MiamiSpeedMeter

	COLLABORATORS		
	TITLE : MiamiSpeedMeter		
ACTION	*NAME*	*DATE*	*SIGNATURE*
WRITTEN BY		March 1, 2023	

	REVISION HISTORY		
NUMBER	DATE	DESCRIPTION	NAME

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MiamiSpeedMeter

1.1 MiamiSpeedMeter.guide

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          MiamiSpeedMeter 1.1
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   MiamiSpeedMeter is (C) 1997 Andreas Bombe


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1.2 MiamiSpeedMeter.guide/Disclaimer

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Disclaimer
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   MiamiSpeedMeter 1.1 and previous versions are freeware. You may
redistribute the whole, unchanged original distribution. This means that
you may not redistribute changed files or less or more files than that
in the original distribution. You are allowed to use a different
archiving/compression system than that of the original distribution for
redistribution. Apart from that, no changes may be made.

   I can not be held responsible for any damages of any kind that may
occur by using this program.

   MiamiSpeedMeter is (C) 1997 Andreas Bombe

1.3 MiamiSpeedMeter.guide/Introduction

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                Introduction
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   After Holger Kruse decided to provide a callback hook interface for
examining packets in his TCP/IP stack Miami (see
                About Miami
                ), I got
the idea to program a link cps display. Some networking programs (like
web browsers and ftp clients) show the characters per second they get,
but these show quite few information, restricted to the data throughput
of only this program and some only display the average cps.

   So I programmed MiamiSpeedMeter, a program that displays the data
throughput on a specified link, all of it, including IP headers. It
shows both current and average cps, divided into inbound and outbound
streams, in configurable intervals.

   Requirements:

   * Miami 2.0 or above, registered (the unregistered version does not
     have the callback hook interface)

   * MUI 3.0 or above (you need MUI anyway for Miami; See
                About MUI
)

1.4 MiamiSpeedMeter.guide/Installation

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Installation
************
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Installation is quite simple: copy the executable anywhere you want.
No external files are needed.

1.5 MiamiSpeedMeter.guide/Starting

Starting
****

   You can start MiamiSpeedMeter in two ways: either by typing its name
in a shell (and give the options on the command line) or by clicking on
its icon on the Workbench (and give the options in the tooltypes).

   The template is INTERFACE,REFRESHDELAY=DELAY/K/N,TINYWINDOW=TINY/S.
You can not use the short names in tooltypes.

   The options are as follows:

INTERFACE
     This is the name of the Miami interface (only lo0 and mi0 for
     standard Miami; any other only with Miami Deluxe) to be monitored.
     Defaults to mi0.

REFRESHDELAY
DELAY (Shell only)
     The delay between display refreshes in tenths of a second.
     Defaults to 10, which is one second.

TINYWINDOW
TINY (Shell only)
     This switch lets you create a smaller MiamiSpeedMeter window
     without the reset button and without average cps display. Defaults
     to not set.

   Example of a shell start: MiamiSpeedMeter mi0 delay 20 tiny or
MiamiSpeedMeter for just the defaults. Look at the original icon
tooltypes for how to use them.

1.6 MiamiSpeedMeter.guide/Usage

                 Usage
*****

The menu entries:

                 Reset

                 About

```
                         Quit
                            The reset button does the same as the menu entry Reset.
```

    You have to quit MiamiSpeedMeter before you can quit Miami
successfully.

1.7 MiamiSpeedMeter.guide/Reset

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Reset menu entry
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    This button/menu entry does two things. The more obvious one is that
it will reset the average display to zero.

    The other thing is that it will find out the current interface's IP
address again (MiamiSpeedMeter needs the address to find out if a packet
is inbound or outbound). This is necessary if you have a dynamic address
on the monitored interface and just went online (again) so the address
could have changed. If you don't reset and the address got changed,
every packet will end up adding to the outbound cps.

    Shortcut: R or RAmiga+R

1.8 MiamiSpeedMeter.guide/About

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About menu entry
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    This will pop up the about window, which contains information on the
version. It also contains the current interface IP address that is used
in inbound/outbound checking.

    Shortcut: RAmiga+?

1.9 MiamiSpeedMeter.guide/Quit

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Quit menu entry
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```

    This will quit the program. Oh, you guessed that?

    Shortcut: RAmiga+q

1.10 MiamiSpeedMeter.guide/About Miami

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About Miami
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   Miami is a TCP/IP stack including PPP and (C)SLIP and is compatible
to AmiTCP. Miami is programmed and maintained by Holger Kruse.

   You can get the public releases of Miami from Aminet, for the latest
beta releases take a look at the Miami homepage.

Holger Kruse's email address: kruse@nordicglobal.com
Miami homepage: http://www.nordicglobal.com/Miami.html

1.11 MiamiSpeedMeter.guide/About MUI

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About MUI
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   MUI (Magic User Interface) is a gadget layout engine programmed by
Stefan Stuntz that makes font-sensitive resizeable windows very easy to
program. It also makes it possible to write real OO programs. The MUI
code is distributed as a shared library, so you need to get MUI before
you can run any MUI programs. MUI is available from Aminet.

1.12 MiamiSpeedMeter.guide/The Author

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The Author
**********
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   The author of MiamiSpeedMeter is Andreas Bombe (that's me). Here's
how you can contact me:

   Snailmail (where you can send any donations to :):
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Germany

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andreas.bombe@munich.netsurf.de

   homepage (where you can find the latest releases of MiamiSpeedMeter):
http://home.pages.de/~andreas.bombe/

1.13 MiamiSpeedMeter.guide/Version History

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Version History
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   * MiamiSpeedMeter 0.1 (15.2.97) 17:17:20 by andreasb@destiny
       - first test version

   * MiamiSpeedMeter 0.2 (16.2.97) 15:39:10 by andreasb@destiny
       - now correct backgrounds

       - parses commandline and tooltypes correctly

       - displays what interface it is showing statistics of

       - swaps stack if less than 8192

   * MiamiSpeedMeter 1.0 (16.2.97) 22:57:20 by andreasb@destiny
       - switched on lots of optimisation

       - writing doc and preparing for public release

   * MiamiSpeedMeter 1.1 BETA 1 (23.3.97) 12:28:08 by andreasb@destiny
       - after not having time to develop, trying to encapsulate most
         things in classes and having a long war with pointers and
         uninitialised data there is now a version that works, except
         for lots of enforcer hits when setting up and destructing the
         base class...

       - added average cps display

       - made delay between refreshes configurable

       - added reset button to reset average display and to reget the
         interface IP address

       - new switches:
           + DELAY/K/N: refresh delay in milliseconds (default 1000ms
             = 1s)

           + SHOWAVG/S: create display for average cps (default: no)

   * MiamiSpeedMeter 1.1 BETA 2 (5.4.97) 17:10:37 by andreasb@destiny
       - no enforcer hits anymore.   ...pointers. sigh

   * MiamiSpeedMeter 1.1 BETA 3 (11.4.97) 16:19:59 by andreasb@destiny
       - added menu

       - added about window with IP address display

       - removed SHOWAVG switch, replaced by TINYWINDOW (default:
         FALSE)

       - DELAY is now specified in tenths of a second (default: 10 =
         1s)

   * MiamiSpeedMeter 1.1 (13.4.97) 01:49:19 by andreasb@destiny
       - changed documentation to AmigaGuide format

            – recompiled with optimisations

    * MiamiSpeedMeter 1.2 (18.4.97) 22:30:51 by andreasb@destiny
        – added "MUI settings..." menu entry

        – MiamiSpeedMeter will not open window if it can't add the hook
          to Miami (e.g. when the given interface does not exist)