

gnuplot : plotting data from multiple input files in a single graph

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I am trying to plot a graph using gnuplot. I have 6 text files. Each text file contains two columns. The first column represents time in seconds (it is a floating point number). Second is a sequence number. I want to plot the graph of time vs sequence number in a single graph for all six files. I am using this file to do that.

```
set terminal png
set output 'akamai.png'

set xdata time
set timefmt "%S"
set xlabel "time"

set autoscale

set ylabel "highest seq number"
set format y "%s"

set title "seq number over time"
set key reverse Left outside
set grid

set style data linespoints

plot "print_1012720" using 1:2 title "Flow 1", \
plot "print_1058167" using 1:2 title "Flow 2", \
plot "print_193548" using 1:2 title "Flow 3", \
plot "print_401125" using 1:2 title "Flow 4", \
plot "print_401275" using 1:2 title "Flow 5", \
plot "print_401276" using 1:2 title "Flow 6"
```

Where my files are:

- print_1012720
- print_1058167
- print_193548
- print_401125
- print_401275
- print_401276

It is giving a strange error as below:

```
"plot.plt", line 24: undefined
variable: plot
```

Am I doing something wrong. Is it possible to plot the input data from different files in the same graph.

gnuplot



kenorb

72.6k 31 422 431

asked Jun 18 '12 at 23:44



liv2hak

5,399 30 100 177

Be clever, go to this topic

[stackoverflow.com/questions/14946530/...](https://stackoverflow.com/questions/14946530/)

– Marcos Alex Jul 19 '13 at 12:47

3 Answers



You're so close!

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Change:



```

plot "print_1012720" using 1:2 ti
plot "print_1058167" using 1:2 ti
plot "print_193548" using 1:2 ti
plot "print_401125" using 1:2 ti
plot "print_401275" using 1:2 ti
plot "print_401276" using 1:2 ti

```

to:

```

plot "print_1012720" using 1:2 ti
    "print_1058167" using 1:2 ti
    "print_193548" using 1:2 ti
    "print_401125" using 1:2 ti
    "print_401275" using 1:2 ti
    "print_401276" using 1:2 ti

```

The error is because gnuplot is trying to interpret the word "plot" as the filename to plot, but you haven't assigned any strings to a variable named "plot" (which is good -- That would be super confusing).

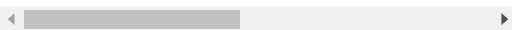
edited Dec 10 '12 at 13:55

answered Jun 18 '12 at 23:51



mgilson

215k 40 425 537



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You may find that gnuplot's for loops are useful in this case, if you adjust your filenames or graph titles appropriately.



e.g.

```

filenames = "first second third fo
plot for [file in filenames] file.

```

```
filename(n) = sprintf("file_%d", n)
plot for [i=1:10] filename(i) using
```

answered Jan 27 '14 at 23:06



[Richard](#)

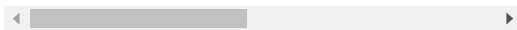
28.2k 19 110 175

- 5 I know this is old, but thank you for adding that alternative solution. Wasn't aware of loops in gnuplot, and they're an amazing feature. – [Amit](#) Apr 10 '14 at 13:37

Assuming normal filename convention (name.dat) I think this should be file.".dat". The first . concatenates the filename to "dat" but isn't included in the filename actually used in the plotting command. – [jake](#) Oct 28 '14 at 2:10

How can I plot *all* the files in a directory without explicitly writing their names?
(stackoverflow.com/q/29969393/855050) – [becko](#) Apr 30 '15 at 13:43 ✎

I've added an answer to that question, @becko. – [Richard](#) Apr 30 '15 at 17:47



▲ **replot** is another way to get multiple plots at once:

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▼
plot file1.data
replot file2.data

answered Oct 8 '15 at 17:21



[Ciro Santilli](#) 新疆改造中心996ICU六四事件

151k 34 567 485

