

Dirll

COLLABORATORS

	<i>TITLE :</i> DirII		
<i>ACTION</i>	<i>NAME</i>	<i>DATE</i>	<i>SIGNATURE</i>
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REVISION HISTORY

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Chapter 1

DirII

1.1 DirII - Contents

DirII v3.3a

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1.2 DirII - Introduction

What is it?

DirII is a replacement for DIR and LIST.

DirII is CLI only and requires AmigaDOS Release 2 or later.

Features

Can display in columns which adjust to size of the console window and to the width of the filenames.

Uses ANSI codes to add colour and create what I think is a more readable display.

Can execute "scripts" created using LFORMAT without the need to redirect to a file and use the execute command.

More LFORMAT options than LIST.

Can identify type (eg. "Executable") of a file.

Can filter files not just by name and date, but also by type, size, protection flags and comment.

Can sort by name, size, or date, (or by file, ie. unsorted)

When sorting by name, DirII uses a more intelligent comparison routine than stricmp. For example "file2" displayed before "file13".

Can display in columns which adjust to size of the console window and to the width of the filenames. (Worth mentioning twice, honest!)

1.3 DirII - Description

Synopsis

```
DirII [<dir>|<pattern>] [P | PAT <pattern>] [TP | TYPEPAT <pattern>]
[FP | FLAGPAT <pattern> ] [CP | COMMENTPAT <pattern> ] [NI | NOINFO]
[SINCE <date>] [UPTO <date>] [BIGGEST <number>] [SMALLEST <number>]
[DIRS] [FILES] [MIX] [ALL] [MA | MULTIASIGNS] [KEYS] [SIZES] [TYPES]
[FLAGS] [DATES] [COMMENTS] [NOANSI] [WIDTH <numcols>] [BLOCKS] [SUBST]
[BF | BYFILE] [BS | BYSIZE] [BD | BYDATE] [DESC | DESCENDING]
[LF | LFORMAT <string>] [EXE | EXECUTE]]
```

Template

```
DIR,P=PAT/K,TP=TYPEPAT/K,FP=FLAGPAT/K,CP=COMMENTPAT/K,NI=NOINFO/S,
SINCE/K,UPTO/K,BIGGEST/K/N,SMALLEST/K/N,DIRS/S,FILES/S,MIX/S,ALL/S,
MA=MULTIASIGNS/S,KEYS/S,SIZES/S,TYPES/S,FLAGS/S,DATES/S,COMMENTS/S,
NOANSI/S,WIDTH/K/N,BLOCKS/S,SUBST/S,BF=BYFILE/S,BS=BSIZE/S,
BD=BYDATE/S,DESC=DESCENDING/S,LF=LFORMAT/K,EXE=EXECUTE/S
```

Specification

DIR: Path and/or file to display.

PAT: Pattern which files' name must match.

TYPEPAT: Pattern which files' type must match.

For example: "DirII TYPEPAT (ASCII|Amigaguide)"

See FILE TYPES

FLAGPAT: Pattern which files' protection flags must match.

For example: "DirII FLAGPAT #?a#?"

COMMENTPAT: Pattern which files' comment must match.

NOINFO: Don't list .info files.

SINCE: List only files created on or after specified date*.

UPTO: List only files created on or before specified date*.

*Specify date in AmigaDOS format or as a number.

Eg. "SINCE 1" = "SINCE yesterday"

BIGGEST: List only files that aren't larger than specified size.

SMALLEST: List only files that aren't smaller than specified size.

DIRS: Display directories but not files.
FILES: Display files but not directories.
MIX: Don't separate files and directories in output display.

ALL: List files in all sub-directories.

MULLIASSIGNS: Display the contents of all paths of a multiassign.

KEYS: Display the block number of header block of file.
SIZES: Display the size of file.
TYPES: Display the type (eg. executable) of file.
See FILE TYPES
FLAGS: Display the protection flags of file.
Also display 'C' flag if file contains a comment and
the COMMENTS option is not specified.
DATES: Display the creation time and date of file.
COMMENTS: Display the comment, if one exists, of file. The comment
is placed on the following line and preceded by a colon.

NOANSI: Disable ANSI escape codes.

WIDTH: Width of the output in characters, used when trying
to arrange the output into multiple columns.
If omitted, the width is determined by the console, so this
option is only useful if sending output to the printer, or
if forcing single-column output by using WIDTH=0.

BLOCKS: Treat sizes as blocks, rather than bytes.

SUBST: Substitute recent dates with "today", "monday", etc.

BYFILE: Sort display by file order on disk (same as LIST).
BYSIZE: Sort display by size.
BYDATE: Sort display by date.
DESCENDING: Sort display in descending order.

LFORMAT: Format the output according to the specified string.
See LFORMAT STRING
EXECUTE: Execute the output produced by LFORMAT.

Notes

If MIX specified, and neither LFORMAT nor TYPES are specified,
a slash (/) will be appended to directory names.

If a filename contains a space, and LFORMAT is not specified,
the filename will be displayed in quotes.

If an empty string is supplied for any of the options PAT, TYPEPAT,
FLAGPAT, COMMENTPAT or LFORMAT, the option will be ignored completely.
This is to allow 'PAT="{PAT}"' in scripts. Ideally, the same would
apply to BIGGEST and SMALLEST, but ReadArgs won't allow this.

1.4 DirII - File Types

Recognised types

- Directory
- Empty
- Executable
- Loadable
- Object
- Font
- Powerpacker
- GIF
- JPEG
- LhA
- LZX
- ASCII
- Amigaguide
- IFF-???? (???? is type of IFF)
- Icon-Drawer
- Icon-Project
- Icon-Tool
- Icon-Disk
- Icon-Trash
- Icon-Device
- Icon-Kick
- Unknown-???? (DirII searches for the first printable character, skipping any occurrences of "\$VER:", then displays 4 characters, replacing non-printable characters with '.')

Note

Be aware that the type of a file is determined by examining the first few characters of the file, which is not an infallible method.

Also note that loadable refers to pseudo executable such as libraries, devices, etc., but some

1.5 DirII - LFORMAT String

Formating codes

- %a - Attributes (ie. protection bits)
- %b - Size in blocks
- %c - Comments
- %d - Date
- %e - Filename extension part
- %f - Full (ie. expanded) path
- %j - Path and filename joined
- %k - Key
- %l - Length in bytes
- %m - Filename main part
- %n - Name
- %p - Path

```
%t - Time
%w - Wildcard matched part of filename (see below)
%y - Type
%% - Percent sign (ie. %)
```

Notes

The %s code is not supported as %f %n %p %j are much better.

Length/justification specifiers may be included (eg. "%-8n").

If the code is entered in upper case, the output is enclosed in quotes.

%w

This switch specifies the part of the filename that was matched by wildcards in the PAT option.

```
eg) DirII s: PAT=#?startup LFORMAT="%n ; %w"
    Shell-StartUp ; Shell-
    User-StartUp ; User-
```

If PAT contains multiple wildcards, DirII will treat everything from the beginning of the first wildcard to the end of the last wildcard as one wildcard.

```
eg) DirII PAT=abc?e[0-9]#?xyz LFORMAT="%n ; %w"
    abcdel.xyz ; del.
    abcde2.wxyz ; de2.w
    abcde3xyz ; de3
```

1.6 DirII - Examples

First a simple one just to show the neat column output.

```
1> DirII s: sizes
Aliases                870  Assignments            1550  DPat                709
PCD                    248  Shell-Startup          94    SPat                283
startup-sequence      2866  ToolsDaemon.menu     6160  User-StartUp       1122
Virus_Checker.config  108   Yak.hotkeys           218   Yak.prefs           84
Files: 12 ; Directories: 0 ; Bytes: 14312 ; Blocks: 34
```

Spot the difference between this...

```
1> DirII Sys:d#?/
Sys:Devs/
Files (6) ...
  clipboard.device  MountList          narrator.device
  parallel.device   printer.device     serial.device
```

and this...

```
1> DirII Sys:d#?
Directories (1) ...
  Devs
Files (2) ...
  Devs.info  Disk.info
```

Here's what those switches do. Why not set up an alias for your favourites. (The WIDTH=0 forces each entry to be on a new line)

```
1> DirII MIX SIZES TYPES FLAGS DATES WIDTH=0
FixFonts      840 Executable  ----rwed 02-Sep-92 11:51:32
FixFonts.info 4396 Icon-Tool   ----rw-d 23-Feb-94 20:10:14
Format        12896 Executable  ----rwed 02-Sep-92 11:51:32
Format.info   4387 Icon-Tool   ----rw-d 23-Feb-94 20:10:12
LostDir/      Directory    ----rw-d 23-Aug-94 19:34:19
Shell.info    4616 Icon-Project ----rw-d 23-Feb-94 20:10:13
Files: 5 ; Directories: 1 ; Bytes: 27135 ; Blocks: 63
```

This one finds all files which were created today, using LFORMAT to produce a concise output.

```
1> DirII Work: LFORMAT "%j" SINCE today FILES ALL
```

A simple batch rename command could be implemented with the following script

```
.key FROM/A,TO/A,DIR/K,ALL/S
.bra {
.ket }
DirII "{DIR}" PAT="{FROM}" LFORMAT="Rename %J *"%p{TO}*"" {ALL} EXECUTE
```

```
1> BatchRen DIR=Pics: #?.iff %w.ilbm ALL ; Could have used %m or %w
1> BatchRen #?.docs.INFO %w.doc.INFO ; Had to use %w
```

And finally, an example which copies to df0: all executable files whose archive flag isn't set, then sets their archive flag.

```
1> DirII TYPEPAT Executable FLAGPAT ~(#?a#?) LFORMAT "Copy %N
df0: CLONE*nProtect %N +a" EXECUTE
```

1.7 DirII - History

Pre-release

- 1.n Simple DIR replacement which displayed in neat columns.
- 2.n Added DOS 2.0 pattern matching and ReadArgs.

Post-release

3.0

Added lots!
Is now a replacement for DIR and LIST.

3.1

Added COMMENTPAT and NOINFO.

Can now supply a number to SINCE/UPTO.
eg. "SINCE 1" = "SINCE yesterday"

Added a work-around for the problem I had getting StrToDate
to parse weekdays.

Extra Ctrl-C checks for the impatient.

Hopefully removed the occasional "object not found" message
which could occur if no DIR argument was supplied.

Fixed incorrect path (%p,%j) when the DIR argument supplied
was a file (ie. was not a dir or wildcard pattern).

3.2

Fixed bug for "SINCE n" and "SINCE weekday"

Fixed bug which caused all directories to be scanned when ALL
specified, even if they didn't match the DIR argument.

The output is displayed in columns even if one or more of SIZES,
TYPES, etc. are specified.

Added more types (LZX, Loadable, Font), and DirII now displays the
first few characters of a file if its type was not recognised.

Changed behaviour of DirII when empty strings supplied for command
line options.

Minor changes to the display of summaries (number of files, etc.)
and the paths.

Added %w LFORMAT switch.

Filenames containing spaces are now enclosed in quotes.
(Not when using LFORMAT)

3.3

Fixed %w bug that occurred when a single character was matched by a
wildcard, and also v3.2 did not know that ~c means the same as ~(c)

Added support for multi-directory assigns.

Stopped extra CR's being printed for empty dirs when SIZES specified

Internal changes to production of LFORMAT listings.

3.3a

Fixed bug (in 3.3 only) that caused paths to not be displayed when ALL specified but no path present in the DIR option.

1.8 DirII - Credits

Amiga set-up

A1200 with 170Mb HD, 2+4Mb RAM and 1942 monitor.

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