

# DiskTool version IV

Welcome to the resurrected DiskTool project. DT was first written in 1986 for DOS and was then called DOSTool. Over the years the name changed to DiskTool even though it still operates at the DOS level on any OS.

I stopped maintaining DT back in 2013 before FreshMeat was absorbed into FreeCode. There didn't seem to be much of a need for a console file manager for Linux, so I just let it die. I stepped away from Linux for several years as my daily OS simply because the software I needed was all on Windows or MAC, but not Linux. Now that I am retired, I don't have the software restrictions or requirements that I did then, and I don't really like any of the console file managers that I have tried so I have resurrected DT.

I lost the original source years ago when our raid array was destroyed in a tornado. I have tried to remember all of the functions that the old DT carried out, but so far I have only come up with some of that. I will continue to add things and improve the interface as time goes by. For now though, let's review what it does now and how to use it.

## **What is it?**

DT is a fast, simple, console or terminal based file manager. It uses the nCurses libraries to handle screen output to make things look nice. Beyond the looks, it is meant to offer console users fast access to the most frequently used commands in Linux. That includes, copying, moving, and deleting files, editing files, making directories, creating symlinks, etc. All of this is done through an easy to use interface that just feels natural to use.

## **The Commands**

Commands are given by simple function keys and Ctrl+letter commands. The key/commands are always displayed in the red Help panel on the right side of the DT window. There are 2 pages in the help panel. To go to page 2 just press the right arrow. To get back to page 1 press the left arrow.

Ctrl+Letter means to hold the control key (Ctrl on most keyboards), and press the letter while holding the control key down.

The Esc key aborts most operations and also will close DT if no information/error/operations dialog is showing.

The ENTER key (RETURN on some keyboards), does multiple duties depending upon what type of file is currently highlighted. In Linux, everything in the file system is a file, so when I say file in this manual, it just means whatever is listed in the file display at the time. If the current file (the one highlighted) is a directory (folder for windows folk), pressing ENTER will change to that directory. The .. entry (2 dots) is the symbol for the parent directory of the one you are in currently. Pressing ENTER on the .. entry takes you back one directory level at a time until you eventually get to the root directory, represented by the single / (forward slash).

If ENTER is pressed on an executable binary file, you will be prompted to run that program or not. If the file is text or data, it will be loaded into the editor program. Out of the box, the editor program used by DT is Ale (Another Linux Editor). Ale handles multiple files at once and is easy to move around in whether by mouse or keyboard. I have also recreated and updated the original Ale editor

to look and act like a proper modern editor. Ale is not fancy, it does not do syntax highlighting or anything like that. It is just a solid text editor.

If you press ENTER on a Zip file, the contents of the Zip will be shown. Pressing the Esc key closes the Zip file display. If you want to unzip a single file from within that zip file, then use the cursor keys to move to the file that you want to unzip and press ENTER. You will be prompted to unzip that file from the current Zip file or not. If you answer Y then the file will be unzipped into the current directory.

The Delete key does exactly what you expect it to do. It will delete any file or directory that you have permissions to delete. Read that again. It will completely delete an entire directory and all subdirectories if you tell it to. **You will get one chance to change your mind, and if you confirm with a Y that directory goes away forever along with any other directories and files inside.**

You can mark and unmark files to do various things with them. With marked files, you can copy the marked files, move them to another directory, or delete them. The mark functions are freeform so that you can mark many files in many different directories and then move or copy those files to a single place that you choose. The + key marks a file or directory and the – unmarks. You can also use the mark all command (Ctrl+A) to mark all files in the current directory. This will not mark subdirectories, you must mark them manually with the + key. You can also unmark all with the Ctrl+U command. The unmark all command WILL unmark all files including directories.

The cursor control keys work as expected. Up arrow, goes up and down arrow goes down the file list. PgUp and PgDn, Home, and End all do what they are supposed to do as well. Right and left arrows only change the Help panel page.

OK, so now for the main commands starting with the keys on page 1 of the Help panel.

F1 – Pastes all marked files into the current directory. The idea is to mark the file or files that you want to copy and then move to the directory where you want them copied into and press the F1 key to copy them here.

F2- Works just like the F1 key above, except it is used to move files instead of copying them. Moving a file takes it out of the directory where you marked them, and puts them into the destination directory. In other words, they will disappear from the original directory and appear in the destination directory.

F3 – Rename a file. This renames a file from one name to a new name that you supply, in the same directory.

F4 – Creates a new directory inside of the current directory.

F5 – Searches for a file or files using either a file name or a file mask. For example, if you search for \*.dat then all files with the file extension of .dat will be found and displayed. The search routine will search for file(s) inside the current directory including all sub-directories. Matches will be displayed in a new window that allows you to select a particular match and then change to that directory using the F10 key.

F6 – Allows you to change file permissions for any file that you have permissions to change yourself. This uses the octal number method that is explained when you press the F6 key. It also lists the current permissions for each category as well as the combined value such as 755 or 644, etc.

F7 – Allows you to zip a file or marked files. You will be asked for a zip file name. If the zip file exists, then all files will be added to that zip, updating it with the marked files. If no files are marked, then only the currently highlighted file will be zipped.

F8 – Makes a symlink to the current file. Highlight the file that you want to link and press the F8 key. Move to the directory where you want the link (if different), and press the F8 key again. Then you can give the link a name.

F9 – Changes the owner of the current file. You can use the user name or number just like the chown command. If one of the pair is empty, then it will be ignored (unchanged).

F10 – Unzips a file in the current directory.

F11- Displays information about the current file.

F12 – Search and replace within a file or files. You can supply a filename (it defaults to the current file), or a file mask for multiple files. You can use ? Characters and/or \* in the file mask. Each file will be searched for the input string and each occurrence within each file will be replaced with the replacement string. You can include character codes in either the search or replace strings using the # quote feature. #27# would search for a char(27) (escape character) and replace it with something in the replace string. You can also use the \n and \l strings to search or replace newline or linefeeds.

So far there are no other function key combinations. They will be added as needed in the future. Other commands are given by the Ctrl+letter type commands below.

Ctrl+A – Marks all files except directories.

Ctrl+D – Sorts files by Date

Ctrl+E – Sorts files by file Extension

Ctrl+H – Toggles showing or hiding hidden files;

Ctrl+N – Sorts files by Name (ascending)

Ctrl+P – Allows the user to change Preferences such as colors and editor used

Ctrl+U – Unmarks all files including directories

## Details & Examples

Normal File							
/home/jem/							
33 Dirs with 25 files 308,717,514,752 bytes Drive space free							
0 files marked using 0 bytes 58 files displayed using 1,721,687 bytes							
Filename	Size	Type	Date/Time	UID	GID	Perms	
.bashrc	3,818	---	2024-10-12 14:42.18	1000	1000	rw-r--r--	1000 jem
.bash_history	18,102	---	2024-11-25 13:45.53	1000	1000	rw-----	DiskTool 4.0.0
.bash_logout	220	---	2022-1-6 10:23.33	1000	1000	rw-r--r--	
.cache	4,096	DIR	2024-11-25 11:25.0	1000	1000	rw-rwxr-x	Enter executes, edits a file or changes directory.
.config	4,096	DIR	2024-11-25 13:48.8	1000	1000	rw-r--r--	A - Z jumps to that letter
.fppkg	4,096	DIR	2024-10-29 23:44.49	1000	1000	rw-rwxr-x	
.gphoto	4,096	DIR	2024-11-23 0:45.35	1000	1000	rw-rwxr-x	
.gtk-bookmarks	21	---	2024-9-2 1:41.57	1000	1000	rw-r--r--	
.gtkr-2.0	292	0	2024-11-25 11:24.23	1000	1000	rw-rw-r--	Del - Delete File(s)
.kodi	4,096	DIR	2024-11-16 21:16.4	1000	1000	rw-r--r--	+ Marks a file
.lazarus	4,096	DIR	2024-11-4 12:25.48	1000	1000	rw-rwxr-x	- Unmarks a file
.lessht	20	---	2024-11-24 16:5.53	1000	1000	rw-----	F1 - Paste file(s) here
.local	4,096	DIR	2024-8-22 13:21.2	1000	1000	rw-rwxr-x	F2 - Move Marked here
.mozilla	4,096	DIR	2024-8-19 21:40.32	1000	1000	rw-rwxr-x	F3 - Rename File
.pkt	4,096	DIR	2024-9-25 19:6.27	1000	1000	rw-r--r--	F4 - Create Directory
.profile	854	---	2024-10-12 14:9.48	1000	1000	rw-r--r--	F5 - File Search
.selected_editor	66	---	2024-10-23 0:1.49	1000	1000	rw-rw-r--	F6 - File Permissions
.sudo_as_admin_successful	66	---	2024-8-22 19:39.38	1000	1000	rw-r--r--	F7 - Zip file(s)
.thunderbird	4,096	DIR	2024-8-23 11:21.43	1000	1000	rw-r--r--	F8 - Make Symlink
.turbobird	4,096	DIR	2024-9-6 13:55.51	1000	1000	rw-rwxr-x	F9 - Change file Owner
.var	4,096	DIR	2024-9-16 22:4.57	1000	1000	rw-r--r--	F10 - Unzip file
.viminfo	705	---	2024-9-23 15:16.47	1000	1000	rw-----	F11 - File Information
art	4,096	DIR	2024-6-26 21:51.58	1000	1000	rw-rwxr-x	F12 - Search and Replace
bin	4,096	DIR	2024-11-24 18:0.59	1000	1000	rw-rwxr-x	
color.sh	167	SH	2024-9-23 16:12.30	1000	1000	rw-rwxr-x	Ctrl+A - Mark all
Desktop	4,096	DIR	2024-11-20 22:34.17	1000	1000	rw-r--r--	Ctrl+H - Toggle hidden files
Documents	4,096	DIR	2024-11-24 0:38.44	1000	1000	rw-r--r--	Ctrl+U - unmark all
Downloads	4,096	DIR	2024-11-19 0:53.46	1000	1000	rw-r--r--	Ctrl+P - Preferences
DriverUT.pid	5	PID	2024-9-3 11:45.32	1000	1000	rw-r--r--	Left & Right = help page
editrc.txt	1,967	TXT	2024-11-13 12:23.53	1000	1000	rw-rw-r--	Esc - Close DT
formstuff.pas	2,767	PAS	2024-10-19 21:27.20	1000	1000	rw-rw-r--	
fp.cfg	1,277	CFG	2024-10-10 13:3.46	1000	1000	rw-r--r--	Page 1
fp.dsk	3,236	DSK	2024-10-10 13:3.46	1000	1000	rw-rw-r--	
fp.tnt	1,767	INT	2024-10-10 13:3.46	1000	1000	rw-rw-r--	
fpup	4,096	DIR	2024-11-7 16:55.9	1000	1000	rw-rwxr-x	
fpup.log	234,592	LOG	2024-11-7 16:56.32	1000	1000	rw-rw-r--	
fv	4,096	DIR	2024-10-26 9:46.49	1000	1000	rw-rwxr-x	
huion.log	53,527	LOG	2024-9-3 11:45.33	1000	1000	rw-----	
HuionCore.pid	5	PID	2024-9-3 11:45.29	1000	1000	rw-r--r--	
kodi_crashlog-20241114_235350.lo	102,328	LOG	2024-11-14 23:54.5	1000	1000	rw-rw-r--	
kodi_crashlog-20241116_212203.lo	403,692	LOG	2024-11-16 21:22.12	1000	1000	rw-rw-r--	

**Ctrl+S** sorts the listing by file size.

Also the second page of the Help panel can be seen by pressing the right arrow key. The Left arrow key re-displays the first page.

Directory							
/home/jem/laz-stuff/ldt/							
5 Dirs with 37 files 308,715,712,512 bytes Drive space free							
0 files marked using 0 bytes 42 files displayed using 8,347,582 bytes							
Filename	Size	Type	Date/Time	UID	GID	Perms	
..	4,096	DIR	2024-11-11 14:19.24	1000	1000	rw-rwxr-x	1000 jem
atest	19,681	---	2024-10-23 11:47.59	1000	1000	rw-rw-r--	DiskTool 4.0.0
backup	4,096	DIR	2024-11-25 13:46.45	1000	1000	rw-rwxr-x	
chmod.png	415,879	PNG	2024-11-25 13:55.31	1000	1000	rw-rw-r--	Enter executes, edits a file or changes directory.
disp.pas	20,216	PAS	2024-11-25 12:35.3	1000	1000	rw-rw-r--	A - Z jumps to that letter
dsave.dat	12,200	DAT	2024-9-23 16:59.40	1000	1000	rw-rw-r--	
dt	755,856	---	2024-11-25 13:46.45	1000	1000	rw-rw-r--	
dt.bak	3,124	BAK	2024-9-28 14:45.50	1000	1000	rw-rw-r--	
dt.dbg	3,371,504	DBG	2024-10-29 16:37.44	1000	1000	rw-rwxr-x	Del - Delete File(s)
dt.lpi	4,447	LPI	2024-11-25 13:46.45	1000	1000	rw-r--r--	+ Marks a file
dt.lps	19,908	LPS	2024-11-25 13:46.45	1000	1000	rw-r--r--	- Unmarks a file
dt.pas	618	PAS	2024-11-25 13:46.45	1000	1000	rw-rw-r--	Alt+= - Process List
dt.png	419,707	PNG	2024-11-25 13:51.29	1000	1000	rw-rw-r--	Alt+- - Kill Process
findfiles.bak	3,364	BAK	2024-10-21 14:5.26	1000	1000	rw-rw-r--	Alt+C - Change Directory
findfiles.pas	3,384	PAS	2024-11-24 20:35.41	1000	1000	rw-rw-r--	Ctrl+D - Sort by Date
fp.cfg	1,158	CFG	2024-11-24 18:56.6	1000	1000	rw-r--r--	Ctrl+E - Sort by Ext
fp.dsk	3,334	DSK	2024-11-24 18:56.6	1000	1000	rw-rw-r--	Ctrl+M - Sort by Name
fp.tnt	1,541	INT	2024-11-24 18:56.6	1000	1000	rw-rw-r--	Ctrl+S - Sort by Size
fpup	7,928	CFG	2024-10-30 10:5.29	1000	1000	rw-rw-r--	
fpupdebug.txt	15,921	TXT	2024-10-30 14:4.34	1000	1000	rw-rw-r--	
fsearchprompt.png	409,161	PNG	2024-11-25 13:53.8	1000	1000	rw-rw-r--	
fsearchresults.png	343,205	PNG	2024-11-25 13:53.51	1000	1000	rw-rw-r--	
globs.bak	23,158	BAK	2024-10-21 19:3.27	1000	1000	rw-rw-r--	
globs.pas	24,542	PAS	2024-11-25 12:56.43	1000	1000	rw-rw-r--	
lib	4,096	DIR	2024-5-26 16:16.56	1000	1000	rw-r--r--	
link4111.res	9,719	RES	2024-11-12 12:32.44	1000	1000	rw-r--r--	Ctrl+A - Mark all
masks.pas	56,391	PAS	2024-10-27 13:17.56	1000	1000	rw-rw-r--	Ctrl+H - Toggle hidden files
newdir	4,096	DIR	2024-11-25 13:47.21	1000	1000	rw-rwxr-x	Ctrl+U - unmark all
prefx.inc	6,762	PAS	2024-11-24 18:29.15	1000	1000	rw-rw-r--	Ctrl+P - Preferences
sr.pas	14,271	INC	2024-10-27 13:17.56	1000	1000	rw-rw-r--	Left & Right = help page
srunit.bak	11,360	PAS	2024-10-27 13:17.56	1000	1000	rw-rw-r--	Esc - Close DT
srunit.pas	11,481	BAK	2024-10-16 17:1.48	1000	1000	rw-rw-r--	
test	11,492	PAS	2024-10-28 22:44.28	1000	1000	rw-rw-r--	
tst	4,096	DIR	2024-11-24 20:48.54	1000	1000	rw-rwxr-x	
tst	1,044,656	---	2024-11-20 16:27.18	1000	1000	rw-rwxr-x	
tst.bak	1,265	BAK	2024-10-26 12:55.14	1000	1000	rw-rw-r--	
tst.dbg	1,261,232	DBG	2024-11-20 16:27.17	1000	1000	rw-rwxr-x	
tst.log	6,238	LOG	2024-10-30 13:53.45	1000	1000	rw-rw-r--	
tst.lpi	1,849	LPI	2024-11-13 12:17.40	1000	1000	rw-rw-r--	
tst.lpr	1,000	LPR	2024-11-13 12:13.0	1000	1000	rw-rw-r--	
tst.lps	7,698	LPS	2024-11-20 16:27.17	1000	1000	rw-rw-r--	

When DT is first run, it does so from your HOME directory (usually /home/username). Above is a typical listing showing the layout of DT including the Help panel. The listing can be sorted in a variety of ways.

**Ctrl+N** sorts the listing by filename.

**Ctrl+D** sorts the listing by date.

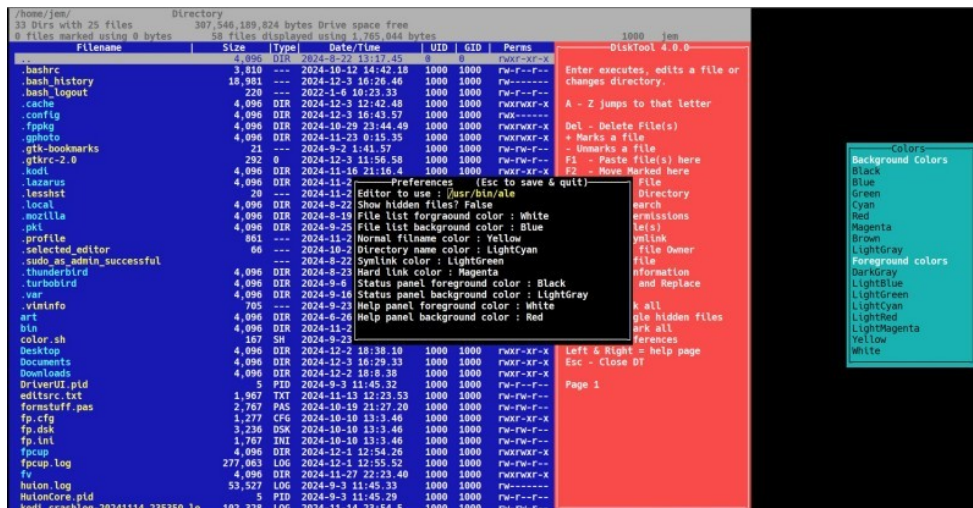
**Ctrl+E** sorts the listing by file extension.

The status panel is light gray with black text by default. It shows information about the current file and the current directory. Here you can see the path and filename of the currently highlighted file and the type of file it is. DT identifies the following file types :

Normal files  
Directories (Folders)  
Symlinked files  
Hard linked files

These are displayed on the top line of the status panel just to the right of the current directory path. The second line of the panel displays the number of directories and files in the current directory, and the total free space on this device. On the third line DT displays the number of files that you have marked and the total number of files and directories listed along with how many total bytes that those items take in drive space. To the right of those is the current user name and user ID. If you are logged in as root the user name will appear in red with white letters just to remind you that you are currently root.

## Setting up DT



DT comes configured with default colors that are easy to read, and its full screen editor named Ale. These can be changed in the Preferences section. You can list your current settings with Ctrl+P.

You can use the up and down arrow keys to move around the items, and use the Esc key to save and exit the setup. To the right of the preference window is the Colors window. This window lists the colors available for background and foreground colors. When changing colors, be sure to type in the color(s) correctly, as listed in the colors window. Depending upon your terminal setup, pointing at a color name in either panel will show you a sample of that color.

If you do not wish to use Ale as your editor than enter the full path and filename to the editor that you prefer. Next is whether or not you want to see hidden files. By default this is set to True so that you see everything. If you do not want to see hidden files then change this entry to False. When you finish making changes, press the Esc key to save and exit.

## Marking files

File marking is one of the strongest features of DT. It allows you to mark one or many files from one or more directories and copy or move them into a different location. To mark a single file, press the + key either on the keypad or in the numbers row beside the backspace key. When a file is marked, it appears in the file list with a + to the far left of the filename. You can mark directories with the + key but not with the mark all command. You have to tell DT that you want a directory or directories marked.

You can mark all files listed (except directories) with the Ctrl+A command. If you change your mind, you can unmark all files (including any directories), with the Ctrl+U command. Just remember that Ctrl+A means ALL and Ctrl+U means Unmark.

## Copying and moving files

Mark the files that you want to copy or move and then navigate to the directory that you want those files to be copied or moved into. Then press the F1 key to move or copy those files. DT uses a freeform approach to file marking, in that you can mark files in several directories and have DT move or copy those files into a single directory.

When you change to another directory while you have files marked, DT will warn you and ask if you want to keep those files marked, or forget them. Answer Y to keep them marked or N to forget those marked files. DT will do this each time you change to a different directory with files marked.

## **Deleting files**

Pressing the Del key while files are marked will delete all files that are marked in the CURRENT directory only. It will not delete files that are marked in other directories. Also, DT will unmark all other files that are marked in other directories. This is simply the safest way to handle deleting files in a freeform system. DT is not trying to punish you, it is trying to ensure that file integrity is always maintained.

While files are marked, you are limited in the operations that can be done. For example, you cannot do the following commands to marked files :

- Rename
- Set file permissions
- Set file ownership

Other commands will simply ignore the marked files and only operate on the currently highlighted file.

## **Zippping files**

You can zip marked files into a single .zip file, but keep in mind that if you have files marked from more than the current directory, the resulting zip file will include the paths to all files outside of the current directory. In other words, the zip file becomes a backup archive with full path information. If this is not what you want then you will need to copy all files into a single directory and then mark the files and use the Zip command (F7).

## Search for files

/home/jem/laz-stuff/ldt/  
5 Dirs with 34 files  
0 files marked using 0 bytes

Normal File  
308,717,027,328 bytes Drive  
39 files displayed using

Search mask  
Separate masks with ; \*.cc;\*.gcc etc  
dt.\*

00 jem

Filename	Size	Type	Date				
..	4,096	DIR	2024-11-11 14:9.24	1000	1000	rw-rw-r--	X
atest	19,695	DIR	2024-10-23 11:47.59	1000	1000	rw-rw-r--	X
backup	4,096	DIR	2024-11-25 13:46.45	1000	1000	rw-rw-r--	X
disp.pas	20,216	PAS	2024-11-25 12:35.3	1000	1000	rw-rw-r--	X
dsave.dat	12,200	DAT	2024-9-23 16:59.40	1000	1000	rw-rw-r--	X
dt	755,856	---	2024-11-25 13:46.45	1000	1000	rw-rw-r--	X
dt.bak	3,124	BAK	2024-9-28 14:45.50	1000	1000	rw-rw-r--	X
dt.dbg	3,371,504	DBG	2024-10-29 16:37.44	1000	1000	rw-rw-r--	X
dt.lpi	4,447	LPI	2024-11-25 13:46.45	1000	1000	rw-rw-r--	X
dt.lps	19,908	LPS	2024-11-25 13:46.45	1000	1000	rw-rw-r--	X
dt.pas	618	PAS	2024-11-25 13:46.45	1000	1000	rw-rw-r--	X
dt.png	419,707	PNG	2024-11-25 13:51.29	1000	1000	rw-rw-r--	X
findfiles.bak	3,364	BAK	2024-10-21 14:5.26	1000	1000	rw-rw-r--	X
findfiles.pas	3,384	PAS	2024-11-24 20:35.41	1000	1000	rw-rw-r--	X
fp.cfg	1,158	CFG	2024-11-24 18:56.6	1000	1000	rw-rw-r--	X
fp.dsk	3,834	DSK	2024-11-24 18:56.6	1000	1000	rw-rw-r--	X
fp.ini	1,541	INI	2024-11-24 18:56.6	1000	1000	rw-rw-r--	X
fpc.cfg	7,928	CFG	2024-10-30 10:5.29	1000	1000	rw-rw-r--	X
fpcdebug.txt	15,921	TXT	2024-10-30 14:4.34	1000	1000	rw-rw-r--	X
globs.bak	23,158	BAK	2024-10-21 19:3.27	1000	1000	rw-rw-r--	X
globs.pas	24,542	PAS	2024-11-25 12:56.43	1000	1000	rw-rw-r--	X
lib	4,096	DIR	2024-5-26 16:16.56	1000	1000	rw-rw-r--	X
link4111.res	9,719	RES	2024-11-12 12:32.44	1000	1000	rw-rw-r--	X
masks.pas	56,391	PAS	2024-10-27 13:17.56	1000	1000	rw-rw-r--	X
newdir	4,096	DIR	2024-11-25 13:47.21	1000	1000	rw-rw-r--	X
prefs.pas	6,762	PAS	2024-11-24 18:29.15	1000	1000	rw-rw-r--	X
pxpic.inc	14,271	INC	2024-10-27 13:17.56	1000	1000	rw-rw-r--	X
sr.pas	11,360	PAS	2024-10-27 13:17.56	1000	1000	rw-rw-r--	X
srunit.bak	11,481	BAK	2024-10-16 17:1.48	1000	1000	rw-rw-r--	X
srunit.pas	11,492	PAS	2024-10-28 22:44.28	1000	1000	rw-rw-r--	X
test	4,096	DIR	2024-11-24 20:48.54	1000	1000	rw-rw-r--	X
tst	1,044,656	---	2024-11-20 16:27.18	1000	1000	rw-rw-r--	X
tst.bak	1,265	BAK	2024-10-26 12:55.14	1000	1000	rw-rw-r--	X
tst.dbg	1,261,232	DBG	2024-11-20 16:27.17	1000	1000	rw-rw-r--	X
tst.log	6,238	LOG	2024-10-30 13:53.45	1000	1000	rw-rw-r--	X
tst.lpi	1,849	LPI	2024-11-13 12:17.40	1000	1000	rw-rw-r--	X
tst.lpr	1,000	LPR	2024-11-13 12:13.0	1000	1000	rw-rw-r--	X
tst.lps	7,698	LPS	2024-11-20 16:27.17	1000	1000	rw-rw-r--	X
tst.zip	1,352	ZIP	2024-11-13 12:27.47	1000	1000	rw-rw-r--	X

DT can do a file search with the F5 command. That will bring up a search window where you will provide a search mask for the file(s) to find : Once the file mask is entered, DT will search for matches in the current and all subdirectories in the current directory.

Use the up and down arrow keys, the PgUp and PgDn keys, and the Home and End keys, to navigate

the list of matches. Pressing the ENTER key on a match will cause DT to change to the directory containing the matched file.

/home/jem/laz-stuff/ldt/  
5 Dirs with 34 files  
0 files marked using 0 bytes

Normal File  
308,717,027,328 bytes Drive  
39 files displayed using

Controls  
ENTER change to selections directory

jem

Filename	Size	Type	Date				
..	4,096	DIR	2024				
atest	19,695	DIR	2024	/home/jem/laz-stuff/ldt/dt.lps			4.0.0
backup	4,096	DIR	2024	/home/jem/laz-stuff/ldt/dt.lpi			
disp.pas	20,216	PAS	2024	/home/jem/laz-stuff/ldt/dt.png			
dsave.dat	12,200	DAT	2024	/home/jem/laz-stuff/ldt/dt.pas			
dt	755,856	---	2024	/home/jem/laz-stuff/ldt/dt.dbg			
dt.bak	3,124	BAK	2024	/home/jem/laz-stuff/ldt/dt.bak			
dt.dbg	3,371,504	DBG	2024	/home/jem/laz-stuff/ldt/backup/dt.lps			
dt.lpi	4,447	LPI	2024	/home/jem/laz-stuff/ldt/backup/dt.lpr			
dt.lps	19,908	LPS	2024	/home/jem/laz-stuff/ldt/backup/dt.lpi			
dt.pas	618	PAS	2024	/home/jem/laz-stuff/ldt/backup/dt.pas			
dt.png	419,707	PNG	2024	/home/jem/laz-stuff/ldt/lib/x86_64-linux/dt.o			
findfiles.bak	3,364	BAK	2024	/home/jem/laz-stuff/ldt/lib/x86_64-linux/dt.compiled			
findfiles.pas	3,384	PAS	2024	/home/jem/laz-stuff/ldt/test/dt.lps			
fp.cfg	1,158	CFG	2024	/home/jem/laz-stuff/ldt/test/dt.lpi			
fp.dsk	3,834	DSK	2024	/home/jem/laz-stuff/ldt/test/dt.pas			
fp.ini	1,541	INI	2024	/home/jem/laz-stuff/ldt/newdir/dt.pdf			
fpc.cfg	7,928	CFG	2024	/home/jem/laz-stuff/ldt/newdir/dt.zip			
fpcdebug.txt	15,921	TXT	2024				
globs.bak	23,158	BAK	2024				
globs.pas	24,542	PAS	2024				
lib	4,096	DIR	2024				
link4111.res	9,719	RES	2024				
masks.pas	56,391	PAS	2024				
newdir	4,096	DIR	2024				
prefs.pas	6,762	PAS	2024				
pxpic.inc	14,271	INC	2024				
sr.pas	11,360	PAS	2024				
srunit.bak	11,481	BAK	2024				
srunit.pas	11,492	PAS	2024				
test	4,096	DIR	2024				
tst	1,044,656	---	2024				
tst.bak	1,265	BAK	2024				
tst.dbg	1,261,232	DBG	2024				
tst.log	6,238	LOG	2024				
tst.lpi	1,849	LPI	2024				
tst.lpr	1,000	LPR	2024				
tst.lps	7,698	LPS	2024				
tst.zip	1,352	ZIP	2024				

DT can do a file search with the F5 command. That will bring up a search window where you will provide a search mask for the file(s) to find : Once the file mask is entered, DT will search for matches in the current and all subdirectories in the current directory.

Use the up and down arrow keys, the PgUp and PgDn keys, and the Home and End keys, to navigate

## File permissions and ownership

The F6 key will bring up the File Permissions window. This allows you to change permissions for a file or directory as long as you have high enough permissions to do that.

Normal File

308,716,175,360 bytes Drive space free

5 Dirs with 36 files

0 files marked using 0 bytes

41 files displayed using 7,931,703 bytes

1000 jem

Filename	Size	Type	Date/Time	UID	GID	Perms
..	4,096	DIR	2024-11-11 14:9.24	1000	1000	rw-rw-r--
atest	19,681	---	2024-10-23 11:47.59	1000	1000	rw-rw-r--
backup	4,096	DIR	2024-11-25 13:46.45	1000	1000	rw-rw-r--
disp.pas	20,216	PAS	2024-11-25 12:35.3	1000	1000	rw-rw-r--
dsave.dat	12,200	DAT	2024-9-23 16:59.40	1000	1000	rw-rw-r--
dt	755,856	---	2024-11-25 13:46.45	1000	1000	rw-rw-r--
dt.bak	3,124	BAK	2024-9-28 14:45.50	1000	1000	rw-rw-r--
dt.dbg	3,371,504	DBG	2024-10-29 16:37.44	1000	1000	rw-rw-r--
dt.lpi	4,447	LPI	2024			
dt.lps	19,908	LPS	2024			
dt.pas	618	PAS	2024			
dt.png	419,707	PNG	2024			
findfiles.bak	3,364	BAK	2024			
findfiles.pas	3,384	PAS	2024			
fp.cfg	1,158	CFG	2024			
fp.dsk	3,834	DSK	2024			
fp.ini	1,541	INI	2024			
fp.cfg	7,928	CFG	2024			
fpdebug.txt	15,921	TXT	2024			
fsearchprompt.png	409,161	PNG	2024			
fsearchresults.png	343,205	PNG	2024			
globs.bak	23,158	BAK	2024			
globs.pas	24,542	PAS	2024			
lib	4,096	DIR	2024			
link411.res	9,719	RES	2024			
masks.pas	56,391	PAS	2024			
newdir	4,096	DIR	2024			
prefs.pas	6,762	PAS	2024			
pxpic.inc	14,271	INC	2024			
sr.pas	11,360	PAS	2024-10-27 13:17.56	1000	1000	rw-rw-r--
srunit.bak	11,481	BAK	2024-10-16 17:1.48	1000	1000	rw-rw-r--
srunit.pas	11,492	PAS	2024-10-28 22:44.28	1000	1000	rw-rw-r--
test	4,096	DIR	2024-11-24 20:48.54	1000	1000	rw-rw-r--
tst	1,044,656	---	2024-11-20 16:27.15	1000	1000	rw-rw-r--
tst.bak	1,265	BAK	2024-10-26 12:55.14	1000	1000	rw-rw-r--
tst.dbg	1,261,232	DBG	2024-11-20 16:27.17	1000	1000	rw-rw-r--
tst.log	6,238	LOG	2024-10-30 13:53.45	1000	1000	rw-rw-r--
tst.lpi	1,849	LPI	2024-11-13 12:17.40	1000	1000	rw-rw-r--
tst.lpr	1,000	LPR	2024-11-13 12:13.0	1000	1000	rw-rw-r--
tst.lps	7,698	LPS	2024-11-20 16:27.17	1000	1000	rw-rw-r--
tst.zip	1,352	ZIP	2024-11-13 12:27.47	1000	1000	rw-rw-r--

Permissions in Linux are Read, Write, and Execute. These are represented by the numbers 1 = Execute, 2 = Write, and 4 = Read. By adding these together you can tell Linux the permissions for each file and directory. Read + Write = 4 + 2 or 6. Read and Execute = 4 + 1 or 5. Read, Write, and Execute = 4 + 2 + 1 or 7. This is done for each of 3 permission slots for User (owner of the file), Group (people in the owners group) and Others (everyone else). So a directory with permissions of 755 = Read, Write, and Enter (7) for the owner, and Read and enter for the group (5) and all others (5). If no access is given then the number in any slot is 0. The permissions for atest are 664 Owner permission 0 - 7 : [ ]

Enter executes, edits a file or changes directory.

A - Z jumps to that letter

Esc - Close DT

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You will see this window briefly explaining how permission numbers work. If you do not understand how the octal permissions numbers work then avoid this command until you do. DT will show you the current permissions and allow you to enter each of the 3 numbers. Pressing the ENTER key results in the current permission number to be kept.

## Symlinks

Making a symlink with the F8 key is simple. Highlight the file to link and then press the F8 key. DT will tell you to move to the location to create the link (if different) and press F8 again. After the second F8 key press, DT will prompt you for the name of the new SymLink. It can be any legal filename. Once the name is entered, press the ENTER key and DT will create the link. An error will be displayed if the link cannot be created.

## File ownership

The F9 key will allow you to change the owner and or the group of a file (or directory), as long as your permissions allow that action.

You can enter either a user name or number for the Owner or Group. If you simple press the ENTER key on either field then it will be unchanged.

Normal File

307,543,887,872 bytes Drive space free

26 Dirs with 13 files

0 files marked using 0 bytes

40 files displayed using 21,081,851 bytes

1000 jem

Filename	Size	Type	Date/Time	UID	GID	Perms
..	4,096	DIR	2024-12-3 16:26.46	1000	1000	rw-rw-r--
ale	4,096	DIR	2024-12-3 12:52.59	1000	1000	rw-rw-r--
ale.zip	1,534,038	ZIP	2024-11-25 22:3.45	1000	1000	rw-rw-r--
basemaker	4,096	DIR	2024-9-9 21:35.44	1000	1000	rw-rw-r--
common	4,096	DIR	2024-12-2 12:22.47	1000	1000	rw-rw-r--
computrack	4,096	DIR	2024-7-3 19:53.7	1000	1000	rw-rw-r--
copyutil.o	212,160	O	2024-10-12 15:52.11	1000	1000	rw-rw-r--
copyutil.pas	14,334	PAS	2024-10-12 15:44.7	1000	1000	rw-rw-r--
cpnew	4,096	DIR	2024-7-3 19:53.18	1000	1000	rw-rw-r--
creatrack	4,096	DIR	2024-11-29 14:35.9	1000	1000	rw-rw-r--
curtoys	4,096	DIR	2024-10-4 21:22.30	1000	1000	rw-rw-r--
del3libs	4,096	DIR	2024-10-24 18:29.21	1000	1000	rw-rw-r--
Dialedt3b-main	4,096	DIR	2024-11-8 15:1.3	1000	1000	rw-rw-r--
dt	4,096	DIR	2024-11-28 14:34.34	1000	1000	rw-rw-r--
dt.zip	474,439	ZIP	2024-10-16 19:15.18	1000	1000	rw-rw-r--
fp.cfg	882	CFG	2024-10-29 23:			
fpc.cfg	7,795	CFG	2024-10-29 23:			
fpcup	4,096	DIR	2024-6-18 11:2			
fpgui_src_1.4.1.tar.gz	13,249,960	GZ	2024-9-20 14:1			
lazhelp-master	4,096	DIR	2021-11-12 22:			
lazpaint-master	4,096	DIR	2024-1-22 9:30			
ldt	4,096	DIR	2024-12-2 22:4			
Lexlib.LXL	1,444,330	LXL	2011-10-15 16:22.18	1000	1000	rw-rw-r--
lib	4,096	DIR	2024-6-7 12:22.51	1000	1000	rw-rw-r--
lib.Lxl	444,231	LXL	2020-6-3 9:56.40	1000	1000	rw-rw-r--
libsqlite3.so	1,468,440	SYM	2024-3-31 2:24.45	1000	1000	rw-rw-r--
libsqlite3.so.0.8.6	1,468,440	S	2024-3-31 2:24.45	1000	1000	rw-rw-r--
lightburn-key.txt	45	TXT	2024-6-18 20:45.50	1000	1000	rw-rw-r--
nettrack	4,096	DIR	2024-9-12 12:1.5	1000	1000	rw-rw-r--
oldmaxedit	4,096	DIR	2024-7-3 19:54.28	1000	1000	rw-rw-r--
shoptrack	4,096	DIR	2024-9-14 22:42.12	1000	1000	rw-rw-r--
sr-source	4,096	DIR	2024-8-23 19:38.36	1000	1000	rw-rw-r--
ted	4,096	DIR	2024-8-23 21:22.28	1000	1000	rw-rw-r--
thumbs.pas	2,882	PAS	2024-6-19 1:25.27	1000	1000	rw-rw-r--
tst	4,096	DIR	2024-7-6 1:31.48	1000	1000	rw-rw-r--
turbobird-master	12,288	DIR	2024-9-6 13:55.50	1000	1000	rw-rw-r--
utils	4,096	DIR	2024-7-14 2:35.7	1000	1000	rw-rw-r--
vdpro	4,096	DIR	2024-8-23 18:15.14	1000	1000	rw-rw-r--
vdyno.chm	645,087	CHM	2020-8-4 0:23.7	1000	1000	rw-rw-r--
vdynoBackup	4,096	DIR	2024-6-17 12:35.43	1000	1000	rw-rw-r--

Permissions in Linux are Read, Write, and Execute. These are represented by the numbers 1 = Execute, 2 = Write, and 4 = Read. By adding these together you can tell Linux the permissions for each file and directory. Read + Write = 4 + 2 or 6. Read and Execute = 4 + 1 or 5. Read, Write, and Execute = 4 + 2 + 1 or 7. This is done for each of 3 permission slots for User (owner of the file), Group (people in the owners group) and Others (everyone else). So a directory with permissions of 755 = Read, Write, and Enter (7) for the owner, and Read and enter for the group (5) and all others (5). If no access is given then the number in any slot is 0. The permissions for atest are 664 Owner permission 0 - 7 : [ ]

Enter executes, edits a file or changes directory.

A - Z jumps to that letter

Del - Delete File(s)

+ Marks a file

- Unmarks a file

F1 - Paste file(s) here

F2 - Move Marked here

F3 - Rename File

F4 - Create DDirectory

F5 - File Search

F6 - File Permissions

ip file(s)

ake Symlink

hange file Owner

nzip file

ile information

earch and Replace

Ctrl+A - Mark all

Ctrl+H - Toggle hidden files

Ctrl+U - unmark all

Ctrl+P - Preferences

Left & Right = help page

Esc - Close DT

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## Getting file information

The F11 key will display information about the currently highlighted file. This is information only, just like the Linux file command does.

/home/jem/laz-stuff/ldt/ Normal File									
6 Dirs with 42 files 307,543,416,832 bytes Drive space free									
0 files marked using 0 bytes 48 files displayed using 7,993,916 bytes									
Filename	Size	Type	Date/Time	UID	GID	Perms	1000 jem DiskTool 4.0.0		
..	4,096	DIR	2024-11-25 22:3.45	1000	1000	rw-rw-r--	Enter executes, edits a file or changes directory.  A - Z jumps to that letter  Del - Delete File(s) + Marks a file - Unmarks a file F1 - Paste file(s) here F2 - Move Marked here F3 - Rename File F4 - Create Directory F5 - File Search F6 - File Permissions		
backup	4,096	DIR	2024-12-2 22:48.35	1000	1000	rw-rw-r--			
disp.o	100,136	O	2024-12-2 22:27.10	1000	1000	rw-rw-r--			
disp.pas	20,391	PAS	2024-11-27 16:54.57	1000	1000	rw-rw-r--			
disp.ppu	6,912	PPU	2024-12-2 22:27.10	1000	1000	rw-rw-r--			
dt	747,600	---	2024-12-2 22:48.36	1000	1000	rw-rw-r--	File Info /home/jem/laz-stuff/ldt/dt: ELF 64-bit LSB executable, x86-64, version 1 (SYSV), dynamically linked, interpreter /lib64/ld-linux-x86-64.so.2, for GNU/Linux 2.4.0, stripped  Press Any Key		
dt.bak	3,124	BAK	2024-9-28 14:45.50	1000	1000	rw-rw-r--			
dt.dbg	3,371,504	DBG	2024-10-29 16:37.44	1000	1000	rw-rw-r--	Owner ation Replace	Ctrl+A - Mark all Ctrl+H - Toggle hidden files Ctrl+U - unmark all Ctrl+P - Preferences Left & Right = help page Esc - Close DT  Page 1	
dt.lpl	4,447	LPI	2024-12-2 22:48.35	1000	1000	rw-rw-r--			
dt.lps	21,319	LPS	2024-12-2 22:48.35	1000	1000	rw-rw-r--			
dt.o	18,616	O	2024-12-2 22:30.28	1000	1000	rw-rw-r--			
dt.pas	359	PAS	2024-11-27 16:55.4	1000	1000	rw-rw-r--			
findfiles.bak	3,364	BAK	2024-10-21 14:5.26	1000	1000	rw-rw-r--			
findfiles.o	165,488	O	2024-12-2 22:27.10	1000	1000	rw-rw-r--			
findfiles.pas	3,386	PAS	2024-11-25 20:26.48	1000	1000	rw-rw-r--			
findfiles.ppu	4,488	PPU	2024						
fp.cfg	1,134	CFG	2024						
fp.dsk	4,080	DSK	2024						
fp.ini	1,479	INI	2024						
fp.cfg	7,928	CFG	2024						
globs.bak	23,158	BAK	2024						
globs.o	340,784	O	2024						
globs.pas	24,643	PAS	2024-11-27 0:8.4	1000	1000	rw-rw-r--			
globs.ppu	19,274	PPU	2024-12-2 22:27.10	1000	1000	rw-rw-r--			
llb	4,096	DIR	2024-5-26 16:16.56	1000	1000	rw-rw-r--			
masks.o	356,896	O	2024-12-2 22:27.8	1000	1000	rw-rw-r--			
masks.pas	56,391	PAS	2024-10-27 13:17.56	1000	1000	rw-rw-r--			
masks.ppu	98,700	PPU	2024-12-2 22:27.8	1000	1000	rw-rw-r--			
newdir	4,096	DIR	2024-12-3 16:26.35	1000	1000	rw-rw-r--			
prefs.o	54,416	O	2024-12-2 22:30.28	1000	1000	rw-rw-r--			
prefs.pas	8,089	PAS	2024-12-2 22:48.35	1000	1000	rw-rw-r--			
prefs.ppu	5,292	PPU	2024-12-2 22:30.28	1000	1000	rw-rw-r--			
pxpic.lnc	14,271	INC	2024-10-27 13:17.56	1000	1000	rw-rw-r--			
sr.pas	11,360	PAS	2024-10-27 13:17.56	1000	1000	rw-rw-r--			
srunit.bak	11,481	BAK	2024-10-16 17:1.48	1000	1000	rw-rw-r--			
srunit.o	84,824	O	2024-12-2 22:27.10	1000	1000	rw-rw-r--			
srunit.pas	11,492	PAS	2024-10-28 22:44.28	1000	1000	rw-rw-r--			
srunit.ppu	7,224	PPU	2024-12-2 22:27.10	1000	1000	rw-rw-r--			
test	4,096	DIR	2024-11-24 20:48.54	1000	1000	rw-rw-r--			
tst	1,044,656	---	2024-11-20 16:27.18	1000	1000	rw-rw-r--			
tst.bak	1,265	BAK	2024-10-26 12:55.14	1000	1000	rw-rw-r--			

## Unzip a file

The F10 key will cause DT to unzip the current file (highlighted). If an error occurs it will be displayed and the unzip process will be aborted. Otherwise the contents will be unzipped into the current directory.

Highlighting a Zip file and pressing ENTER will show the contents of the Zip file. You can also select a single file from the Zip and extract it from the Zip file. Use the cursor keys to select the file inside the Zip.

```

/home/jem/laz-stuff/ldt/zip/ 305,866,575,
1 Dirs with 8 files          9 files
0 files marked using 0 bytes

```

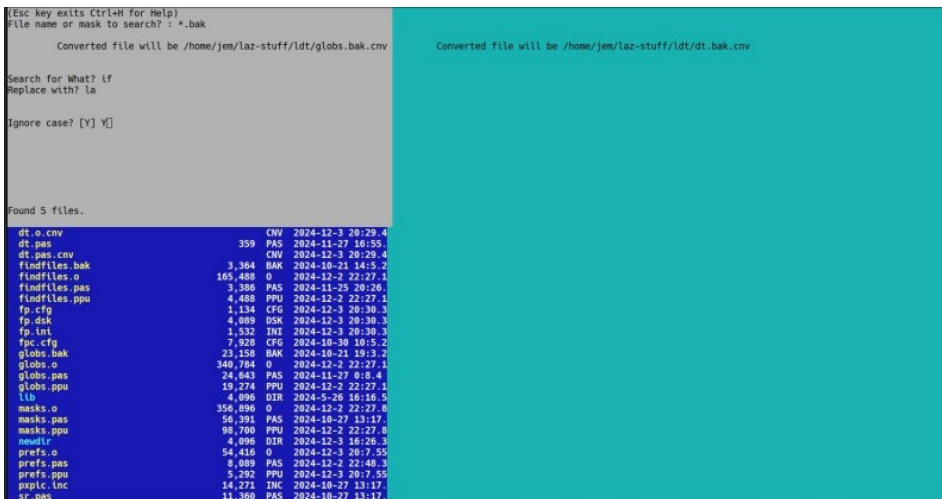
Filename	Size
..	4,0
ale.zip	9,6
ChangeLog.txt	5,2
custom.zip	61,0
dt-src.zip	145,7
dt.pdf	40,5
DT.read.me	2,0
dt.zip	37,4
ztp1t.sh	4

```

Enter Selects Esc Aborts
Length Method Size Ratio Date Time CRC-32 Name
-----
9845 Stored 9845 100% 12-07-24 17:05 7C54CEE8 ale.zip
61095 Stored 61095 100% 12-07-24 17:05 3027050A custom.zip
37481 Stored 37481 100% 12-07-24 17:05 580B7A70 dt.zip
5200 Defl:N 2027 38% 12-04-24 21:17 210AF76A ChangeLog.txt
40514 Defl:N 33541 82% 10-23-24 11:46 5EABE574 dt.pdf
2016 Defl:N 990 49% 12-05-24 12:53 22ECBCF0 DT.read.me

```

## Search and Replace (within file(s))



You will see the search window open and will need to answer several options. Most have defaults, but you will actually have to enter some things, like the search and replace strings. This is a dedicated search AND replace routine, so if you just want to find something you need to

make sure to say Y to the Prompt on replace option.

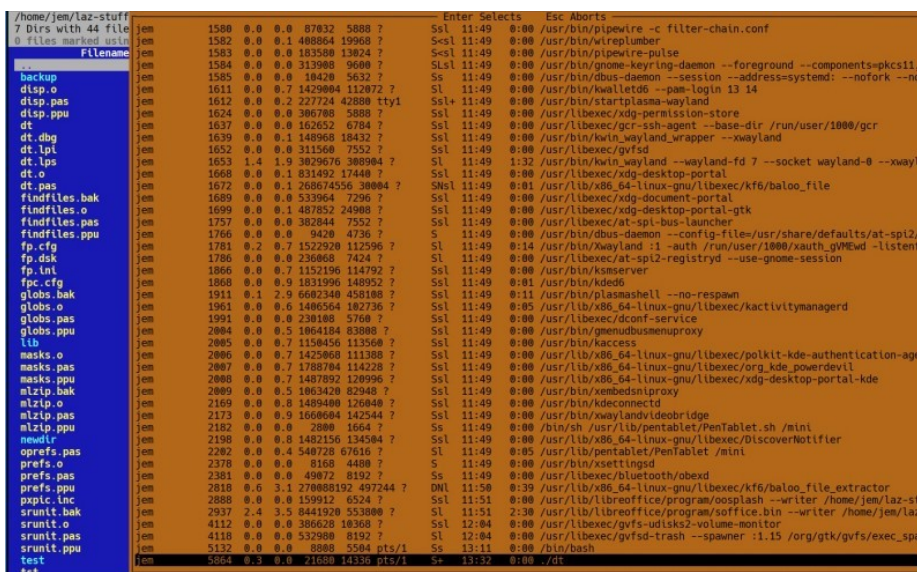
If you just press ENTER on the replace string, the search routine will replace all matches with an empty string. The routine will warn you to this if you just hit ENTER. Also you may want to answer N on the Replace file option (N is the default). This creates a new file with all of the changes made instead of making those changes directly into the original file. This gives you the chance to go through the new file to make sure that the changes are what you wanted. Then you can replace the original file with the /cnv file yourself.

## Alt+= command

List currently running processes with the Alt+= command. That means to hold down the Alt key, and press the = key. This will display a list of all processes currently running on the system. There is no interaction with this command.

## Alt+- command

List currently running user processes with the Kill option with the Alt+- command. Again, you hold down the Alt key while pressing the – key. This lists all of your user processes and allows you to kill a process (or processes). If you are Root, the you will see all running processes listed. Otherwise you will see only the processes that belong to your user account.



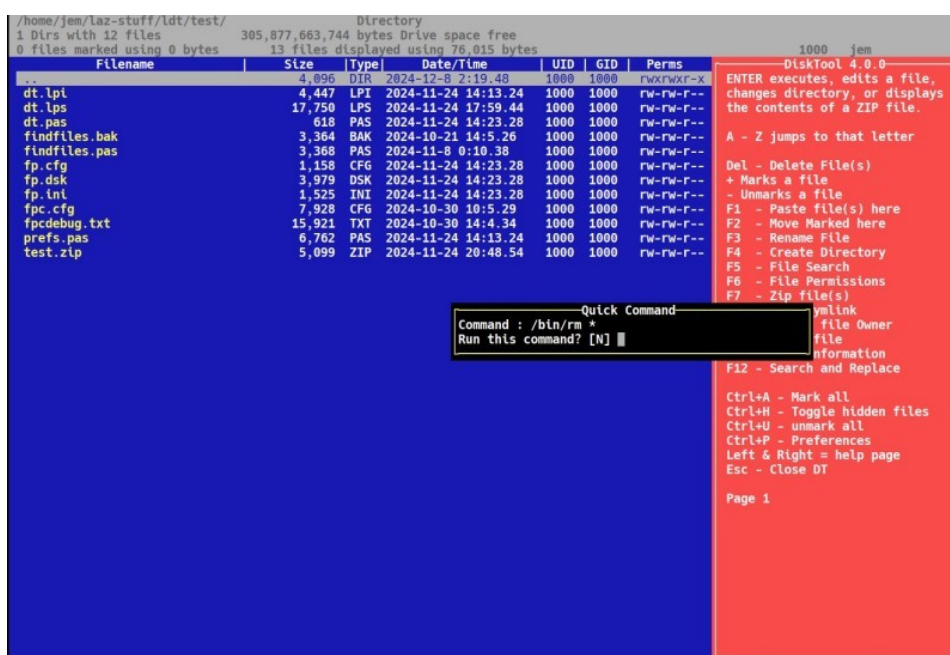
## Alt+C

The Alt+C command brings up the Change Directory dialog. Here you select the directory to change into from a list. Remember that the .. entry is the parent or previous directory. Use the cursor keys to move through the list of directories, and press ENTER when you have highlighted the directory that you want. DT will change to that directory, or press the F12 key to tell the directory dialog to change into the highlighted directory so that you can continue to navigate to the directory that you want.

## Alt+Q

The Quick command feature is enabled with the Alt+Q command. Quick command lets you type in a linux command and then DT passes that command on to Linux and waits for it to complete. The command itself can be just about anything that you have permissions to run. That makes Alt+Q the most dangerous feature of the DT program.

DT will display a warning so that you know that whatever you do is your responsibility.



You do not need to pass the path to the command, but I suggest doing so simply to make you think about what you are doing. If you are running DT as root, this has the same potential to destroy your system as a console or terminal emulator if you are not careful. Once you have typed in the command and pressed ENTER, DT will force you to confirm that you want to run this command.

If the command is successful DT will redisplay the files to reflect any changes and continue as normal. If there is an error, DT will display the error and abort the Quick command.

## Dialogs displayed in DT

Many dialogs that DT displays ask questions based upon what you are doing at the time. Some of those questions have default answers, such as most Y or N questions. Any operation that is destructive, like a delete command, defaults to N (NO), so that you **must** enter a Y to carry out the destructive action.

All dialogs can be closed with the Esc key. So, if you get into something by mistake, you can always hit the Esc key to abort whatever DT wants to do to your system. Be aware that all Yes or No questions are single key answers. In other words, you do not need to hit the ENTER key after pressing Y or N. As soon as you press the key, DT moves on to its next task or question. This can take some getting used to at first. I wrote DT this way to make it as fast and easy as possible to move around inside. Just read what is on the screen and be sure that you understand what is being asked before pressing that Y key.

Some dialogs contain lists that you can interact with by using the cursor control keys. Those are the Up & Down arrows, Right & Left arrow keys, PgUp & PgDn keys, and the Home and End keys. DT will always tell you what it is expecting. For example some list windows use the F12 key to make one kind of selection, while the ENTER key makes another kind of selection. Again, just read what is on the screen until you get used to the various operations that DT can do, and how it does them.

### **Contacting me**

I can be reached by email at [jem@mlsoft.org](mailto:jem@mlsoft.org) for any questions, suggestions, bug reports, or whatever. DT is beggar-ware, if you wish to help support DT and my efforts to write old fashioned small, fast, high quality software, consider donating a few bucks via paypal to the same email address of [jem@mlsoft.org](mailto:jem@mlsoft.org). Any donations are greatly appreciated, I am retired now days and times can get pretty tight as you likely know. A donation does not get you access to any special features or anything like that, but it will get you a thank you note.