08472000-0

COLLABORATORS

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WRITTEN BY		May 28, 2025	

REVISION HISTORY

NUMBER	DATE	DESCRIPTION	NAME

Contents

Chapter 1

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1.1   NetStat 1.7

```
          Netstat 1.85

About the sourcecode...

Please read the 'Tooltypes', and the 'Prefs' sections.
things have been changed!!

Copyright~and~stuff~

Introduction - What this lark is all about?
Requirements - Are you upto it bigboy?
Installation - Where to put yer bits!
Features - This package is bulging!

Whats~New
  Updating~from~older~versions

Using - If you don't know how, well....
   Prefs
   ToolTypes~and~CLI~args
   Plugins
   Commodities - Bizarre and unusual implimentations R us!
   Arexx!!

The Plugins
   NetAnalyser - Erm, can't think of an innuendo
   NetSpeak

   The~API (If you can call it that!)

Hints~'n'~Tips

History - Where it's come from
Future - Where it's going
Known,~erm,~features!! - What's wrong!

Thanks
```

        The~Author - Who cares anyway!

1.2   NetStat - Legal Stuff

1.3   NetStat 1.7 - About

NetStat 1.7

The what's, the why's and the wherefore's...

Okay, so I started this as a programming exercise. I wanted to start
programming again, and I'ld previously bought Blitz basic 2 on a whim,
so I thought I'ld start with something simple...

I wanted a timer program that would not only sense automatically when I
went on and off line, but could also create and analyse a log file that
would make sense in terms of the phonebills I recieve. Most of the
programs I'ld downloaded from Aminet created logfiles, but it was a tedious
matter of editing the resulting file by hand, or downloading a third party
logfile analyser to get something close to what I wanted. Thus NetStat
was born.

Boring really wasn't it :)

Updates of this program, when I get round to it, can be found on my
website, at:
Http://www.so-watts.demon.co.uk/contr.html

Check in every now and again.

1.4   Netstat Requirements

```
Requirements

I'm not going to be lame and say 'An Amiga' - Duh!!!

WB3 - Well, it should be 2.04 compatable, but seeing as I can't get
      it to run properly, I'ld say 3.0 was a minimum requirement here
      Sorry!!
Xen.font 8 - Don't flame me!! I'll get round to font sensitivity in a bit.
      In the mean time, it looks nice on my workbench, and the number
      of programs I've used that are fixed at 11 point are too
      numerous to mention.  This is my little vendetta!
Reqtools.library - Everyone's got this haven't they?

Having just tried it on my old 500, I would say it is desirable to have a
fast computer!

Tested On:

A1200/30-50 KS3.0 2meg Chip 16 Meg Fast
A500  KS2.04 0.5meg Chip 2.5Meg Fast (Died Horribly!)



No efforts are made to check for the existance of any of these, so if the
program won't start, giving funny error messages, then it's something to
do with these three things!!  Probably!
```

1.5   NetStat - Installation

```
Installation

Well, until I get round to writing an installer for this little gem, I'm
afraid it's manual installations all round!!  Still, it's easy enough. Just
drag the unarchived directory into a suitable place on your hard  drive,
and add the assign "netstat:" to point at your chosen directory.  I tried
to avoid having to make an assign, but it was so much easier in the long
run to make it!  Sorry!

Set up the Tooltypes, and you're away!
```

1.6   NetStat - Features

```
Features

Some stuff :)

- Cool logfile analyser that supports VAT, and discount rates!!
- 5 time band settings Configurable online time warning (for  when you
  only want to spend 10  minutes online) :)
- Timeout Warning - Takes you offline after a set period
- Second temporary log that gives 'to the nearest minute' details in case
```

```
  of a crash!
- Autosenses when you go on and offline (With AmiTCP & SLIP), but
  see HINTS)
- Now autosenses Modems Carrier detect through internal serial port.  *NEW*

- Esoteric Commodities Functions!
- Arexx Control
- Supports 'plugins'
- Comprehensive cost and time totalling configurations  *NEW*

I'm always open to suggestions! as well! :)
```

1.7 Whats New?

```
What's New for 1.84

* Added modem carrier detection
* Added daily/session/normal totalling
* Added 2 new tooltypes to configure new bits.  Please read the TOOLTYPES
  page.

What's New for 1.83

* REMOVED Holiday feature - seems I was wrong about BT's generosity.
  Ooops, sorry :/
* Totally chnaged Crash logging works.  Now much simpler and quicker.
  After a crash, you'll no longer see 'Netcrash' in the timer window, but
  it is working!!
* New 'BARLENGTH' Tooltype

What's New for 1.82

* Substantially reduced CPU load (I think)
* New 'UPDATE' tooltype in Analyser
* Minor bugfixes


What's New for 1.81

* Now possible to Iconify
* Can now define period between ENV: updates
* Second plugin 'NetSpeak' released

What's New for 1.8

* Added Arexx Control!
* Added 2 more time zones (Now 5 Zones)
* Added 'Bank Holiday' setting for W/E pricing on a weekday
* Analyser now prints a small summary logfile
* Oh yes! More Bug fixes! >:)
```

1.8 Netstat - Usage

Usage

Urm, click on the icon ;) (or alternatively, type netstat:netstat into
an open shell window - oh, you know the business!)

There are a number of TOOLTYPES or CLI args for
the main executable, which you may like to set first. Tooltypes take
precedance over any settings in the prefs file.

The first time you use the program you'll see an error message saying
that the prefs file couldn't be found. The default prefs are set to
British TeleScam's current time bands and rates BEFORE VAT. Press
'LAmiga P' to go to the prefs~screen. Set your prefs and
remember to save the settings before you leave the screen.

When you go online press 'Start', when you come offline press 'Stop'.
Pretty easy really isn't it :)

You may want to check out the MENU's and TOOLTYPES sections for more
configuration option though. And then there's NetAnalyser!!!

1.9 Netstat Plugins

Plugins

The plugins feature is still somewhat of a work in progress. At the
moment, just drop a program into the plugins directory and it will appear
on the 'External' menu. It is also possible to place Arexx scripts here (
but not Dos as yet).

Selecting the plugin from the menu will either run the program as a
background task, or run the script. If a script is run, Netstat will
appear to have stopped until the script is finished. This is normal, and
is somewhat unavoidable I'm afraid. Therefore, if you use a script to
launch a program, make sure that the script 'RUN's the program (starts a
new process.)

N.B. I think it is quite likely that any program run this way will act
as if it was launched from Shell.

1.10 Netstat Commodities

Commodities

A couple more features are available through the commodities Exchange
program.

Clicking on the 'Show Interface' button when Netstat is on a different
screen will make it appear on the current used Public Screen. So you can
have it appear on your Web Browser screen if you so desire!!

Clicking on the 'Hide Interface' button will cause it to 'iconify'.

Clicking on 'Remove' will log your call (if wanted) and quit the program.

Clicking on the Active/Inactive cycle gadget does sod all!!

It is also possible to set up a hotkey (default is 'CTRL LALT n'), which
cycles between the 3 size states, Maximized, Minimized and Iconified. In
a minimized state, a title bar will be displayed with time online and
cost.

1.11   Netstat Arexx

The Arexx Interface

The Arexx Port for the first copy launched is 'NETSTAT.1', then
'NETSTAT.2' and so on.

Only a couple of commands are available at the moment. It's kind of
difficult to imagine the need for any others, although I have considered
allowing all the prefs to be changed via arexx. Might result in some
interesting functions. Let me know what aspects of the program you want
to be controllable via Arexx.

At the moment, only Netstat is controllable from arexx. I'll probably
get around to adding arexx to the Analyser at some point.

The Commands

```
START   - Do any of these actually need explaining?
STOP    - I think not!! :)
RESET   - All commands do exactly the same as the menu options.
QUIT    - At least, they should :)

EXTERNAL - Launches an external 'plugin'.  EXTERNAL 0 would launch the
           first plugin on the 'External' Menu.
SCRIPT - Runs an arexx script from the 'arexx' menu.  Syntax as EXTERNAL.
SIZE  - This has 3 values.   0=Maximize Window
                             1=Minimize Window
                             2=Iconify Window
```

Remember - the address, and commands are CASE SENSITIVE!!!

1.12   NetStat Analyser

NetAnalyser

When started, the NetAnalyser will automatically scan the logfile as
defined in the TOOLTYPE 'LOGFILE'. If this isn't present then it will
look in S: for a valid file. The program will quit if neither is found.

If a valid logfile is found, then the Analyser will build a database of

calls and costs. This may take a while if your logfile is particularly
big.

Once the database is built, a small window will open with a few results
displayed. First call, last call and number of calls. You will then be
given the option of calculating costs from a certain point, either by
entering the call number, or by clicking on the 'L' gadget and selecting
a call from the Listview.

It's then just a matter of clicking on the 'GO' button, and NetAnalyser
will add up all the costs from the point you selected.

At this point you will be given the option of deleting some of the
records in you logfile. Selecting 'maintenance' from the menu will pop
up another small window with a single numner and date. Again the value can
be entered by either typing a number into the box, or clicking on the 'L'
gadget and selecting a date from the listview. This time however, you must
select the last record you want to delete! Click on go and your logfile
will be ammended.   Cool huh!!

Alternatively, clicking on the 'More' button will pop up another window
displaying a couple of graphs and some averages. Trivial stuff, but fun
to know I think :)

New for v1.35

Leaving NetAnalyser on the first totals screen whilst having NetStat
online will dynamically update the totals! (Only if 'UPDATE' tooltype is
present).

I think that's it anyway!

1.13 NetSpeak

NetSpeak

I can't be bothered to write a whole new section for this, so here's the
very basic .readme that I wrote for my registered users.

****

NetSpeak 1.1 - A *very* experimental plugin for NetStat 1.8 (i.e. use at
your own risk)

This one's for you Bablos, you asked for it - you got it :)

Netspeak will play a sample at a given interval whilst NetStat is running
and 'Online'.

When first run it willl analyse the script 'netstat:samples'. In example
script is included, but the basic format is:

```
1 doh 5 woohoo repeat 10
```

This plays the sample named 'doh' on when the online counter reaches 1
minute, then woohoo at 5 minutes and every subsequent 10 minutes (15,25,35
etc).

The samples to be played, must be in the directory 'netstat:sounds' and
must be in Amiga IFF format.

*** WARNING ***

For some unknown reason, NetSpeak has been known to guru the machine if
quit with Netstat still running. I have absolutely no idea why it does
this,
but I'm looking into it. It exits just fine without Netstat running, so
make
sure you quit Netstat first.

I am not to be held responsible if you lose any important information when
running this program. You have been warned.

* Known BUGS/Features *

Occasionally guru's machine if quit with Netstat running Guru's machine if
quit while sample is playing Actually plays sample 1 second too late – eek,
major one this ;)

No other known bugs (probably means there are loads)

1.14   Netstat - API

The Plugin API

This isn't really a proper API, and I doubt very much whether anyone will
ever use it, but I thought I better include it anyway.

Basically, the only way of Netstat giving information to other programs
is (potentially) via Arexx and environment variables. At the moment,
there is no way of getting anything via the arexx port, although if it's
asked for then I'll include it in a later release. However, two
environment variables are set when Netstat is online, these are 'NetTime'
and 'NetCost', giving total time (in seconds) and total cost of calls so
far. There are more variables floating about internally, and again, if
they are requested I'll include them. The variables are updated
depending on the SETENV tooltype (default is every 1 second).

And that's it.

Boring really!!

1.15   Netstat Hints 'n' Tips

Hints 'n' Tips

AmiPPP, PPP and Miami

I haven't found a way of autosensing these as yet (Miami is still relying
somewhat on me bludgeoning the Blitz list people into explaining
Arexx integration!) In the mean time there is a real kludgy way of
achieving the desired results.

Most people use arexx scripts to launch there TCP stacks or whatever, and
AmiPPP has a little feature that allows you to execute a script when it
goes on and offline. To utilize autosensing with these types, just
ammend your rexx scripts with the following lines:

When going Online (preferably after the modem has connected)

address command
setenv slip0state Online

And when going offline:

address command
setenv slip0state Offline

Hopefully this should work!

Alternatively, you could just use Arexx with the START and STOP commands
:)

1.16   NetStat - Prefs

 Prefs

The pref~window is split into a number of different sections.

Primarily, there are the three time bands. Times must be entered from
left to right in 24 hour format. Obviously, time bands must meet and
cover the whole 24 hour period. The error checking for this at the
moment is somewhat sketchy. I think it is possible to set rather odd
time bands. If you do do this, then don't blame me if your harddrive
formats itself or something ;) (N.B. Nowhere in this program is there a
routine that formats your harddrive!!!) :)

To the right of the 5 time bands are the prices for each band. Prices
are in pence per minute. (Very English I'm afraid!)

The second section has a number of gadgets. From top to bottom they are:

Timeout: NetStat can give you a warning when you have been online for a
set period. The timeout value is set in minutes. When you readch the
timeout period, you will be asked if you want to log off. If you do then

the script defined by the tooltypes 'SCRIPTFILE' and 'ARGS' will be executed. To disable the timeout feature, just give it a value of 0!

Logging: A check gadget that decides whether you want your calls to be logged or not. Calls are logged to the file specified in the logfile string, or by the LOGFILE tooltype.

Delay: This is there because it may take a little time for the autosenseing feature to kick in. Count the number of seconds it takes from when the remote modem picks up, to the time Netstat starts, and bang the number into the box.

Crash Logging: Check this box if you want a 'to the nearest minute' log of your call incase of crashes (very useful I find). Crash logs will be analysed and added to the logfile the next time Netstat is started.

Currency: Type in the symbol that your country uses for it's currency.

Totals: Netstat has three modes of operation. 'Single', 'Session' and 'Daily'. In Single mode, each call will be totalled seperately. With Session, every call that you make while Netstat is running will be totalled together, giving you a running cost. Daily is similar to Session, only a small file is written to disk after every call. Netstat can then show your totals even when it has been quit and started again. Daily totals are reset at Midnight even if you are still in the same session. This may change in the future. See also the tooltype SHOW.

Show Date: With this checked Netstat will display the date in the main window. You can now use Netstat as a complete WBClock replacement :) N.B. Changing this while Netstat is running might have strange side effects to the display. Best to save the prefs, then quit and restart. See also SHOWDATE.

Format: This gadget is inactive unless Show Date is selected. Users have the choice between showing dates as dd/mm/yy or mm/dd/yy. See also DATEFORMAT.
N.B. Changing this will only have affect after the next hour change. Wierd that! :)

Hotkey: Type in a valid hotkey in the box provided, and at the touch of a few buttons you can have Netstat jumping all over the place :) (See Commodities

Logfile: A string gadget to say where you want you logfile kept. Default is Netstat:data/netstat.log.

Save: Save your prefs! Wierd!

Use: Use your prefs. Strange!!

And that's it really!

1.17 NetStat - Tooltypes

Tooltypes and CLI arguments

NetStat

CLI arguments are exactly the same as there TOOLTYPEs.

Settings made with tooltypes take precedance over settings
in prefs files. Bizarrely, at the moment CLI args don't! :/


```
WINX=x          - Sets the X position of the main window
WINY=y          - Sets the y position of the main window
MONITOR=type    - Decides which type of Online monitoring you require.
                  Currently only supports the values 'SLIP', and 'CARRIER'.
                  SLIP is useful for those with AmiTCP and slip device,
                  whereas CARRIER can be used with all TCP stacks, this
                  method may not work with serial cards though.  Netstat
                  can also be stopped and started via it's Arexx~port.


PREFSFILE=file - Sets the full path to the prefsfile.  Strange that!
                  The default is 'Netstat:data/netstat.prefs'.
LOGFILE=file    - Sets the full path to the logfile.  It's useful if this is
                  the same as the NetAnalyser tooltype!
                  The default is 'Netstat:data/netstat.log'.
STOPSCRIPT=file - This is used in conjunction with the TIMEOUT feature.
                  Netstat can automatically execute a specified script that
                  will terminate your connection to the internet
ARGS=args       - Sets the arguments (if any) needed for your STOPSCRIPT
SETENV=secs     - Number of seconds between ENV: updates (default=1)
SMALL/S         - Starts the program off minimized to a bar.
ICONIFY/S       - Starts the program Iconified.
BARLENGTH=length - Specifies the length of the title bar when minimized.
SHOW=type       - Can be either 'SESSION' or 'DAILY'.  This affects how
                  Netstat displays subsequent calls.  It can either, show
                  a total for the number of calls since you started the
                  program (session), or the total calls you have made
                  today (daily).  N.B.  For daily totalling, a small file
                  has to be written to your harddrive after every call.
                  This is unlikely to cause any problems! The default is
                  to show the totals for just the current call.
 SHOWDATE/S     - With this tooltype set, the date will be displayed in the
                  main window.  (See also 'DATEFORMAT')
 DATEFORMAT=n   - Can be either 0, or 1. 0=dd/mm/yy 1=mm/dd/yy.  Pretty
                  irrelevant if SHOWDATE isn't set.  Default is 0.
 STARTDAILY=n   - If you have SHOW=DAILY set, then this will affect what
                  Netstat considers a day to be.  On previous versions, a day
                  was from 00:00 to 23:59, this can now be set to whatever
                  you want.  I.e, from 07:00 to 06:59.  Numbers must be in
                  the range 0 to 23, and only whole hours are excepted.
```


N.B. All filenames should be outside quotation marks. I.E.
LOGFILE=s:netstat.log NOT LOGFILE="s:netstat.log"

N.B.2. All though you can have both 'SMALL' and 'ICONIFY' specified,
there really is no point. It won't do any damage though (I think) :)

NetAnalyser

LOGFILE=file   – Points at where your log file is kept. Set this to be the
                  same as the tooltype for NetStat.
VAT=rate%   – Adds the set percentage VAT to the total cost of your
                  calls. Remember to only use this if your call prices
                  are set to NOT include VAT in the main prefs.
DISCOUNT=rate% – Subtracts the set percentage from your call cost total.
                  This is for people who have set there ISP on BT's Family
                  and Friends (10%), or who have Premierline (15%). I have
                  both for a whopping 25% off, and boy do I need it :)
BILLFILE=file   – Points to the file you would like the summary reports
                  outputted to.
UPDATE/S   – If this tooltype is present and NetStat is currently
                  running and Online, then the total time and cost will
                  dynamically update.
DOLLAR/S   – Show's prices with the '$' sign instead of '£'.

NetSpeak

SCRIPTFILE=script – Points to the file that contains the description of
                    which samples to play and when. Default is
                    'Netstat:samples'
SAMPLEDIR=dir   – Directory in which all the samples are kept. Default
                    is 'Netstat:sounds/'

1.18   NetStat - Menus

Menus

NetStat

    Main

        – Netstat
            Prefs – Opens the Prefs screen
            Info – Opens a screen displaying current time band and
                    price.
            About – Brings up the 'About' window. D'uh!! :)
            Quit – Quits the program. First stops the timer and logs
                    the call (if logging is enabled).
        – Control
            Start – Starts the timer
            Stop – Stops timer and logs call (if logging enabled)..
            Reset – Online cost is cumulative. This resets cost back to
                    zero, stops timer if started and logs call etc...
            Kill Daily – Nukes the daily totals and Resets everything.

        – External
            Launches a program in the 'Plugins' directory
        – Arexx
            Launches an arexx script from the 'Arexx' directory

    Prefs

```
            - Load    - Pops up a file requester and loads a prefs file in.
            - Save    - Saves the current prefs settings.
            - Save As - Saves the prefs under a different name.
            - Reset   - Resets all settings to the default.
            - Exit    - Quits prefs and goes back to main window.
```

1.19   NetStat - History

2/3/98

* Released source code to public domain. I can't be arse with it any
  more! Sorry about the state of the code.

20/8/97

* Will now allow multiple Arexx ports, and multiple commodities
* New 'STARTDAILY' tooltype

?

* New progress indicators for NetAnalyser

5/7/97

* Made loads of changes to prefs GUI, and to prefs files. Made prefs file
  convertor to get over change. Waste of time really!
* Added a locale of sorts. User definable currency symbols.
* Added a date gadget for those that want

4/7/97

* Added basis of daily totalling.

3/7/97

* Added preliminary carrier detection to Netstat.

21/6/97 - NetAnalyser V1.38

* Fixed problem with ?'s appearing in max values and stupidly long log
  files
* Added scaling to silly stats graphs. Should stop the graphs 'maxing
  out'.

17/6/97 - NetAnalyser V1.37

* Fixed 'stack overflow' problems with large logs
* Added daily averages to Silly Stats
* Added progress indicator when building database. Why won't this work
  when analysing though?

```
27/5/97 - V1.8.3 etc
```

* Removed 'Holiday' feature. It's a popular conception that BT charge
  weekend rates on a bank holiday, but upon checking my phone bill from the
  last one, it seems I was wrong. Whoops! Sorry :/

```
13/5/97
```

* Totally changed the way that Crash Logging works - much easier, much
  quicker. I have no idea why I implimented it the way I did before!

```
12/5/97
```

* Fixed CrashLog routine again. Whoops
* New 'BARLENGTH' Tooltype Added

```
29/4/97 - V1.8.2/V1.36/V1
```

* Fixed a silly little bug in NetAnalyser that calculated dynamic totals
  wrong. Whoops!
* Added 'Update' tooltype to Analyser, incase people don't want dynamic
  updates.

```
20/4/97
```

* Discovered I'ld broken the crashlog routine. Fixed again!
* Reduced CPU load a little more. Makes it a bit unresponsive!

```
16/4/97
```

* Managed to get CPU load down to around 3% when in normal mode

```
11/4/97 - V1.8.1/V1.35/V1
```

* I'm a bit behind on my history. V1 of Netspeak done.
* Added ability to Iconify program
* Added definable period for Env: settings
* More tooltypes and arexx commands to reflect these additions

```
29/3/97 - V1.8/V1.35
```
* Added bank holiday stuff

```
20/3/97
```
* Added the ability to quit with Ctrl-C from shell.
* Cleaned up code a bit.
* Fixed a small bug in Analyser.

```
18/3/97
```
* Added Arexx control to NetStat!!!!!

```
17/3/97
```
* Added another 2 time zones in prefs - resulted in yet another change in
  the prefs file.
* Fixed a rather dramatic bug that caused an infinite loop in the crashlog
  if it held a value greater than an hour.
* Added a small summary log option in Analyser. Prints a text file with

    analysed totals. Useful for keeping track of your bills.
* Realised I'm getting lost in my own code. Need to anotate a bit better.

12/3/97 - v1.75/v1.33
* Added Definable Hotkey (minimize/maximize/jump screen)
* Added Delay factor
* Changed a bit of internal code, probably created a load of bugs in the
   process!
* Changed Prefs file format again - sorry!

10/3/97 - v1.74/v1.33
* Finally sorted out the problems with the Listviews. They now behave as
   they should after logfile maintenance!
* Changed the choice section, so you can now analyse a range of calls.

9/3/97
* Analyser now shows daily totals - just looks like a simplified logfile
   really.
* Fixed some bugs that cropped up in the averages bit. Switched to
   floating point maths. Seems to have done the job!
* Fixed a problem in the plugins section that caused Netstat to seem as if
   it had stopped. However, this is a partial fix, as icon tooltypes in
   plugin are ignored. :/

6/3/97
* Added more stats to the NetAnalyser. Now displays a couple of graphs,
   plus some averages. Silly stuff really! :)

4/3/97 - 1.73
* Added 'plugin' support. This is more for future stuff as there's no API
   as yet. Still working on this.
* Possibly finally got timeout feature working. Should run both Dos and
   Arexx scripts!
* Added CLI arguments at last - Now startable from Shell!
/ Unfortunately, for further ease of programming, added the need to make
   the logical assign Netstat:
* Added 'SMALL' tooltype - Starts the program off minimized

2/3/97
* Fixed a small bug in the crash log routine that caused the program to
   write an invalid logfile if the computer crashed when online for less
   than 1 minute!
* Tooltypes now saved to icon when prefs are saved
* Finally added a somewhat esoteric commodities exchange interface
* Reversed the history file as I was bored of scrolling to the bottom to
   add stuff :)

25/2/97 - 1.72
- Released a version to Aminet, then realised that there was a small bug.
   Whoops. Sorry guys :/ Fixed now though!

23/2/97 - 1.71
* New Feature (Whooo!!) - Crash Logging. If selected, a small file is
   written to the hard drive every minute. This provides a 'to the nearest
   minute' log of your call in the event of a crash! The crashlog is
   analysed at startup, and a proper log record is made. Coool!! :)

20/2/97 - 1.7
* Changed error message routines so that all errors are reported using
  reqtools requesters. They don't look as nice, but it's a damned site
  easier to do, and requires less code. Needs reqtools.library though!
* Almost got the Timeout feature working now! Having problems getting
  it to run external scripts though :/
* Sorted out a couple of gliches in the prefs loading error trapping, and
  the 'save as' routines. Late night coding has it's drawbacks!
* Changed the 'About' window to a retools requester. Took out the stupid
  graphic that was causing me loads of hassle. Doesn't look quite as nice
  but it's more functional!

18/2/97
* Changed Cyclegadgets to Listviews - much much much much nicer :)
- Discovered that Miami 2 has it's own logging procedure - contemplating
  adding support for analysing this file, but it's in a yicky format, so I
  might stick to basic Miami support (use own timer). Need to learn
  Blitz/Arexx support to do this. Haven't I said this before???
* Added filerequesters to save and load prefs as other than default and
  save the log file to somewhere other than s:netstat.log. At the moment
  there is only a small amount of error checking to see if the files are
   valid!!

17/2/97
* Now possible to delete records from the logfile.
* Started preliminary timeout warning in main program so you can limit time
  you spend online.

15/2/97
* Added DISCOUNT tooltype to NetAnalyser
* Fixed a little bug that caused the program to rescan if the close gadget
  was selected

10/2/97
* Changed billing to per-second. This has created a small flaw in the way
  cost is calculated. Nothing too major, but a little puzzling
* Moved prefsfile to S: just to be awkward :)

8/2/97
* Oh bugger - The midnight bug pops up again - aaaaaaargh!!! Found and
  squashed as quickly - stupid typo. I must have been tired :)
- Time zone calculation still seems to be somewhat ary though, I thought
  I'ld sorted that out! :(
* Neatened up some of the GUI
* Crossed fingers that I've sorted out time zone calculations once and for
  all. I tested a bit more thoroughly this time :)
* Moved logfile to S: - LOGFILE tooltype added for future

7/2/97
* NetAnalyser can now be launched from NetStat (found a working copy of
  ElmoresDosLibrary!!)
* NetStat constantly monitors for Slip0State. Automatically starts when
  online detected. This works with AmiTCP using SLIP device. If I find out
  ways of detecting other TCP stack status' then I'll hopefully implement
  that. (Works with my setup though!!) :)

6/2/97

* Added some stuff to NetAnalyser. There's strange behaviour when you
  select the last record to analyse from. Must investigate this!
* Fixed a stupid error in NetAnalyser!!
* V1.5 Uploaded to WebSite.

4/2/97
* Fixed Logging bug - sheesh, what a hassle
* I think I've fixed the time band bug
* Tooltypes now work - yay!! :)
* Took all VAT calculations out of main program and put them into the
  logfile analyser. All that bug hunting for nothing - still, much simpler
  this way!
* Rudimentary NetAnalyser completed

3/2/97
* Hopefully fixed the 'midnight' bug
+ Added window position Tooltypes. They don't work though :(
* Found a really stupid bit of duplicated code - should cut CPU useage
  no-end :)
+ Added a few extra little things
- Found a bug in the time band procedure
- Created a new bug in logging procedure - appears to not log VAT :/

2/2/97
* Hopefully stopped program from CPU hogging
* Changed the way time online is calculated (used to miss time under heavy
  cpu load - hopefully this is rectified). This seems to have sorted out the
  strange 'prefs' bug too. Bonus!!!
* Theoretically sorted out VAT. VAT should be added to displayed cost and
  logged cost
* Finally sorted out the Prefs save/load feature. Doesn't cause a guru
  anymore :)
+ Added a little popup information window - needs a bit of a cosmetic
  overhaul though

Pre 2/2/97
  Too many changes to list!!

1.20 NetStat - Future

To do...

Increase accuracy of cost logging - Found out this is nigh on impossible,
sorry :/
Support for european/usa people
Font sensitivity - erk!!
Logfile convertor to add facility to analyse logs from Ncomm/Miami etc
Netstat 2 - with MUI??? Who knows!

Other stuff!!! Any suggestions??

1.21   Known Bugs

```
Known Bugs
```

- I've had a report that NetStat quits with bizarre errors at odd times.
  I'm afraid this is beyond me at the moment as I am unable to replicate
  the errors. I'm working on it though.
- Apart from being slow to the point of inaccuracy, Netstat dies horribly
  on my A500 (KS2.04) when opening the prefs screen. I may look into
  this if I get any requests!
- Valid time band checking in the prefs is still a bit ropey. But if you
  don't enter valid time bands then I guess it's your fault anyway, I mean,
  why screw things up on purpose?

1.22   Greetings to..

```
Thank you...
```

To all the wonderful helpful people on the Blitz Basic mailing list,
without whom this project would be a complete mess and would never have
been remotely finished.

And Bablos (bablos@enterprise.net) who's almost been a Beta tester for me,
and has provided a fair few suggestions!

And Yff (mtibor@elender.hu) for the cool icons.

And to everyone that's written to me with encouraging words!

Cheers!

1.23   About Me!

```
About the Author
```

Not much to say really.

I'm 25 at the moment. Unemployed and unemployable!
This is my first Amiga programming project, and it shows :)

If your really desperate to know anything about me, then check out my web
page at:

http://www.so-watts.demon.co.uk/

If you like this program, or have any suggestion as to how it can be
improved, then feel free to contact me at:

tom@so-watts.demon.co.uk

I'm not putting a snail mail address, as I've never been in the same
residence for more than a year!! I am however living in Manchester, UK
at the moment, but I'll be moving down to Birmingham in a few months.

So there you go.

Enjoy!

1.24   Updating your prefs

Updating from versions 1.75 to 1.83

There's not a lot to do really, however the prefs file has changed again.
You can either therefore redo all your prefs from the defaults, or try
the little program I've included in this archive. In the main directory
should be a program called 'PrefConv' or something like that. Just run
this from CLI and follow the instructions.

Actually there aren't really any instructions, but all you have to do is
select your old prefs file, your log file and then a new prefs file from
the three requesters. Your old prefs file will be copied with a ".bak"
extension.

Pretty easy really!

1.25   Source Code Notice

Regarding the source code...

I've decided to release the source code to Netstat as I no longer have the
time to work on it. I thought about doing Netstat 2 using my new found C++
skills, however I don't seem to have gotten round to it. Who knows, it may
happen yet.

Anyway, this source is released into the public domain with the conditions
that no money is ever made from it. I released Netstat as freeware, and I
expect any updates if there ever are any to be free too. Also, I retain the
copyright to Netstat and any updates should include the notice that it is
based on my code.

Included in the source distribution:

Netstat 1.8.4 (I worked on 1.8.5 but it's a mess and bits don't work.)
NetAnalyser 1.4 beta 2 - A couple of fixes needed, but hey... NetSpeak 1.1 -
There was only ever one version, does anyone ever actually
     use this. It was a quick hack anyway!

This .guide file and probably a readme too :)

I apologise for the state of the code, I never have been one for comments in
code. If there is anything in the code that you are unsure of then feel free
to get in touch with me and I'll try to help out!!