NAME

gsl - GNU Scientific Library

SYNOPSIS

#include <gsl/...>

DESCRIPTION

The GNU Scientific Library (GSL) is a collection of routines for numerical computing. The routines are written from scratch by the GSL team in C, and present a modern Applications Programming Interface (API) for C programmers, allowing wrappers to be written for very high level languages.

The library covers the following areas,

Complex Numbers

Roots of Polynomials

Special Functions

Vectors and Matrices

Permutations

Combinations

Sorting

BLAS Support

Linear Algebra

Eigensystems

Fast Fourier Transforms

Ouadrature

Random Numbers

Quasi-Random Sequences

Random Distributions

Statistics

Histograms

N-Tuples

Monte Carlo Integration

Simulated Annealing

Differential Equations

Interpolation

Numerical Differentiation

Chebyshev Approximations

Series Acceleration

Discrete Hankel Transforms

Root-Finding

Minimization Least-Squares Fitting Physical Constants IEEE Floating-Point

For more information please consult the GSL Reference Manual, which is available as an info file. You can read it online using the shell command **info gsl-ref** (if the library is installed).

Please report any bugs to bug-gsl@gnu.org.