in

COLLABORATORS

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REVISION HISTORY

NUMBER	DATE	DESCRIPTION	NAME

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Chapter 1

in

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<pre>
                                    MFormat v1.8

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                        By Eric Sauvageau (Merlin)
                                Shareware

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            From Same Author
</pre>

1.2 About

MFormat is a disk formatter utility I wrote because I wasn't ←
            satisfied
with Commodore's Format command. I wanted to be able to install the disk
and to disable verifying (if I only want a quickly formatted disk for
unpacking some archive). I also wanted to be able to save my settings in a
prefs file, so I no longer have to always change the volume name to

something else than "Empty" when I get tired of that name. Finally, I
wrote MFormat because I wanted to learn to build a GUI, to use a device,
and to see how powerfull Amiga E could be. I'm not disappointed. ;)

Features

Shareware Fee

1.3 Features

  \textdegree{} Requires Kickstart 2.04 and up (support some 3.x features if
    running under Kickstart 3.0 and up).
  \textdegree{} Can install your disks with a bootable bootblock.
  \textdegree{} Verify option can be turned on/off.
  \textdegree{} The GUI can be opened even when started from CLI.
  \textdegree{} Support for DC-OFS and DC-FFS when running under 3.0 and up.
  \textdegree{} Should be able to format any normal filesystem, including CrossDOS
    (PCx:) and high density floppies.
  \textdegree{} Can create Disk.info and Trashcan.info icons.
  \textdegree{} Favorite settings can be saved in a prefs file.
  \textdegree{} Auto Start feature, allowing you to easily format a bunch of disks
    without having to press "F" at each disks.
  \textdegree{} Automatic Volume Name increment option.
  \textdegree{} Can be opened on any public screen.
  \textdegree{} Device filter, to prevent any accidental HD formatting.

  The latest version can always be freqed from 1:242/907.0, by requesting
for the magic name MFORMAT.

1.4 Shareware fee

  If you like this program and start using it regularly, then you must send
me a Shareware fee of $10 CAN (around $7 US). Either send cash (CAN
or US), or a postal money order to:

          Eric Sauvageau
          5336 10th Avenue
          Montreal, Qc
          Canada
          H1Y-2G6.

  I will also accept a registered version of a program you wrote, as an
alternative to the Shareware fee.

REMEMBER: Support will always help a Shareware author to decide if he must
continue to improve his program, or simply throw it in the Trashcan and do
something else more usefull to him... Note that feature requests coming
from people who sent the shareware fee will always receive more
consideration...

1.5   Installation

    To Install MFormat, just double-click on the "Install-MFormat" icon
(or, from the directory where you extracted MFormat, type "Install-MFormat"
in a Shell). The install script will ask you if you wish to install MFormat
over the original Format (which is the recommended way to do it if you wish
to use MFormat by using the "Initialize disk..." from the Workbench
pull-down menu.) It will also ask you which icon you wish to use. MFormat
will then be copied in your SYS:System/ directory.

    MFormat also supports a few tooltypes:

    PUBSCREEN=pubname: If you wish to have MFormat opened on another
public screen than the Workbench.

    You can also tell MFormat to not open immediately its window when started
from Workbench, but rather to go to sleep, and add an "Awake MFormat" item
to the Workbench "Tools" menu. Just use the tooltype 'MENUFY=YES'. This
could be usefull if you want to put MFormat in your WBStartup drawer. If
you do, don't forget to also add the 'DONOTWAIT' tooltype.

    Please, take the time to read this manual. A format program can be
VERY dangerous if misused!

1.6   GUI Usage

                  When MFormat by double-clicking its icon, or from the Shell ←
                     with the
'GUI' argument, a window will open, with various gadgets and some pull-down
menus that controls every aspects of MFormat. You can also press the
related hotkey to select a gadget or an option.

    The window features a close gadget (in the upper left corner), and a Zoom
gadget in the right corner. Clicking on the Zoom gadget will resize the
window to the dimension of a title bar, and clicking again on it will
re-open the window at its usual dimension.

                 Volume Name
                 gadget
                 Auto Inc
                 gadget

                 Increment
                 gadget
                 Drives
                 listview

                 FileSystem
                 gadget
                 Format
                 button

                 Create Icons

```
                         gadget
                         Abort
                         button

                         Install
                         gadget
                         Status
                         display

                         Verify
                         gadget
                         Project
                         pull-down

                         Quick
                         gadget
                         Prefs
                         pull-down

                         Auto Start
                         gadget
                         Settings
                         pull-down
```

1.7   Volume Name gadget

(Hotkey: 'N')

   This text gadget located at the upper left corner of the window will
contain the volume name that will be used as the disk label when the format
will be completed. By default, it is "Empty". Just click on this gadget
and type in the volume name you want (a maximum of 30 characters are
allowed). Note that you DON'T have to append a ":" at the end of the
volume's name.

1.8   Increment counter gadget

                  (Hotkey: 'M')

   This integer gadget is located to the right of the Volume Name gadget.
Ghosted if the
                  Auto Inc
                  gadget isn't checked, this gadget will act as
a counter. When formatting with the "Auto Inc" feature turned on, this
value will be appended to the Volume Name, and incremented by one when the
formatting is finished. You can adjust this value as you wish, by clicking
on this gadget, and entering any value from 0 to 9999.

1.9   FileSystem gadget

(Hotkey: 'S')

   Clicking on this cycle gadget will let you select which file system you
want to use for the disk that will be formatted. The available file systems
are:

  - OFS (OldFileSystem, compatible with any Kickstart version)
        (drive/partition with a capacity smaller than 52 Mb)

  - FFS (FastFileSystem, compatible with Kickstart 2.0 and up)
  - INT-OFS (International OldFileSystem, compatible with Kick 2.0 and up)
  - INT-FFS (International FastFileSystem, compatible with Kick 2.0 and up)

  - DC-OFS (DiskCache OldFileSystem, only available on Kick 3.0 and up)
  - DC-FFS (DiskCache FastFileSystem, only available on Kick 3.0 and up)

   This gadget will be unavailable when formatting a CrossDOSS device
(like PC0: or PC1:).

   Note: When formatting an alien device, check the documentation. If it
         doesn't specifically support one of these filesystems (like a CP/M
         or Mac filesystem), then leave this gadget on "OFS".

1.10   Create Icons gadget

(Hotkey: 'C')

   Clicking on this gadget will enable/disable the creation of the Disk.info
and the Trashcan icons when formatting. Checking this box will enable this
feature.

1.11   Install gadget

(Hotkey: 'I')

   Clicking on this gadget will tell MFormat if it should install a bootable
bootblock on the disk. Checking this box will enable this feature. This
gadget will only available when formatting a drive controlled by the
trackdisk.device (that is, a DFx: floppy drive).

1.12   Verify gadget

                (Hotkey: 'V')

   Clicking on this gadget will tell MFormat if it should verify each
formatted track. It is safer to leave this option turned "ON", unless you

want your disk to be formatted faster, but at the risk of having some errors on your disk if it is bad. This gadget will be ghosted if you have selected the
                        Quick
                        option (since it only applies to whole disk formatting).

1.13   Quick gadget

(Hotkey: 'Q')

   Clicking on this gadget will tell MFormat if it should format the whole disk or only re-initialize (Quick Format) it. Only enable this option if you are re-initializing an already formatted disk.

1.14   Auto Start gadget

(Hotkey: 'A')

   Clicking on this gadget will enable/disable the auto-formatting. When this option is turned on, MFormat will check the drive currently selected in the drive list. As soon a disk will be inserted in that drive, it will format it (giving you 5 seconds to either click on the "Abort" gadget or press "A" key to cancel formatting). When you will select this feature, a requester will appear, reminding you to be cautious with the Auto Start feature enabled.

1.15   Auto Inc gadget

(Hotkey: 'U')

   Clicking on this gadget will enable/disable the auto volume name increment. If you use this feature, the Increment Counter value will be appended to the volume name, and the counter will be incremented by one after each formatting. That will give you, by example: "Empty1, Empty2, Empty3, ... ,Empty10, Empty11" and so on.

1.16   Drives listview

(Hotkey: 'D')

   This small window will display the available devices that you can format. Just click on the device you want to format. Some informations about the selected device will appear just above the Status gadget, showing

you the volume name (if there's one in the drive) and its total storage capacity.

When in Auto Start mode, you must select here the device you want to be monitored by MFormat for disk insertions.

Just above this small window you'll find a gadget marked "Rescan". Clicking on this button will update the Drives listview, in case you just mounted some new device.

1.17 Format button

(Hotkey: 'F')

This gadget will start the format. MFormat will ask you then if you are really sure that you want to format the selected device, or if you want to abort it, having changed your mind. Remember: ANY data will be LOST when you start to format a device! You can still abort it after it has begun, but all tracks already formatted by then will be lost forever.

This gadget won't be available if no disk is present in the selected drive.

1.18 Abort button

(Hotkey: 'A')

This gadget will only be available while formatting, and during the "Countdown To Doom" in Auto Start mode (you will have five seconds to abort an auto-format). Clicking on this gadget will give you the possibility to abort an on-going formatting.

1.19 Status display

This text area will display the current status of MFormat. Any error encountered by MFormat will also be displayed there. You can't do anything with this gadget except just stare at it, and smile :)

Just above there's another text area that will display informations about the device currently selected, such as the volume name of the disk currently in the selected drive (if there's one), and the total storage capacity possible on this device.

1.20 Project Menu

In this menu, you will find three items:

"About..." will give you some general infos about MFormat.

"Sleep..." will close MFormat's window, and add a new item to the
Workbench's "Tools" menu. This new item will allow you to re-open the
window. MFormat can also be re-opened by sending them a CTRL-F signal,
while a CTRL-C signal will tell him to exit.

"Quit" will exit MFormat (just like clicking on the close gadget).

1.21   Prefs Menu

In this menu, you'll find the following items:

"Filter List..." will open the
                Filtered Devices List
                window.

"Load Prefs" will load the last saved config file in ENV: and adjust your
settings according to this preferences file.

"Save Prefs" will save the current options, selected filesystem and
volume name to "ENV:MFormat.prefs" and "ENVARC:MFormat.prefs". This prefs
file will be loaded each time you start MFormat. Note that the "Auto
Start" option's status WON'T be saved, for safety reasons.

"Use Default" will reset all options to their default values. That is:

    Volume Name: "Empty"
    FileSystem : OFS
    All options: Turned Off
    Increment Counter: 1

1.22   Settings Menu

In this menu, you'll find the following toggle items:

If "Save Prefs on exit?" is checked, MFormat will save the preferences
each time MFormat will be closed. Can be usefull if you want to always
keep your increment counter to-date.

If "Menufy on exit?" is checked, MFormat will go to
                Sleep
                rather
than exiting.

1.23   Filtered Devices List window

Most of the time, you will only format floppy disks. So, you might want
to filter some specific drives, preventing them from appearing in the Drives
listview gadget. As an example, you can filter all your hard disk
partitions so they won't show up in the Drive listview, preventing any
"regretable accident" (happened to me once... sob...).

When MFormat is started, it will try to load the current filter list
from the S:MFormat.filter file. This file holds the names of the drives you
don't want to appear in the Drives list on the MFormat's main window. Don't
edit it yourself! When MFormat will scan your system for available drives,
any drive present in that filter list won't be displayed in the Drives
listview.

This window allow you to add or remove drives from this filter list. In
it, you'll find a list off all available (or already filtered) drives, which
will display something like this:

```
        F Device:    Volume name
        ------------------------------
      * CC0:        <No Disk>
        DF0:        <No Disk>
        DF1:        <No Disk>
      * DH0:        System_3.x
      * DH1:        Work
```

An asterisk ("*") on the left of the device's name (just under the 'F',
for "Filtered") indicates that this drive is currently filtered, and won't
appear in the Drive List on MFormat's main window. Just click on a drive to
toggle it's state between filtered and unfiltered.

There's also two buttons at the bottom of the window:

\textdegree{} Add: If you wish to add a device that isn't listed in the
   list (like an unmounted PC0:), click on this gadget. MFormat will
   then ask you to add the drive's name to add. Note that this new
   item will only be saved IF it is filtered when you exit the Filter
   Window.

\textdegree{} Ok: Click on this gadget when you have finished editing the
   filter list. If you made any changes to the list, the filter list will
   be saved in S:MFormat.filter, and the device list will be
   re-scanned, updating the Drives listview gadget.

1.24   Shell Usage

MFormat can be started from the Shell. Doing MFormat ? will ↩
                  show the
command template:

MFormat v1.8 – ©1994-95 by Eric Sauvageau (Merlin).

```
D=DRIVE/K,N=NAME/K,FS/K,Q=QUICK/S,V=VERIFY/S,IC=ICONS/S,IN=INSTALL/S,G=GUI/S,
P=PUBSCREEN/K,M=MENUFY/S:
```

You can use either the full names or the shortcuts when entering
parameters.

By default, entering MFormat without any argument will open the window
interface.

```
                    DRIVE

                    ICONS

                    NAME

                    INSTALL

                    FS

                    GUI

                    QUICK

                    PUBSCREEN

                    VERIFY

                    MENUFY
                    Examples:
```

8.System3.0> MFormat D df0: N Empty FS ffs

Will format disk in DF0: with the volume name "Empty, and will use
FastFileSystem.

8.System3.0> MFormat Drive=df1: n=Archives fs=dcffs v p=term

Will format disk in DF1: with the volume name "Archives", and will use the
DiskCache FFS. MFormat will verify the formatting, and the output window
will be opened on the public screen "term".

1.25 Shell Usage: Drive

(Shortcut: 'D')

This is the device you wish to format.

```
Examples: DRIVE DF0:
          D PC1:
```

1.26 Shell Usage: Name

(Shortcut: 'N')

   This is the volume name you wish to give to the formatted drive. Do NOT
append any ':' to it.

```
Examples: NAME DataDisk
          N Empty
```

1.27 Shell Usage: FS

                (Shortcut: none)

   This is the filesystem you want to use. The available arguments are:

```
OFS - Old File System
FFS - Fast File System
IOFS - Old File System (International)
IFFS - Fast File System (International)
DCOFS - Disk Cache Old File System (OS 3.x only)
DCFFS - Disk Cache Fast File System (OS 3.x only)

Examples: FS ffs
          FS=iffs
```

   See Also:
                 FileSystem gadget
                .

1.28 Shell Usage: Quick

                (Shortcut: 'Q')

   Boolean flag. Just add this keyword if you wish to re-initialize the
disk, without re-formatting every cylinders.

   See Also:
                 Quick gadget
                .

1.29   Shell Usage: Verify

                    (Shortcut: 'V')

    Boolean flag. Add this keyword if you wish MFormat to verify every
cylinders after formatting it.

    See Also:
                    Verify gadget
                        .

1.30   Shell Usage: Icons

(Shortcut: 'IC')

    Boolean flag. Add this keyword if you wish MFormat to create the Trashcan
and the Disk.info icon.

1.31   Shell Usage: Install

                    (Shortcut: 'IN')

    Boolean flag. Add this keyword if you wish to put a bootable bootblock on
the disk.

    See Also:
                    Install gadget
                        .

1.32   Shell Usage: GUI

                    (Shortcut: 'G')

    Boolean flag. Put this keyword if you wish to open the Graphical User
Interface (GUI). When you use this keyword, all other keywords will be
ignored, excepted for the
                    Pubscreen
                    keyword.

1.33   Shell Usage: PublicScreen

(Shortcut: 'P')

   If you want MFormat to open the GUI or the output window on another
screen than the Workbench, enter the public screen name here (case
sensitive).

If the public screen cannot be found, then the window will open on the
Workbench.

   Examples: PUBLICSCREEN term
             P MyPubScreen

1.34   Shell Usage: Menufy

(Shortcut: 'M')

   If you want MFormat to close its window and add an "Awake MFormat" item
to the Workbench's "Tools" menu, use this boolean switch. MFormat won't
open its window until you select "Awake MFormat" in the Tools menu.

   While it's asleep, you can send a CTRL-C break signal to terminate it.
MFormat will also re-open its window on a CTRL-F signal.

   Using this switch will work like if you had also added the "GUI" switch.

1.35   Hint: Format two disks at the same time.

   You want to format two disks at a same time? That's simple: just start
two MFormats, and format a different device with each of them! Did you
forgot that you were using a multi-tasking computer? :)

1.36   Credits

  MFormat was compiled with EC 3.2a registered. The GUI was generated using
GadToolsBox 2.0c and SrcGen 0.4.

   Thanks to:

        -Yanik Grignon, Rémi Létourneau, Scott Pinard, Georges Goncalves
         and the other beta-testers.
        -Amiga for a great machine (this A1200 of mine!).
        -Wouter van Oortmerssen , for Amiga E and SrcGen 0.4.
        -Jabba Development for GadToolsbox 2.0c.
        -Urban Mueller for Aminet (and the free Aminet CD7)
        -Amiga Shopper magazine for the free issue.

   I can be reached on this BBS where I'm the Co-Sysop:

```
        PowerLand BBS

        Rosemere, Qc (Canada)
        Node 1: 1-514-965-7295 (V32bis/V34)
        Node 2: 1-514-965-8954 (V32bis/V34)

        Fidonet 1:242/907.0  (can be freq'ed as "MFORMAT")
        Francomédia  101:155/306.0
        E!Net        312:7600/1.0

        Internet: dream@step.polymtl.ca
```

Please note that this account belongs to a friend of mine, so if you don't
get an answer, try instead:

    eric.sauvageau@f907.n242.z1.fidonet.org

It's a Fidonet gateway. Slow, but it does work :)

Also, thanks to those who sent the shareware fee (two so far...):

-Jon B. Peterson (USA)
-Martin Lagacé   (CAN)

1.37   Disclaimer

    This software is provided "as is". I'm not responsible of any problem
you may encounter while using this software or any other files included in
this package. You are using it at your own risks.

    This archive can be freely distributed, as long as all included files
remains unmodified. The whole archive and the files included in it are
Copyright © 1994-95 by Eric Sauvageau.

    Even if this software has been tested thoroughly, some bug can still
exist in it. If you found one, just send me a netmail at one of the various
addresses found in the previous section about it so I can fix it for a
future update.

    If you are using this program on a regular basis, then you MUST pay the
Shareware fee. Remember that supporting software authors is the best way to
support YOUR Amiga.

1.38   To Do

    These are a partial list of things that could be added in a later update
of MFormat (if the support is good enough...)

  \textdegree{} Localisation.

\textdegree{} Allow to save multiple prefs files, so you could have one with a ↩
   given
  name and a given increment counter, another one with a different name,
  etc...

1.39 History

1.0 (12-Jan-94)

     - First public release.

1.1 (22-June-94) Recompiled using V39 modules & EC 2.1b Patch v39.

         - Finally hard disk support! (And by the same, support any device,
           like the diskspare.device, hackdisk.device, etc...)
         - Added a progress bar.
         - Disable menus while formatting.
         - Added Auto Incrementing volume name option.
         - Added blocksize sniffing (now support devices with blocksize
           different than 512 bytes)
         - Code optimization in the window init (~600 bytes saved).
         - "FileSystem" gadget enabled for all devices. Be cautious when
           formatting something else than an AmigaDOS device: always use
           OFS for these, unless the device's documentation say you
           can change it.
         - "Create Icons" will be usable for ANY kind of devices now.
         - "Install" will be usable ONLY for trackdisk.device (DFx:).
         - "Format" gadget disabled if no disk in drive.
         - Readjusted some gadget sizes.
         - Added a 4 colors icon, and moved the 8 colors icon in a
           separate drawer.
         - Will correctly detect the absence/presence of a CrossDOS disk.
         - Changed "(No Dos)" by "(Unreadable)" - makes more sense for
           non-AmigaDOS filesystems.

1.2 (23-June-94)

     - Fixed bug with large fonts.

1.3 (17-Sep-94)

         - New prefs file format. Save your prefs over the older ones.
         - CLI interface added.
         - Added "Sleep..." menu item and MENUFY tooltype.
         - Added PUBSCREEN tooltype and full public screen support.
         - Now, AutoStart only starts if a disk is inserted in the currently
           selected device. That fixed the problem with multiple
           filesystems on a single physical drive.
         - Complete re-write of the Auto Increment function. Now
           usable anytime.
         - Re-wrote the device scan and list building routine. Fixes
           ArcHandler and some other quirks.

- Now checks for invalid chars in the volume name.
- Previous versions contained a kludge to avoid a bug present in
  diskspare.device v1.6. Since v2.0 had this bug solved, I removed
  the workaround. So if MFormat crashes/fails to format a
  DSx: device, be sure you upgrade your diskspare.device to v2.0.
- Sometime, a volume would get formatted TWICE when in Auto Start
  mode. Now fixed.
- Code optimisation, and removal of some hardcoded limits.

1.4 (2-Nov-94)

- BUG FIXED: When formatting a partition on an hard disk that
  was located somewhere in the middle of the HD, the progress bar
  wouldn't be starting from the beginning.

- BUG FIXED: Will no longer give you some bogus requester "Are you
  sure you want to format it? (xxxMB)?" when you try to format a
  floppy under some conditions (I forgot to clear a variable
  somewhere).

1.5 (14-Jan-95)

- NEW: Filter list window. Allow you to filter the Devices list
  so filtered devices won't appear in the Devices window, and will
  prevent any "accident" with those devices (like HD partitions).

- NEW: Added a "R"escan button, allowing to update the Devices list.

- BUG FIXED: In a particular situation, the public screen wouldn't
  be unlocked when using MFormat's Shell interface.

- BUG FIXED: No longer lose memory after each Awake. That memory
  was released at exit time, now it is released at Awakening.

- Device List now sorted by alphabetical order.

- Now, disks not completely formatted (error or aborted) will
  show up as "????" rather than "NODOS" on Workbench.

- During startup, any invalid device will simply be ignored,
  rather than aborting with "Cannot init device!". Will solve
  problems for those mounting PC1: when DF1: isn't present, etc...

- Improved hotkeys handling:
   \textdegree{} Shift-S will cycle the FileSystem gadget selection ←
       backward.
   \textdegree{} Shift-D will select the previous device in the list.

- Some internal cleanup around various features.

- Improved error handling around prefs files.

- Improved Shell interface.

1.6 (26-Jan-95)

>   - BUG FIXED: Filter List wouldn't be properly loaded on some
>   occasions.

1.7 (4-May-95)   Recompiled with EC 3.1a.

>   - NEW: Full Workbench support! So you can now copy MFormat over
>   CBM's Format, and be able to use the "Initialize Disk"
>   item in your Workbench like before.
>
>   - NEW: "Settings" menu, with two new options:
>   o Menufy on Exit?
>   o Save Preferences on Exit?
>
>   The status of these options are saved in the prefs file.
>
>   - NEW: While it's asleep, sending a CTRL-F signal to MFormat
>   will awake it, while CTRL-C will terminate it.
>
>   - NEW: Totaly rewrote the Filter window interface. I wasn't
>   satisfied with the previous one.
>
>   - NEW: Added an installation script.
>
>   - NEW: Percentage indicator while formatting.
>
>   - BUG FIXED: No longer crashes at startup if the prefs file is
>   incorrect (corrupted or invalid version).
>
>   - BUG FIXED: Current volume name would be lost at
>   menufy-time if it has been changed since MFormat was started.
>
>   - If used from Shell and no volume name is specified, "Empty"
>   will be used as a default. So from now:
>
>   MFormat D df1:
>
>   is enough to format a disk labeled "Empty", using FFS.
>
>   NO prefs file support from the Shell because there's no way for
>   the user to check the settings without opening the GUI, so it
>   could be misleading and frustrating.
>
>   - Some minor changes around the GUI.
>
>   - Various optimizations.

1.71 (11-May-95)

>   - Would crash while formatting under OS 2.04.

1.8 (25-Aug-95)   Recompiled with EC 3.2a.

```
        - NEW: Now fully font sensitive!  And no need for those 200 Kb
                external libraries :)

        - NEW: Now has an AppWindow, and when menufied, it is a
                AppMenuItem, so can either drag'n'drop your disk icon in
                the window, or select a disk icon before un-menufying.

        - BUG FIXED: The 8 colors icon was missing from the last
                        few distributions.... Ooops!

      - Rewrote the underlying engine.  This should solve most of the
        problems with some devices like Parnet, V40 scsi.device (?!?!),
        etc...

      - Readjusted the GUI layout.

      - No longer changes the screen title.

      - Enforcer hit removed.
```

```
"Eileen's calling me
 To sit awhile and talk to trees
 Eileen can't you see
 The songs you sing are scaring me"


                                              - Skid Row


-----
```

1.40   From Same Author

```
        \textdegree{} DevsMan 1.2        - Devs: directory manager, allow easy  ←
            handling
                            for your DOSDrivers, Datatypes, etc...

  \textdegree{} FileScroller 3.40 - File lister for TransAmiga BBS (3.50 and up
                            for Excelsior! BBS)

        \textdegree{} TDPrefs 1.0        - Preferences editor for trackdisk.device, ←
            can
                            adjust the step rate, disable the drive click,
                            etc...
```