

**NetProbe**

**COLLABORATORS**

	<i>TITLE :</i> NetProbe		
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# Chapter 1

# NetProbe

## 1.1 NetProbe documentation

NetProbe V 4.24, Copyright 1993,1994 by Hakan Tandogan

Introduction

What is this NetProbe, anyway?

Concept

How does the magic work?

MUI version

Point & Click & Resize version.

Gadtools version

Another Point & Click interface.

Shell version

This is for hardcore keyboard hackers.

Credits

The author wishes to thank...

History

The story so far

To Do

Known Bugs (tm) and stuff to do

Disclaimer

What you have to do for using this

Copyright

Some legal stuff

Author Info

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Who hacked this thingy, anyway?

## 1.2 NetProbe/Envoy

Envoy is Commodore's networking package for computers of the Amiga line.

Envoy is Copyright 1985-1993 by Commodore-Amiga, Inc.

See your Envoy documentation for more information.

## 1.3 NetProbe/Copyright

NetProbe is (c) Copyright 1993-1996 by Hakan Tandogan

NetProbe may be freely distributed under the following restrictions:

1. The complete contents of the original archive must remain intact.
2. The original material may in no way be modified.
3. The  
    card-ware  
    status of this program is respected.

NetProbe is a MUI application.

MUI  
is (c) Copyright 1993 by Stefan Stuntz

## 1.4 NetProbe/Card Ware Distribution

This means that you should send me a postcard from where you live. ↔

I especially love the cute looking ones with unusual stamps on it.

Feel free to send them to  
me  
.

## 1.5 NetProbe/Author Info

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Snail mail:

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Am Ruhstein 13  
D-91054 Buckenhof

UUCP/Internet:

hytandog@cip.informatik.uni-erlangen.de  
hakan@kahalo.franken.de (preferred)

Internet Relay Chat:

hakan@#AmigaGER

## 1.6 MUI - Copyright

This application uses

MUI - MagicUserInterface

(c) Copyright 1993 by Stefan Stuntz

MUI is a system to generate and maintain graphical user interfaces. With the aid of a preferences program, the user of an application has the ability to customize the outfit according to his personal taste.

MUI is distributed as shareware. To obtain a complete package containing lots of examples and more information about registration please look for a file called "muiXX.lha" (XX means the latest version number) on your local bulletin boards or on public domain disks.

If you want to register directly, feel free to send

DM 20.- or US\$ 15.-

to

Stefan Stuntz  
Eduard-Spranger-Straße 7  
80935 München  
GERMANY

## 1.7 NetProbe/Thanks

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Plagiarism:

Some parts of this document are taken from the AmigaElm documentation written (and plagiarized) by amk@zikzak stole it from somewhere else. So feel free so plagiarize my docs, too...

Thanks:

- A nice chinese lady (for keeping me from programming)
- Bernd Raschke (early beta-testing)
- Frohwalt Egerer (for all the Coke & ideas)
- Georg Magschok (Gio) (for the nice icon)
- Henning Schmiedehausen (beta-testing)
- Stefan Stuntz (for MUI)
- all people at Illertissen '93 who made NetProbe a success
- all the nice folks from #AmigaGER who urged me to release NetProbe
- all I forgot

## 1.8 NetProbe/History

- 2.67 First version on aminet  
Crude gadtools GUI
- 3.11 Splitted into core and UI function sets  
Replaced gadtools GUI with MUI and shell versions
- 4.24 Added the 'Scan Ping' option on request from Henning  
Added a few icons in contrib  
Aminet release after a meeting in Erlangen

## 1.9 NetProbe/Bugs And ToDo

Known Bugs:

For the first time in the history of this Program, none ;-)

To-Do list:

Too long to write, just don't ask...

Change the documentation into texinfo so AmigaGuide and html version can be generated automatically

Some day, a gadtools version...

Primarily, I'm working on something like external network library, in-house name 'xnw.library' which will allow me to write a &\$\$-HD-installable networked Space Hulk.

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Reports:

Send bug reports, ideas etc via e-mail to  
me  
at  
hakan@kahalo.franken.de

Flames should be sent to posthamster@devnull :-)

## 1.10 NetProbe/Disclaimer

This product is provided without any warranty, express or implied. The user of this product assumes full responsibility for any damage resulting from the use and/or misuse of this product.

This product may be used under the following restrictions:

1. Non-commercial use of this product is free of charge.
2. The card-ware status of this product is obeyed.
3. Honorable mention of the author and product must be included in the client documentation.

## 1.11 NetProbe/Introduction

NetProbe is a statistic-gathering Tool for  
Envoy  
. One of it's main  
uses is to debug a network while trying to get it up and running.

A

MUI  
- and a  
shell  
version of NetProbe are available.

## 1.12 NetProbe/Theory of operation

This program is based on the  
NIPCInquiry  
function of nipc.library.

The very first versions were created because I didn't want to recompile my little test programm \*every\* time I wanted to use a different set of scan tags. Mainly, NetProbe consists of a core of Envoy functions that

---





```

|
|
|           Realms  ListView
|                   |
|           Services
|                   |
+-----+-----+-----+-----+
|
|
|           Hosts  ListView
|                   |
|           Entities
|                   |
+-----+-----+-----+-----+
|
|           Lots of
|           Checkboxes and Strings
|                   |
+-----+-----+-----+-----+

```

Through the Menu, you can access the following options:

```

About
Save List
Preferences
Quit

```

## 1.15 NetProbe/Gadtools Version

Sorry, but as of version 4.24, there is no more gadtools ↔  
version.

I might be persuaded into building one, see the  
card-ware  
status :^)

## 1.16 NetProbe/Shell Version

Template:

O=Owner/S, IP=IP-Addr/S, Kick=Kickstart/S, WB=Workbench/S, NIPC/S,  
FM=FastMem/S, CM=ChipMem/S, P=Processor/S, C=Chips/S,

S=Services/S, E=Entities/S, A=All/S,  
 SR=ScanRealms/S, SH=ScanHosts/S, SA=ScanAll/S,  
 K=Kludge/S, MT=MaxTime/K/N, MP=MaxPackets/K/N,  
 R=Realms/K/M/A, SF=SaveFile/K/A

This is a version which can be used with automated shell scripts.  
 It's also useful on machines not (yet) equipped with MUI.

Feature ;-) The shell version does not honor the preferences file  
 of the MUI version.

O=Owner/S                    see Lots of  
                               Checkboxes and Strings  
                               IP=IP-Addr/S

Kick=Kickstart/S  
 WB=Workbench/S  
 NIPC/S  
 FM=FastMem/S  
 CM=ChipMem/S  
 P=Processor/S  
 C=Chips/S

S=Services/S                see  
                               Services  
                               E=Entities/S                see  
                               Entities  
                               A=All/S                    All information possible

SR=ScanRealms/S  
 SH=ScanHosts/S  
 SA=ScanAll/S

K=Kludge/S                see  
                               40.2-kludge  
                               MT=MaxTime/K/N            see  
                               Preferences  
                               MP=MaxPackets/K/N

SF=SaveFile/K/A

R=Realms/M/A              List of Realms to scan

## 1.17 NetProbe/ListView of Realms

In this ListView you'll see the realms in your network. ↔  
 Double-click  
 on one realm to scan it for information. This is equal to selecting  
 a realm and pressing the  
 Scan Hosts  
 button.

This button will be inactive if your network has no realm servers.

## 1.18 NetProbe/ListView of Hosts

The ListView displays the hosts of the last scanned realm, or all hosts if there is no realm server. Click a host to show detailed information.

## 1.19 NetProbe/ListView of Entities

In this ListView you'll see the Entities offered by the selected Host.

The checkbox above the ListView enables or disables scanning for Entities.

## 1.20 NetProbe/ListView of Services

In this ListView you'll see the services offered by the selected host. ↔

The checkbox above the ListView enables or disables scanning for Services.

Nota bene:

Reporting entities of remote hosts running nipc.library version 40.2 or less is buggy. See also the 40.2-kludge and the Preferences .

## 1.21 NetProbe/Scan Realms

This button scans the network for realms. It will be inactive if your network has no realm servers.

## 1.22 NetProbe/Scan Hosts

Scans the network or a selected realm for its hosts and retrieves information selected with the Check Boxes . ↔

## 1.23 NetProbe/Scan All

This button will be inactivate if your network has no realm ↔ servers.

It performs mainly a  
Scan Realms  
followed by a  
Scan Hosts  
for each Realm.

## 1.24 NetProbe/Scan Ping

This button scans one single host in your realm.

## 1.25 NetProbe/Quit

Obvious, isn't it?

## 1.26 NetProbe/Checkboxes and Strings

In this area, you'll find checkboxes for different scan parameters and the results of a scan run. There are following options:

Owner	The name of the owner.
IP-Address	The IP-Address of the hosts. This information may not be available in further releases of Envoy.
Kickstart	The Kickstart version of the host.
Workbench	The Workbench version of the host.
NIPC Version	The version of the nipc.library in the host.
Fast Memory	The amount of fast memory installed in the host.
Chip Memory	The amount of chip memory installed in the host.
Processor	The processor and FPU of the host.
Chips	The custom chips in the host.

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## 1.27 NetProbe/About

This simply shows a little requester.

## 1.28 NetProbe/Save List

This saves the scanned list to the file selected in the preferences window.

## 1.29 NetProbe/Preferences

This shows the preferences window.

Here you set

- maximum scan time per inquiry (in seconds).
- maximum number of packets accepted.
- path for the  
    Save List  
    option.
- 40.2-kludge  
    .

## 1.30 NetProbe/40.2-kludge

Nipc.library 40.2 or older returned random garbage when inquired about services. This in turn pretty much messed up my Envoy core functions.

Technically speaking, this happens when performing a NIPCInquiry with the QUERY\_SERVICE flag set. Luckily only alphanumerical data is garbled.

If you have a machine in your network with an antique Envoy installation, you can instruct the core functions to discard all information received from those machines with old libraries.

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