

NAME

gcomp - do computations on a graph file.

SYNOPSIS

gcomp [**-amilh**][**+variable value ..**][**file ..**]

DESCRIPTION

Gcomp reads each graph *file* in sequence and computes the specified calculations. The type options are as follows:

- n** Print the name of each curve.
- a** Print average and standard deviation of each curve.
- m** Print minimum and maximum for each curve.
- i** Print Romberg's approximation to the integral of each curve.
- l** Print the slope, intercept, and correlation coefficient using the least squares method of linear regression.
- h** Do not print a header in the output.

The calculations will be displayed as columns in the order they are specified on the command line. If no files are given, the standard input is read.

Variables can be set explicitly with *+variable value* options. The only truly useful variables for this program are *xmin* and *xmax*. They determine boundaries for the calculations.

EXAMPLE

To compute the approximate integral of $\sin(x)/\log(x)$ from 2 to 4:

```
gcomp -i
A(x)=sin(x)/log(x);
Anpoints=100;
xmin=2;
xmax=4;
^D
```

AUTHOR

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BUGS

Only the y values can be used for computation.

SEE ALSO

bgraph(1), dgraph(1), icalc(1), igraph(1)