SCSIMounter

COLLABORATORS

	TITLE : SCSIMounter		
ACTION	*NAME*	*DATE*	*SIGNATURE*
WRITTEN BY		January 18, 2023	

REVISION HISTORY

NUMBER	DATE	DESCRIPTION	NAME

Contents

Chapter 1

SCSIMounter

1.1   SCSIMounter Version 2.0

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                SCSIMounter
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Removable media partition mounter for Kickstart 2.0 or higher.


                Versions

                Disclaimer

                Purpose

                Secondary use

                Requirements

                Before you begin

                Start SCSIMounter

                Panels

                Operation

                Keyboard Equivalents

                Tool Types

                Command Line Use

                Known Problems

                Credits

                Trademarks
```

1.2   Versions and History

```
                2.02 - Terrible bug fixed which caused SCSIMounter to fail on  ←
                    68000
      machines.
2.00 - SCSIMounter is a commodity now
      bi-lingual user interface
1.30 - New
                tool type
                'MASK'
1.20 - Minor changes to the CLI interface. New
                tool type
                'NOUNMOUNT'
1.10 - ReadArgs() CLI Interface added
1.04 - Now works with beta kickstarts (V 36)

                Keyboard equivalents
                for everything (including list view)
      Layout bug fixed
      No funtional changes.
1.03 - Made more tolerant :-)
1.02 - Fix for gvpscsi.device (GVP Series II) added.
```

1.3   Disclaimer

SCSIMounter may be freely distributed for non-commercial purposes only.
The entire risk as to the quality and performance of this program is
with you.

The author assumes no responsibility or liability whatsoever with
respect to your use or inability to use of this software.

1.4   Purpose

Most owners of removable media SCSI drives are stuck with the problem
that their software doesn't handle disk changes correctly.
For example, the current Commodore implementation doesn't mount the
partitions on a removable media SCSI drive (e.g. SyQuest or Ricoh)
when there was no cartridge in the drive at boot time.

Even worse, after another cartridge with a different Rigid Disk Block
(i.e. a different partition table) has been inserted, the system
gets totally confused and reports read/write errors when trying
to access the device which can lead to loss of important data on
the cartridge.

Until now, the only possibility to work around this problem was to
reboot the system every time a new cartridge has been inserted.

SCSIMounter allows you to mount and unmount partitions without rebooting
the machine. It sports a nice 2.0-style point-and-click user interface
that makes handling removable media a piece of cake.

1.5   Secondary use

SCSIMounter can also be used to mount partitions that have intentionally
not been mounted (e.g. the wb_1.3: partition on an A3000 when running
under 2.0). You don't have to create a mountlist for it!

1.6   Requirements

· Any Amiga with a SCSI host adaptor that supports the Commodore
  RDB (Rigid Disk Block) and 'SCSI Direct' standards.
· Kickstart 2.0 or higher (version 37.175 preferred)

The program has been tested on an A3000 with Commodore's scsi.device
and on an A2500 with a Microbotics HardFrame (HardFrame.device) but
I see no reason why it shouldn't work on any other host adaptor.

The program may be of no use for owners of certain GVP controllers
which support removable media correctly (Though not all GVP software
might do so).

1.7   Before you begin

                First, determine the name of the device driver of your hard disk
controller card.

    Examples of popular controllers and their devices:

    manufacturer/controller   device

    Commodore A590/A2091/A3000   scsi.device
    Old GVP   scsidev.device
    GVP Series II   gvpscsi.device
    Supra SupraDrive   harddisk.device
    Advanced Storage Systems Nexus   nexus.device
    Microbotics HardFrame   HardFrame.device
    ICD AdSCSI   icddisk.device
    IVS Trumpcard Professional   ivs_scsi.device
    BSC ALF2/3   ALF.device
    BSC Oktagon 2008   Oktagon.device

Click once one the SCSIMounter icon and select 'Information' from the
'Icons' menu.

Add or change the following
                tool type
              :

    DEVICE=Name_of_your_scsi_device_here

for example if you use a HardFrame controller write:

```
    DEVICE=HardFrame.device
```

Don't add path names here, only the name of the device is required.
Take care to capitalize the device name correctly (exec device names
are case sensitive!)

NOTE

SCSIMounter will not work with the Commodore A2090(A) controller card
because this product does not support Commodore's own 'SCSI direct' and
'RDB' standards properly.

1.8 Start SCSIMounter

SCSIMounter can be used either from Workbench or from the CLI.

* Workbench use

  Double click on the SCSIMounter icon. After a short time, a window
  with a listview and three buttons will appear (assuming
                CX_POPUP
                 is set to 'yes'). If the window doesn't appear several things ←
                    could
  have gone wrong:

  · Do you use Kickstart 2.0 or higher?
  · Did you specify and spell the name of your device driver correctly?
  · Does your host adaptor support RDB?
  · Is there any memory left on your system?
  · Do you have commodities.library (supplied with Workbench 2.04)
    in libs:?

* CLI use

  Type 'SCSIMounter gui device Name_of_your_scsi_device'
  example:

  1> SCSIMounter gui device HardFrame.device

  If the 'gui' argument is not given, SCSIMounter will be started
  in
                command line
                mode as described later in this document.

1.9 Panels

Main panel

UNIT

```
                 DRIVE TYPE

                 REV.

                 CAP.

                 STATUS

                 HIDE

                 UPDATE

                 MOUNT

                 Partition Selector panel

                 CHECKGADGETS

                 CANCEL

                 MOUNT

                 UNMOUNT ALL
```

1.10   Main panel

```
                The main panels shows all devices connected to the SCSI port  ←
                   with
information about their capacity and current status. The currently
selected unit is higlighted.

UNIT - This is the unit number of a SCSI device.
       Up to seven devices can be connected to the SCSI bus

DRIVE TYPE - Manufacturer and product specification

REV. - Revision of Hardware, Firmware and ROM of device

CAP. - Device capacity in Megabytes or Kilobytes

STATUS - Current Status of device. If the device is busy or
         not accessable due to the lack of media (if it's a
         removable media drive) the status will be set to
         'not ready'

There are three 'action buttons' present:

HIDE - Put SCSIMounter to sleep. To wake it up again, use the
       hotkey as specified in
              CX_POPKEY
                    program on you system partition. Closing the window
       using its closegadget has the same effect.

UPDATE - Re-scan SCSI bus and update display
```

```
MOUNT - Mount partitions on selected drive
```

For every action buttons there's also a menu item with identical
function. All buttons have
              keyboard equivalents
              (marked with an
underscore in the label text). The listview can be scrolled using
the arrow up and arrow down keys on your keyboard rather than using
the mouse.

There's one important menu item that has no button equivalent:

QUIT - Quits SCSIMounter and removes it from the list of commodity
       programs

1.11   Partition Selector panel

                This panel shows all available partitions and allows you to
individually mount them.

CHECKGADGETS - Determine if the particular partition should
               be mounted or not.

               checked: mount corresponding partition
               not checked: don't mount specified partition

Other partition Information on the partition selector -

        Number of Partition ==
               keyboard equivalent
                      Device name of partitions

        Size of partitions

        Dostype (FileSystem) of partition

           Examples of dostypes:

           DOS0 - Old filesystem partition
           DOS1 - FastFileSystem partition
           UNI1 - Unix boot partition
           RESV - Reserved partition

CANCEL - Go back to main panel, don't mount anything

MOUNT - Unmount all currently mounted partitions on the selected
        device and mount the new partitions (if any).

UNMOUNT ALL - If this gadget is checked, SCSIMounter will try
              to unmount all partitions currently mounted on the
              selected unit. If there are locks on this device
              there will be a 'BUSY' icon on your Workbench screen.

```
                    WARNING:

                    This option can be dangerous if used with non-removable
                    devices because it will unmount all partitions
                    including your boot partition (SYS:) forcing you to
                    reboot your computer. Use it with care!
```

1.12 Operation

SCSIMounter is pretty self-explanatory. Nevertheless, here are some
basic operation procedures.

* Mount a new cartridge

  · Click on the listview entry of the desired device. (Make sure its
    status is 'ready')

  · Click on the 'Mount' button

    The 'select partitions' panel will ask you which partitions to mount

  · Chosse the partitions you would like to mount

  · Make sure that the 'Unmount all' gadget is checked

  · Click on 'Mount' button on the partition selector panel

    SCSIMounter will automatically unmount all existing partitions
    on the device and mount the new partitions.

* Add a SCSI drive that was not present at boot time

  · Click on the 'Update' button

    The new drive's name and other information should appear in the
    listview

  · Click on the corresponding entry
  · Click on the 'Mount' button

    and so on...

* Mount a partition that has the automount flag not set

  · Click on the listview entry of the desired device. (Make sure its
    status is 'ready')

  · Click on the 'Mount' button

  · On the partition selector panel, make sure the 'unmount all' check
    gadget is *not* checked

  · Select 'Unselect All' from the 'Edit' menu or press 'Rt. Amiga-U'

· Click on the check gadget of the partition(s) to mount

· Click on the 'Mount' gadget or press 'Rt. Amiga-M'

WARNING !!!

   Don't unmount your boot partition (where you system files live) or
   you'll soon be forced to reboot you machine...

1.13 Keyboard Equivalents

* Requesters

```
  gadget          keystroke activation    menu shortcut
  ---------------------------------------------------------
  OK              O                        Rt. Amiga-O
  Cancel          C                        Rt. Amiga-C
```

* Main window & Project menu

```
  gadget          keystroke activation    menu shortcut
  ---------------------------------------------------------
  About           none                     Rt. Amiga-A
  Mount           M                        Rt. Amiga-M
  Update          U                        Rt. Amiga-U
  Quit            Q                        Rt. Amiga-Q
  Listview up     Arrowkey up              none
  Listview dowm   Arrowkey down            none
```

* Partition Selector

```
  gadget          keystroke activation    menu shortcut
  ---------------------------------------------------------
  Mount           M                        Rt. Amiga-M
  Cancel          C                        Rt. Amiga-C
  Select All      none                     Rt. Amiga-A
  Unselect All    none                     Rt. Amiga-U
  Partitions      0-9                      none
```


1.14 Tool Types

            The following tool types are supported:

            DEVICE
             - See above

NOUNMOUNT - If this tool type is set, the 'Unmount All' gadget is not

```
                checked by default and other partitions on the same unit are
                not removed. This option is useful if you don't use
                SCSIMounter with removable media. Don't set this tool type
                for removable media!

MASK       - Default DMA Mask. If not specified, the mask in the RDB will be
                used. Don't specify this tool type unless you know what
                you're doing

CX_POPUP   - If you want the SCSIMounter window to pop up the first time
                you double-click on the SCSIMounter disk icon, set this
                to yes:
                          CX_POPUP=yes

                If you want SCSIMounter to run in the background the first
                time it is being started e.g. if you're running it from the
                WBStartup drawer, set this to no:
                          CX_POPUP=no

CX_POPKEY  - Key combination for the commodity 'hotkey'. Default:
                          CX_POPKEY=alt shift f10

CX_PRIORITY Commodity priority. Default value:
                          CX_PRIORITY=0

LANGUAGE   - Determines the language to use for the user interface
                Possible values:
                          LANGUAGE=German
                          LANGUAGE=English
                This tool type overrides global language settings. Remove
                it if you want to use the system's default language...

PUBSCREEN  - Name of the public screen on which SCSIMounter should open.
```

1.15 Command Line Use

```
             For the advanced user, SCSIMounter can be used in command line  ←
                 mode
by specifying all required arguments on the command line. In CLI mode,
it is not possible to individually select partitions. All partitions on
the particular unit will be mounted.

Note that SCSIMounter will not attempt to open commodities.library
and add itself to the list of commodities in CLI mode except when
the 'GUI' argument (see below for more info) is given.

SCSIMounter supports 2.0-style ReadArgs() CLI options. The command
template looks like that:

D=DEVICE/K,U=UNIT/N,N=NOUNMOUNT/S,GUI/S,QUIET/S


             DEVICE
```

```
                           - Specifies the device used for you hard drive controller
               e.g. scsi.device.
               If this argument is left out, DEVICE defaults to
               'scsi.device'.

UNIT       - Specifies the SCSI unit number of the drive to be mounted.
             e.g. 6
             This argument is not required if the GUI option is used.

NOUNMOUNT - If this switch is set, SCSIMounter will not unmount old
            partitions. It basically works the same as the 'Unmount All'
            check gadget in the 'partition selector' panel. If you're
            mounting removable cartridges, use this option with care!

GUI        - If this keyword is used, SCSIMounter will open its
             'unit selector' panel as if it was started from Workbench.

QUIET      - Don't output information on selected unit and mounted
             partition but output fatal error messages. Ideal for use
             in shell scripts
```

Examples:

```
1> scsimounter device HardFrame.device unit 6 quiet
```

(mounts all partitions on SCSI unit 6 connected to a HardFrame
controller and is quiet about device and partitions)

```
2> scsimounter d u 3
Unit Drive Type                 Rev.    Cap.   Status
3    SyQuest   SQ555             FGJ     43 M   ready
Unmounting device: sq0
Mounting device  : sq0
```

(mounts all partitions on SCSI unit 3 connected to a Commodore
A590/A2091/A3091 controller and unmounts old partitions on the
same unit. Outputs full device and partition information)

1.16 Known Problems

· The program only removes the dos entries for the volumes and devices.
  It doesn't remove the filesystem process and associated memory
  allocations. Apparently the current FS doesn't support the ACTION_DIE
  packet. I'm still looking for a legal way to solve this problem.

1.17 Credits

```
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```

```
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              Amiga computer)

E-Mail: blatter@amiga.physik.unizh.ch
        cbmvax!cbmehq!cbmswi!zethos!blatter
```

Bug reports or suggestions are welcome. If you find this program useful,
feel free to send a donation to the above address.

This program uses Relog's ITools(tm), the object-oriented user interface
system (c) 1991 by Christian A. Weber and Relog AG.

```
Special thanks to  · Christian A. Weber
                   · Peter Simeon for the SCSI inquiry code
                   · Michael-Wolfgang Hohmann for the AmigaGuide
                     version of the manual.
                   · Andreas F. Bobak for the new icon and betatesting
```

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