

Tabfmt

Formatting tabular data
Edition 0.2, for Tabfmt Version 0.2
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This manual is for Tabfmt (version 0.2, 7 February 2006), a software tool for formatting tabular data.

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Table of Contents

1	Overview	1
2	Invoking tabfmt	2
3	Examples.....	5
4	Reporting Bugs.....	7
	Appendix A Copying This Manual	8
	A.1 GNU Free Documentation License	8
	A.1.1 ADDENDUM: How to use this License for your documents	14
	Index	15

1 Overview

Tabfmt is a command line utility to format tabular data. The program reads lines from one or more files or from standard input, breaks the lines into fields given a set of input field delimiters, and prints a table with constant-width columns to standard output or a specified file.

Minimum and maximum field widths, left and right padding, as well as the characters used for filling, padding and delimiting the fields can be specified.

This program is meant to integrate well with the standard UNIX utilities for text manipulation. It is specialised in a simple, everyday task which is usually too bothersome to implement in shell scripting.

2 Invoking `tabfmt`

`tabfmt` reads lines from one or more files, breaks the lines into fields given a set of input field delimiters, and prints a table with constant-width columns to standard output. Standard input is used for a file name of `-` or if no input files are given.

The format for running the `tabfmt` program is:

```
tabfmt option... file...
```

In the table which follows, the *width-list*, *padding-list* and *alignment-list* are comma-separated lists. Each list element refers to the corresponding field in the input. If the number of fields exceeds the number of list elements, the last element counts for all remaining fields.

The program accepts the following options:

`-d string`

`--delimiter=string`

Break the input lines into fields at any of the characters in *string*. By default, input fields are delimited by the characters in the `IFS` environment variable. If this environment variable is not set, `'TAB'` and `'SPC'` will be used as the default.

The following backslash-escaped characters are recognized:

<code>'\a'</code>	alert (<code>'BEL'</code>)
<code>'\b'</code>	backspace (<code>'BS'</code>)
<code>'\f'</code>	form feed (<code>'FF'</code>)
<code>'\n'</code>	new line (<code>'LF'</code>)
<code>'\r'</code>	carriage return (<code>'CR'</code>)
<code>'\t'</code>	horizontal tab (<code>'TAB'</code>)
<code>'\v'</code>	vertical tab (<code>'VT'</code>)
<code>'\\'</code>	backslash (<code>'\'</code>)
<code>'\nnn'</code>	the character whose ASCII code is <i>nnn</i> (octal); if <i>nnn</i> is not a valid octal number, its value is taken literally.

The input delimiter does not appear in the output (see the description of `'--output-delimiter'` instead). If a sequence of input delimiters appears in the input, each pair of delimiters is taken to enclose an empty field.

`-w width-list`

`--widths=width-list`

Determine the minimum and maximum output width of each field. By default, the width of a field is determined by its widest entry in all lines.

Each element of *width-list* has one of the following forms:

`"` An empty element poses no constraints on the width of a field. The width is determined by the widest entry occurring at this field in all lines.

- '*n*' Use at least *n* characters for this field. If an entry has less characters, the missing characters are filled with spaces, or the character specified with the option '`--filler`'.
- '-*n*' Use at most *n* characters for this field. If an entry has more characters, the remaining characters are cut off.
- '*n-m*' Use at least *n* and at most *m* characters for this field.
- '*n*' Use exactly *n* characters for this field.
- '-e'
- '--equal-width'
 Use the same width for all fields. The width is determined by the widest entry in all fields. If a minimum or maximum width is specified (see the description of '`--widths`'), all but the first element of *width-list* are ignored.
- '-f *character*'
'--filler=*character*'
 If an entry has less characters than the field width, fill the missing characters with *character*; default is 'SPC'. The same backslash-escaped characters are recognized as for the option '`--delimiter`'.
- '-a *alignment-list*'
'--align=*alignment-list*'
 Determine the alignment of each field. By default, all fields are left-aligned. Elements of *alignment-list* have the following form:
 - 'l' or 'L' Align the entry to the left of the field.
 - 'r' or 'R' Align the entry to the right of the field.
 - 'c' or 'C' Center the entry in the field.
- '-p *padding-list*'
'--padding=*padding-list*'
 Determine the number of padding characters of each field. By default, fields have no padding. The padding will appear both at the left and the right of the field. Note that the padding does not contribute to the field width.
- '-l *padding-list*'
'--left-padding=*padding-list*'
 Determine the left padding of each field (see the description of '`--padding`').
- '-r *padding-list*'
'--right-padding=*padding-list*'
 Determine the right padding of each field (see the description of '`--padding`').
- '-P *character*'
'--padder=*character*'
 If a padding is specified for any field, fill it with *character*; default is 'SPC' (see the description of '`--padding`'). The same backslash-escaped characters are recognized as for the option '`--delimiter`'.

`'-D string'`
`'--output-delimiter=string'`
Separate the fields by *string* in the output; default is 'TAB'. The same backslash-escaped characters are recognized as for the option `'--delimiter'`.

`'-o file'`
`'--output=file'`
Write the output to the file *file*. By default, the table is written to standard output.

`'--debug'` Produce debugging information.

`'-h'`
`'--help'` Print an informative help message describing the options and then exit.

`'-V'`
`'--version'`
Print the version number of `tabfmt` and then exit.

An exit status of zero indicates success, and a nonzero value indicates failure.

Note that each line in the input can have a different number of fields; in this case, the lines will also have different numbers of fields in the output. In other words, no fields are added in the output.

If multiple files are specified, they will be treated as a single dataset. In particular, the field widths are not computed per input file; they are computed over the entire input.

3 Examples

`tabfmt` is particularly useful to convert various system configuration files to a more readable format.

```
$ tabfmt /etc/mstab

/dev/hda1 /          ext3  rw          0 0
/dev/hda2 /tmp       ext3  rw,nosuid,nodev  0 0
/dev/hda3 /var       ext3  rw,nosuid,nodev  0 0
/dev/hda4 /usr       ext3  rw,nodev    0 0
/dev/hda5 /home      ext3  rw,nosuid,nodev  0 0
proc      /proc         proc  rw          0 0
sysfs     /sys          sysfs rw          0 0
devpts    /dev/pts      devpts rw,gid=5,mode=620 0 0
tmpfs     /dev/shm      tmpfs rw          0 0
usbfs     /proc/bus/usb usbfs rw          0 0
tmpfs     /dev          tmpfs rw,size=10M,mode=0755 0 0
```

This example splits `/etc/mstab` (which contains space-separated data), and outputs a tab-delimited table with constant-width columns. (You may not find tabs here if you are reading this manual in printed or HTML format.)

```
$ awk -F: '($7 == "/bin/false")' /etc/passwd |
> cut -d: -f1,3,4,5,6 |
> tabfmt -d: -w,.,,15, -D\| -p1

Debian-exim | 102 | 102 | | /var/spool/exim4
sshd        | 100 | 65534 | | /var/run/sshd
messagebus  | 101 | 104 | | /var/run/dbus
hal         | 105 | 105 | Hardware abstra | /var/run/hal
identd      | 103 | 65534 | | /var/run/identd
gdm         | 104 | 107 | Gnome Display M | /var/lib/gdm
ntop        | 109 | 109 | | /var/lib/ntop
scanlogd    | 107 | 65534 | | /usr/lib/scanlogd
cups-pdf    | 108 | 65534 | Anonymous Samba | /var/spool/cups-pdf
```

This example first uses `awk` to extract from `/etc/passwd` those accounts whose login shell is `/bin/false`. It then uses `cut` to print only the login name, uid, gid, user name and home directory. Finally, `tabfmt` is invoked to produce a human-readable table, truncating user names which exceed 20 characters in length.

```
$ for f in README NEWS AUTHORS THANKS COPYING INSTALL ChangeLog; do
> echo -n $f:
> ls -l /usr/share/doc/*/ $f 2>/dev/null | wc -l
> done | tabfmt -d: -al,r -D" = "
```



```
README    = 443
NEWS      = 13
AUTHORS    = 262
THANKS    = 51
COPYING   = 1
INSTALL   = 2
ChangeLog = 0
```

This example demonstrates how to use `tabfmt` at the end of a pipeline gathering some file statistics. It uses the `-a` option to right-align the numbers, and the `-D` option to set the output delimiter to a `=` with spaces around it.

4 Reporting Bugs

Please send bug reports and suggestions for `tabfmt` to the following mailing list:

tabfmt-devel@lists.sourceforge.net.

You can get the latest version of the program at the `tabfmt` homepage:

<http://tabfmt.sourceforge.net/>

Alternatively, you can obtain the source code via CVS with the following command:

```
cvsv -z3 -d:pserver:anonymous@cvs.sourceforge.net:/cvsroot/tabfmt \  
co -P tabfmt
```

For bug reports, please include enough information for the maintainers to reproduce the problem. Generally speaking, that means:

- the version number of `tabfmt`.
- hardware and operating system names and versions.
- the contents of any input files necessary to reproduce the bug.
- a description of the problem and samples of any erroneous output.
- any unusual options you gave to `configure`.
- anything else that you think would be helpful.

When in doubt whether something is needed or not, include it. It's better to include too much than to leave out something important.

Patches are most welcome; if possible, please make them with `'diff -c'` (see [section "Overview" in *Comparing and Merging Files*](#)) and include `'ChangeLog'` entries (see [section "Change Log" in *The GNU Emacs Manual*](#)).

When sending patches, if possible please do not encode or split them in any way; it's much easier to deal with one plain text message, however large, than many small ones. [GNU shar](#) is a convenient way of packaging multiple and/or binary files for email.

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Index

B

- backslash escapes 2
- Bugs, reporting 7

C

- Checklist for bug reports 7

E

- environment variables, IFS 2
- example 5

F

- FDL, GNU Free Documentation License 8

I

- introduction 1
- invoking `tabfmt` 2

L

- lists 2

O

- overview 1

P

- Patches, contributing 7

R

- ranges 2
- Reporting bugs 7

S

- sample 5
- Suggestions for `Tabfmt`, making 7

T

- `tabfmt` 2

W

- width 2