

# **ProbeSCSI**

Ron Klinkien

|                      |
|----------------------|
| <b>COLLABORATORS</b> |
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|                  |                             |                |
|------------------|-----------------------------|----------------|
|                  | <i>TITLE :</i><br>ProbeSCSI |                |
| <i>ACTION</i>    | <i>NAME</i>                 | <i>DATE</i>    |
| WRITTEN BY       | Ron Klinkien                | April 12, 2022 |
| <i>SIGNATURE</i> |                             |                |

|                         |
|-------------------------|
| <b>REVISION HISTORY</b> |
|-------------------------|

| NUMBER | DATE | DESCRIPTION | NAME |
|--------|------|-------------|------|
|        |      |             |      |

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## Chapter 1

# ProbeSCSI

### 1.1 ProbeSCSI Guide - Contents

"ProbeSCSI V0.08 - the SCSI device peeker!"

~~~~~

About ProbeSCSI  
What is ProbeSCSI?

Requirements  
What you need to use it.

Usage  
How to use ProbeSCSI.

Legal Stuff  
The standard Disclaimer.

History  
The life of ProbeSCSI.

Future, Ideas  
What's up next?

Known Bugs  
Things not yet Fixed.

Acknowledges  
Just like it says.

### 1.2 ProbeSCSI - About

About :  
~~~~~

ProbeSCSI is a Shell command which queries the specified SCSI devices for

---

their SCSI configuration settings, and outputs this in great detail.

It can also gives you a list of currently attached SCSI devices with some compact info about them, such as Device Type, Size, SCSI Version etc...

Basically it is a combination of other existing tools like SCSIUtil, SCSI-Direct, InquirePage, BadBlocks and SCSIping (a SunOS tool).

My main goal was to make one tool which can replace all the above, and while I was programming it, I added extra features for the curious SCSI-device users among us ;)

## 1.3 ProbeSCSI - Requirements

Requirements:

~~~~~

To use ProbeSCSI, you need the following:

- An Amiga Computer :-)
- Running at least Kickstart 37.175 & Workbench 2.0
- And ofcourse a SCSI HostAdapter & SCSI Device(s) ;-)

ProbeSCSI is tested with a C= A2091 (ROM 6.6) and a GVP controller, but it will work with other SCSI controllers which support the SCSI direct command set too, I hope ;)...

## 1.4 ProbeSCSI - Usage

Usage:

~~~~~

ProbeSCSI may only be used from the Shell.  
(There will also be a GUI interface in the future)

The argument template is:

DEVICE, TARGET, VERBOSE/S

DEVICE Is the devicename of your SCSI controller. Eg. scsi.device for A2091/A3000 owners.

As of V0.08 this argument is optional, ProbeSCSI will now search your Amiga's device list for a SCSI device...

The following devices are known by ProbeSCSI V0.08:

| SCSI DeviceName | Controller    |
|-----------------|---------------|
| scsi.device     | C= A590/A2091 |
| z3scsi.device   | Z3 FastLane.  |

```

gvpscsi.device      GVP.
scsidev.device
pbscsi.device
DISscsi.device

```

(Etc.. well basically all devices with 'scsi' in them...)

```

nexus.device        Nexus.
evolution.device    Evolution.
harddisk.device
hddisk.device
icddisk.device
SCSI.device
IVS_SCSI.device
IVS_SCSIpro.device
X500.device
hd552x.device
supradirect.device  Supra.
extsys.device
alf.device          Alf.
scram8.device
scram16.device
ExpSys.device

```

So if you don't specify any device-name, ProbeSCSI will search for one of these controllers, and use it if it finds one. If not, (or you have more than one of these controllers (2nd.\* devices) you can specify them as argument.

```

TARGET      Is the SCSI ID of the SCSI device you want to probe. (0 - 6)
             This argument must be present if you want to Probe a Device.

VERBOSE     Prints extra information (the Raw format of the Pages)
             This is an optional switch mainly used for debugging.

```

Some Examples:

~~~~~

(1) You just want to see the SCSI devices connected to your controller.

Typing: ProbeSCSI

Will Output something like this. But Probably with less devices ;-)

ProbeSCSI V0.08 ©1994 Ron Klinkien. All rights reserved.

| ID | Vendor  | Product ID       | Rev  | Device | Mode   | Size    |
|----|---------|------------------|------|--------|--------|---------|
| 0  | QUANTUM | LP105S 910109405 | 2.8  | DISK   | CCS    | 100 MB  |
| 1  | SEAGATE | ST11200N SUN1.05 | 9500 | DISK   | SCSI-2 | 1005 MB |
| 2  | CONNER  | CP3500-540MB-3.5 | 3236 | DISK   | SCSI-2 | 518 MB  |
| 3  | FUJITSU | M2694ES-512      | 811F | DISK   | SCSI-2 | 1033 MB |
| 4  | ARCHIVE | Python 28454-XXX | 4.44 | TAPE   | SCSI-2 | EMPTY   |
| 5  | WANGTEK | 5525ES SCSI      | 73J  | TAPE   | SCSI-2 | QIC-525 |

```

6 MATSHITA CD-ROM CR-5XX      1.0c CD-ROM SCSI-1  621 MB
-----
7                               6.6 [scsi.device]

```

If the devicename of your SCSI controller is not known by ProbeSCSI, you will get this:

ProbeSCSI V0.08 ©1994 Ron Klinkien. All rights reserved.

```

Error: No SCSI device found in device list ...
       Specify one with 'ProbeSCSI <your.device>' ...

```

You can use ProbeSCSI with specifying a device name, but mail your SCSI device name to me, and it will be in the next release.

(2) Now you want to examine the Seagate ST11200N Drive a 'little' closer:

Typing: ProbeSCSI 1

The output will now look something like this :

```

----- ↵
                ProbeSCSI V0.08 - ©1994 by Ron Klinkien. All rights reserved.
----- ↵

```

Scanning 'scsi.device' Target 1 on 05-May-94 21:28:25 ...

```

Vendor Identification   : SEAGATE
Product Identification  : ST11200N SUN1.05
Revision Level         : 9500

```

[Drive Capacity Info Page]

```

----- ↵
Capacity in Blocks      : 2059140
Sector Size in Bytes    : 512
Capacity in Kb's       : 1029569 (1005 Mb)

```

[SCSI Inquiry Page]

```

----- ↵
Peripheral Qualifier    : 0 Currently Connected
Peripheral Device Type  : 0 Direct Access Device (eg. Hard Disk)
Device Type Modifier    : 0
Removable Medium       : No
ISO Version             : 0
ECMA Version           : 0
ANSI Approved Version   : 2 (ANSI X3.131-1990)
Async Event Notification : Not Supported
Terminate IO Process Msg : Not Supported
Response Data Format     : 2 (SCSI-2)

```

---

```

Additional List Length      : 8f
Inquiry 5 & 6 (Reserved)  : 00, 00
Relative Addressing        : Not Supported
Wide Bus 32 Support        : Not Supported
Wide Bus 16 Support        : Not Supported
Synchronous Transfer       : Supported
Linked Commands            : Not Supported
Tagged Command Queuing     : Supported
Soft Reset                 : Not Supported
Comment 1                  : 00877117
Comment 2                  :
Comment 3                  :
    
```

```

[Mode Sense Page]          Current  Changeable  Default      ↔
  Saved
----- ↔
    
```

```

Mode Sense Data Length    193      193      193      ↔
  193
Medium Type                0        0        0        ↔
  0
Device Specific Parameter  0        0        0        ↔
  0
Block Descriptor Length   8        8        8        ↔
  8
Density Code              Default   Default   Default   ↔
  Default
Number of Blocks          0        0        0        ↔
  0
Block Size
    
```

```

[0x01] [Read-Write Error Rec. Page] Current  Changeable  Default      ↔
  Saved
----- ↔
    
```

```

Page Can be Saved         True      True      True      ↔
  True
Page Length               10       10       10       ↔
  10
Auto Write Reallocation Enabled False     True      False     ↔
  False
Auto Read Reallocation Enabled True      True      True      ↔
  True
Transfer Block            True      True      True      ↔
  True
Read Continuous           False     False     False     ↔
  False
Enable Early Recovery     False     True      False     ↔
  False
Post Error                 True      True      True      ↔
  True
Disable Transfer on Error False     True      False     ↔
  False
Disable Correction        False     True      False     ↔
  False
Read Retry Count          16       255     16       ↔
  16
    
```



|                          |       |     |       |   |
|--------------------------|-------|-----|-------|---|
| Correction Span          | 48    | 0   | 48    | ↔ |
| 48                       |       |     |       |   |
| Head Offset Count        | 0     | 0   | 0     | ↔ |
| 0                        |       |     |       |   |
| Data Strobe Offset Count | 0     | 0   | 0     | ↔ |
| 0                        |       |     |       |   |
| Write Retry Count        | 3     | 255 | 3     | ↔ |
| 3                        |       |     |       |   |
| Recovery Time Limit      | 65535 | 0   | 65535 | ↔ |
| 65535                    |       |     |       |   |

|                                    |         |            |         |   |
|------------------------------------|---------|------------|---------|---|
| [0x02] [Disconnect-Reconnect Page] | Current | Changeable | Default | ↔ |
| Saved                              |         |            |         |   |

-----↔

|                          |      |      |      |   |
|--------------------------|------|------|------|---|
| Page Can be Saved        | True | True | True | ↔ |
| True                     |      |      |      |   |
| Page Length              | 14   | 14   | 14   | ↔ |
| 14                       |      |      |      |   |
| Buffer Full Ratio        | 128  | 255  | 128  | ↔ |
| 128                      |      |      |      |   |
| Buffer Empty Ratio       | 128  | 255  | 128  | ↔ |
| 128                      |      |      |      |   |
| Bus Inactivity Limit     | 10   | 0    | 10   | ↔ |
| 10                       |      |      |      |   |
| Disconnect Time Limit    | 0    | 0    | 0    | ↔ |
| 0                        |      |      |      |   |
| Connect Time Limit       | 0    | 0    | 0    | ↔ |
| 0                        |      |      |      |   |
| Maximum Burst Size       | 0    | 0    | 0    | ↔ |
| 0                        |      |      |      |   |
| Data Transfer Disconnect | 0    | 0    | 0    | ↔ |
| 0                        |      |      |      |   |

|                             |         |            |         |   |
|-----------------------------|---------|------------|---------|---|
| [0x03] [Format Device Page] | Current | Changeable | Default | ↔ |
| Saved                       |         |            |         |   |

-----↔

|                            |      |       |      |   |
|----------------------------|------|-------|------|---|
| Page Can be Saved          | True | True  | True | ↔ |
| True                       |      |       |      |   |
| Page Length                | 22   | 22    | 22   | ↔ |
| 22                         |      |       |      |   |
| Tracks per Zone            | 15   | 65535 | 15   | ↔ |
| 15                         |      |       |      |   |
| Alternate Sectors per Zone | 12   | 65535 | 12   | ↔ |
| 12                         |      |       |      |   |
| Alternate Track per Zone   | 0    | 0     | 0    | ↔ |
| 0                          |      |       |      |   |
| Alternate Track per Volume | 30   | 65535 | 30   | ↔ |
| 30                         |      |       |      |   |
| Sectors per Track          | 74   | 0     | 74   | ↔ |
| 74                         |      |       |      |   |
| Bytes per Physical Sector  | 512  | 0     | 512  | ↔ |
| 512                        |      |       |      |   |
| InterLeave                 | 1    | 65535 | 1    | ↔ |
| 1                          |      |       |      |   |

|                                              |         |            |         |   |
|----------------------------------------------|---------|------------|---------|---|
| Track Skew Factor<br>13                      | 13      | 0          | 13      | ↔ |
| Cylinder Skew Factor<br>21                   | 21      | 0          | 21      | ↔ |
| Soft Sector Formatting<br>False              | False   | False      | False   | ↔ |
| Hard Sector Formatting<br>True               | True    | False      | True    | ↔ |
| Removable<br>False                           | False   | False      | False   | ↔ |
| Surface Allocation<br>0                      | 0       | 0          | 0       | ↔ |
| [0x04] [Rigid Disk Geometry Page]<br>Saved   | Current | Changeable | Default | ↔ |
| -----↔                                       |         |            |         |   |
| Page Can be Saved<br>True                    | True    | True       | True    | ↔ |
| Page Length<br>22                            | 22      | 22         | 22      | ↔ |
| Number of Cylinders<br>1872                  | 1872    | 0          | 1872    | ↔ |
| Number of Heads<br>15                        | 15      | 0          | 15      | ↔ |
| Start Write Precomp Cylinder<br>0            | 0       | 0          | 0       | ↔ |
| Start Reduced Write Current Cyl<br>0         | 0       | 0          | 0       | ↔ |
| Drive Step Rate<br>0                         | 0       | 0          | 0       | ↔ |
| Landing Zone Cylinder<br>0                   | 0       | 0          | 0       | ↔ |
| Rotational Pos. Locking<br>0                 | 0       | 3          | 0       | ↔ |
| Rotational Offset<br>0                       | 0       | 255        | 0       | ↔ |
| Spindle Rotations per Min. (RPM)<br>5411     | 5411    | 0          | 5411    | ↔ |
| [0x07] [Verify Error Recovery Page]<br>Saved | Current | Changeable | Default | ↔ |
| -----↔                                       |         |            |         |   |
| Page Can be Saved<br>True                    | True    | True       | True    | ↔ |
| Page Length<br>10                            | 10      | 10         | 10      | ↔ |
| Enable Early Recovery<br>False               | False   | True       | False   | ↔ |
| Post Error<br>False                          | False   | True       | False   | ↔ |
| Disable Transfer on Error<br>False           | False   | True       | False   | ↔ |
| Disable Correction<br>False                  | False   | True       | False   | ↔ |

|                                  |         |            |         |   |
|----------------------------------|---------|------------|---------|---|
| Verify Retry Count               | 16      | 255        | 16      | ↔ |
| 16                               |         |            |         |   |
| Verify Correction Span           | 48      | 0          | 48      | ↔ |
| 48                               |         |            |         |   |
| Verify Recovery Time Limit       | 65535   | 0          | 65535   | ↔ |
| 65535                            |         |            |         |   |
| [0x08] [Caching Page]            | Current | Changeable | Default | ↔ |
| Saved                            |         |            |         |   |
| -----↔                           |         |            |         |   |
| Page Can be Saved                | True    | True       | True    | ↔ |
| True                             |         |            |         |   |
| Page Length                      | 18      | 18         | 18      | ↔ |
| 18                               |         |            |         |   |
| Write Cache Enable               | False   | True       | False   | ↔ |
| False                            |         |            |         |   |
| Multiplication Factor            | False   | False      | False   | ↔ |
| False                            |         |            |         |   |
| Read Cache Disable               | False   | True       | False   | ↔ |
| False                            |         |            |         |   |
| Demand Read Retention Priority   | 0       | 0          | 0       | ↔ |
| 0                                |         |            |         |   |
| Demand Write Retention Priority  | 0       | 0          | 0       | ↔ |
| 0                                |         |            |         |   |
| Disable Pre-fetch X-fer Length   | 65535   | 65535      | 65535   | ↔ |
| 65535                            |         |            |         |   |
| Minimum Pre-fetch                | 0       | 65535      | 0       | ↔ |
| 0                                |         |            |         |   |
| Maximum Pre-fetch                | 118     | 65535      | 118     | ↔ |
| 118                              |         |            |         |   |
| Maximum Pre-fetch Ceiling        | 65535   | 0          | 65535   | ↔ |
| 65535                            |         |            |         |   |
| [0x0a] [Control Mode Page]       | Current | Changeable | Default | ↔ |
| Saved                            |         |            |         |   |
| -----↔                           |         |            |         |   |
| Page Can be Saved                | True    | True       | True    | ↔ |
| True                             |         |            |         |   |
| Page Length                      | 10      | 10         | 10      | ↔ |
| 10                               |         |            |         |   |
| Report Log Exception Condition   | False   | True       | False   | ↔ |
| False                            |         |            |         |   |
| Queue Algorithm Modifier         | 1       | 0          | 1       | ↔ |
| 1                                |         |            |         |   |
| Queue Error Management           | 0       | 0          | 0       | ↔ |
| 0                                |         |            |         |   |
| Disable Queuing                  | 0       | 1          | 0       | ↔ |
| 0                                |         |            |         |   |
| Enable Extended Contingent Alle. | 0       | 0          | 0       | ↔ |
| 0                                |         |            |         |   |
| Ready AEN Permission             | 0       | 0          | 0       | ↔ |
| 0                                |         |            |         |   |
| Unit Attention AEN Permission    | 0       | 0          | 0       | ↔ |
| 0                                |         |            |         |   |

|                                   |         |            |         |        |
|-----------------------------------|---------|------------|---------|--------|
| Error AEN Permission              | 0       | 0          | 0       | ↔      |
| 0                                 |         |            |         |        |
| Ready AEN Holdoff Period          | 0       | 0          | 0       | ↔      |
| 0                                 |         |            |         |        |
| [0x0c] [Notch and Partition Page] | Current | Changeable | Default | ↔      |
| Saved                             |         |            |         |        |
| -----↔                            |         |            |         |        |
| Page Can be Saved                 | True    | True       | True    | ↔      |
| True                              |         |            |         |        |
| Page Length                       | 22      | 22         | 22      | ↔      |
| 22                                |         |            |         |        |
| Notched Drive                     | 1       | 0          | 1       | ↔      |
| 1                                 |         |            |         |        |
| Logical or Physical Notch         | 0       | 1          | 0       | ↔      |
| 0                                 |         |            |         |        |
| Maximum Number of Notches         | 23      | 0          | 23      | ↔      |
| 23                                |         |            |         |        |
| Active Notch                      | 0       | 65535      | 0       | ↔      |
| 0                                 |         |            |         |        |
| Starting Boundary                 | 0       | 0          | 0       | ↔      |
| 0                                 |         |            |         |        |
| Ending Boundary                   | 0       | 0          | 0       | ↔      |
| 0                                 |         |            |         |        |
| Pages Notched                     | 0x0007  | 0x0000     | 0x0007  | 0 ↔    |
| x0007                             |         |            |         |        |
| [0x34] [Vendor Unique Page Code]  | Current | Changeable | Default | ↔      |
| Saved                             |         |            |         |        |
| -----↔                            |         |            |         |        |
| Page Can be Saved                 | True    | True       | True    | ↔      |
| True                              |         |            |         |        |
| Page Length                       | 30      | 30         | 30      | ↔      |
| 30                                |         |            |         |        |
| [0x38] [Vendor Unique Page Code]  | Current | Changeable | Default | ↔      |
| Saved                             |         |            |         |        |
| -----↔                            |         |            |         |        |
| Page Can be Saved                 | True    | True       | True    | ↔      |
| True                              |         |            |         |        |
| Page Length                       | 0       | 0          | 0       | ↔      |
| 0                                 |         |            |         |        |
| [0x00] [Vendor Unique Page Code]  | Current | Changeable | Default | ↔      |
| Saved                             |         |            |         |        |
| -----↔                            |         |            |         |        |
| Page Can be Saved                 | True    | True       | True    | ↔      |
| True                              |         |            |         |        |
| Page Length                       | 2       | 2          | 2       | ↔      |
| 2                                 |         |            |         |        |
| [Primary Defects List]            | No      | Cyl        | Head    | Sector |

----- ↵

Found 6 entries ...

|   |      |   |    |
|---|------|---|----|
| 0 | 215  | 5 | 64 |
| 1 | 587  | 0 | 49 |
| 2 | 830  | 3 | 32 |
| 3 | 996  | 7 | 48 |
| 4 | 1650 | 0 | 38 |
| 5 | 1651 | 0 | 38 |

[Grown Defects List]            No      Cyl Head Sector

----- ↵

No entries found ...

- (3) Offcourse you can redirect the output of ProbeSCSI to a file and so store the info of your SCSI devices (and the devices of your friends), for later reference:

Just Type:    ProbeSCSI scsi.device 1 >WORK:<yourfilename>

If you have some output of exotic SCSI devices, like JukeBoxes, Scanners & Printers, mail them to me! I don't have such devices to tryout...

## 1.5 ProbeSCSI - The Legal Stuff

Legal Stuff:

~~~~~

ProbeSCSI was written by Ron Klinkien between February - May of 1994.

And is public domain.

You can use it as you like, but AT YOUR OWN RISK!.

The author cannot be held responsible for any damage caused by the use or misuse of this program.

If you have Suggestions, Bug-Reports or PostCards that you want to Mail or Send, I can be Reached in one of the following ways:

I am SysOp of the Amiga Hardware BBS:

```
{
+31-1840-17373 - 24Hrs a Day - USRobotics 14k4 DualStd - 1Gb+ Capacity -
NLA-Net: 14:100/103 FidoNet: 2:285/302 GERNet: 21:103/33
}
```

Reachable through E-Mail at XS4ALL:

```
{
ronan@hacktic.nl
}
```

---

And by SnailMail (for PostCards ;) with:

```
{
  Ron Klinkien
  Elzenhof 186
  3363HH Sliedrecht
  Netherlands, Europe.
}
```

'Remember, Information is not knowledge; Knowledge is not Wisdom;  
Wisdom is not truth; Truth is not beauty; Beauty is not love;  
Love is not music; Music is the best.'

-- Frank Zappa

## 1.6 ProbeSCSI - History

Revision History:

~~~~~

| Date      | Ver  | Comment                                                                                                                                                                                                                                                                                                                                                                                                 |
|-----------|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 05-May-94 | 0.08 | Fixed Bug causing ProbeSCSI to fail if there was no device on ID 0 (Thanks to Kees Huizer)<br><br>Added GetDevName() routine, so you don't have to specify an SCSI device name anymore (well most of you) ...<br>NOTE: not all supported devices are tested!!                                                                                                                                           |
| 30-Apr-94 | 0.07 | Added a SCSI Device Lister Option. (Just specify a scsi devicename only to try it out...)<br><br>Added better check to see if user is running 2.04(+)<br><br>Added Time & Date String in Probe Output for later ref.                                                                                                                                                                                    |
| 16-Apr-94 | 0.06 | Recompiled with Optimize on, etc. Released it on AmiNet.                                                                                                                                                                                                                                                                                                                                                |
| 27-Feb-94 | 0.05 | Fixed Problems with Devices which don't Support Saved Mode Pages, all the Pages will be Displayed now, with a Note if the Format is not Correct.<br><br>If Density Code is Known, it will be Filled-In instead of a Hex Number.                                                                                                                                                                         |
| 20-Feb-94 | 0.04 | Changed "Yes/No" to "Supported/Not Supported"<br>Error Output Changed:<br>o Sense Data is only displayed with VERBOSE on.<br>o Added over 200 Official SCSI Error Codes (Text)<br><br>Changed some Routines to perform the following:<br>o Only ReadCapacity() on Direct, WORM & Optical Devices.<br>o Do not ModeSense() on Processor Devices.<br>o Only ReadDefectData() on Direct & Optical Devices. |

---

12-Feb-94 0.03 Some small cosmetic changes.  
Defect Lists routines added.  
Usage Template Altered & Template Bug Fixed.

10-Feb-94 0.02 SCSI-2 ANSI Number added.  
Drive Manufacturer/Type also in Header Output.

08-Feb-94 0.01 Very First Version (Internal)

## 1.7 ProbeSCSI - Future, Ideas

Future, Ideas:

~~~~~

- o Make the Output of ProbeSCSI so complete as possible, following the SCSI1/2 specifications.  
Things to add are Log Pages, Diagnostic Pages & better SCSI Printer Support
- o I'm writing an GUI frontend at this moment. (Any Suggestions are welcome!)
- o Make a Write/Modify Part in ProbeSCSI (or make another tool along with it) so you can alter/save the settings of your drives.  
(I think this part really needs a GUI)

But if YOU have any ideas on what features ProbeSCSI is missing, please let me know (See

Legal Stuff  
for my address)

## 1.8 ProbeSCSI - Known Bugs

Known Bugs:

~~~~~

Because there are a lot of Vendor Specific parameters in the SCSI devices out there, (which are not specified in the ANSI SCSI Documents) the Output of ProbeSCSI with some drives may not look so nice. This is because ProbeSCSI cannot interpret that OutPut correctly, but if you have some parameter/page information about your SCSI drives please mail/send them to me (See

Legal Stuff  
for address)

You may also Mail/Send other Bugs/MisFeatures/Ideas to me ofcourse ;)

---

## 1.9 ProbeSCSI - Acknowledges

Acknowledges:

~~~~~

Original version (called scsiping) written by Poul-Henning Kamp  
(phk@login.dkuug.dk).

Ported to SunOS 5.x by John DiMarco (jdd@cdf.toronto.edu).

Significant enhancements by Jan Wortelboer (janw@fwi.uva.nl).

Ported to AmigaDOS 2.04+ by Ron Klinkien. (ronan@hacktic.nl).  
(well actually a complete rewrite, and a lot of features added,  
only the output format reminds of the original scsiping).

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