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Chapter 1

Miami

1.1 Miami.guide

Miami

This is the documentation for Miami V1.1, an integrated TCP/IP system for AmigaDOS. Copyright (C) 1996 Holger Kruse. All rights reserved. Documentation by Holger Kruse.

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1.2 Miami.guide/NODE_DISCLAIMER

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Miami is based on the $4.4BSD\ V.2\ TCP/IP$ networking code, in the version distributed by Walnut Creek on CD-ROM.

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1.3 Miami.guide/NODE_CONDITIONS

Miami is shareware. In this case this means that a personalized key file is required to use the full functionality of Miami.

Users will receive their personalized key file from me after registering. The key file may not be made available to other users! Giving the key file to other users or using key files that you did not receive directly from me for your personal use is considered an act of software piracy!

The Miami binary or the binaries of any of the utility programs may not be modified or patched in any way (not even for personal use), except in ways explicitly approved by me for software updates. Using patched or modified binaries is considered an act of software piracy!

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- * Program and documentation may not be changed in any way. Exception (this means: acceptable) is the use of archivers such as LHA as long as it remains possible to retrieve the original program/data.

1.4 Miami.guide/NODE REGISTRATION

Registration ******

If you often use Miami, need any of the features disabled in the demo version, or want to stay connected for more than one hour at a time, I suggest you register Miami.

To register please run the program MiamiRegister. It explains the registration procedure in detail, and allows you to register interactively.

If you for some reason cannot run MiamiRegister please contact me at kruse@nordicglobal.com.

The registration fee is US\$ 35 for a standard, 'full' Miami license. It is also possible to obtain a 'limited' Miami license that only works with a single Internet provider, if this provider is participating in the Miami promotion program.

Registered users of ppp.device receive a discount when upgrading to Miami. The details are explained by MiamiRegister.

Special offers for group licensing (10 users or more at a time), license prepayment and commercial redistribution are also available. Please contact kruse@nordicglobal.com for more details.

1.5 Miami.guide/NODE_INTRODUCTION

Introduction

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Miami is an integrated TCP/IP system for AmigaDOS, that allows you to access the Internet by modem in a very simple way.

Miami is based on the latest version (4.4BSD V2) of the official BSD networking code, i.e. Miami contains a "true" and complete TCP/IP stack, not just an emulation that only supports parts of the TCP/IP standard.

The application programmers' interface of Miami is compatible with that of AmiTCP 4.x (bsdsocket.library), i.e. most of the programs written and compiled for AmiTCP 4.x will work with Miami without any modification and without recompiling.

In addition, Miami has a built-in dialer that can be used both in script-driven and interactive mode, an implementation of the (C)SLIP and PPP protocols and a graphical user interface for program control and configuration.

Miami also has a built-in implementation of inetd, the "Internet super-server", with several built-in services including "fingerd" and "identd", a built-in implementation of TCP:, the AmigaDOS stream handler for TCP/IP, and a built-in implementation of usergroup.library, the interface to manage users and user groups.

Unlike other general-purpose protocol stacks Miami is specifically targetted towards users who use a modem to access the Internet. The configuration process is made as simple as possible: most of the configuration parameters are determined automatically by Miami. Miami also supports preconfigured settings that can be distributed by Internet providers.

Miami uses MUI 3.3 or higher for its user interface, i.e. you must have MUI installed before you can use Miami.

You should have a look at MiamiInit

. MiamiInit is a program that for most users automatically configures Miami to your needs, including dial script, authentication, IP address, DNS servers and all other configuration variables.

After running MiamiInit you should run Miami, import the configuration from MiamiInit, save the new settings, and connect to your provider.

1.6 Miami.guide/NODE_REQUIREMENTS

Requirements *******

To use Miami you need:

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- * an Amiga running OS 2.04 or higher
- * MUI 3.3 or higher
- * a modem connected to your Amiga and to a phone line. The modem should be at least roughly Hayes-compatible. Most contemporary modems are.

* a SLIP or PPP account with an Internet provider. If you only have a shell account you can use Miami as well, but then you need to install Slirp or TIA at your provider first. In this case you should ask your provider whether you are allowed to do this, and how and where you can get Slirp or TIA.

1.7 Miami.guide/NODE_INSTALLATION

No installation is required. Miami does not require any assigns, environment variables etc.

If you received Miami by downloading an archive such as "Miami10.lha" then simply extract all files from the archive to the directory where you want Miami to be installed.

If you received Miami on a CD-ROM you might want to copy all files to your harddisk first. To do this type copy <sourcedir> <destdir> all in a Shell window.

1.8 Miami.guide/NODE_MIAMIINIT

MiamiInit *****

MiamiInit is a utility program that tries to determine all configuration parameters for Miami, and then saves a configuration file that can later be used by Miami.

The first thing you should do after installing the Miami package is to run MiamiInit, and go through the dialog. In the process MiamiInit dials up your Internet provider, determines all required parameters, and saves them at the end.

MiamiInit only supports the most common setups at the moment. Very unusual cases such as data formats other than 8N1, non-Hayes-compliant modems or 3-wire modem cables are not supported. If you have any such unusual setup you need to configure Miami manually instead of running MiamiInit.

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1.9 Miami.guide/NODE_TOOLTYPES

ToolTypes

Miami supports the following ToolTypes when started from Workbench (or arguments when started from the Shell):

DONTCONNECT

If you have configured Miami to automatically connect to your Internet provider whenever you start Miami, then you can use this ToolType to override that behavior, giving you a chance to change some settings before you connect.

SETTINGS

Any project icon needs to have a "SETTINGS" ToolType so Miami recognizes it as a settings file. From the Shell you can use the argument "SETTINGS=filename" to specify the settings file to load.

IMPORTMIAMIINIT

The argument "IMPORTMIAMIINIT=filename" tells Miami to import a settings file from MiamiInit.

IMPORTASCII

The argument "IMPORTASCII=filename" tells Miami to import an ASCII settings file (distribution format).

SAVESETTINGS

The argument "SAVESETTINGS" tells Miami to save the settings as default. This argument is most useful when combined with "IMPORTMIAMIINIT" or "IMPORTASCII" to import a foreign settings file and convert it to a Miami settings file.

1.10 Miami.guide/NODE_CONFIGURATION

Configuration

The configuration of Miami is done completely through the graphical user interface. There are no configuration files or environment variables to edit.

Description of the graphical user interface:

General

The 'General' page

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Interface

The 'Interface' page

PPP

The 'PPP' page

Dialer

The 'Dialer' page

Database

The 'Database' page

TCP/IP

The 'TCP/IP' page

Events

The 'Events' page

Modem

The 'Modem' page

Logging

The 'Logging' page

GUI

The 'GUI' page

Misc

Other GUI elements

1.11 Miami.guide/NODE_GUI_GENERAL

General

Not much here, except for the official Miami logo and a gadget to start the Miami registration program.

Register

The 'Register' gadget

1.12 Miami.guide/NODE_GUI_GENERAL_REGISTER

Register

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This gadget starts the program MiamiRegister, allowing you to order a Miami license code, register Miami or upgrade your registration. MiamiRegister has to be in the same directory as Miami, or in the standard Shell path.

1.13 Miami.guide/NODE_GUI_INTERFACE

Interface

Device / Unit

The 'Device' and 'Unit' gadgets

Speed

The 'Speed' gadget

Protocol

The 'Protocol' gadget

Flow control

The 'Flow control' gadget

EOF mode

The 'EOF mode' gadget

Serial mode

The 'Serial mode' gadget

MTU

The 'MTU' gadget

IP type / address

The 'IP' gadgets

Use CD

The 'CD' gadget

Use BootP

The 'BootP' gadget

Inactivity

The 'Inactivity' gadgets

1.14 Miami.guide/NODE_GUI_INTERFACE_DEVICE

Device / Unit

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Enter the device name and unit number of the serial port to which your modem is connected. For the built-in Amiga serial port use 'serial.device' 0.

For serial boards use the driver that comes with the board, e.g. 'gvpser.device', with the correct unit number.

Other device drivers for the internal serial port like 'v34serial.device' are supported, too. You should not use '8n1.device' at this time though, because of bugs in the device. Some users have also reported problems with 'BaudBandit.device'.

1.15 Miami.guide/NODE_GUI_INTERFACE_SPEED

Speed

Speed of your serial port. For the internal serial port you should use 19200, 38400 or (if you have a fast CPU and a graphics board) 57600. For serial boards you might even be able to use 115200 or 230400.

Do not use 31250. This speed is reserved for MIDI only and usually does not work with modems.

Do not use 14400, 28800 or 33600 either. Your modem might be able to connect to the other modem at these speeds, but it does probably not support these speeds on its serial port.

1.16 Miami.guide/NODE_GUI_INTERFACE_PROTOCOL

Protocol

The protocol your Internet provider uses. Currently supported are SLIP/CSLIP and PPP.

1.17 Miami.guide/NODE_GUI_INTERFACE_FLOW

Flow control

Miami supports two types of flow control: hardware handshaking (RTS/CTS) and software handshaking (Xon/Xoff). By default hardware handshaking is used, and it is strongly recommended that you do not change this.

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If you cannot use hardware handshaking (usually because of a defective modem, cable or serial port) you should switch to software handshaking. However make sure that you change your modem init string (in the dialer window) appropriately. Also, software handshaking is only possible with PPP, not with SLIP/CSLIP.

1.18 Miami.guide/NODE GUI INTERFACE EOF

EOF mode

There are two ways for Miami to detect the end of incoming packets: The more efficient one (using less CPU time) uses the EOF_MODE flag. However this is only possible if the serial driver you use supports EOF mode. Many third-party drivers do not.

Usually you should leave this switch in the "auto" setting to let Miami use the default setting. If you positively know whether your driver supports EOF-mode or not you can manually override the default setting by choosing "on" or "off".

1.19 Miami.guide/NODE_GUI_INTERFACE_SERIAL

Serial mode

The settings for the number of data bits and parity used during dialing. For 99% of all providers the correct settings are 8N1. Very few providers (e.g. some dialin points for Compuserve) might require 7E1 or 701.

Please note that these settings only apply during dialing and login. The (C)SLIP/PPP protocol phases always use 8N1, regardless of the setting you specified here. It is completely impossible to use PPP or (C)SLIP across a 7-bit line - with any implementation actually. This is not a limitation in Miami.

1.20 Miami.guide/NODE_GUI_INTERFACE_MTU

MTU

Maximum Transfer Unit, i.e. the size of the largest packet transferred at a time. The default for PPP is 1500, the default for (C) SLIP is 1006.

For serial lines it is usually a good idea to use a smaller MTU value

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than the default in order to get a better response time for interactive TCP/IP traffic. Good values are:

- * for modem speeds up to 19200 bps: MTU=296
- * for modem speeds higher than 19200 bps: MTU=552

Please note that changing the MTU value in the configuration window does not necessarily mean that the maximum packet size is actually changed to this value:

(C)SLIP does not have any means to negotiate MTU, i.e. the MTU value configured here only affects the size of outgoing packets, not the size of incoming packets.

PPP has configuration options to negotiate the MTU. Miami always tries to negotiate the MTU you specified here, but the other side might disagree and force a different MTU value, in which case Miami might have to use the value suggested by the other side for one or both directions.

1.21 Miami.guide/NODE_GUI_INTERFACE_IP

IP type / address

Internet providers usually offer two types of Internet connections: those with a static IP address permanently assigned to your Amiga, or (more popular) those where your Amiga receives a dynamic IP address each time you connect.

In the first case choose "static" and enter the IP address your provider told you. In the second case choose "dynamic", and Miami determines the IP address automatically when you connect.

If you use TIA or Slirp you have to choose "static" and enter the pseudo IP address that TIA or Slirp assign to your Amiga. Please see the TIA/Slirp docs for more information about this.

1.22 Miami.guide/NODE_GUI_INTERFACE_CD

Use CD

If "Use CD" is activated then Miami uses the "Carrier Detect" line of your modem to determine if your modem is already connected to the other side or not.

This can be useful if you reset your Amiga without dropping the line, so you can restart Miami and reconnect to your provider without

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redialing.

This option can only be used if your modem has been configured to correctly set the "Carrier Detect" line according to the line state.

Some modems have factory default settings that always set the "Carrier Detect" line to high, even if the modem is not connected. If this is true for your modem then you either have to change the modem settings in your modem init string (usually "AT&C1"), or switch off the "Use CD" option.

If you are using the null-modem settings (configured on the "Modem" page) then this gadget gets a different meaning:

- * If the gadget is activated then the dial script is not executed at all.
- * If the gadget is deactivated then the dial script is executed, except that Miami does dial a number, i.e. the "ATDT..." command is skipped, and the list of phone numbers is meaningless.

1.23 Miami.guide/NODE_GUI_INTERFACE_BOOTP

Use BootP

If your provider uses dynamic IP addresses then there are different techniques for Miami to find the correct (dynamic) IP address.

For PPP lines this is usually handled has part of the PPP protocol. (C) SLIP does not have such an option though, so for (C) SLIP a protocol called "BootP" is sometimes used. Alternatively the IP address can sometimes be determined from the dial log.

If you used MiamiInit to configure the line then you can just leave this switch at its default setting. If you configured Miami manually then you should first switch "BootP" on, and then later try again with "BootP" switched off, and see if this still works.

If Miami can find your IP addresses without BootP then you should switch "BootP" off, because it can make the connection establishment phase quicker.

1.24 Miami.guide/NODE_GUI_INTERFACE_INACTIVITY

Inactivity

Some Internet providers hang up the line if there is no activity on the line for a while to prevent users from occupying lines that are not

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really used.

The "Inactivity" gadgets allow you to configure Miami to simulate line activity even if you are not really using the line, so your provider does not hang up.

The gadget on the left sets the type of activity: PPP ping or ICMP ping. PPP ping consumes less bandwidth, but only works with PPP, not with (C)SLIP, and does not have an effect with all providers. ICMP ping takes up slightly more bandwidth, but works with both PPP and (C)SLIP, and should have an effect with all providers.

If you use (C)SLIP then choose ICMP ping. Otherwise first try PPP ping, and if your provider still hangs up try ICMP ping.

The gadget on the right sets the number of minutes between successive pings. You need to experiment with that. Common values are 9 or 14, to prevent hangups after 10 or 15 minutes.

Note: You need to check with your Internet provider first if he allows the use of this type of activity simulator. Some providers have policies that do not allow it, and by using such a simulator you might be violating their regulations. I will not be responsible or liable for any consequences resulting from the improper use of this activity simulator.

Note: There are many reasons why a modem might hang up. One is an inactivity timeout at your Internet provider, which should be prevented by this function. However modems sometimes also hang up the line because of line noise. There is no way to prevent this in software.

1.25 Miami.guide/NODE_GUI_PPP

PPP

===

PAP / CHAP password

The 'PAP/CHAP' gadgets

VJC

The 'VJC' gadget

ACCM

The 'ACCM' gadget

Ouick Reconnect

The 'Quick Reconnect' gadget

Get DNS from IPCP

The 'Get DNS from IPCP' gadget

Escape

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The 'Escape' gadget

1.26 Miami.guide/NODE_GUI_PPP_CHAP

PAP / CHAP password

 ${\tt PAP}$ and ${\tt CHAP}$ are protocols used by ${\tt PPP}$ to send login id and password to the ${\tt PPP}$ server.

Most of the time the login id and password used for PAP or CHAP are identical to the ones you used in your dial script. In this case choose "Same as in dialer".

If your provider requires a PAP/CHAP login id or password different from the one you chose in the dialer, then do not select "Same as in dialer", but instead type in your PAP/CHAP login id and password manually.

1.27 Miami.guide/NODE_GUI_PPP_VJC

VJC

Van Jacobsen Compression is a technique to save bandwidth by compressing the headers of TCP packets. Usually this option should be switched on, meaning that PPP will automatically try to negotiate VJC, and use it if the other side agrees.

However some old, buggy PPP servers do not support VJC properly, so you might have to switch VJC off for them.

VJC does not interact with your modem's data compression in any way, i.e. you should not switch VJC off just because your modem supports MNP-5 or V.42bis. VJC can be used independently of MNP-5 or V.42bis.

1.28 Miami.guide/NODE_GUI_PPP_ACCM

ACCM

The PPP protocol supports a list of control characters that are "escaped" during transmission, i.e. replaced by a two-byte sequence. This list is called ACCM (Asynchronous Control Character Mask).

The purpose of this list is to make PPP more robust across lines

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that are not completely 8-bit transparent, and to avoid any interference of the PPP protocol with software modem flow control.

The default is to only escape characters 17 and 19 (Xon/Xoff), so PPP can be used across a link with software flow control. If you are running PPP through a telnet link you might have to escape more characters. Each character you escape reduces the performance of PPP by about 0.8%.

To change the ACCM settings either enter the 32-bit mask value directly in heaxdecimal digits, or click on the popup gadgets to toggle each control character individually.

1.29 Miami.guide/NODE_GUI_PPP_QUICK

Quick Reconnect

Usually Miami allows you to reconnect to your provider (without dialing again) when the modem is still connected, e.g. after resetting your Amiga, but only if the "Use CD" gadget is switched on on the "Interface" page.

However even then with PPP some providers do not allow reconnection (and renegotiation of PPP), and instead hang up the line when you try to reconnect.

"Quick Reconnect" usually helps in this case: If "Quick Reconnect" is activated then Miami does not attempt to renegotiate PPP, but bypasses the renegotiation and fetches all PPP parameters from an area of RAM that has been setup to survive a reboot. In most cases this allows you to reconnect to your provider after rebooting your Amiga.

However this technique only works if you do not reboot at all, or after a soft- (warm-) reboot. If your machine crashes very badly or if you have to cold-reboot (destroying resident modules) then the old PPP parameters will be gone and "Quick Reconnect" does not work.

1.30 Miami.guide/NODE_GUI_PPP_DNSIPCP

Get DNS from IPCP

This switch is "on" by default. This means that Miami tries to use IPCP extensions for automatic DNS discovery to find DNS servers.

Unfortunately some broken PPP servers neither support this option, nor reject it properly, but simply violate the protocol. If you experience problems completing the link level PPP protocol with your Internet provider you might have to disable this option.

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1.31 Miami.guide/NODE_GUI_PPP_ESCAPE

Escape

PPP can negotiate that characters in the range of 0-31 and 128-159 are escaped. This is configured in the ACCM.

However there are situations when you might have to escape some additional characters, e.g. 0xFF across rlogin connections.

In this case enter the 2-digit hex codes (separated by spaces) into the "Escape" gadget, and Miami will escape those characters when sending PPP packets.

Note that, contrary to the ACCM definition, this only works in one direction: when sending data. If the channel back from the server to Miami also requires character escaping, then you have to configure the PPP server accordingly as well.

1.32 Miami.guide/NODE_GUI_DIALER

Dialer

=====

Dial script

The 'Dial script' listview

Phone numbers

The 'Phone numbers' listview

Max Repeat

The 'Max Repeat' gadget

Repeat Delay

The 'Repeat Delay' gadget

Teach

The 'Teach' gadget

Login ID / Password

The 'Login ID' / 'Password' gadgets

Capture

The 'Capture' gadgets

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1.33 Miami.guide/NODE_GUI_DIALER_SCRIPT

Dial script

There listview gadget in the top area of the "Dial script" group contains the dial script. You can change entries by clicking on them and editing them in the string gadget below.

The gadgets at the bottom are used to add and remove entries from the dial script.

For more information about the language used by the dialer please see

Dialer Command Language

.

The listview has a context menu associated with it, i.e. by pressing the right mouse button over the listview a menu pops up allowing you to import/export the dial script from/to an ASCII text file.

1.34 Miami.guide/NODE_GUI_DIALER_PHONE

Phone numbers

The "Phone numbers" group works similarly to the "Dial script" group, but has two additional gadgets: "Enable" and "Disable". Enabled phone numbers have a ">" symbol next to them. Only enabled phone numbers will be used during dialing.

In the demo version only up to three phone numbers are supported. In the registered version there is no such limit.

1.35 Miami.guide/NODE_GUI_DIALER_MAX

Max Repeat

If no connection can be established with any of the listed phone number, then Miami waits for the time specified in

Repeat Delay

, and

then tries again, restarting with the first phone number. However the maximum number of retries is limited by the number specified in the "Max Repeat" gadget. After that Miami just gives up and aborts dialing.

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1.36 Miami.guide/NODE_GUI_DIALER_DELAY

Repeat Delay

If no connection can be established with any of the listed phone number, then Miami waits for the time specified in the "Repeat Delay" gadget and then tries again, restarting with the first phone number.

1.37 Miami.guide/NODE_GUI_DIALER_TEACH

Teach

The "Teach" gadget starts the Miami dialer in interactive mode (i.e. without executing a dial script), records all text send by the user or received from the modem, and then tries to create a proper dial script from that.

Most of the time MiamiInit is used to create a dial script, not "Teach", but if your provider changes the login procedure it might be more convenient for you to only create a new dial script (using "Teach") instead of running MiamiInit all over again.

1.38 Miami.guide/NODE_GUI_DIALER_NAME

Login ID / Password

The login id and password used in the dial script. If "Same as in dialer" is enabled in the PPP window then these values are also used for PAP/CHAP.

1.39 Miami.guide/NODE_GUI_DIALER_CAPTURE

Capture

If you activate the "Capture" checkmark gadget and enter a file name in the corresponding string gadget, then the dialer will save all data received from the modem during dialing (i.e. a complete dial log) to a file.

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1.40 Miami.guide/NODE_GUI_DATABASE

Database

======

The "Database" page is the equivalent of the files in the "db" directory for other TCP/IP protocol stacks, i.e. it allows you to configure most of the TCP settings on your system, which daemons to run, a list of users and other things.

The cycle gadget on top of the listview is used to switch between different parts of the database. There is a template below the listview describing how proper entries have to look like. A more detailed explanation follows below.

Using the context menu of the database listview gadget you can import/export each part of the database from/to ASCII text files. This allows you to continue to use your old AmiTCP/AS-225 db/#? files with Miami.

Each entry in the database can be marked as "temporary" by clicking on the "Temp" gadget. This has the effect that this entry is not saved to disk when you save the settings, and that it is — in some cases — deleted when reconnecting. This can be useful if some of the entries (e.g. dynamically obtained DNS server addresses) should not be used for the next connection.

By default Miami marks all dynamically obtained DNS server addresses and your dynamic hostname as temporary.

The "Change Password" gadget can only be used together with entries in the "Users" part of the database. It allows you to change the password for a user and automatically encrypts it.

Parts of the database:

Protocols

The 'protocols' part

Services

The 'services' part

Hosts

The 'hosts' part

Networks

The 'networks' part

Domains

The 'domains' part

DNS servers

The 'DNS servers' part

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InetD

The 'InetD' part

users

The 'users' part

groups

The 'groups' part

1.41 Miami.guide/NODE_GUI_DATABASE_PROTOCOLS

Protocols

List of all supported protocols (relative to IP) in the format protocol_name protocol_id optional_list_of_aliases

This table hardly ever has to be changed.

1.42 Miami.guide/NODE_GUI_DATABASE_SERVICES

Services

List of all supported services (TCP or UDP) in the format service_name service_id/protocol_name optional_list_of_aliases

Some application programs might require changes to this list.

1.43 Miami.guide/NODE_GUI_DATABASE_HOSTS

Hosts

List of all host names (and corresponding IP addresses) in the format ip_address host_name optional_list_of_aliases

Miami automatically adds a mapping for "localhost" and for the host name of your Amiga to this list. Other mappings can be added manually to make name->IP translations faster.

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1.44 Miami.guide/NODE_GUI_DATABASE_NETWORKS

Networks

List of all networks in the format

network_name network_id optional_list_of_aliases

This table is hardly used any more, and only implemented for backwards compatibility with very old software.

1.45 Miami.guide/NODE_GUI_DATABASE_DOMAINS

Domains

List of all local domains in the format

domain_name

This table is not strictly needed by TCP/IP, but adds some convenience for the user: it allows you to abbreviate host names by specifying just the machine name (without the domain) whenever referring to a host.

Example:

Assume a local machine on your network is named ex1.foo.edu, and you access this machine frequently. If you add foo.edu to the list of domains, then you can access machine ex1.foo.edu by just typing ex1.

1.46 Miami.guide/NODE_GUI_DATABASE_DNSSERVERS

DNS servers

List of DNS servers in the format

IP address

DNS servers are used to map logical host names to their IP address. You should have at least one DNS server listed in this table at all times, preferably a DNS server close to or at your provider.

If Miami finds any DNS servers by itself when connecting it automatically adds them to this list and marks them as "temporary".

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1.47 Miami.guide/NODE_GUI_DATABASE_INETD

InetD

List of daemons started by the built-in InetD in the format

service_name socket_type protocol_name wait_mode owner file_name args

"socket_type" is one of "dgram" or "stream". "wait_mode" is one of
"wait", "nowait" or "dos".

The InetD built-in to Miami supports man built-in services: "daytime", "time", "echo", "discard", "chargen", "finger" and "auth". "auth" is really the same as "identd".

Daemons for other (external) services can be automatically started by InetD by adding an appropriate line to this table. If you would like to install external daemons (e.g. ftpd or telnetd) please check their documentation for the correct format of the "InetD" entry they require.

1.48 Miami.guide/NODE_GUI_DATABASE_USERS

Users

List of users in the system in the format

user_name|password|user_id|group_id|real_name|home_dir|shell

You usually only need a single entry in this file (for yourself), unless you want to run daemons like ftpd/telnetd that allow other users to connect to your Amiga.

Passwords are stored in an encrypted format and should not be changed manually. To change a password, first select a user entry in the listview and then click on "Change password". This will prompt you to enter the new password, and store it in encrypted format.

Note: When you import this file from AmiTCP the passwords are not preserved, i.e. the passwords for all users are set to empty and have to be entered again manually. This is because the password encryption algorithm used by AmiTCP cannot be used by Miami for legal reasons. For more information on this please check

Passwords

1.49 Miami.guide/NODE_GUI_DATABASE_GROUPS

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Groups

List of groups in the system in the format

group_name|*|group_id|optional_user_list

You usually only need a single entry in this file (for yourself), unless you want to run daemons like ftpd/telnetd that allow other users to connect to your Amiga.

The " \star " represents an unused password entry. Passwords are not currently supported for groups.

1.50 Miami.guide/NODE_GUI_TCPIP

TCP/IP

=====

Host name

The 'Host name' group

Real / User name

The 'Real name' and 'User name' \leftarrow

gadgets

Use ICMP

The 'Use ICMP' gadget

Fake IP

The 'Fake IP' gadget

Verify DNS servers

The 'Verify DNS servers' gadget

Auto-add domain

The 'Auto-add domain' gadget

Get time

The 'Get time' gadgets

1.51 Miami.guide/NODE_GUI_TCPIP_HOSTNAME

Host name

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In most cases you should switch the gadget "dynamic" on. In this case Miami automatically determines your Amiga's host name through reverse DNS lookup whenever you connect.

However some providers do not support reverse DNS lookup, or assign a static host name to their user that is not listed in the DNS. In this case switch "dynamic" off and enter your host name manually.

1.52 Miami.guide/NODE_GUI_TCPIP_NAME

Real / User name

In these gadgets you should enter your real name (e.g. "Joe Smith"), and the user name on your Amiga (e.g. "jsmith").

Although you could theoretically use any names here it is good practice to use "real" names, not some phantasy names.

Some programs look up user information based on your user name. To make these programs behave properly you should ensure that there is an entry in the "Users" part on the "Database" page that corresponds to the user name entered here.

1.53 Miami.guide/NODE_GUI_TCPIP_ICMP

Use ICMP

If this gadget is switched on then Miami uses ICMP "ping" messages to verify the correctness of IP addresses, DNS servers etc.

This gadget should usually be switched on, because it provides additional protection from incorrect configuration.

However if you are connecting through some TCP emulator such as TIA then you might have to switch this gadget off, because not all TCP emulators support ICMP.

1.54 Miami.guide/NODE_GUI_TCPIP_FAKEIP

Fake IP

If you are connected to the Internet through a TCP emulator such as TIA or Slirp, and this emulator does not assign you a "real" IP address, but a fake address, then you need to activate this switch.

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It tells Miami to obtain your host name by resolving the remote IP address, not your local ("fake") IP address.

1.55 Miami.guide/NODE_GUI_TCPIP_VERIFYDNS

Verify DNS servers

Usually Miami tries to verify the correctness of the IP addresses of all DNS servers. However this can cause problems with some Internet providers if their DNS servers have a bad connectivity of do not respond to requests immediately after connection establishment.

If you deactivate the "Verify DNS servers" gadget then Miami skips the DNS verification step when going online.

1.56 Miami.guide/NODE_GUI_TCPIP_ADDDOMAIN

Auto-add domain

If this gadget is activated then Miami will automatically add your host name's domain (i.e. everything after the first '.') to Miami's "domain" database.

This is not strictly required for Miami or for any software, but it can be convenient if you want to use abbreviated host names. Please see

The 'Database' page for more details on the meaning of the "domain" database.

1.57 Miami.guide/NODE_GUI_TCPIP_GETTIME

Get time

If your Amiga is not equipped with a battery-powered real-time clock then you should activate the "Get time" switch, and enter the name or IP address of a server that supports the "time" service in the string gadget. If you are unsure which name to enter just try any "major" machine run by your provider, e.g. the machine you use for e-mail or news.

If you use this feature you need to make sure that your "ENV:TZ"

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variable is set correctly, i.e. usually to something like "EST5", or to "EST4EDT" during daylight savings time. This is important, because the server transmits the time in GMT (UTC) format, and Miami needs to adjust it to your local time zone.

1.58 Miami.guide/NODE_GUI_EVENTS

Events

Miami allows you to react in various ways to events such as offline, online etc., by executing an ARexx script, iconifying the Miami window etc.

The specific events Miami can react to are:

Start

program start.

End

program end.

active Offline

going offline caused by the user, e.g. by clicking on the "Offline" gadget or by an ARexx "OFFLINE" command.

passive Offline

going offline caused by the modem or the provider hanging up.

Online

going online, i.e. successfully connecting to the Internet provider and starting up all required protocols.

failed Online attempt

an attempt to go online that failed for some reason, e.g. because all phone lines were busy, and the maximum number of retries was reached.

Miami can react in the following ways. Not each of these options makes sense for each event, so only a subset of these options is actually available in each case:

ARexx

Start an ARexx script

hide

iconify the Miami window

auto-online

try to go online (dial) automatically

beep

flash the display or beep, as defined in system preferences

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show

deiconify the Miami window

In the evaluation version of Miami the option "ARexx" is not available, and "auto-online" is not available in response to a "passive offline" event.

1.59 Miami.guide/NODE_GUI_MODEM

Modem

Init String

The 'Init String' gadget

Exit String

The 'Exit String' gadget

Dial prefix

The 'Dial prefix' gadget

Dial suffix

The 'Dial suffix' gadget

Null modem

The 'Null modem' gadget

1.60 Miami.guide/NODE_GUI_MODEM_INIT

Init String

The initialization string for your modem, usually set by MiamiInit.

1.61 Miami.guide/NODE_GUI_MODEM_EXIT

Exit String

The string sent to your modem when Miami quits. Most users do not need this, but it can be useful if multiple programs share the modem port, and your modem needs to be reset to default settings before Miami exits.

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1.62 Miami.guide/NODE_GUI_MODEM_PREFIX

Dial prefix

The command your modem uses for dialing, i.e. the string prepended to the phone number. This is usually "ATDT" or "ATDP".

1.63 Miami.guide/NODE_GUI_MODEM_SUFFIX

Dial suffix

The string that needs to be appended to your phone number to complete the dial command. This is usually " \r ".

1.64 Miami.guide/NODE_GUI_MODEM_NULLMODEM

Null modem

Miami usually assumes that you have a modem connected to your serial port. If your Amiga is directly connected to another computer using a null-modem cable, then you need to activate this gadget. It prevents any modem commands ("AT commands") from being sent, and Miami will not wait for any responses such as "OK" or "CONNECT".

With "null-modem" activated the meaning of the "Use CD" gadget on the "Interface" page changes:

- * If your machine is connected to a computer that requires a login sequence to establish the SLIP/PPP link, then you should deactivate the "Use CD" gadget. Miami then uses the dial script specified in the "Dialer" window, but without dialing a number first. This option is most useful when connecting to a Unix or Linux box that runs a getty with login/password check on its serial port.
- * If your machine is connected to a computer that runs its serial port in dedicated SLIP/PPP mode (e.g. another Amiga running Miami), then you should activate the "Use CD" gadget. Miami will then completely bypass any dial script and immediately proceed with the protocol negotiation.

1.65 Miami.guide/NODE_GUI_LOGGING

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Logging

Console

The 'Console' gadget

File

The 'File' gadget

Phonelog

The 'Phonelog' gadgets

1.66 Miami.guide/NODE_GUI_LOGGING_CONSOLE

Console

In this gadget you can specify the AmigaDOS stream name of the console window that Miami uses for system log messages. This file is kept open after the first system message has occured, so you should use the "CON:" modifiers "/AUTO/CLOSE" to be able to close the window without losing old system messages.

1.67 Miami.guide/NODE_GUI_LOGGING_FILE

File

In this gadget you can specify the AmigaDOS file name of the file where Miami stores system log messages. If the file already exists then Miami appends to this file, i.e. old file contents are not deleted.

1.68 Miami.guide/NODE_GUI_LOGGING_PHONE

Phonelog

Miami can log any online and offline events in order to assist in phone bill management.

The two "Phonebill" gadgets let you enable phone logging and specify the name of a file to which Miami appends billing records.

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At the moment only ASCII format is supported, with records as follows:

Online: 27.07.1996 17:48:11 (5551234)
Passive offline: 27.07.1996 17:48:11
Active offline: 27.07.1996 17:48:11
Reconnect: 27.07.1996 17:48:11

The "Online" record contains the phone number that was dialed in "()". "Reconnect" occurs when Miami goes online without actually dialing, e.g. after rebooting the Amiga.

The difference between "passive" and "active" offline is that an "active" offline is voluntary, i.e. the result of an "OFFLINE" ARexx command, someone clicking on the "Offline" gadget etc. A "passive" offline is the result of your modem hanging up or your Internet provider disconnecting you.

1.69 Miami.guide/NODE GUI GUI

GUI

===

Quit requester

The 'Quit requester' gadgets

Offline requester

The 'Offline requester' gadget

Error requester

The 'Error requester' gadget

Dialer

The 'Dialer' gadgets

1.70 Miami.guide/NODE_GUI_GUI_REQQUIT

Quit requester

You can configure when Miami shall display a 'Quit requester':

- * always
- * when programs that use Miami are still running.
- * when Miami is online

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or combinations of the above.

1.71 Miami.guide/NODE_GUI_GUI_REQOFFLINE

Offline requester

If you activate this checkmark then Miami asks you before going offline.

1.72 Miami.guide/NODE_GUI_GUI_REQERRORS

Error requester

Normally Miami displays an error requester if any problems occur during dialing or while configuring the link. If you disable this checkmark then such errors are silently ignored, and Miami does not display an error requester.

1.73 Miami.guide/NODE_GUI_GUI_DIALER

Dialer

The standard dialer window has three parts: a help text at the top, several buttons in the middle, and a dialog window at the bottom. With the three "Dialer" checkmarks you can enable or disable each of these three parts.

If you disable the dialog window then the dialer will display a single line of text only, that contains the dialer command currently being executed.

1.74 Miami.guide/NODE_GUI_MISC

Misc

There are three more gadgets in Miami that are not described in any of the previous sections:

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- * "Online": Causes Miami to start dialing and try to go online.
- * "Offline": Causes Miami to hang up the line and go offline.

* A listview gadget on the left side of the Miami window, that is used to select one of the configuration pages.

1.75 Miami.guide/NODE_DIALERLANG

The following commands are supported by the dialer:

ABORT "text1", "text2", ...

Specify a list of texts that cause Miami to completely abort dialing, e.g. "NO DIALTONE" from the modem.

DELAY secs

Wait for the specified number of seconds.

DIALNEXT "text1", "text2", ...

Specify a list of texts that cause Miami to hang up the phone and dial the next number, e.g. "BUSY" from the modem.

PARSEPASSWORD "endchar"

Parses all characters from the modem up to, but not including <endchar>, and replaces the current password by this text. This command can be useful for one-time password systems that send the password for the next session during login.

REDIAL "text1", "text2", ...

Specify a list of texts that cause Miami to hang up the phone and redial the current number, e.g. "BUSY" from the modem.

SAVECONFIG

Save the current configuration (settings) to disk. This command is usually used after PARSEPASSWORD to save the settings containing the new password.

SEND "text"

Send <text> to the modem. A linefeed/carriage return is not automatically appended. Miami recognizes the following standard control sequences: \",\\,\r,\n. In addition "\u" and "\p" are supported to send the current login id (user id) or password, respectively.

SENDBREAK

Send a serial port "break" signal. This is used by some terminal servers to switch to command mode.

SENDPASSWORD

Send the current password, followed by a "\r".

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SENDUSERID

Send the current user id (login id), followed by a "\r".

TIMEOUT secs

Specify the amount of time to wait for a text during WAIT or WAITPPP before giving up.

WAIT "text"

Wait for "text" to be received from the modem.

WAITPPP

Wait for the server to switch to PPP mode.

With the commands "ABORT", "DIAL" and "DIALNEXT" you can specify the keyword "TIMEOUT" (without the quotes), instead of a text in quotes, e.g.

ABORT "NO CARRIER", TIMEOUT

This means that Miami will abort the dial script when a timeout occurs. Other options are to dial the current number again, or to dial the next number when a timeout occurs.

1.76 Miami.guide/NODE AREXX

ARexx Interface

The name of the Miami ARexx port is "MIAMI.1". At the moment only the following commands are supported:

ISONLINE

Checks if Miami is online end sets the error code ("RC") accordingly. 1 means: Miami is online. 0 means: Miami is offline.

ONLINE

Attempt to go online. Same as clicking on the "Online" gadget.

OFFLINE

Hang up and go offline. Same as clicking on the "Offline" gadget.

QUIT

Quit Miami.

CHANGEDB

Tells Miami to re-read the file "ENVARC:MiamiChangeDB" to update the settings. Please see

Client settings

for more details how to

use this feature.

HIDE

Iconifies the Miami user interface.

SHOW

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Deiconifies the Miami user interface.

GETSETTINGSNAME

Returns the file name of the current settings file in the result variable.

1.77 Miami.guide/NODE_EXCONFIG

Exchanging Settings

* * * * * * * * * * * * * * * * * * *

The Miami settings are saved in an IFF file in a format that is currently intentionally undocumented. However Miami allows you to import and export settings in a variety of ways:

Distribution format

Importing/exporting settings for \leftarrow

distribution

Exchanging passwords

Exchanging password files

Client settings

Custom settings for some clients

1.78 Miami.guide/NODE_EXCONFIG_DIST

Distribution format

Miami allows you to export settings into an ASCII format that is suitable for distribution, e.g. to upload it to Aminet, or to give it to other users who have accounts with the same Internet provider. It can also be used by Internet providers to preconfigure complete Miami settings for new user.

The ASCII file format contains a header, followed by a variable number of parameters.

When exporting files Miami only includes those parameters that are related to the provider, but not those that are related to the individual user's system setup or that are security-relevant in any way. This means you can safely export your settings and give the file to other user, without compromising sensitive information like passwords.

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When importing files Miami does support user-related information like passwords though, so providers can write Installer scripts which ask the user for his login id and password, and which then create an ASCII settings file for Miami that contains all information required by Miami.

To get an idea how the ASCII file looks just export your current settings to ASCII. The general format is

- * a 2-line header. Each line starts with a "\$" sign. Do not modify this header.
- * a variable number of lines starting with a ";". These lines are comments and can be edited freely.
- \star a variable number of lines that specify parameters.

Most parameters are specified in a single line. These lines look like this:

PARAMETER=value

Some parameters (e.g. the dial script) require several lines. In this case the format is as follows:

```
PARAMETER=% first value second value third value
```

This means a single "%" indicates a multi-line parameter, and another "%" as the only character on a line indicates the end of the list of values.

The order of parameters within the file is arbitrary. You should not make any assumptions that Miami stores parameters in a specific order.

List of supported parameters: A (m) indicates a multi-line parameter. A (i) indicates that the parameter is only imported, but never exported. "(m)" and "(i)" are not actually part of the ASCII file.

Values indicated as "A / B" means that the value is a single character, either "A" or "B".

```
DEVNAME= (i)
devicename

UNIT= (i)
device unit number

BAUD= (i)
serial port speed

PROTOCOL=
P / S (ppp or slip)
```

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```
FLOWCONTROL= (i)
    H / S (hardware (RTS/CTS) or software (Xon/Xoff) handshaking)
EOFMODE= (i)
    Y / N / A (yes / no / auto)
SERMODE=
    8N1 / 7E1 / 7O1
MTU=
    integer
IPTYPE=
    D / S (dynamic or static)
IP=
    1.2.3.4
CD= (i)
    Y / N
            (Use CD)
BOOTP=
    Y / N (Use BootP)
INACTIVITY=
    N / I / P (inactivity type: none, ICMP, PPP)
INACTIVITYDELAY=
    minutes
PAPNAME= (i)
    username
PAPPWD= (i)
    password
PAPSAME=
    Y / N
ACCM=
    000a0000
VJC=
    Y / N
QUICKRECONNECT=
    Y / N
DIALNAME= (i)
    login id
DIALPWD= (i)
    password
INITSTRING= (i)
    modem_init_string
```

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```
DIALPREFIX= (i)
     dial_prefix
DIALSUFFIX= (i)
     dial_suffix
DIALSCRIPT= (m)
     dial_script
DIALNUMBERS= (i) (m)
     phone_numbers
DIALMAXREPEAT=
     maxrepeat
DIALREPEATDELAY=
     repeatdelay
HOSTDYNAMIC=
              (host name dynamic: yes / no)
HOSTNAME= (i)
    hostname
REALNAME= (i)
     real_name
USERNAME= (i)
    user_name
DOICMP=
     Y / N
FAKEIP=
     Y / N
DBHOSTS= (m)
    host_database
DBNETWORKS= (m)
     network_database
DBDOMAINS= (m)
     domain_database
DBDNSSERVERS= (m)
     dns_servers_database
```

1.79 Miami.guide/NODE_EXCONFIG_PASSWORDS

Exchanging passwords

Miami allows you to freely import and export all files from the

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Unix/AmiTCP db directories, with one exception: the passwd file can be imported, but the passwords are cleared in the process, and thus have to be reentered manually in Miami.

The reason for this is: AmiTCP (at least up to version 4.3) uses the DES algorithm for password encryption. DES is a cryptographically strong encryption algorithm that is subject to US export restrictions. A program implementing DES may not be exported from the US without an individual permit, and the US government currently does not issue such permits.

The result is that any kind of export of AmiTCP from the US is illegal. This includes downloading the AmiTCP archive from an ftp server in the US to a computer outside of the US. For this reason AmiTCP may not be uploaded to all Aminet sites, severely restricting the availability of AmiTCP.

For Miami things would have been even worse: since I am developing Miami within the US (not in Finland like NSDi) I would not have been allowed to send Miami to anybody outside of the US, regardless of the way I distribute it. I therefore decided not to use DES in Miami, but to use a different encryption algorithm that is not subject to US export restrictions.

Miami uses an iterated version of MD5 for password encryption. This algorithm is cryptographically strong, i.e. not known to be breakable except by exhaustive search, just like DES. However since MD5 is, unlike DES, a one-way algorithm, it cannot be decrypted and therefore is not subject to US export restrictions.

This means it is completely legal to import and export Miami to and from the US, to upload Miami to Aminet sites and other ftp sites, and to use Miami in the US and other countries (unless some country forbids the use of MD5).

I am sorry for the problems this may cause for users who have to maintain multiple and/or large password files, but I do not see any other way of handling this situation.

1.80 Miami.guide/NODE_EXCONFIG_CLIENTS

Custom client settings

Some TCP/IP clients such as AmiTalk require changes to the settings database that most protocol stacks store in the "db" directory. Usually entries have to be added to the "services" or "inetd.conf" file.

With Miami you can make the appropriate changes directly through the graphical user interface, i.e. just select the "Database" page, the correct section (e.g. "services"), and add the entries you need.

In some situations it can be more convenient to automatize this process, e.g. to have the Installer script of a TCP/IP client make the

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required changes by itself, without bothering the user. With Miami this works as follows:

* You first need to append a line to the file "ENVARC: MiamiChangeDB" that looks as follows:

ADD services ntalk 518/udp

or

ADD inetd ntalk dgram udp wait root Servers:talkd (talkd) Whenever Miami is started it automatically reads the contents of this file (if it exists), updates the settings, and saves the resulting settings.

* If Miami is running when the client is installed and you want Miami to update its settings immediately you should send the "CHANGEDB" ARexx command to Miami after modifying the above file.

To summarize: In your Installer scripts you should have statements as follows to automatically configure Miami for your client:

echo >>ENVARC:MiamiChangeDB "ADD services ntalk 518/udp"
rx "address MIAMI.1; CHANGEDB"

If Miami is running it updates the settings immediately. Otherwise Miami picks up the changes the next time it is started.

1.81 Miami.guide/NODE_UTILITY

Utility Programs

MiamiNetStat

MiamiNetStat

Other utility programs are planned for future versions, but not available yet.

1.82 Miami.guide/NODE UTILITY NETSTAT

MiamiNetStat

MiamiNetStat is a tool to display configuration parameters and statistics. It is almost identical in functionality to the version of "netstat" that is included with 4.4BSD, but has some additional functions to display link-level statistics.

Usage:

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- * MiamiNetStat [-Aan] [-f address_family]
- * MiamiNetStat [-dimnrs] [-f address_family]
- * MiamiNetStat [-dn] [-] [-I interface]
- * MiamiNetStat [-s] [-] [-L interface]
- * MiamiNetStat [-p protocol]

The MiamiNetStat command symbolically displays the contents of various network-related data structures. There are a number of output formats, depending on the options for the information presented.

The first form of the command displays a list of active sockets for each protocol.

The second form presents the contents of one of the other network data structures according to the option selected.

Using the third form MiamiNetStat will display information regarding packet traffic on the specified network interface.

The fourth form displays link-level configuration information or (with the "-s" flag) link-level statistics for the specified network interface.

The fifth form displays statistics about the named protocol.

The options have the following meaning:

-A

With the default display, show the address of any protocol control blocks associated with sockets; used for debugging.

-a

With the default display, show the state of all sockets; normally sockets used by server processes are not shown.

-d

With an interface display (option i or I), show the number of dropped packets.

-f address_family

Limit statistics or address control block reports to those of the specified address family. Only the address family "inet" is currently recongized.

-I interface

Show information about the specified interface.

-i

Show the state of interfaces which have been configured.

-m

Show statistics recorded by the memory management routines (the network manages a private pool of memory buffers).

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-n
Show network addresses as numbers (normally MiamiNetstat interprets addresses and attempts to display them symbolically). This option may be used with any of the display formats.

-p protocol

Show statistics about the specified protocol, which is either a well-known name for a protocol or an alias for it. A null response typically means that there are no interesting numbers to report. The program will complain if the protocol is unknown or if there is no statistics routine for it.

-s
Show per-protocol statistics. If this option is repeated, counters with a value of zero are suppressed.

-r
Show the routing tables. When "-s" is also present, show routing statistics instead.

The default display, for active sockets, shows the local and remote addresses, send and receive queue sizes (in bytes), protocol, and the internal state of the protocol. Address formats are of the form "host.port" or "network.port" if a socket's address specifies a network but no specific host address. When known the host and network addresses are displayed symbolically according to the "hosts" and "networks" databases. If a symbolic name for an address is unknown, or if the "-n" option is specified, the address is printed numerically, according to the address family.

The interface display provides a table of cumulative statistics regarding packets transferred, errors, and collisions. The network addresses of the interface and the maximum transmission unit ("mtu") are also displayed.

The routing table display indicates the available routes and their status. Each route consists of a destination host or network and a gateway to use in forwarding packets. The flags field shows a collection of information about the route stored as binary choices.

```
RTF_PROTO1 Protocol specific routing flag #1

RTF_PROTO2 Protocol specific routing flag #2

RTF_CLONING Generate new routes on use

RTF_DYNAMIC Created dynamically (by redirect)

RTF_GATEWAY Destination requires forwarding by intermediary
```

Н

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```
RTF_HOST Host entry (net otherwise)

L

RTF_LLINFO Valid protocol to link address translation.

M

RTF_MODIFIED Modified dynamically (by redirect)

R

RTF_REJECT Host or net unreachable

S

RTF_STATIC Manually added

U

RTF_UP Route usable

X

RTF_XRESOLVE External daemon translates proto to link address
```

Direct routes are created for each interface attached to the local host; the gateway field for such entries shows the address of the outgoing interface. The refent field gives the current number of active uses of the route. Connection oriented protocols normally hold on to a single route for the duration of a connection while connectionless protocols obtain a route while sending to the same destination. The use field provides a count of the number of packets sent using that route. The interface entry indicates the network interface utilized for the route.

With the option "-L" MiamiNetStat displays link-level configuration information, such as the current state of the IPCP or LCP subprotocols of PPP, for the specified interface.

With the option combination "-sL" MiamiNetstat displays link-level statistics, including information about different types of packets, and checksum errors, for the specified interface.

Currently Miami only supports two interfaces:

100

The local loopback interface

 $\mathop{\rm mi0}\nolimits$

The PPP/(C)SLIP interface using the interface driver built into ${\tt Miami.}$

1.83 Miami.guide/NODE_COMPATIBILITY

```
Compatibility *******
```

So far Miami has worked with all AmiTCP clients and servers it has been tested with, with one exception:

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The AmiTCP 4.x version of "telnet" does not normally work with Miami. This is because that version of "telnet" uses some non-documented features of "TCP:" that cannot be emulated by Miami.

There are two solutions to this:

- * Use a different version of telnet, e.g. the version available from Aminet in comm/tcp, a terminal program together with telser.device, or "napsaterm" in telnet-mode. A graphical telnet client that works well with Miami is expected to be available soon.
- * Install the version of "inet-handler" that comes with AmiTCP 4.0demo, create an appropriate mountlist entry for "TCP:", and type "mount TCP:" before starting Miami. "telnet" will then use the AmiTCP version of "TCP:" (still accessing the Miami TCP/IP stack, of course) instead of the version of "TCP:" built in to Miami.

1.84 Miami.guide/NODE RESTRICTIONS

Restrictions ******

The demo version has the following limitations:

- * After 60 minutes the modem hangs up the line.
- * The "Events" options "auto-online after passive offline" and launching ARexx scripts are not available.
- \star The number of phone numbers in the dialer is limited to three.
- * Phone logging is disabled.
- * Some of the GUI customization options are disabled.

1.85 Miami.guide/NODE HISTORY

History *****

Version 1.1

fifth public release version

- * Probably fixed the bug that sometimes the ARexx command "QUIT" did not work when the GUI is iconified.
- * When the dial dialog was disabled the dial text field would not always clip text properly fixed.
- * Added several modem entries to MiamiInit.

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- * Corrected some MUI background patterns in Miami.
- * Added a border of one additional pixel around the text field in the dial window to accommodate some fonts that do not correctly define their spacing.
- * Fixed a slight rendering bug in the dial window that occured when the dial dialog was switched off.
- \star MiamiInit now attempts to find the correct MTU and passes it to Miami.
- * Fixed yet another memory leak.
- * Changed the appearance of the "General" page for the registered version.
- * Launching MiamiRegister from Miami now works if Miami was started from the shell with a non-default path.
- * Two slight performance enhancements in the TCP/IP kernel.
- * Added warning message if someone tries to load an old settings file with an incomplete database (as generated by Miami 1.0.1 and 1.0.2).

Version 1.0.3

fourth public release version

- * Change in the DNS resolver: Previously if the host name did not end in a '.' DNS lookups would first assume that the host name is an abbreviation and append all domain names one by one for DNS lookup, before doing a lookup on the host name alone. Now, after the change, any host name that contains at least one '.' is considered fully qualified, and DNS lookups are done for this host name first (without appending a domain). Only if these lookups fail, and if the host name does not end in a '.' are domain-based lookups done. This new strategy is different from what BSD usually does, but it apparently gives better performance (reduces the number of DNS lookups) if host name abbreviations are not used very often, and if DNS lookups can take a non-negligible amount of time for at least one predefined domain. The bottom line is: The "looking up host name" phase of web browsers should be quicker now than before, especially if you have more than one domain listed in Miami's domain database.
- \star Fixed a minor bug in the way the "daytime" service handles ${\tt ENV:TZ.}$
- * Added a GUI configuration page to customize many aspects of the user interface.
- * The "quit" requester is now more customizable and useful, an "offline" requester has been added, and all protocol-related error requesters can be suppressed.

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- * The help text and buttons in the dial window can now be separately disabled, and it is possible to only switch to a much smaller dial window that just displays the currently executed command, not the complete dial dialog.
- * If gethostbyname() failed incorrect error values were returned in errno and herrno.
- \star Added an "escape" function to PPP to allow other characters than 0-31 and 128-159 to be sent escaped.
- * Executing the ARexx command "QUIT" from within an ARexx script launched from Miami works now, and quits the program after all ARexx scripts have returned.
- * Added requester to Miami, MiamiInit and MiamiRegister to inform the user that MUI 3.3 or higher is required.
- * syslog() did not work properly with all programs.
- * syslog() now logs the process id if requested by a program.
- * If Miami was started without a settings file the database was not initialized correctly.
- * Added support for "dos" type servers in built-in InetD.
- * The main window now acts as an AppWindow, i.e. if you drop the icon of a settings file on it Miami loads that settings file.
- * If Miami is started from Workbench it now tries to use "ENV:Sys/def_MiamiApp.info" as its AppIcon. If this icon does not exist or if Miami was started from the Shell the standard built-in icon is used.
- * There was one more special case left in which the memory allocation problem of version 1.0 still occured fixed.

Version 1.0.2

third public release version

* Minor changes to MiamiRegister only, to reflect the new host name of the Miami registration server.

Version 1.0.1

second public release version

- \star Workaround for a problem with some Annex terminal servers.
- * Control sequences "\p" and "\u" incorrectly added a "\r" character.
- * The "passive offline" ARexx script is now executed before attempting to reconnect.
- * There was some debugging output left in the code when Miami replied to an ARexx message fixed.

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- * PPP now no longer signals a "down" event to Miami when IPCP goes down, but only when LCP goes down. This should prevent problems with very slow terminal servers that try to renegotiate IPCP after it has already come up once.
- \star Added ARexx commands "SHOW", "HIDE" and "GETSETTINGSNAME".
- * Added PPP option "Get DNS from IPCP" to disable IPCP-based DNS discovery. Some buggy PPP servers are unable to handle or reject IPCP DNS extensions correctly.
- * Miami now explicitly checks for MUI >=3.3.
- * Fixed a race condition in the unregistered version that could cause Miami to reallocate the same buffer over and over again after one hour of inactivity, quickly exhausting all available RAM.
- * Fixed a menu shortcut collision.
- * If ToolTypes were used to import MiamiInit settings or an exported configuration then the database was not initialized properly fixed.
- * Some combinations of Slirp/TIA with Slip/PPP were not configured correctly after importing settings from MiamiInit.
- * Some minor changes in MiamiInit.
- * Fixed a memory leak in built-in InetD.

Version 1.0

first public release version

1.86 Miami.guide/NODE_FUTURE

The future ******

more ARexx commands, utility programs, T/TCP, more ToolTypes, support for single-device SANA-II setups, support for ISDN (if CAPI 2.0 really becomes available as promised),... ...you name it.

1.87 Miami.guide/NODE_SUPPORT

Support *****

There are several ways to get technical support, updates etc.:

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email

kruse@nordicglobal.com

snail mail
Holger Kruse
12006 Coed Drive
Orlando FL 32826

WWW

http://www.nordicglobal.com/Miami.html

mailing list

send "SUBSCRIBE miami-ml" in the body of a mail to
"amiga-lists@nordicglobal.com".

1.88 Miami.guide/NODE_ACKNOWLEDGEMENTS

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