
Subject: Re: ? Number of lines in a file
Posted by [R. Bauer](#) on Mon, 10 Feb 1997 08:00:00 GMT
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David Gunter wrote:

>
> I need to know how many lines are in a file so I use:
>
> spawn, "fgrep -cv 'gbrsh' "+filename, n_lines
>
> Is there a more efficient way to do this? I've searched the manuals with no
> luck.
>
> BTW, I'm running on a UNIX system for those confused by the above line. ;)
>

It is!

Look at this,

Idl is very fast in processing of arrays. So the idea was to find out
how many bytes are in a file then it could be opened and read at once as
a bytearr.

After this I count the 10B which indicates the number of lines.

I include my two routines to this mail.

```
; Copyright R.Bauer 2. Jan. 1996  
; the idea to use fstat instead of spawn ls -l was given by  
; Phil Williams
```

```
function filesize, filename
```

```
if n_params(0) lt 1 then begin  
    help: print, ' Diese Hilfe kommt mit a=filesize().'  
    print,'  
    print,' stellt fest wieviele Bytes in einer Datei sind.'  
    print,"  
    print,'Example'  
    print,"a=filesize('testfile.asc')"  
    print,'-----'  
    return,-1  
    help_open: print,(filesize) Das File: ',filename,' gibt es nicht.'  
    return,-1  
ENDIF
```

```
openr,lun,filename,/get_lun,error=err  
if err ne 0 then goto, help_open  
stats = fstat(lun)  
free_lun, lun  
  
return, stats.size  
end
```

===== cut here =====

```
; MODIFICATION HISTORY:  
; Copyright R.Bauer 2. Jan. 1996  
;-
```

function fileline, filename

```
if n_params(0) lt 1 then begin  
    help: print, ' Diese Hilfe kommt mit a=fileline().'  
    print,''  
    print,' stellt fest wieviele Zeilen in einer ASCII Datei sind.'  
    print,"  
    print,'Example'  
    print,"a=fileline('testfile.asc')"  
    print,'-----'  
    return,-1  
    help_open: print,'(fileline) Das File: ',filename,' gibt es nicht.'  
    return,-1  
ENDIF
```

byt=filesize(filename)

if byt eq -1 then goto, help_open

lesefeld=bytarr(byt)

```
openr,lun,filename,/get_lun,error=err  
if err ne 0 then goto, help_open  
readu,lun,lesefeld ;lese=string(a)  
close,lun
```

```
free_lun,lun  
line=where(lesefeld eq 10B,count_line)  
;help,count_line
```

```
return,count_line  
END
```

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R.Bauer

Institut fuer Stratosphaerische Chemie (ICG-1)
Forschungszentrum Juelich
email: R.Bauer@kfa-juelich.de
