NAME

gsl-randist - generate random samples from various distributions

SYNOPSYS

gsl-randist seed n DIST param1 param2 [..]

DESCRIPTION

gsl-randist is a demonstration program for the GNU Scientific Library. It generates n random samples from the distribution DIST using the distribution parameters param1, param2, ...

EXAMPLE

Here is an example. We generate 10000 random samples from a Cauchy distribution with a width of 30 and histogram them over the range -100 to 100, using 200 bins.

    gsl-randist 0 10000 cauchy 30 | gsl-histogram -100 100 200 > histogram.dat

A plot of the resulting histogram will show the familiar shape of the Cauchy distribution with fluctuations caused by the finite sample size.

    awk '{print $1, $3 ; print $2, $3}' histogram.dat | graph -T X

SEE ALSO

gsl(3), **gsl-histogram(1)**.

AUTHOR

gsl-randist was written by James Theiler and Brian Gough. Copyright 1996-2000; for copying conditions see the GNU General Public Licence.

This manual page was added by the Dirk Eddelbuettel <edd@debian.org>, the Debian GNU/Linux maintainer for **GSL**.