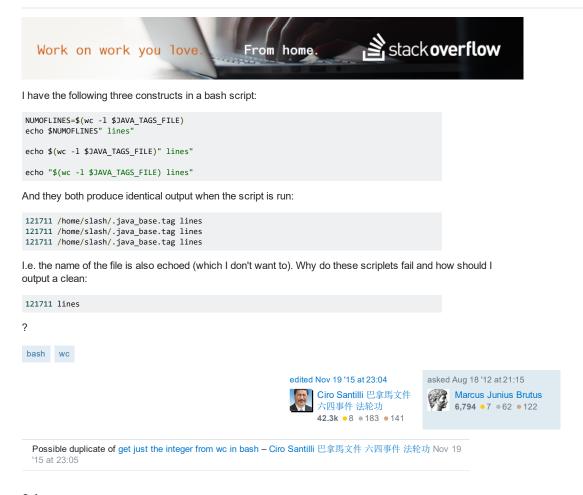


bash echo number of lines of file given in a bash variable without the file name



6 Answers

An Example Using Your Own Data

You can avoid having your filename embedded in the **NUMOFLINES** variable by using redirection from **JAVA_TAGS_FILE**, rather than passing the filename as an argument to *wc*. For example:

```
NUMOFLINES=$(wc -1 < "$JAVA_TAGS_FILE")
```

Explanation: Use Pipes or Redirection to Avoid Filenames in Output

The *wc* utility will not print the name of the file in its output if input is taken from a pipe or redirection operator. Consider these various examples:

```
# wc shows filename when the file is an argument
$ wc -1 /etc/passwd
41 /etc/passwd
# filename is ignored when piped in on standard input
$ cat /etc/passwd | wc -1
41
# unusual redirection, but wc still ignores the filename
$ < /etc/passwd wc -1
41
# typical redirection, taking standard input from a file
$ wc -1 < /etc/passwd
41</pre>
```

As you can see, the only time wc will print the filename is when its passed as an argument, rather than as data on standard input. In some cases, you may want the filename to be printed, so it's useful to understand when it will be displayed.



beware that this approach will not include the last line if the last line does not terminate by end of line character. See my fix below. – ling Oct 18 $^{\circ}15$ at 5:33



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wc can't get the filename if you don't give it one.

wc -1 < "\$JAVA TAGS FILE"

answered Aug 18 '12 at 21:17

Ignacio Vazquez-Abrams
429k • 59 • 760 • 924

2 Well, then don't. Just pass the file to wc 's stdin as shown in the answer. So cat "\$JAVA_TAGS_FILE" | wc -1 or, equivalently, wc -1 < "\$JAVA_TAGS_FILE" . This way, wc only gets raw data, not the filename. — Witiko Jul 4 '13 at 14:23 \$\mathref{s}\$

You can also use awk:

awk 'END {print NR,"lines"}'
filename

Or

awk 'END {print NR}' filename

answered Aug 11 '15 at 12:33



chilicuil 231 • 2 • 9

It's a very simple:

NUMOFLINES=\$(cat \$JAVA_TAGS_FILE | wc -1)

or

NUMOFLINES=\$(wc -1 \$JAVA_TAGS_FILE | awk '{print \$1}')

answered Aug 18 '12 at 21:18

Slava Semushin

8,259 • 5 • 29 • 44

(apply on Mac, and probably other Unixes)

Actually there is a problem with the wc approach: it does not count the last line if it does not terminate with the end of line symbol.

Use this instead

nbLines=\$(cat -n file.txt | tail -n 1 | cut -f1 | xargs)

or even better (thanks gniourf_gniourf):

nblines=\$(grep -c '' file.txt)

Note: The awk approach by chilicuil also works.

edited Oct 19 '15 at 7:41

answered Oct 18 '15 at 5:32



ling
1.208 • 1 • 12 • 18

1 Very convoluted method! Maybe you'll want nblines=\$(grep -c ' 'file) instead (which is the canonical way of counting incomplete lines in this case). Note though that according to POSIX, you're counting the incomplete lines (and not the lines). You're in fact dealing with a binary file and not a text file. — gniourf_gniourf Oct 18 '15 at 6:33 \$\mathref{s}\$

 $\underline{\textbf{@gniourf_gniourf Thanks, I didn't know about that, it works great and is even more concise.} - \underline{\textbf{ling}} \ \texttt{Oct} \ \texttt{19} \\ \texttt{'15} \ \texttt{at} \ \texttt{7:39}$

I normally use the 'back tick' feature of bash

export NUM_LINES=`wc -1 filename`

Note the 'tick' is the 'back tick' e.g. ` not the normal single quote $% \left(1\right) =\left(1\right) \left(1$

edited Jan 1 '15 at 20:03 fejese 3,398 • 4 • 16 • 29 answered Jul 18 '14 at 12:45
Russ Hore

5 That's just a different notation, and doesn't solve the issue of the file name being part of the result. – Izzy Jan 1 '15 at 19:57