tape-handler

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COLLABORATORS			
	TITLE : tape-handler		
ACTION	*NAME*	*DATE*	*SIGNATURE*
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REVISION HISTORY			
NUMBER	DATE	DESCRIPTION	NAME

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Chapter 1

tape-handler

1.1 Welcome to the Docs

```
              tape-handler V1.1 (21.09.1997)

              Copyright ©1997 by Arne Meyer
              e-mail: arne@uni-paderborn.de

                tape-handler is SHAREWARE

                 Kickstart V3.x required
```

```
Welcome to the tape-handler Documentation Guide File

   Disclaimer
   Copyright            Legal stuff
   About                What's this ?
   Features             Why should I use it ?
   Requirements         What do I need ?
   Install              how to install tape-handler
   Sample Mountlist entry Mountlist
   The MT Command       How to use the MT Command
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   How to Pay           How to pay the registration fee
```

1.2 disclaimer

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Disclaimer:
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THIS SOFTWARE IS PROVIDED "AS IS". NO WARRANTIES ARE MADE, EITHER
EXPRESSED OR IMPLIED, WITH RESPECT TO RELIABILITY, QUALITY, PERFORMANCE,
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THE AUTHOR ASSUME NO RESPONSIBILITY OR LIABILITY FOR ANY DAMAGE OR
LOSSES RESULTING FROM THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE OR LOSS.

1.3 Copyright

The tape-handler, support files and its documentation are
(C) 1997 by Arne Meyer. All rights reserved.

The right of using this program is granted to you by paying the
SHAREWARE-fee of 10 U$ (15 DEM) or equivalent to the author.

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may be copyrighted by companies or trademarks of companies or persons.

You are NOT ALLOWED to ship this software (not even this SHAREWARE
version), full or single parts of it, with your commercial product
without prior written permission by the author.

This SHAREWARE release of the tape-handler may only be put on shareware
compilations such as the Aminet CD-Rom or equivalent.

1.4 What is this ?

tape-handler is an AmigaDos handler for
SCSI Sequential Access Devices (Streamer).

1.5 Features

Features:

-double-buffered-asynchronous I/O for maximum streaming performance
-controllable with an external program called mt (blocksize, density,
 rewind, skip filemarks, ...)

1.6 Requirements

Requirements:

Software: OS 3.0 or better
    Setpatch 40.16 or better
    (Don't ask me for a 2.x or 1.x Version. These Versions of AmigaDos
    are outdated for years now !!!)

```
Hardware: SCSI Controller with SCSI-direct Interface
    SCSI Streamer (DAT/8mm/QIC/...)
    SCSI Host Adapter
```

```
Testing Environment:
```

The tape-handler and all support programs were developed and tested on an
Amiga 2000 with an A2060 CPU Board from Phase5. It was also tested on a
standard A4000 with an Oktagon 2008 SCSI-Controller.

The following Devices were used for testing:

```
   Exabyte EXB8500,
   Exabyte EXB8500c,
   Exabyte EXB8505,
   Tandberg TDC3660
```

1.7   Installation

```
Installation:
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```

 There is currently no Installer script supplied with tape-handler, but
 installation is very easy.

 (1) Copy tape-handler to your l: directory.
 (2) Copy mt to your c: directory.
 (3) Create Mountlist entry

1.8   How to use this thing

```
Usage:
------
```

 Store Data on the Tape using tar :
 ----

  tar -fcv <DEVICENAME> <FILES>

  eg. if you want to store the contents of your SYS: Partition to your
  tape drive named TAPE: you will type

  tar -fcv TAPE: SYS:

  or if you don't want console output

  tar -fc TAPE: SYS:

 Restore Data from Tape using tar :

```
tar -fxv <DEVICENAME> <FILES>

change to the directory where you want to restore the data
and then type

tar -fxv TAPE:

or

tar -fx TAPE:


for more information on tar read the documentation supplied
by the many tar ports from aminet/util/arc
```

1.9 Sample Mountlist entry

```
Sample devs/dosdrivers entry:
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 ;=====================================================
 Handler   = l:tape-handler
 Stacksize = 4096
 Priority  = 5
 GlobVec   = -1
 Mount     = 1
 /*        device/unit/lun/blksize/blocks/buffers/DI=DiskChangeInterrupt|PR= ←
    Process (see Docs) */
 Startup   = scsi.device/4/0/10240/10/120/DI
 ;=====================================================

The only thing you have to configure is the Startup line of the
supplied Mountfile. The sections are described below. Separate
the entrys with a '/' and no spaces as shown in the above example.

  device  = scsi device name ( e.g. 2060scsi.device )
  unit    = scsi unit of your tape device
  lun     = must be 0 ( other values not supported at the moment of
            writing this Guide )
  blksize = default blocksize ( if your streamer supports only one
            blocksize you must set the blocksize to that value )
  blocks  = the number of blocks to be stored in one queue entry
  buffers = the maximum number of queue entrys that are used. maximum
            memory usage for data is calculated as follows:
            blksize*blocks*buffers ( if you have less memory the
            handler tries to use as much memory as it can get. )
  DI        if Diskchange Interrupt is supported by your Device
            then you should use this one, otherwise use PR
            (this one (DI) is known to work under 2060scsi.device)
  PR        this will start a separate process that will simulate
            the Diskchange Interrupt
            (this one (PR) was mainly written because a friends
            Oktagon2008 crashed with DI upon Tape Change)
```

1.10 Tape Control Program

'mt' is used to change parameters during runtime

```
DEVICE                 - The name of your Mountlist entry for the tape
                         drive. The environment Variable
                         'tape-handler/TAPE' is scanned if omitted
REW=REWIND/S           - Position the Tape in front of the first file
OFFL=EJECT/S           - Eject the Tape
EOM=EOD/S              - Skip to the end of the last backup on the tape.
                         The next write command will create a new file
                         on the tape
SFM=SKIPFILEMARK/K     - SFM <num> will skip <num> Filemarks, where num
                         can be positive or negative
                         This will skip Filemarks, not Files, so if you
                         skip one Filemark back ( SFM -1 ) and the Tape
                         was positioned after the Filemark it will be
                         positioned in front of the same Filemark ! The
                         only value supported in the Shareware version
                         is 1
SETDENSITY/K           - Change the Density of the Streamer. This will
                         NOT save anything to the Streamers nonvolatile
                         RAM. Most Streamer only Support this at the
                         beginning of a Tape.
SETBLK/K               - Change the Blocksize that is used to read/write
                         Data ( UNIX default is 10240 )
STAT=STATUS/S          - Print staus information for this Device
LOCATE/K               - not tested, use at your own risk !!
SLF=SKIPTOLASTFILE/S   - Skip to last File on Tape os you can easily
                         Restore the last Backup you wrote to the Tape
SD=SHOWDENSITIES/S     - Show all known Density Codes
```

1.11 Known Bugs

```
Known Bugs:
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V1.0 - none
```

If you think you found a bug in tape-handler or mt, first check if the
problem also occures on a standard System (no MCP, MCX, or other patches
to the System.). Check out if the bug is reproduceable. If possible,
send an Enforcer output, a list of hardware/software installed in your
computer and your mount entry for the tape device.

1.12 Version History

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History:
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21.9.1997 V1.1 updated guide->dosdriver section
               minor changes in mt and the handler itself
```

```
13.9.1997 V1.0 Initial Release
```

1.13 Who wrote it

```
Author:
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              33100 Paderborn
              Germany

  e-mail:     arne@uni-paderborn.de
```

1.14 How to Register

```
This software is SHAREWARE. You may use it for an unlimited period of time,
but if you want to get rid of the annoying SHAREWARE-Requesters and want
to use the full power of mt you will have to pay the SHAREWARE-fee
of 10 U$ ( 15 DEM ) or equivalent to the author.
You will then receive a unique version of the tape-handler without
limitations. The fastest way to receive your version of the tape-handler
is via e-mail.

Following limitations are in this Shareware Version

 - nerv requesters during read/write operations

 - mt can only skip one filemark every time

 - density change is not supported

After paying the SHAREWARE-fee you will receive your personal copy of the
tape-handler via e-mail. This is currently the only method for you to
receive this software. If you send me your pgp public key I will send
the program encrypted with that keyfile, so you can be sure only you will
receive the tape-handler.
```

1.15 How to Pay

```
You may send cash money, euro-cheques, or transfer
the 10 U$ ( 15 DM (German) ) @{ "shareware" LINK shareware } fee to the following ←
    account
Make sure you also send your e-mail address.

  Sparkasse Paderborn,
  BLZ   47250101
  Ktnr. 29115201
```

If Cheques, then only DM-Cheques or Euro-Cheques please .

If you have questions, send an e-mail to me.