

**DF**

Chris Lawrence

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	<i>TITLE :</i> DF		
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# Chapter 1

## DF

### 1.1 DirFool 2.41 AmigaGuide documentation

DirFool 2.41 User Documentation

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What is DirFool?

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### 1.2 What is DirFool?

What is DirFool?

DirFool (DF) is a small (10.6k) utility that, when using AmigaDOS 2.04, replaces the Dir and List commands with a single command. DF has several different operating modes and can work in a user-defined manner.

### 1.3 Legal Stuff

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DirFool is © 1992-94 Chris Lawrence. The program may be freely distributed, as long as following are met:

1. This file remains unmodified
2. The program file and its documentation files remain unmodified
3. All these files are distributed as one package

Please contact me if you are interested in anything other than ordinary PD distribution.

This package may be included on CD-ROMs of freely distributable software, such as the Walnut Creek Aminet CD-ROM.

If you like DirFool, a donation of \$5 to foster future development is encouraged, but not required. Send to:

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## 1.4 New features

This is DirFool 2.41 (7.5.94), the sixth public release of DirFool.

Changes from DF 2.40 (20.4.94):

- \* Fixed bug in LFORMAT strings
- \* Added "%f" format specifier from LIST command

Changes from DF 2.36 (18.4.94):

- \* Added support for LFORMAT-style output
- \* Re-organized the documentation somewhat; more highlighting

Changes from DF 2.35 (23.3.94):

- \* The MUFs and NOMUFs options now work correctly
- \* New flag: WEEKDAYS displays the Yesterday, Tuesday, etc. instead of the real date in lists. NOWEEKDAYS will reset this option if it is placed in DFMODE.
- \* Changed internal sprintfs to use RawDoFmt; saves 2.2k.

Changes from DF 2.34 (7.1.94):

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- \* Now supports 'u' bit in MultiUser protection mask
  - \* Removed never used, obsolete 'h' bit from protection mask
  - \* Recompiled with SAS/C 6.51.
  - \* Better memory handling: as a result, a small speed increase
  - \* Improved documentation

Changes from DF 2.33 (22.9.93):

- 
- \* More efficient storage.
  - \* Recompiled with SAS/C 6.50

Changes from DF 2.32 (18.9.93):

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- \* Bug-fix in the REVERSE sort option.

Changes from DF 2.31 (31.8.93):

- 
- \* Now supports the MultiUser file system.
  - \* Documentation now in AmigaGuide format.
  - \* Code improvements.

## 1.5 To Do List

- \* Support for recursive directory listings
- \* Even better documentation
- \* "List only files with certain protections" support

## 1.6 Operating instructions

DF is designed to run under Release 2.04 and later of AmigaDOS. DF will not work under earlier versions of AmigaDOS, including most of the beta/disk releases of 2.0.

DF can be run through the Workbench's "Execute Command" option, or by using the CLI or Shell. To use the program, use the following syntax:

```
DF [pattern] [options]
```

The pattern is a path and/or pattern that specifies the files you

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wish to list. For example, `DF sys:~(#?.info)` would list all of the files in your boot directory except icon files.

The options are any of the following; however certain combinations will not work for obvious reasons.

`COLS=n` Specify number of columns to be output. Default=3.

`WIDE` Output five columns per line, 14 character filenames.

`THREE` Output three columns per line, 25 character filenames (default).

`LIST` Output full information (similar to List command). Filenames are 30 characters, directories 24. A synonym is `FULL`.

`ANSI` Show directories in `THREE` and `WIDE` listings in square brackets and highlighted (default).

`NOANSI` Show directories in `THREE` and `WIDE` listings in square brackets.

`QUICK` (Must be specified with `LIST`) Outputs only filenames; supresses header and trailer information (see below).

`FANCY` (Must be specified with `LIST`) Outputs a full listing; displays the header and trailer information (default).

`NAME` Sort by name (default).

`DATE` Sort by date (most recent is first). A synonym is `DATES`.

`SIZE` Sort by size (largest is first).

`SORT` Sets sorting mode on (default).

`NOSORT` Turns sorting mode off.

`REVERSE` Reverses sort to opposite of regular sequence.

`FORWARD` Sort in regular sequence (default).

`SLASH` List directories with a forward slash (/) at the end of the name (softlinks are listed with a »).

`NOSLASH` List directories within square brackets around the name (default).

`ICONS` Include icon files in directory listing (default).

`NOICONS` Do not include icon files in directory listings.

`NOFILES` Only list directories in listing.

`NODIRS` Only list files in listing.

`BLOCKS` In full listing format, show number of blocks files occupy. In all formats, disk usage is based on blocks used.

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BYTES In full listing format, show byte size of files. In all formats, disk usage is based on total bytes used (default).

MUFS Enable printing of MUFS protections (default if multiuser.library is available; will not work if MUFS not present).

NOMUFS Disable printing of MUFS protections; useful for listing floppies without the extra protections.

WEEKDAYS Show "Yesterday," "Today," "Monday" etc. in LIST mode, instead of regular dates.

NOWEEKDAYS Print regular dates in the LIST mode (default).

LFORMAT Specify argument formatting strings. The following substitutions are supported:

```
%a - File attributes
%b - File size (blocks)
%c - Filenote (comments)
%d - Date [in globally specified format]
%e - The file extension (everything after the last period)
%f - The file path
%g - The group ID of the file's owner
%k - Key block (starting address of the file)
%l - File size (bytes)
%m - The file, up to its extension
%n - The filename
%o - The file's owner name (MUFS only -- without MUFS formats
      an empty string)
%p - The file path
%s - The full pathname of the file [_not_ same as LIST %s]
%t - Time
%u - The user ID of the file's owner
```

In addition, the "-" and number formatting flags are allowed. For example, for up to 10 characters (and no more) of the file's owner, left justified, use:

```
LFORMAT="%-10.10o"
```

For more information, see the examples below:

## 1.7 Output examples

The DF command will show different output, depending on which options are used. The following gives a few examples:

```
Work:Lang> DF WIDE
```

```
Work:Lang on 15-Jun-92 at 22:56:24
[conman]          [DirFool]          [FTS]            [GadFool]
[ITextL]          [KD-Freq]          [ReqTools]       [SASLibs]
```

GadFool.info InterComm.info readme.first.d ReqTools.info  
 3077 bytes used - 19237888 bytes free on volume

System2.0:~> DF COLS=2

System2.0:~ on 15-Jun-92 at 22:58:34  
 AddMonitor AddMonitor.info  
 BindMonitor.info CLI  
 dfformat DiskCopy  
 diskinfowb FixFonts  
 Format Format-HD  
 Format.info formatHDs  
 Fountain.info Install-HD  
 installHDs NoFastMem  
 prep RexxMast  
 Setmap  
 148041 bytes used - 3168768 bytes free on volume

System2.0:> DF SYS:Tools/~(#!.info) LIST DATE

System2.0:Tools on 15-Jun-92 at 23:03:23  
 <DIR> Commodities ----rwed 13-Apr-92  
 Fed 29384 ----rwed 06-Jan-92  
 HDToolbox 95896 ----rwed 26-Dec-91  
 Enforcer 6400 ----rwed 25-Dec-91  
 ShowConfig 10436 ----rwed 25-Dec-91  
 Lacer 296 ----rwed 25-Dec-91  
 BRU 101832 ----rwed 25-Dec-91  
 MEmacs 52484 --p-rwed 25-Dec-91  
 CMD 7768 ----rwed 25-Dec-91  
 Calculator 16916 ----rwed 25-Dec-91  
 Colors 5616 ----rwed 25-Dec-91  
 KeyShow 10684 ----rwed 25-Dec-91  
 InitPrinter 1104 ----rwed 25-Dec-91  
 GraphicDump 2988 ----rwed 25-Dec-91  
 PrintFiles 2196 ----rwed 25-Dec-91  
 HDBackup.help 11573 ----rw-d 25-Dec-91  
 HDBackup 83248 ----rwed 25-Dec-91  
 IconEdit 46584 ----rwed 25-Dec-91  
 PrefsDrawer 532 ----rwed 09-Oct-91  
 KeyMapEd 67352 ----rwed 20-Jul-91  
 PerfMon 10044 ----rwed 28-Feb-91  
 FreeMap 7260 ----rwed 28-Feb-91  
 IE 57804 --p-rwed 09-Oct-90  
 628397 bytes used - 3168768 bytes free on volume

System3.0:> df list rexx:#!.cpr lformat="rx %s"

rx Work:Rexx/avail.cpr  
 rx Work:Rexx/dbptr.cpr  
 rx Work:Rexx/dbstr.cpr  
 rx Work:Rexx/devices.cpr  
 rx Work:Rexx/devs.cpr  
 rx Work:Rexx/execbase.cpr  
 rx Work:Rexx/fphex.cpr  
 rx Work:Rexx/fpregs.cpr

```
rx Work:Rexx/ints.cpr
rx Work:Rexx/libraries.cpr
rx Work:Rexx/libs.cpr
rx Work:Rexx/makeaptr.cpr
rx Work:Rexx/memory.cpr
rx Work:Rexx/mods.cpr
```

Note that directories are always listed first in the listings, even if the list is not sorted.

## 1.8 Advanced Options

DirFool also supports a few options for the advanced user, especially those that use the CLI a lot. These options can be set in two environment variables, `DFMode` and `DateFormat`.

The `DFMode` variable can be used to set default modes for DirFool's output. All of the command line options are supported, which are then set as your defaults. These defaults can be over-ridden by using the `DF` command line. It is not recommended that you set a default pattern (ideally, `DF` without a pattern should list the current directory). `DFMode` can be a ENV variable (set by `SETENV`) or a local variable (set by `SET`).

The `DateFormat` variable (a holdover from the ARP generation) is a way to use the multiple date formats supported in DOS 2.0 (but, unfortunately, not in its commands). `DateFormat` should be set to one of these values (example date is June 11, 1992):

AmigaDOS	0	11-Jun-92 (default)
International	1	92-06-11
U.S.A.	2	06-11-92
Canadian/U.K.	3	11-06-92
Locale-Specific	4	06/11/92 (for U.S. locale; requires Release 2.1)

## 1.9 Other information

DF will work with programs that set `RNF_WILDSTAR` (programs that allow the use of the asterisk (\*) instead of #?), such as my `StarFool` program, included in this archive.

DF 2.32 and above support the MultiUser File System. If you have the `multiuser.library` installed, DirFool will print all 16 protection bits and the file owner (if applicable), for all volumes. Note that DirFool cannot tell (at this time) whether or not you are listing a MUFS partition. In addition, the extra information may overflow a 78 column shell window -- this is a feature that will be kept to support overscan Workbenches.

An upcoming release will support recursive directory listing (as in `DIR ALL`). This will mean that DF will be able to more or less completely replace both commands.

I hope you enjoy using DirFool and will find it useful.

Chris Lawrence

7 May 1994

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