SCSIBench

COLLABORATORS			
	TITLE : SCSIBench		
ACTION	*NAME*	*DATE*	*SIGNATURE*
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REVISION HISTORY			
NUMBER	DATE	DESCRIPTION	NAME

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Chapter 1

SCSIBench

1.1   SCSIBench v1.0

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         |                                         |
         |          S C S I B e n c h              |
         |                                         |
         |               v 1.0                     |
         |                                         |
         | Copyright by Ralph Wermke & Frank Toepper |
         |                                         |
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1.2   Introduction

```
          First, there are a lot of different drive speed test programmes ←
             .
    But none of them has the features we want to have.
```

```
So we decided to write an own program that includes these features
which are:

    test of several devices at the same time,
    graphical display at runtime,
    that you can change buffersize and testmode while the test
    and that you can add/remove devices to/from a running test.

So, this is a short overview of the present features.
Now test it and
                write us
                 your opinion and/or suggestions.

For futher releases it's planned to include more testmodes and
more graphical displays.
```

1.3 Copyright And Informal Notes

```
                Copyright

    SCSIBench software and documentation are Copyright © 1996 by

            Frank Toepper & Ralph Wermke
            .
    All rights reserved.


Disclaimer

    The
            authors
             doesn't take any resposibility for any loss of data,
    damages to software or hardware that may result directly or indirectly
    from the use of this program. The
            authors
             reserves the right to make
    changes to the software or documentation without notice.


Preface

    This program is FREEWARE.
    That means it's allowed to copy SCSIBench as often as you want.
    It's also allowed to distribute this version of SCSIBench in any
    non commercial way.
    This program cannot be used for commercial purposes without written
    permission from the
            authors
            .

    None of the files of the SCSIBench package may be modified.
    Crunching or achiving is allowed only if none of the SCSIBench
    files get modified by it.
```

1.4   Requirements

```
- an  Amiga
- OS  3+
- MUI 3+
- Screen min. 640 x 256 for topaz/8
- min. 8 colours (MWB) or better 18 free pens for full colors
- min. 1.5 MB free memory
```

1.5   Usage

This program performs only read operations on the devices so that
nothing will be destroyed!!

You can start the program from CLI or Workbench. In both cases the

            tooltypes
             will be evaluated.
After the start a small window appears and visualizes the start
procedure. Then the main window will be opened.

Here you can select devices, set the buffersize and choose a testmode.
You can also call the Information Window from menu to change
the most settings. The changes are only available in the current
session and will not be saved yet.

Select Devices

   To select doubleclick the entry. If an entry is selected a little
   colourfield appears in the left column. This field shows the
   colour of the related bar in the display.
   It's possible to add or remove devices to/from a running test.
   If you remove the last one the test will be stopped.

Buffersize

   This cycle gadget contains values from 512 byte to 512 kbyte.
   It's possible to change it while the test is running.
   Set the memory type by using the Information Window from menu
   or use the
            tooltypes
             .

   Be sure that your host adapter can handle the selected size!
   Check also the max. transfer rate for the device.

```
Testmode

    You can choose between 3 modes:

     Same Sector:
        Reads permanently a block of the size of the selected buffersize
        from block 0 into memory.

     Sequential:
        Reads the blocks sequentially, starting from block 0, into
        memory. After reading the last block reading starts again
        from 0.

     Random:
        Reads permanently one buffer from a random selected block into
        memory.
```

1.6 Tooltypes

```
USE_HD_SCSICMD

    If it's ON SCSI direct commands will be used instead of
    device commands.
    You can also set this by using the Information Window from menu.

    Default is OFF.


SHOW_SIZE_ALLERT

    If it's ON the warning window for big read buffers will
    be shown when you select a buffer greater 64K.
    This is necessary to avoid crashes if your host adapter can't
    handle this.
    You can also set this by using the Information Window from menu.

    Default is ON.


USE_INTERNAL_DEVICE_LIST

    Allows you to switch off the internal device list.
    This list contains devices and max unit numbers which work well
    with the automatically device check.
    Is your device not included and it works with the SCSI_DEVICE
    tooltype send us a short note:

        Host Adapter Name(s),
        Devicename(s) used by this host adapter,
        Max Unit Number

    Default is ON.
```

DEVICE

    Here you can add your own device(s) and max. unit number(s).
    If your device is included in the internal list there is no
    need to use this tooltype. But it's possible to overload the
    max. unit number of a list entry when you have problems or
    you want to extend the range.
    The internal list can be found in the Information Window.

    DEVICE=<devicename>[,max_unit_number]

    Default for max_unit_number is 7.

    Examples:

    DEVICE=MASOBOSHI.device
    DEVICE=fastscsi.device,11

IDLE

    Sets the type of the CPU usage display.
    The following values are available:

        OFF   : Switches the display off.
        STANDARD   : Uses a subtask system to get percentage.
                        This method affects the results!!
        SYSTEM   : Not implemented yet!
        EXECUTIVE   : Uses the Executive-System to calculatate percentage.

    You can also set this by using the Information Window from menu.

    Default is STANDARD.

UPDATE_TIME

    Sets the time for the display update.
    The valid range is from 2 to 30 seconds.

    Default is 2 sec.

BUFFER_TYPE

    This tooltype sets the memory type of the used test buffer.
    You can choose between CHIP and FAST.
    You can also set this by using the Information Window from menu.

    Default is FAST.

LANGUAGE

    Use this tooltype to set the language for the catalog file.

    Build-in language is english.

1.7 History

```
03-Aug-96        [ v1.0 beta ]

- first release

03-Okt-96        [ v1.0 ]

- first Aminet release
```

1.8 Known Bugs And Other Informal Notes

```
- The system hangs up if you use SnoopDos3 with the OpenDevice function.
```

1.9 Contact The Authors

```
            Send
         bug reports
         , suggestions, questions or what ever you want to us:

    Frank Toepper
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Or check out our WWW page for information about our other programmes,
new projects and other interesting stuff.

http://www.user.fh-stralsund.de/~rwermke/di.html
```

1.10 Needed Information

For a bug report send as much information as possible but at least:

    Name, EMail Address, Amiga Model
    Tested Host Adapter, Drive Type, Devicename, Unit.

And if you want you can also send:

    Comments, Problems, Suggestions, ...