause any system performance
  decrease.

1.36 immediate

Immediate –

  The Immediate switch causes AmiPOP to immediately check for mail when
  it is started. The default is to wait the ammount of time specified in
  the "How Often" gadget befor checking.

1.37 quiet

Quiet –

  When the Quiet flag is given to AmiPOP, AmiPOP will not open
  any requesters. This means that you will not be able to get any notice of
  errors, or get the Notify or About requesters.

1.38 PubScreen

PubScreen –

  Giving AmiPOP the name of a public screen will cause the AmiPOP
  window to open on that public screen. If AmiPOP cannot open on the
  specified screen, or if no screen is specified, AmiPOP will open on
  the default public screen (normally WorkBench).

1.39 Once

Once –

  The "Once" keyword causes AmiPOP to check for mail immediately, then exit.

1.40   Miscellaneous Notes

Miscellaneous Notes –

Pop3 Daemon

Cautions

Quitting AmiPOP

Thanks

Bugs

To Do

Which Version

A Note about Notify

Author Info

1.41   POP3 Daemon

POP3 Daemon –

A POP3 Daemon does not need root privledges to install and operate.
Any user may run a POP3 Daemon, so long as it is configured to
use a non-blocked port (typically those above 1024).

A variety of POP3 Daemons may be found on via ftp on rohan.sdsu.edu.

1.42   Cautions

Cautions –

It is possible that not all of the bugs have been worked out of
AmiPOP yet, and there are therefore some pitfalls which the user
should keep in mind.

Foremost, Delete Messages WILL delete E-mail messages on POP Host,
so be cautious. If AmiPOP encounters a problem during the
transmission of a message, it will usually abort, and keep all
the messages after and including the one with which it had
problems with, on the POP Host, but there is always the
possibility that the mailbox could be corrupted by a semi-functional
POP3 Daemon on the POP Host, so be aware that your mailbox COULD
get mangled.

If for any reason, AmiPOP must abort abruptly, it attempts to
send the QUIT signal to the POP3 Daemon, but depending on the

circumstances of the AmiPOP failure (i.e., power failure or
general system crash), this may not be possible, and a
brain-dead POP3 Daemon could be left running on the POP Host,
preventing any further POP3 connections until that process
is killed. Please review the CPU and Time limits for processes
under Unix, as well as POP3 Daemon return codes.

1.43   Quitting AmiPOP

Quitting AmiPOP -

  There have been many requests for a way to quit AmiPOP from a script. The
  simplest way to do this is to use a utility such as HandleCX, or
  CXKiller (available on Aminet), and stop AmiPOP that way. You may also
  send the AmiPOP process a Control-C signal to stop it, but quitting via
  commodities is often nicer. ;-)

1.44   Thanks

Thanks -

  Thanks for help in creating AmiPOP are far and wide, and generally
  encompass the #amiga and #amigatech group on IRC. Specifically,
  the author would like to express his deepest gratitude to
  the following people:

  Michael B. Smith - LOTS and LOTS of help with sockets, SMTP,
        NNTP, the OS, and just about everything.

  Christopher A. Wolf - Chris provided invaluable help regarding
        the commodities and ReadArgs portion
        of this code, as well as general
        help on how in the heck to get this
        POP program working.

  Ken C. Dyke -   The very cool Password gadget edithook
        would have had me stumped forever, had
        it not been for a nice bit of code that
        Ken just happened to have laying around. :-)

  Michelle R. Ketcham - She found my stupid mistakes, and also
        forced me to write AmiPOP in the first
        place.

  Tim Wadsworth -   Tim created the AmiPOP.guide file from my
        horrid AmiPOP.doc file, as well as applying the diffs
        send to me by Tomi Ollila for AmiPOP V1.6. Tim also
        compiled and tested the AmiTCP version of AmiPOP, and
        fiddled with the makefiles, and header files, to get
        things to work nicely for AmiTCP users. Loads of thanks Tim!

  Tomi Ollila -   Tomi ported AmiPOP V1.6 to AmiTCP, very soon

       after it was released, and then was so kind as to send me
       his diffs, so that AmiTCP support can be included in further
       AmiPOP revisions.

  Jeremy Friesner - Jeremy made sure AmiPOP worked with the socket.libary
       for AmiTCP...this saves me the trouble of having to get an AmiTCP
       port done before I release a new AmiPOP version. Thanks Jeremy!

  Christopher A. Wichura - Christopher fixed up the AmiTCP sections of the
       code, and did the compile for this release 1.8 of AmiPOP's AmiTCP binaries ←
         .

  David P. Duggan - David did a WHOLE lot of work on AmiPOP, and basically
       rewrote the majority of pop_dopop.c, eliminating some longstanding bugs.
       Many many thanks to David for his work.

  Hidehiko Ogata   - Hidehiko spent time on making the retrieve() function
       work reliably. Many thanks!

  Dan Murrell Jr. - Dan spend a lot of time helping me make sure things
       worked as they should, and offering suggestions for improvements.

I'm sure I'm forgetting lots and lots of people, and I hate that. They know who ←
   they are.

1.45   Bugs

Bugs -

  Some POPd's will say that mail from POPHost is from "username" rather than
  "username@pophost". AmiPOP should correct this, but it doesn't.

1.46   To Do

To Do -

  · Allow AmiPOP to get signals while it's transfering. Currently it can't
  be hidden/quit while a transfer is in progress. This is lame.

1.47   A Note about Notify

  The current implmentation of the "Notify" feature is done in such a way that the
  program is easy to maintain, and remains very small. I have had a LARGE number ←
     of
  requests to make the requester that "Notify" brings up be done in such a way ←
     that
  it will timeout, or will continue transfering files, even if the requester is ←
     not
  satisfied. I have looked into this prospect, and have concluded that it would

```
  make the code more cumbersome, and larger than need be.  If users with to have a
  reliable method of being notified when new mail arrives, I urge them to take a  ←
      look
  at another program I wrote, which IMHO complements AmiPOP quite nicely.  It is
  called "Sabot", and can do just about anything you want when new mail arrives.
  "Sabot" is mostl likely available from the location you received AmiPOP from.  ←
      If not
  please contact me, and I will be happy to provide you with a copy of "Sabot".
```

1.48 Which version...

```
  AmiPOP now includes 6 binaries in the distribution.  Here is what they are  ←
      called,
  and what the differences are:

    AmiPOP.000     Basic AmiPOP binary for AS225, any processor.

    AmiPOP.030     AmiPOP for AS225 systems with 68030 or higher processor.

    AmiPOP.030.OS30   AmiPOP for AS225 systems with a 68030 or higher processor,
          and AmigaDOS 3.0 or higher.

    AmiPOP-AmiTCP.000   AmiPOP binary for use with AmiTCP 2.2 or higher, and any
          processor.

    AmiPOP-AmiTCP.030 AmiPOP for use on AmiTCP 2.2 or higher systems with a 68030
          or better processor.

    AmiPOP-AmiTCP.030.OS30  AmiPOP binary suitable for AmiTCP 2.2 or higher, 68030 ←
        or
          higher processor, running AmigaDOS 3.0 or better.


  "68030" binaries will probably also work on 68020 systems, but I make no  ←
      guarantees.
  Remember, the CPU cycle you save, could be your last.
```

1.49 Author Info

```
Author Info -

  The author of AmiPOP may be contacted at:

  Scott Ellis : sellis@rohan.sdsu.edu
      sellis@gi.com
      ScottE on IRC
      3640 Mt Everest Blvd, San Diego, CA, 92111 (USA)

  Please feel free to contact me, and let me know if you find any bugs
  in AmiPOP, or if you find any more efficient ways of doing things.
  I'm interested in hearing if anyone actually USES this program, or if it's
  just me. ;-)
```

The source and binary to this program are freeware. Do with it whatever
you like, just remember to give me some credit if you get rich and
famous.

The pop_dopop.c file, and miscellaneous other things are from David P. Duggan.
Any thanks for the well-workingness should go to him as well. David put in quite
a lot of time making AmiPOP perform flawlessly. All good stuff is his, all bugs
are mine. ;-)

1.50 History

History -

  1.0 - Initial release

  1.1 - Fixed a few parts of the code where it was possible that we could
        do something with a window that wasn't opened yet.

        Attempted to fix End Of Message problems.

  1.2 - End of Message problem fixed some more. ;-) Still a big kludge.

        Added busy pointer during dopop() routine.

        Changed "Bummer" to "Ok" in most requesters.

        Minor reorganization.

  1.3 - Bug Fix.

  1.4 - Released with INetUtils via Michael B. Smith. Thanks Michael!

  1.5 - Major Code changes.

        Variables now dynamically allocated to reduce executable size.

        Adding of "From" header revamped.

        Added forgotten PrintError() in ReadArgs() section! Oops!

        Fixed longstanding bug of missing the first bit of a message when it was ←
          sent
        in the same packet as the +OK string. Fixed now.

        INetUtils release delayed due to circumstances beyind my control. V1.5
        released with INetUtils-1.0.

  1.6 - Moved 2 checkboxes over a tad, in hopes of avoiding conflics with window ←
        border
        when using certain fonts.

        Changed location of "Notify" window in code, and also make AmiPOP sendstat()
        after the "Notify" window is satisfied, in case new messages arrive.
        Thanks to Stan Burton for that suggestion.

1.7 - Finally fixed the checkbox font rendering...really, honest, I did this ↩
    time.

    Reduced code size by performing some magic. (hehehe)

    Added PubScreen keyword, which should have been in there from the beginning.

    AmiTCP version added by Tim Wadsworth.

    Minor header and makefile shanges by Tim Wadsworth.

    AmiPOP.guide made by Tim Wadsworth. (revised by me)

1.8 - Added Async I/O routines to improve speed when writing the mailbox.
    Routines courtesy Vertex/Martin Taillefer.

    AmiPOP now correctly "Hides" when the window closegadget is clicked,
    rather than exiting.

    AmiPOP now lists the current MailBox in the Commodities Exchange
    information window.

    AmiPOP now doesn't delete a message from the POP Host if there is a problem
    writing it to the local mailbox.

    Now use the sprintf() in amiga.lib, to chop 1.7k off the executable size.
    Minor changes to the sprintf() format definitions needed to accomodate this.

    Added QUIET and IMMEDIATE options.

    Integrated new ParseParameters() code from Chris Wolf. Thanks!

    AmiTCP code now integrated into main AmiPOP code. Thanks Chris Wichura!

1.9 - Now uses __AMIGADATE__ for version string.

    Date compiled now appears in "About" requester.

    Fixed minor bug with finding "From " in message headers.

    No longer chops off last CR at end of message.

    Removed some pointless sprintf()'s.

    No longer relies on SAS's autoopen/close stuff.

    Modified pop.h so that the AmiTCP version compiles easier.

1.10 - Updated ASyncI/O code to latest version.

    Moved GTMN_NewLookMenu to the right place, so now the menu's really
    do look good. ;-)

    Attempts to fix weird "From " header insertion problems. Thanks to
    David Duggan for lots of help in tracking this down.

Commodities information changed. Now AmiPOP name is based on mailbox,
not username, as it should have always been. Also, the Information field
shows 'Mailbox for user@host' to be more descriptive.

AmiPOP now uses nearly RFC-822 compliant headers. AmiPOP doesn't insert
timezone information, but other than that, they are RFC compliant. Many
thanks to Michael B. Smith for some nice effecient code for this.

Changed all sprintf() references to DoFmt() references. This saved a little
space, since the sprintf() from amiga.lib doesn't get linked in.

1.11 - Fixed a glaring bug with parsing "From " headers once more.
    This bug is really starting to piss me off. ;-)

1.12 - Fixed longstanding problem with the Commodities interface which
    could cause an enforcer hit or a crash when starting AmiPOP a second time
    with the same parameters. Thanks to Kai Iske for help in tracking this down ↩
        .

1.13 - Changed error messages to be more descriptive.

    Added "Once" keyword to make AmiPOP quit after checking mail.

    Changed behaviour of starting AmiPOP twice with the same parameters.
    Now, this causes the AmiPOP process with those same parameters to exit.

1.14 - AmiPOP no longer gets messages in reverse order. This "feature"
    had been in there since the the beginning. I wonder why I never noticed it?
    Thanks to Erwin Zwart for informing me of this.

    AmiPOP doesn't send the "HELO" greeting command anymore. Appearently this ↩
        was
    causing some problems with certain POP3 daemons....hope nobody is using a ↩
        braindead
    daemon that needs it! Scott Thomason found this oddity. Thanks Scott!

    Messed with message truncation problems once more. I'm still stumped... ↩
        please...
    someone take a look at this code and see where the loophole is!

1.15 - It's fixed! "From " problems, and message combining are all
    fixed, thanks to the wonderful work of David Duggan in fixing those
    longstanding bugs. All AmiPOP users (Especially me!) owe him a great big
    "Thank you!". David put in a lot of time (and trashed messages) to get
    this code working.

    Thanks to Hidehiko 0gata for looking into the "From " problem as well. He
    did find an error, but David's changes eliminated the need for Hidehiko's ↩
        fix.

    I've gone back to the old way of having AmiPOP open it's window if you
    try and run it twice with the same parameters. There were quite a few
    users who wanted this the other way, but I just got too many questions
    and complaints about the change to warrant keeping it. Besides, AUISG
    says it should open the window.

    If the Password field is blank, the password is not sent. This should help

```
     some people using Kerberos.


1.16  - Added in the total number of messages in the titlebar during transfers,
     so that it now says "Retrieving x/y".  Thanks go out to Dan Murrell Jr. for
     reminding me about this.

     Added WinX and WinY keywords to determine where the window appears.
     Kai 'MagicCX' Iske has been bugging me about this forever, since it should ←
         have
     been in v1.0. ;-)  Thanks Kiske.

     Made the zipped window zip to the same coordinates as the original window ←
         under
     version 3.x of the OS.  2.x users will get the old behaviour.

     Changed all references to "MailDir" to "MailBox" to help out with some ←
         confusion
     as to whether it should be a path, or a path and filename.  Thanks to
     Stephanie Sullivan for reminding me of the "MailDir" problems.

     AmiPOP now correctly handles long connect messages.  Before it was assuming ←
         the
     initial message would fit in BUFSIZE.  This was wrong. ;-)  Thanks to NTT ( ←
         Sorry,
     can't remember your real name) for finding this bug.

     The AmiPOP window now blocks input while a transfer is in progress.  I ←
         started
     make it respond to input, but decided blocking was easier. ;-)

1.17  - Recompiled with SAS/C 6.55

     Added "#undef memset" to pop.h, so that SAS's buggy inlined memset() isn't ←
         called.

     Fixed problem of leaving "Connect" message in titlebar if connect failed.
     Thanks to Brian Cerveny for nagging me about this one. ;-)

     Fixed problem of "I type a new username, and it doesn't change it" thingy.
     I really munged the username/password/mailbox/pophost string gadget handling ←
         ,
     when I was trying to cut code size.  Fixed now, and we only grew by a few ←
         bytes.
     Many people reported this problem, but I never could repeat it.  I'm just an ←
         idiot.

     Added some v39+ specific features for OS 3.x specific version.

     Added a bit to the Commodities code, so that the "Active/Inactive" status of
     AmiPOP is always accurate.

     Fixed problem with Password string gadget entry.  The password was always ←
         being
     copied as '·' rather than the real password.  Oops, dunno when I broke this.
     Thanks to Bill "Cryo" Coldwell (billc@warped.com) (he insisted I put that in
     there!) for bringing this to my attention.
```

AmiTCP versions are now compiled with AmiTCP 4.0 includes. It's still a big
pain in the butt.

smakefile has some options added to help in making AmiPOP distributions.

Password hook had another problem when activating it via tab-cycle, or ←
    hotkey; it
would show the first character typed as plain text. Oops. ;-) Thanks to
somebody who wishes to remain nameless for helping me out with this. ;-)

Added "TITLEBAR" switch. When used, this will cause AmiPOP to appear in the
'zipped' state of just a titlebar.

AmiPOP will now check for mail immediately if it recieves a Control-F.   ←
    Thanks to
Jim Shaffer for suggesting this feature.

1.18 - Integrated the AsyncIO routines from from the AsyncIO4 archive on Aminet ←
    .
    This entailed a few modifications to the header files. No big deal.