Espalhamento Bhabha em Ordem Dominante

0.1a

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Functions/Subroutines

- program bhabha_scattering

  Programa do processo Bhabha. Calcula a seção de choque diferencial para uma determinada energia de centro de massa, bem como a seção de choque total em termos da energia de centro de massa.
  A compilação deve ser feita segundo o comando: gfortran -o Bhabha.exe Bhabha_fortran_doxy.f subroutines.f
  Ou a versão sem documentação incluída e com as rotinas no mesmo arquivo: gfortran -o Bhabha.exe Bhabha_fortran_sem_doxy.f
  A execução ocorre via: ./Bhabha.exe
  Os gráficos dependem do programa gnuplot (cujos arquivos possuem extensão .gnu) para serem gerados. Em distribuições Debian, a instalação ocorre via:
  sudo apt-get install gnuplot
  Autor:

  $$\mathbf{Fabio\ Kopp,\ Instituto\ de\ Fsica\ (UFRGS),\ RS,\ Brasil.}$$

  Email:

  $$\mathbf{fabio.kopp@ufrgs.br}$$

  Versões: 0.1a - (13/03/2018).
  .

- double precision function dsigma (S2, X)

  Sessão de choque diferencial

  $$\frac{d\sigma}{d\Omega}(S2 = \sqrt(s), x = cos(\theta))[\frac{nb}{sterad}]$$

  .

- double precision function faux (X)

  Função auxiliar para a integração da seção de choque diferencial no ângulo sólido.

- double precision function sigtotal (S20)

  Seção de choque total

  $$\sigma(\ S20 = \sqrt(s)\ )[nb]$$

  , resultado da integração da função FAUX(X) usando a rotina de integração Simpson(função a ser integrada, limite inferior, limite superior, número de intervaloes)

- subroutine chisquared (N, v, chi, chired, si2)

2.1.1 Function/Subroutine Documentation

2.1.1.1 program bhabha_scattering ( )

Programa do processo Bhabha. Calcula a seção de choque diferencial para uma determinada energia de centro de massa, bem como a seção de choque total em termos da energia de centro de massa.
A compilação deve ser feita segundo o comando: gfortran -o Bhabha.exe Bhabha_fortran_doxy.f subroutines.f
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sudo apt-get install gnuplot
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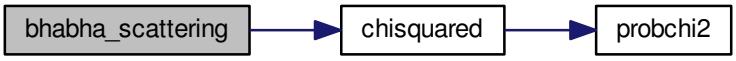
Versões: 0.1a - (13/03/2018).
.

Definition at line 12 of file Bhabha_fortran_doxy.f.

Here is the call graph for this function:



2.1.1.2 subroutine chisquared (integer *N*, integer *v*, double precision *chi*, double precision *chired*, double precision *si2*)

Entrada:

N é o número de pontos no arquivo de dados.
v é o número de variáveis do modelo.
si2 é a energia de centro de massa em GeV.

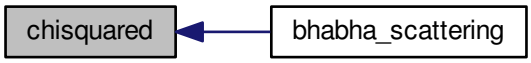
Saída:
chi é o valor do Qui-quadrado em uma dada energia de centro de massa.
chired é o Qui-quadrado reduzidos.

Para calcular o Qui-quadrado de uma energia de centro de massa diferente de 34.8 GeV, altere as colunas de y(N)=C(?,N) e d2y(N)=sqrt((C(?,N)/s)∗∗2) para os valores experimentais relacioados a outra energia de centro de massa. Lembrando que y(N) é o valor da seção de choque diferencial e d2y o erro desta somado em quadratura.

Definition at line 120 of file Bhabha_fortran_doxy.f.

Here is the call graph for this function:

Here is the caller graph for this function:



2.1.1.3 double precision function dsigma (double precision *S2*, double precision *X*)

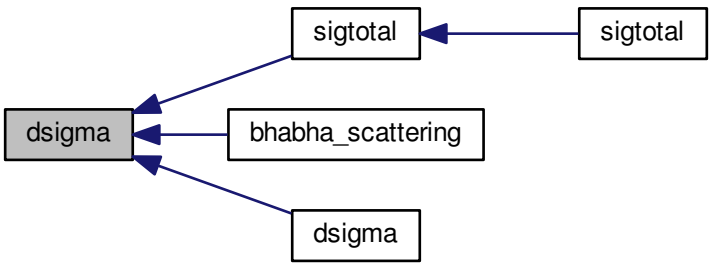
Sessão de choque diferencial

$$\frac{d\sigma}{d\Omega}(S2 = \sqrt{(s)}, x = cos(\theta))[\frac{nb}{sterad}]$$

.

Definition at line 61 of file Bhabha_fortran_doxy.f.

Here is the caller graph for this function:



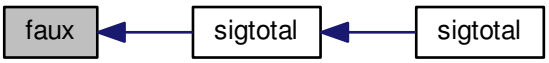
2.1.1.4 double precision function faux (double precision *X*)

Função auxiliar para a integração da seção de choque diferencial no ângulo sólido.

$$\frac{d\sigma}{d\Omega} \cdot 2.0\ \pi\ \cdot sin(\theta)$$

Definition at line 88 of file Bhabha_fortran_doxy.f.

Here is the caller graph for this function:



2.1.1.5 double precision function sigtotal (double precision *S20*)

Seção de choque total

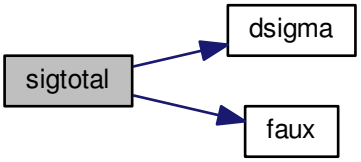
$$\sigma(\ S20 = \sqrt{(s)}\ )[nb]$$

, resultado da integração da função FAUX(X) usando a rotina de integração Simpson(função a ser integrada, limite inferior, limite superior, número de intervaloes)

$$\sigma[nb] = \int_{-0.84}^{0.84} \frac{d\sigma}{d\Omega} \cdot 2.0\ \pi\ \cdot sin(\theta)\,\mathrm{d}\theta$$

Definition at line 102 of file Bhabha_fortran_doxy.f.

Here is the call graph for this function:



Here is the caller graph for this function:

2.2 Bhabha_fortran_sem_doxy.f File Reference

Functions/Subroutines

- program bhabha_scattering
- double precision function dsigma (S2, X)
- double precision function faux (X)
- double precision function sigtotal (S20)
- subroutine chisquared (N, v, chi, chired, si2)
- double precision function simpson (f, a, b, n)
- subroutine probchi2 (x, ndf)
- subroutine angle_cdf (x, n, cdf)
- subroutine angle_mean (n, mean)
- subroutine angle_pdf (x, n, pdf)
- subroutine anglit_cdf (x, cdf)
- subroutine anglit_cdf_inv (cdf, x)
- subroutine anglit_mean (mean)
- subroutine anglit_pdf (x, pdf)
- subroutine anglit_sample (seed, x)
- subroutine anglit_variance (variance)
- subroutine arcsin_cdf (x, a, cdf)
- subroutine arcsin_cdf_inv (cdf, a, x)
- logical function arcsin_check (a)
- subroutine arcsin_mean (a, mean)
- subroutine arcsin_pdf (x, a, pdf)
- subroutine arcsin_sample (a, seed, x)
- subroutine arcsin_variance (a, variance)
- subroutine benford_pdf (x, pdf)
- subroutine birthday_cdf (n, cdf)
- subroutine birthday_cdf_inv (cdf, n)
- subroutine birthday_pdf (n, pdf)
- subroutine bernoulli_cdf (x, a, cdf)
- subroutine bernoulli_cdf_inv (cdf, a, x)
- logical function bernoulli_check (a)
- subroutine bernoulli_mean (a, mean)
- subroutine bernoulli_pdf (x, a, pdf)
- subroutine bernoulli_sample (a, seed, x)
- subroutine bernoulli_variance (a, variance)
- double precision function bessel_i0 (arg)
- subroutine bessel_i0_values (n_data, x, fx)
- double precision function, value beta (a, b)

- subroutine beta_binomial_cdf (x, a, b, c, cdf)
- subroutine beta_binomial_cdf_inv (cdf, a, b, c, x)
- logical function beta_binomial_check (a, b, c)
- subroutine beta_binomial_mean (a, b, c, mean)
- subroutine beta_binomial_pdf (x, a, b, c, pdf)
- subroutine beta_binomial_sample (a, b, c, seed, x)
- subroutine beta_binomial_variance (a, b, c, variance)
- subroutine beta_cdf (x, a, b, cdf)
- subroutine beta_cdf_inv (cdf, p, q, x)
- subroutine beta_cdf_inv_old (cdf, a, b, x)
- subroutine beta_cdf_values (n_data, a, b, x, fx)
- logical function beta_check (a, b)
- double precision function beta_inc (a, b, x)
- subroutine beta_inc_values (n_data, a, b, x, fx)
- subroutine beta_mean (a, b, mean)
- subroutine beta_pdf (x, a, b, pdf)
- subroutine beta_sample (a, b, seed, x)
- subroutine beta_variance (a, b, variance)
- subroutine binomial_cdf (x, a, b, cdf)
- subroutine binomial_cdf_values (n_data, a, b, x, fx)
- logical function geometric_check (a)
- subroutine geometric_mean (a, mean)
- subroutine geometric_pdf (x, a, pdf)
- subroutine geometric_sample (a, seed, x)
- subroutine geometric_variance (a, variance)
- subroutine gompertz_cdf (x, a, b, cdf)
- subroutine gompertz_cdf_inv (cdf, a, b, x)
- logical function gompertz_check (a, b)
- subroutine gompertz_pdf (x, a, b, pdf)
- subroutine gompertz_sample (a, b, seed, x)
- subroutine gumbel_cdf (x, cdf)
- subroutine gumbel_cdf_inv (cdf, x)
- subroutine gumbel_mean (mean)
- subroutine gumbel_pdf (x, pdf)
- subroutine gumbel_sample (seed, x)
- subroutine gumbel_variance (variance)
- subroutine half_normal_cdf (x, a, b, cdf)
- subroutine half_normal_cdf_inv (cdf, a, b, x)
- logical function half_normal_check (a, b)
- subroutine half_normal_mean (a, b, mean)
- subroutine half_normal_pdf (x, a, b, pdf)
- subroutine half_normal_sample (a, b, seed, x)
- subroutine half_normal_variance (a, b, variance)
- subroutine hypergeometric_cdf (x, n, m, l, cdf)
- subroutine hypergeometric_cdf_values (n_data, sam, suc, pop,
- logical function log_series_check (a)
- subroutine log_series_mean (a, mean)
- subroutine log_series_pdf (x, a, pdf)
- subroutine log_series_sample (a, seed, x)
- subroutine log_series_variance (a, variance)
- subroutine log_uniform_cdf (x, a, b, cdf)
- subroutine log_uniform_cdf_inv (cdf, a, b, x)
- logical function log_uniform_check (a, b)
- subroutine log_uniform_mean (a, b, mean)
- subroutine log_uniform_pdf (x, a, b, pdf)

- subroutine log_uniform_sample (a, b, seed, x)
- subroutine lorentz_cdf (x, cdf)
- subroutine lorentz_cdf_inv (cdf, x)
- subroutine lorentz_mean (mean)
- subroutine lorentz_pdf (x, pdf)
- logical function maxwell_check (a)
- subroutine maxwell_mean (a, mean)
- subroutine maxwell_pdf (x, a, pdf)
- subroutine maxwell_sample (a, seed, x)
- subroutine maxwell_variance (a, variance)
- logical function multicoef_check (nfactor, factor)
- subroutine multinomial_coef1 (nfactor, factor, ncomb)
- subroutine multinomial_coef2 (nfactor, factor, ncomb)
- logical function multinomial_check (a, b, c)
- subroutine multinomial_covariance (a, b, c, covariance)
- subroutine multinomial_mean (a, b, c, mean)
- subroutine multinomial_pdf (x, a, b, c, pdf)
- subroutine multinomial_variance (a, b, c, variance)
- subroutine multivariate_normal_sample (n, mean, covar_factor, see
- subroutine nakagami_cdf (x, a, b, c, cdf)
- logical function nakagami_check (a, b, c)
- subroutine nakagami_mean (a, b, c, mean)
- subroutine nakagami_pdf (x, a, b, c, pdf)
- subroutine nakagami_variance (a, b, c, variance)
- subroutine negative_binomial_cdf (x, a, b, cdf)
- subroutine negative_binomial_cdf_inv (cdf, a, b, x)
- subroutine negative_binomial_cdf_values (n_data, f, s, p, cdf)
- subroutine poisson_cdf_inv (cdf, a, x)
- logical function poisson_check (a)
- subroutine poisson_mean (a, mean)
- subroutine poisson_kernel (r, n, c, x, y, p)
- subroutine poisson_pdf (x, a, pdf)
- subroutine poisson_sample (a, seed, x)
- subroutine poisson_variance (a, variance)
- subroutine power_cdf (x, a, b, cdf)
- subroutine power_cdf_inv (cdf, a, b, x)
- logical function power_check (a, b)
- subroutine power_mean (a, b, mean)
- subroutine power_pdf (x, a, b, pdf)
- subroutine power_sample (a, b, seed, x)
- subroutine power_variance (a, b, variance)
- subroutine psi_values (n_data, x, fx)
- subroutine quasigeometric_cdf (x, a, b, cdf)
- subroutine quasigeometric_cdf_inv (cdf, a, b, x)
- logical function quasigeometric_check (a, b)
- subroutine quasigeometric_mean (a, b, mean)
- subroutine quasigeometric_pdf (x, a, b, pdf)
- subroutine quasigeometric_sample (a, b, seed, x)
- subroutine quasigeometric_variance (a, b, variance)
- real function r4_uniform_ab (a, b, seed)
- function r4_uniform_01 (seed)
- function r8_epsilon ()
- function r8_uniform_01 (seed)
- subroutine r8mat_print (m, n, a, title)
- subroutine r8mat_print_some (m, n, a, ilo, jlo, ihi, jhi,

- subroutine r8row_max (m, n, a, amax)
- subroutine r8row_mean (m, n, a, mean)
- subroutine r8row_min (m, n, a, amin)
- subroutine r8row_variance (m, n, a, variance)
- subroutine r8vec_circular_variance (n, x, circular_variance)
- function r8vec_dot_product (n, v1, v2)
- subroutine r8vec_mean (n, x, mean)
- subroutine r8vec_min (n, a, amin)
- subroutine r8vec_uniform_ab (n, a, b, seed, r)
- subroutine r8vec_uniform_01 (n, seed, r)
- subroutine r8vec_unit_sum (n, a)
- subroutine r8vec_variance (n, x, variance)
- subroutine rayleigh_cdf (x, a, cdf)
- subroutine rayleigh_cdf_inv (cdf, a, x)
- subroutine rayleigh_cdf_values (n_data, sigma, x, fx)
- logical function rayleigh_check (a)
- subroutine rayleigh_mean (a, mean)
- subroutine rayleigh_pdf (x, a, pdf)
- subroutine rayleigh_sample (a, seed, x)
- subroutine rayleigh_variance (a, variance)
- subroutine reciprocal_cdf (x, a, b, cdf)
- subroutine reciprocal_cdf_inv (cdf, a, b, x)
- logical function reciprocal_check (a, b)
- subroutine reciprocal_mean (a, b, mean)
- subroutine reciprocal_pdf (x, a, b, pdf)
- subroutine reciprocal_sample (a, b, seed, x)
- subroutine reciprocal_variance (a, b, variance)
- subroutine ribesl (x, alpha, nb, ize, b, ncalc)
- subroutine runs_sample (m, n, seed, r)
- subroutine runs_simulate (m, n, seed, a)
- subroutine runs_variance (m, n, variance)
- double precision function sech (x)
- subroutine sech_cdf (x, a, b, cdf)
- subroutine sech_cdf_inv (cdf, a, b, x)
- logical function sech_check (a, b)
- subroutine sech_mean (a, b, mean)
- subroutine sech_pdf (x, a, b, pdf)
- subroutine sech_sample (a, b, seed, x)
- subroutine sech_variance (a, b, variance)
- subroutine semicircular_cdf (x, a, b, cdf)
- subroutine semicircular_cdf_inv (cdf, a, b, x)
- logical function semicircular_check (a, b)
- subroutine semicircular_mean (a, b, mean)
- subroutine semicircular_pdf (x, a, b, pdf)
- subroutine semicircular_sample (a, b, seed, x)
- subroutine semicircular_variance (a, b, variance)
- double precision function sin_power_int (a, b, n)
- double precision function sphere_unit_area_nd (dim_num)
- integer function stirling2_value (n, m)
- subroutine student_cdf (x, a, b, c, cdf)
- subroutine student_cdf_values (n_data, c, x, fx)
- logical function student_check (a, b, c)
- subroutine student_mean (a, b, c, mean)
- subroutine student_pdf (x, a, b, c, pdf)
- subroutine student_sample (a, b, c, seed, x)

- subroutine student_variance (a, b, c, variance)
- subroutine student_noncentral_cdf (x, idf, d, cdf)
- subroutine student_noncentral_cdf_values (n_data, df, lambda,
- function tfn (h, a)
- logical function triangle_check (a, b, c)
- subroutine triangle_mean (a, b, c, mean)
- subroutine triangle_pdf (x, a, b, c, pdf)
- subroutine triangle_sample (a, b, c, seed, x)
- subroutine triangle_variance (a, b, c, variance)
- subroutine triangular_cdf (x, a, b, cdf)
- subroutine triangular_cdf_inv (cdf, a, b, x)
- logical function triangular_check (a, b)
- subroutine triangular_mean (a, b, mean)
- subroutine triangular_pdf (x, a, b, pdf)
- subroutine triangular_sample (a, b, seed, x)
- subroutine triangular_variance (a, b, variance)
- double precision function trigamma (x)
- subroutine uniform_01_cdf (x, cdf)
- subroutine uniform_01_cdf_inv (cdf, x)
- subroutine uniform_01_mean (mean)
- subroutine uniform_01_order_sample (n, seed, x)
- subroutine uniform_01_pdf (x, pdf)
- double precision function uniform_01_sample (seed)
- logical function uniform_check (a, b)
- subroutine uniform_mean (a, b, mean)
- subroutine uniform_pdf (x, a, b, pdf)
- subroutine uniform_sample (a, b, seed, x)
- subroutine uniform_variance (a, b, variance)
- subroutine uniform_discrete_cdf (x, a, b, cdf)
- subroutine uniform_discrete_cdf_inv (cdf, a, b, x)
- logical function uniform_discrete_check (a, b)
- subroutine uniform_discrete_mean (a, b, mean)
- subroutine uniform_discrete_pdf (x, a, b, pdf)
- subroutine uniform_discrete_sample (a, b, seed, x)
- subroutine uniform_discrete_variance (a, b, variance)
- subroutine uniform_nsphere_sample (n, seed, x)
- subroutine von_mises_cdf (x, a, b, cdf)
- subroutine von_mises_cdf_inv (cdf, a, b, x)
- subroutine von_mises_cdf_values (n_data, a, b, x, fx)
- logical function von_mises_check (a, b)
- subroutine von_mises_circular_variance (a, b, circular_variance)
- subroutine von_mises_mean (a, b, mean)
- subroutine von_mises_pdf (x, a, b, pdf)
- subroutine von_mises_sample (a, b, seed, x)
- subroutine weibull_cdf (x, a, b, c, cdf)
- subroutine weibull_cdf_inv (cdf, a, b, c, x)
- subroutine weibull_cdf_values (n_data, alpha, beta, x, fx)
- logical function weibull_check (a, b, c)
- subroutine weibull_mean (a, b, c, mean)
- subroutine weibull_pdf (x, a, b, c, pdf)
- subroutine weibull_sample (a, b, c, seed, x)
- subroutine weibull_variance (a, b, c, variance)
- subroutine weibull_discrete_cdf (x, a, b, cdf)
- subroutine weibull_discrete_cdf_inv (cdf, a, b, x)
- logical function weibull_discrete_check (a, b)

- subroutine weibull_discrete_pdf (x, a, b, pdf)
- subroutine weibull_discrete_sample (a, b, seed, x)
- double precision function, value zeta (p)
- subroutine zipf_cdf (x, a, cdf)
- logical function zipf_check (a)
- subroutine zipf_mean (a, mean)
- subroutine zipf_pdf (x, a, pdf)
- subroutine zipf_sample (a, seed, x)
- subroutine zipf_variance (a, variance)

2.2.1 Function/Subroutine Documentation

2.2.1.1 subroutine angle_cdf (double precision *x,* integer *n,* double precision, value *cdf*)

Definition at line 210 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.2 subroutine angle_mean (integer *n,* double precision *mean*)

Definition at line 281 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.3 subroutine angle_pdf (double precision *x*, integer *n*, double precision, value *pdf*)

Definition at line 317 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.4 subroutine anglit_cdf (double precision *x*, double precision, value *cdf*)

Definition at line 396 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.5 subroutine anglit_cdf_inv (double precision, value *cdf*, double precision *x*)

Definition at line 437 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.6 subroutine anglit_mean (double precision *mean*)

Definition at line 480 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.7 subroutine anglit_pdf (double precision *x*, double precision, value *pdf*)

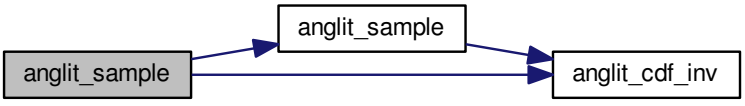
Definition at line 510 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.8 subroutine anglit_sample (integer *seed*, double precision *x*)

Definition at line 553 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:



2.2.1.9 subroutine anglit_variance (double precision *variance*)

Definition at line 591 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.10 subroutine arcsin_cdf (double precision *x,* double precision *a,* double precision, parameter, value *cdf*)

Definition at line 632 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.11 subroutine arcsin_cdf_inv (double precision, parameter, value *cdf,* double precision *a,* double precision *x*)

Definition at line 677 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.12 logical function arcsin_check (double precision *a*)

Definition at line 724 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.13 subroutine arcsin_mean (double precision *a,* double precision *mean*)

Definition at line 766 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.14 subroutine arcsin_pdf (double precision *x,* double precision *a,* double precision, value *pdf*)

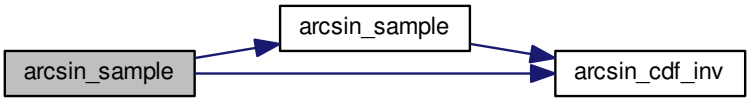
Definition at line 800 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.15 subroutine arcsin_sample (double precision *a,* integer *seed,* double precision *x*)

Definition at line 884 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:



2.2.1.16 subroutine arcsin_variance (double precision *a,* double precision *variance*)

Definition at line 926 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.17 subroutine benford_pdf (double precision *x,* *pdf*)

Definition at line 960 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.18 subroutine bernoulli_cdf (integer *x*, double precision *a*, double precision, value *cdf*)

Definition at line 1389 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.19 subroutine bernoulli_cdf_inv (double precision, value *cdf*, double precision *a*, integer *x*)

Definition at line 1433 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.20 logical function bernoulli_check (double precision *a*)

Definition at line 1482 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.21 subroutine bernoulli_mean (double precision *a,* double precision *mean*)

Definition at line 1524 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.22 subroutine bernoulli_pdf (integer *x,* double precision *a,* double precision, value *pdf*)

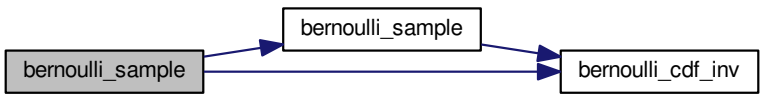
Definition at line 1558 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.23 subroutine bernoulli_sample (double precision *a,* integer *seed,* integer *x*)

Definition at line 1614 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:



2.2.1.24 subroutine bernoulli_variance (double precision *a,* double precision *variance*)

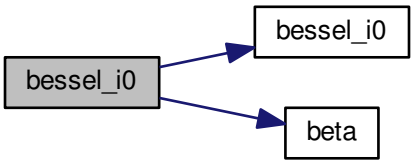
Definition at line 1656 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.25 double precision function bessel_i0 (double precision *arg*)

Definition at line 1690 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:



2.2.1.26 subroutine bessel_i0_values (integer, value *n_data,* double precision *x,* double precision *fx*)

Definition at line 1875 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.27 double precision function, value beta (double precision *a,* double precision *b*)

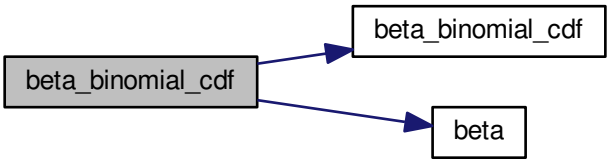
Definition at line 2320 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.28 subroutine beta_binomial_cdf (integer *x,* double precision *a,* double precision *b,* integer *c,* double precision, value *cdf*)

Definition at line 2372 of file Bhabha_fortran_sem_doxy.f.

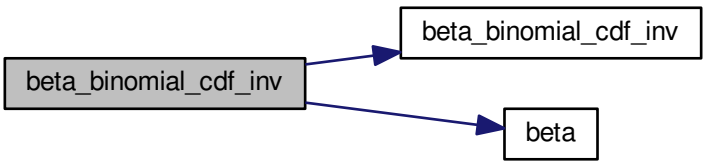
Here is the call graph for this function:



2.2.1.29 subroutine beta_binomial_cdf_inv (double precision, value *cdf,* double precision *a,* double precision *b,* integer *c,* integer *x*)

Definition at line 2441 of file Bhabha_fortran_sem_doxy.f.

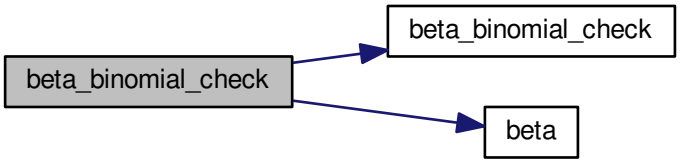
Here is the call graph for this function:



2.2.1.30 logical function beta_binomial_check (double precision *a,* double precision *b,* integer *c*)

Definition at line 2518 of file Bhabha_fortran_sem_doxy.f.

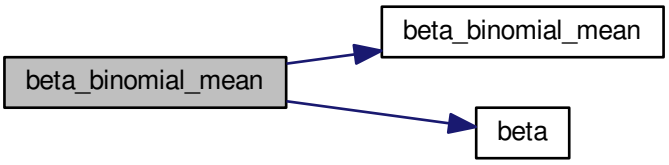
Here is the call graph for this function:



2.2.1.31 subroutine beta_binomial_mean (double precision *a,* double precision *b,* integer *c,* double precision *mean*)

Definition at line 2582 of file Bhabha_fortran_sem_doxy.f.

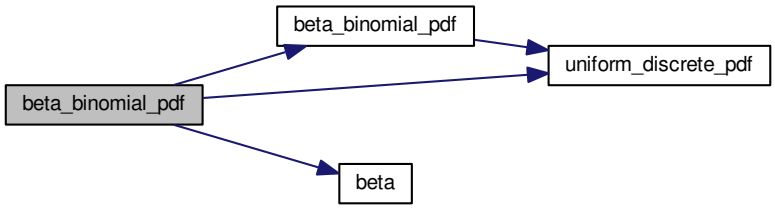
Here is the call graph for this function:



2.2.1.32 subroutine beta_binomial_pdf (integer *x,* double precision *a,* double precision *b,* integer *c,* double precision, parameter, value *pdf*)

Definition at line 2622 of file Bhabha_fortran_sem_doxy.f.

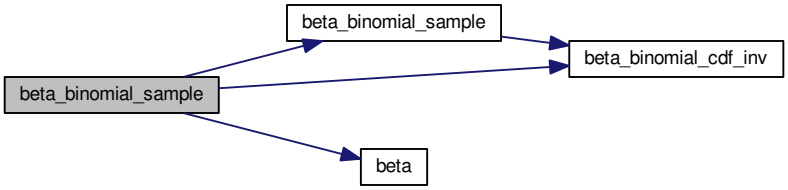
Here is the call graph for this function:



2.2.1.33 subroutine beta_binomial_sample (double precision *a,* double precision *b,* integer *c,* integer *seed,* integer *x*)

Definition at line 2723 of file Bhabha_fortran_sem_doxy.f.

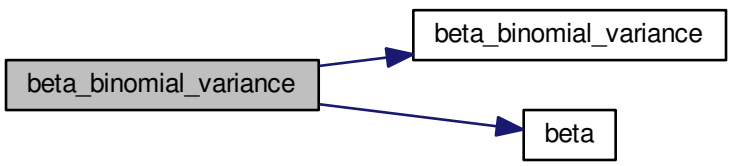
Here is the call graph for this function:



2.2.1.34 subroutine beta_binomial_variance (double precision *a,* double precision *b,* integer *c,* double precision *variance*)

Definition at line 2771 of file Bhabha_fortran_sem_doxy.f.

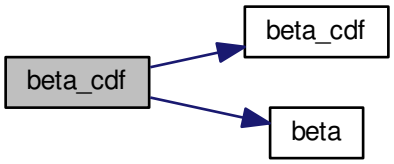
Here is the call graph for this function:



2.2.1.35 subroutine beta_cdf (double precision *x,* double precision *a,* double precision *b,* double precision, value *cdf*)

Definition at line 2813 of file Bhabha_fortran_sem_doxy.f.

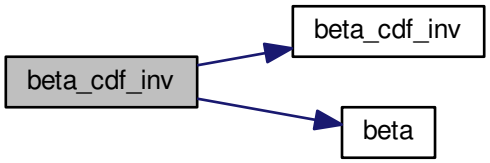
Here is the call graph for this function:



2.2.1.36 subroutine beta_cdf_inv (double precision, value *cdf,* double precision *p,* double precision *q,* double precision *x*)

Definition at line 2859 of file Bhabha_fortran_sem_doxy.f.

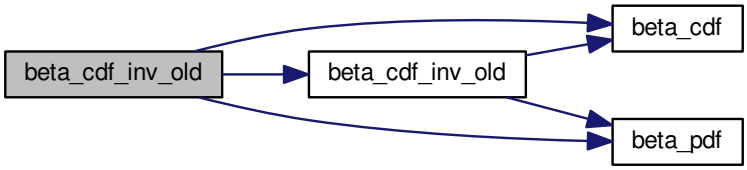
Here is the call graph for this function:



2.2.1.37 subroutine beta_cdf_inv_old (double precision, value *cdf,* double precision *a,* double precision *b,* double precision *x*)

Definition at line 3124 of file Bhabha_fortran_sem_doxy.f.

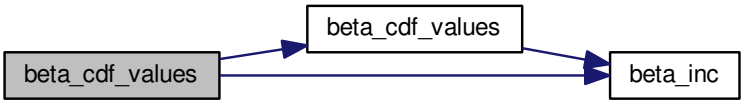
Here is the call graph for this function:



2.2.1.38 subroutine beta_cdf_values (integer, value *n_data,* double precision *a,* double precision *b,* double precision *x,* double precision *fx*)

Definition at line 3285 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:



2.2.1.39 logical function beta_check (double precision *a,* double precision *b*)

Definition at line 3587 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.40 double precision function beta_inc (double precision *a,* double precision *b,* double precision *x*)

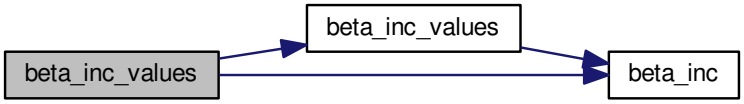
Definition at line 3639 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.41 subroutine beta_inc_values (integer, value *n_data,* double precision *a,* double precision *b,* double precision *x,* double precision *fx*)

Definition at line 3820 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:



2.2.1.42 subroutine beta_mean (double precision *a,* double precision *b,* double precision *mean*)

Definition at line 4122 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.43 subroutine beta_pdf (double precision *x,* double precision *a,* double precision *b,* double precision, value *pdf*)

Definition at line 4158 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.44 subroutine beta_sample (double precision *a,* double precision *b,* integer *seed,* double precision *x*)

Definition at line 4215 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.45 subroutine beta_variance (double precision *a,* double precision *b,* double precision *variance*)

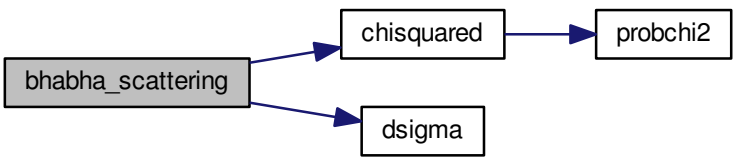
Definition at line 4295 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.46 program bhabha_scattering ( )

Definition at line 1 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:



2.2.1.47 subroutine binomial_cdf (integer *x,* integer *a,* double precision *b,* double precision, value *cdf*)

Definition at line 4331 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.48 subroutine binomial_cdf_values (integer, value *n_data,* *a,* *b,* integer *x,* *fx*)

Definition at line 4414 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.49 subroutine birthday_cdf (integer *n,* double precision *cdf*)

Definition at line 1220 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.50 subroutine birthday_cdf_inv (double precision *cdf,* integer *n*)

Definition at line 1276 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.51 subroutine birthday_pdf (integer *n,* double precision *pdf*)

Definition at line 1333 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.52 subroutine chisquared (integer *N,* integer *v,* double precision *chi,* double precision *chired,* double precision *si2*)

Definition at line 102 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.53 double precision function dsigma (double precision *S2,* double precision *X*)

Definition at line 48 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.54 double precision function faux (double precision *X*)

Definition at line 76 of file Bhabha_fortran_sem_doxy.f.

2.2.1.55 logical function geometric_check (double precision *a*)

Definition at line 19120 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.56 subroutine geometric_mean (double precision *a,* double precision *mean*)

Definition at line 19162 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.57 subroutine geometric_pdf (integer *x*, double precision *a*, double precision, value *pdf*)

Definition at line 19201 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.58 subroutine geometric_sample (double precision *a*, integer *seed*, integer *x*)

Definition at line 19269 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.59 subroutine geometric_variance (double precision *a*, double precision *variance*)

Definition at line 19311 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.60 subroutine gompertz_cdf (double precision *x,* double precision *a,* double precision *b,* double precision, value *cdf*)

Definition at line 19345 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.61 subroutine gompertz_cdf_inv (double precision, value *cdf,* double precision *a,* double precision *b,* double precision *x*)

Definition at line 19394 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.62 logical function gompertz_check (double precision *a,* double precision *b*)

Definition at line 19452 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.63 subroutine gompertz_pdf (double precision *x,* double precision *a,* double precision *b,* double precision, value *pdf*)

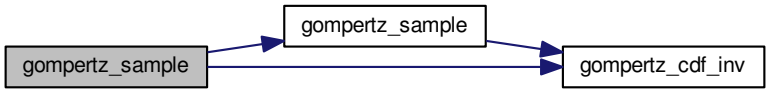
Definition at line 19510 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.64 subroutine gompertz_sample (double precision *a,* double precision *b,* integer *seed,* double precision *x*)

Definition at line 19574 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:



2.2.1.65 subroutine gumbel_cdf (double precision *x,* double precision, value *cdf*)

Definition at line 19617 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.66 subroutine gumbel_cdf_inv (double precision, value *cdf,* double precision *x*)

Definition at line 19650 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.67 subroutine gumbel_mean (double precision *mean*)

Definition at line 19691 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.68 subroutine gumbel_pdf (double precision *x,* double precision, value *pdf*)

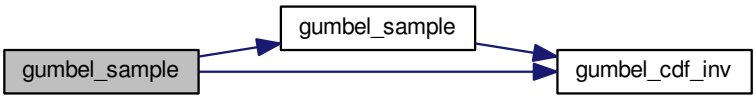
Definition at line 19722 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.69 subroutine gumbel_sample (integer *seed,* double precision *x*)

Definition at line 19767 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:



2.2.1.70 subroutine gumbel_variance (double precision *variance*)

Definition at line 19805 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.71 subroutine half_normal_cdf (double precision *x,* double precision *a,* double precision *b,* double precision, value *cdf*)

Definition at line 19837 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.72 subroutine half_normal_cdf_inv (double precision, value *cdf,* double precision *a,* double precision *b,* double precision *x*)

Definition at line 19881 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.73 logical function half_normal_check (double precision *a,* double precision *b*)

Definition at line 19930 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.74 subroutine half_normal_mean (double precision *a,* double precision *b,* double precision *mean*)

Definition at line 19973 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.75 subroutine half_normal_pdf (double precision *x,* double precision *a,* double precision *b,* double precision, value *pdf*)

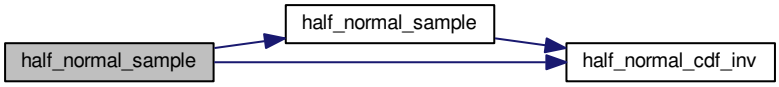
Definition at line 20010 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.76 subroutine half_normal_sample (double precision *a,* double precision *b,* integer *seed,* double precision *x*)

Definition at line 20073 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:



2.2.1.77 subroutine half_normal_variance (double precision *a,* double precision *b,* double precision *variance*)

Definition at line 20116 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.78 subroutine hypergeometric_cdf (integer *x*, integer *n*, integer *m*, integer *l*, double precision, value *cdf*)

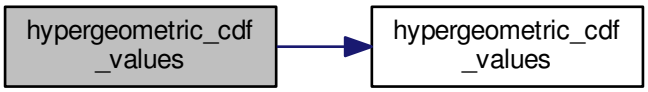
Definition at line 20153 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.79 subroutine hypergeometric_cdf_values (integer, value *n_data*, *sam*, *suc*, *pop*)

Definition at line 20215 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:



2.2.1.80 logical function log_series_check (double precision *a*)

Definition at line 23694 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.81 subroutine log_series_mean (double precision *a,* double precision *mean*)

Definition at line 23736 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.82 subroutine log_series_pdf (integer *x,* double precision *a,* double precision, parameter, value *pdf*)

Definition at line 23770 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.83 subroutine log_series_sample (double precision *a,* integer *seed,* integer *x*)

Definition at line 23816 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.84 subroutine log_series_variance (double precision *a,* double precision *variance*)

Definition at line 23867 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.85 subroutine log_uniform_cdf (double precision *x,* double precision *a,* double precision *b,* double precision, value *cdf*)

Definition at line 23905 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.86 subroutine log_uniform_cdf_inv (double precision, value *cdf,* double precision *a,* double precision *b,* double precision *x*)

Definition at line 23949 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.87 logical function log_uniform_check (double precision *a,* double precision *b*)

Definition at line 23995 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.88 subroutine log_uniform_mean (double precision *a,* double precision *b,* double precision *mean*)

Definition at line 24046 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.89 subroutine log_uniform_pdf (double precision *x,* double precision *a,* double precision *b,* double precision, value *pdf*)

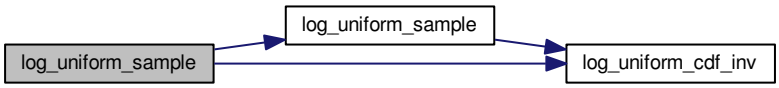
Definition at line 24081 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.90 subroutine log_uniform_sample (double precision *a,* double precision *b,* integer *seed,* double precision *x*)

Definition at line 24129 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:



2.2.1.91 subroutine lorentz_cdf (double precision *x,* double precision, value *cdf*)

Definition at line 24172 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.92 subroutine lorentz_cdf_inv (double precision, value *cdf,* double precision *x*)

Definition at line 24207 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.93 subroutine lorentz_mean (double precision *mean*)

Definition at line 24250 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.94 subroutine lorentz_pdf (*x*, *pdf*)

Definition at line 24280 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.95 logical function maxwell_check (double precision *a*)

Definition at line 24580 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.96 subroutine maxwell_mean (double precision *a,* double precision *mean*)

Definition at line 24622 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.97 subroutine maxwell_pdf (double precision *x,* double precision *a,* double precision, parameter, value *pdf*)

Definition at line 24658 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.98 subroutine maxwell_sample (double precision *a,* integer *seed,* double precision *x*)

Definition at line 24716 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.99 subroutine maxwell_variance (double precision *a,* double precision *variance*)

Definition at line 24758 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.100 logical function multicoef_check (integer *nfactor,* integer, dimension(nfactor) *factor*)

Definition at line 24794 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.101 logical function multinomial_check (integer *a,* integer *b,* double precision, dimension(b) *c*)

Definition at line 25017 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.102 subroutine multinomial_coef1 (integer *nfactor,* integer, dimension(nfactor) *factor,* integer *ncomb*)

Definition at line 24856 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.103 subroutine multinomial_coef2 (integer *nfactor,* integer, dimension(nfactor) *factor,* integer *ncomb*)

Definition at line 24938 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.104 subroutine multinomial_covariance (integer *a,* integer *b,* double precision, dimension(b) *c,* double precision, dimension(b,b) *covariance*)

Definition at line 25094 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.105 subroutine multinomial_mean (integer *a,* integer *b,* double precision, dimension(b) *c,* double precision, dimension(b) *mean*)

Definition at line 25150 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.106 subroutine multinomial_pdf (*x,* *a,* *b,* *c,* *pdf*)

Definition at line 25198 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.107 subroutine multinomial_variance (integer *a,* integer *b,* double precision, dimension(b) *c,* double precision, dimension(b) *variance*)

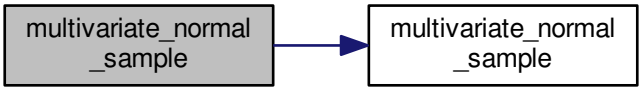
Definition at line 25360 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.108 subroutine multivariate_normal_sample (integer *n,* double precision, dimension(n) *mean,* double precision, dimension(n,n) *covar_factor,* *see*)

Definition at line 25408 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:



2.2.1.109 subroutine nakagami_cdf (double precision *x,* double precision *a,* double precision *b,* double precision *c,* double precision, value *cdf*)

Definition at line 25489 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.110 logical function nakagami_check (double precision *a,* double precision *b,* double precision *c*)

Definition at line 25545 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.111 subroutine nakagami_mean (double precision *a,* double precision *b,* double precision *c,* double precision *mean*)

Definition at line 25598 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.112 subroutine nakagami_pdf (double precision *x,* double precision *a,* double precision *b,* double precision *c,* double precision, value *pdf*)

Definition at line 25637 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.113 subroutine nakagami_variance (double precision *a,* double precision *b,* double precision *c,* double precision *variance*)

Definition at line 25690 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.114 subroutine negative_binomial_cdf (integer *x,* integer *a,* double precision *b,* double precision, value *cdf*)

Definition at line 25733 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.115 subroutine negative_binomial_cdf_inv (double precision, value *cdf,* integer *a,* double precision *b,* integer *x*)

Definition at line 25791 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.116 subroutine negative_binomial_cdf_values (integer, value *n_data,* value *f, s, p, cdf*)

Definition at line 25867 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.117 subroutine poisson_cdf_inv (double precision, value *cdf,* double precision *a,* integer *x*)

Definition at line 29966 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.118 logical function poisson_check (double precision *a*)

Definition at line 30047 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.119 subroutine poisson_kernel (double precision *r,* integer *n,* double precision, dimension(n) *c,* double precision, dimension(n) *x,* double precision, dimension(n) *y,* double precision *p*)

Definition at line 30123 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.120 subroutine poisson_mean (double precision *a,* double precision *mean*)

Definition at line 30089 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.121 subroutine poisson_pdf (integer *x,* double precision, parameter *a,* double precision, parameter, value *pdf*)

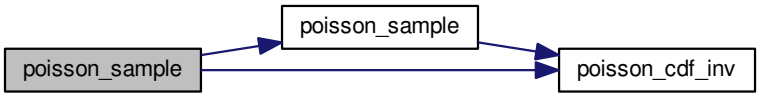
Definition at line 30189 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.122 subroutine poisson_sample (double precision *a,* integer *seed,* integer *x*)

Definition at line 30247 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:



2.2.1.123 subroutine poisson_variance (double precision *a,* double precision *variance*)

Definition at line 30289 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.124 subroutine power_cdf (double precision *x,* double precision *a,* double precision *b,* double precision, value *cdf*)

Definition at line 30323 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.125 subroutine power_cdf_inv (double precision, value *cdf,* double precision *a,* double precision *b,* double precision *x*)

Definition at line 30367 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.126 logical function power_check (double precision *a,* double precision *b*)

Definition at line 30419 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.127 subroutine power_mean (double precision *a,* double precision *b,* double precision *mean*)

Definition at line 30470 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.128 subroutine power_pdf (double precision *x,* double precision *a,* double precision *b,* double precision, value *pdf*)

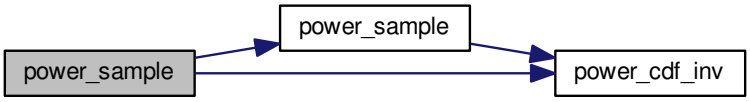
Definition at line 30505 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.129 subroutine power_sample (double precision *a,* double precision *b,* integer *seed,* double precision *x*)

Definition at line 30558 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:



2.2.1.130 subroutine power_variance (double precision *a,* double precision *b,* double precision *variance*)

Definition at line 30601 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.131 subroutine probchi2 (double precision *x,* double precision *ndf*)

Definition at line 196 of file Bhabha_fortran_sem_doxy.f.

2.2.1.132 subroutine psi_values (integer, value *n_data,* double precision *x,* double precision *fx*)

Definition at line 30636 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.133 subroutine quasigeometric_cdf (integer *x,* double precision *a,* double precision *b,* double precision, value *cdf*)

Definition at line 30753 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.134 subroutine quasigeometric_cdf_inv (double precision, value *cdf,* double precision *a,* double precision *b,* integer, value *x*)

Definition at line 30802 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.135 logical function quasigeometric_check (double precision *a,* double precision *b*)

Definition at line 30858 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.136 subroutine quasigeometric_mean (double precision *a,* double precision *b,* double precision *mean*)

Definition at line 30912 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.137 subroutine quasigeometric_pdf (integer *x,* double precision *a,* double precision *b,* double precision, value *pdf*)

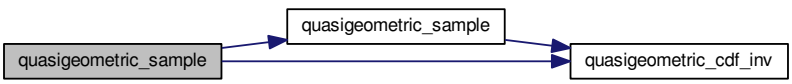
Definition at line 30950 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.138 subroutine quasigeometric_sample (double precision *a,* double precision *b,* integer *seed,* integer *x*)

Definition at line 31030 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:



2.2.1.139 subroutine quasigeometric_variance (double precision *a,* double precision *b,* double precision *variance*)

Definition at line 31076 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.140 function r4_uniform_01 (*seed*)

Definition at line 31168 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.141 real function r4_uniform_ab (real *a,* real *b,* integer *seed*)

Definition at line 31115 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.142 function r8_epsilon ( )

Definition at line 31361 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.143 function r8_uniform_01 (*seed*)

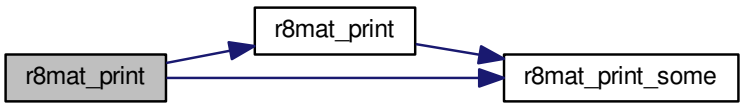
Definition at line 31838 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.144 subroutine r8mat_print (integer *m,* integer *n,* double precision, dimension(m,n) *a,* character * (*) *title*)

Definition at line 31940 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:



2.2.1.145 subroutine r8mat_print_some (*m,* integer, value *n,* double precision, dimension(n) *a, ilo, jlo, ihi, jhi*)

Definition at line 31980 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.146 subroutine r8row_max (integer *m,* integer *n,* double precision, dimension(m,n) *a,* double precision, dimension(m) *amax*)

Definition at line 32144 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.147 subroutine r8row_mean (integer *m,* integer *n,* double precision, dimension(m,n) *a,* double precision, dimension(m) *mean*)

Definition at line 32209 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.148 subroutine r8row_min (integer *m,* integer *n,* double precision, dimension(m,n) *a,* double precision, dimension(m) *amin*)

Definition at line 32270 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.149 subroutine r8row_variance (integer *m,* integer *n,* double precision, dimension(m,n) *a,* double precision, dimension(m) *variance*)

Definition at line 32335 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.150 subroutine r8vec_circular_variance (integer *n,* *x,* *circular_variance*)

Definition at line 32401 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.151 function r8vec_dot_product (integer *n*, *v1*, *v2*)

Definition at line 32517 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.152 subroutine r8vec_mean (integer *n*, double precision, dimension(n) *x*, double precision *mean*)

Definition at line 32614 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.153 subroutine r8vec_min (integer *n*, *a*, *amin*)

Definition at line 32657 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.154 subroutine r8vec_uniform_01 (integer *n,* integer *seed,* double precision, dimension(n) *r*)

Definition at line 32886 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.155 subroutine r8vec_uniform_ab (integer *n,* double precision *a,* double precision *b,* integer *seed,* double precision, dimension(n) *r*)

Definition at line 32800 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.156 subroutine r8vec_unit_sum (integer *n,* double precision, dimension(n) *a*)

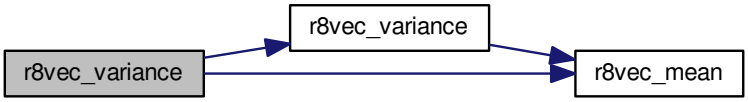
Definition at line 32968 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.157 subroutine r8vec_variance (integer *n*, double precision, dimension(n) *x*, double precision *variance*)

Definition at line 33020 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:



2.2.1.158 subroutine rayleigh_cdf (double precision *x*, double precision *a*, double precision, value *cdf*)

Definition at line 33070 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.159 subroutine rayleigh_cdf_inv (double precision, value *cdf*, double precision *a*, double precision *x*)

Definition at line 33112 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.160 subroutine rayleigh_cdf_values (integer, value *n_data,* double precision *sigma,* double precision *x,* double precision *fx*)

Definition at line 33157 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.161 logical function rayleigh_check (double precision *a*)

Definition at line 33278 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.162 subroutine rayleigh_mean (double precision *a,* double precision *mean*)

Definition at line 33320 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.163 subroutine rayleigh_pdf (double precision *x,* double precision *a,* double precision, parameter, value *pdf*)

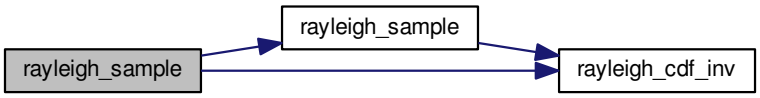
Definition at line 33356 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.164 subroutine rayleigh_sample (double precision *a,* integer *seed,* double precision *x*)

Definition at line 33402 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:



2.2.1.165 subroutine rayleigh_variance (double precision *a,* double precision *variance*)

Definition at line 33444 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.166 subroutine reciprocal_cdf (double precision *x,* double precision *a,* double precision *b,* double precision, value *cdf*)

Definition at line 33480 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.167 subroutine reciprocal_cdf_inv (double precision, value *cdf,* double precision *a,* double precision *b,* double precision *x*)

Definition at line 33526 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.168 logical function reciprocal_check (double precision *a,* double precision *b*)

Definition at line 33575 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.169 subroutine reciprocal_mean (double precision *a,* double precision *b,* double precision *mean*)

Definition at line 33626 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.170 subroutine reciprocal_pdf (double precision *x,* double precision *a,* double precision *b,* double precision, value *pdf*)

Definition at line 33661 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.171 subroutine reciprocal_sample (double precision *a,* double precision *b,* integer *seed,* double precision *x*)

Definition at line 33708 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.172 subroutine reciprocal_variance (double precision *a,* double precision *b,* double precision *variance*)

Definition at line 33751 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.173 subroutine ribesl (*x, alpha, nb, ize, b, ncalc*)

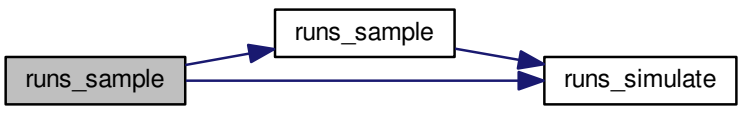
Definition at line 33790 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.174 subroutine runs_sample (integer *m,* integer *n,* integer *seed,* integer *r*)

Definition at line 34610 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:



2.2.1.175 subroutine runs_simulate (integer *m,* integer *n,* integer *seed,* integer, dimension(m+n) *a*)

Definition at line 34652 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.176 subroutine runs_variance (integer *m,* integer *n,* double precision *variance*)

Definition at line 34712 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.177 double precision function sech (double precision *x*)

Definition at line 34747 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.178 subroutine sech_cdf (double precision *x,* double precision *a,* double precision *b,* double precision, value *cdf*)

Definition at line 34788 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.179 subroutine sech_cdf_inv (double precision, value *cdf,* double precision *a,* double precision *b,* double precision *x*)

Definition at line 34831 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.180 logical function sech_check (double precision *a,* double precision *b*)

Definition at line 34885 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.181 subroutine sech_mean (double precision *a,* double precision *b,* double precision *mean*)

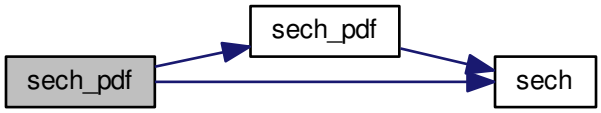
Definition at line 34928 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.182 subroutine sech_pdf (double precision *x,* double precision *a,* double precision *b,* double precision, value *pdf*)

Definition at line 34963 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:



2.2.1.183 subroutine sech_sample (double precision *a,* double precision *b,* integer *seed,* double precision *x*)

Definition at line 35011 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.184 subroutine sech_variance (double precision *a,* double precision *b,* double precision *variance*)

Definition at line 35056 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.185 subroutine semicircular_cdf (double precision *x,* double precision *a,* double precision *b,* double precision, value *cdf*)

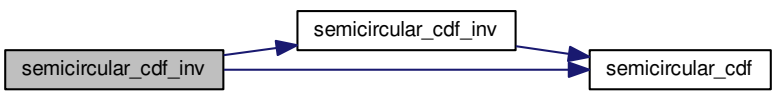
Definition at line 35093 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.186 subroutine semicircular_cdf_inv (double precision, value *cdf,* double precision *a,* double precision *b,* double precision *x*)

Definition at line 35149 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:



2.2.1.187 logical function semicircular_check (double precision *a,* double precision *b*)

Definition at line 35258 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.188 subroutine semicircular_mean (double precision *a,* double precision *b,* double precision *mean*)

Definition at line 35301 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.189 subroutine semicircular_pdf (double precision *x,* double precision *a,* double precision *b,* double precision, value *pdf*)

Definition at line 35336 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.190 subroutine semicircular_sample (double precision *a,* double precision *b,* integer *seed,* double precision *x*)

Definition at line 35396 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.191 subroutine semicircular_variance (double precision *a,* double precision *b,* double precision *variance*)

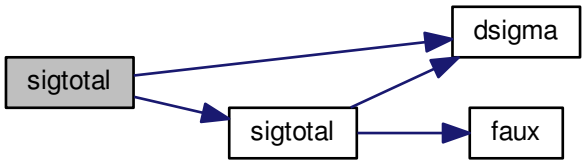
Definition at line 35443 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.192 double precision function sigtotal (double precision *S20*)

Definition at line 87 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:



2.2.1.193 double precision function simpson (double precision *f,* double precision *a,* double precision *b,* integer *n*)

Definition at line 153 of file Bhabha_fortran_sem_doxy.f.

2.2.1.194 double precision function sin_power_int (double precision *a,* double precision *b,* integer *n*)

Definition at line 35478 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.195 double precision function sphere_unit_area_nd (integer *dim_num*)

Definition at line 35560 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.196 integer function stirling2_value (integer *n,* integer *m*)

Definition at line 35636 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.197 subroutine student_cdf (double precision *x,* double precision *a,* double precision *b,* double precision *c,* double precision, value *cdf*)

Definition at line 35766 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.198 subroutine student_cdf_values (integer, value *n_data,* double precision *c,* double precision *x,* double precision *fx*)

Definition at line 35827 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.199 logical function student_check (double precision *a,* double precision *b,* double precision *c*)

Definition at line 35963 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.200 subroutine student_mean (double precision *a,* double precision *b,* double precision *c,* double precision *mean*)

Definition at line 36020 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.201 subroutine student_noncentral_cdf (double precision *x,* integer *idf,* double precision *d,* double precision, value *cdf*)

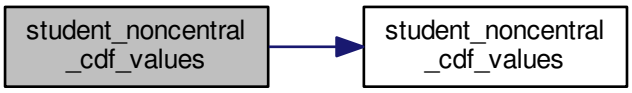
Definition at line 36249 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.202 subroutine student_noncentral_cdf_values (integer, value *n_data,* integer *df,* double precision *lambda*)

Definition at line 36399 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:



2.2.1.203 subroutine student_pdf (double precision *x*, double precision *a*, double precision *b*, double precision *c*, double precision, value *pdf*)

Definition at line 36065 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.204 subroutine student_sample (double precision *a*, double precision *b*, double precision *c*, integer *seed*, double precision *x*)

Definition at line 36125 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.205 subroutine student_variance (double precision *a*, double precision *b*, double precision *c*, double precision *variance*)

Definition at line 36195 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.206 function tfn (*h, a*)

Definition at line 36604 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.207 logical function triangle_check (double precision *a,* double precision *b,* double precision *c*)

Definition at line 36951 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.208 subroutine triangle_mean (double precision *a,* double precision *b,* double precision *c,* double precision *mean*)

Definition at line 37011 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.209 subroutine triangle_pdf (double precision *x*, double precision *a*, double precision *b*, double precision *c*, double precision, value *pdf*)

Definition at line 37047 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.210 subroutine triangle_sample (double precision *a*, double precision *b*, double precision *c*, integer *seed*, double precision *x*)

Definition at line 37118 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.211 subroutine triangle_variance (double precision *a*, double precision *b*, double precision *c*, double precision *variance*)

Definition at line 37162 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.212 subroutine triangular_cdf (double precision *x,* double precision *a,* double precision *b,* double precision, value *cdf*)

Definition at line 37199 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.213 subroutine triangular_cdf_inv (double precision, value *cdf,* double precision *a,* double precision *b,* double precision *x*)

Definition at line 37246 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.214 logical function triangular_check (double precision *a,* double precision *b*)

Definition at line 37297 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.215 subroutine triangular_mean (double precision *a,* double precision *b,* double precision *mean*)

Definition at line 37340 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.216 subroutine triangular_pdf (double precision *x,* double precision *a,* double precision *b,* double precision, value *pdf*)

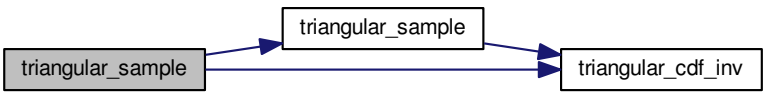
Definition at line 37375 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.217 subroutine triangular_sample (double precision *a,* double precision *b,* integer *seed,* double precision *x*)

Definition at line 37426 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:



2.2.1.218 subroutine triangular_variance (double precision *a,* double precision *b,* double precision *variance*)

Definition at line 37469 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.219 double precision function trigamma (double precision *x*)

Definition at line 37504 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.220 subroutine uniform_01_cdf (double precision *x,* double precision, value *cdf*)

Definition at line 37603 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.221 subroutine uniform_01_cdf_inv (double precision, value *cdf,* double precision *x*)

Definition at line 37642 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.222 subroutine uniform_01_mean (double precision *mean*)

Definition at line 37683 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.223 subroutine uniform_01_order_sample (integer *n,* integer *seed,* double precision, dimension(n) *x*)

Definition at line 37713 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.224 subroutine uniform_01_pdf (double precision *x*, double precision, value *pdf*)

Definition at line 37779 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.225 double precision function uniform_01_sample (integer *seed*)

Definition at line 37822 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.226 logical function uniform_check (double precision *a*, double precision *b*)

Definition at line 38042 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.227 subroutine uniform_discrete_cdf (integer *x,* integer *a,* integer *b,* double precision, value *cdf*)

Definition at line 38247 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.228 subroutine uniform_discrete_cdf_inv (double precision, value *cdf,* integer *a,* integer *b,* integer *x*)

Definition at line 38291 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.229 logical function uniform_discrete_check (integer *a,* integer *b*)

Definition at line 38348 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.230 subroutine uniform_discrete_mean (integer *a,* integer *b,* double precision *mean*)

Definition at line 38392 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.231 subroutine uniform_discrete_pdf (integer *x,* integer *a,* integer *b,* double precision, value *pdf*)

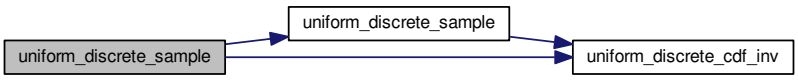
Definition at line 38427 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.232 subroutine uniform_discrete_sample (integer *a,* integer *b,* integer *seed,* integer *x*)

Definition at line 38479 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:



2.2.1.233 subroutine uniform_discrete_variance (integer *a,* integer *b,* double precision *variance*)

Definition at line 38522 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.234 subroutine uniform_mean (double precision *a,* double precision *b,* double precision *mean*)

Definition at line 38085 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.235 subroutine uniform_nsphere_sample (integer *n,* integer *seed,* double precision, dimension(n) *x*)

Definition at line 38557 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.236 subroutine uniform_pdf (double precision *x,* double precision *a,* double precision *b,* double precision, value *pdf*)

Definition at line 38120 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.237 subroutine uniform_sample (double precision *a,* double precision *b,* integer *seed,* double precision *x*)

Definition at line 38169 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.238 subroutine uniform_variance (double precision *a,* double precision *b,* double precision *variance*)

Definition at line 38212 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.239 subroutine von_mises_cdf (double precision *x,* double precision *a,* double precision *b,* double precision, value *cdf*)

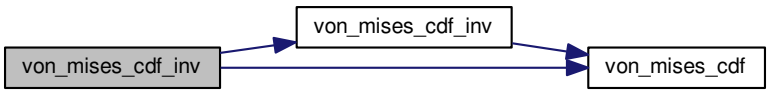
Definition at line 38616 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.240 subroutine von_mises_cdf_inv (double precision, value *cdf,* double precision *a,* double precision *b,* double precision *x*)

Definition at line 38781 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:



2.2.1.241 subroutine von_mises_cdf_values (integer, value *n_data,* double precision *a,* double precision *b,* double precision *x,* double precision *fx*)

Definition at line 38901 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.242 logical function von_mises_check (double precision *a,* double precision *b*)

Definition at line 39086 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.243 subroutine von_mises_circular_variance (double precision *a,* double precision *b,* double precision *circular_variance*)

Definition at line 39147 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.244 subroutine von_mises_mean (double precision *a,* double precision *b,* double precision *mean*)

Definition at line 39193 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.245 subroutine von_mises_pdf (double precision *x,* double precision *a,* double precision *b,* double precision, parameter, value *pdf*)

Definition at line 39236 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.246 subroutine von_mises_sample (double precision *a,* double precision *b,* integer *seed,* double precision *x*)

Definition at line 39328 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.247 subroutine weibull_cdf (double precision *x,* double precision *a,* double precision *b,* double precision *c,* double precision, value *cdf*)

Definition at line 39421 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.248 subroutine weibull_cdf_inv (double precision, value *cdf,* double precision *a,* double precision *b,* double precision *c,* double precision *x*)

Definition at line 39468 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.249 subroutine weibull_cdf_values (integer, value *n_data,* double precision *alpha,* double precision *beta,* double precision *x,* double precision *fx*)

Definition at line 39516 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.250 logical function weibull_check (double precision *a,* double precision *b,* double precision *c*)

Definition at line 39666 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.251 subroutine weibull_discrete_cdf (integer *x,* double precision *a,* double precision *b,* double precision, value *cdf*)

Definition at line 39908 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.252 subroutine weibull_discrete_cdf_inv (double precision, value *cdf,* double precision *a,* double precision *b,* integer *x*)

Definition at line 39952 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.253 logical function weibull_discrete_check (double precision *a,* double precision *b*)

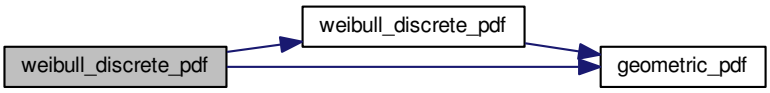
Definition at line 40001 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.254 subroutine weibull_discrete_pdf (integer *x,* double precision *a,* double precision *b,* double precision, value *pdf*)

Definition at line 40054 of file Bhabha_fortran_sem_doxy.f.

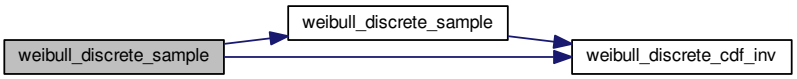
Here is the call graph for this function:



2.2.1.255 subroutine weibull_discrete_sample (double precision *a,* double precision *b,* integer *seed,* integer *x*)

Definition at line 40104 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:



2.2.1.256 subroutine weibull_mean (double precision *a,* double precision *b,* double precision *c,* double precision *mean*)

Definition at line 39719 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.257 subroutine weibull_pdf (double precision *x,* double precision *a,* double precision *b,* double precision *c,* double precision, value *pdf*)

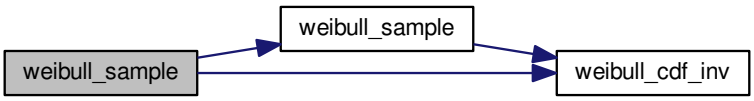
Definition at line 39757 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.258 subroutine weibull_sample (double precision *a,* double precision *b,* double precision *c,* integer *seed,* double precision *x*)

Definition at line 39820 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:



2.2.1.259 subroutine weibull_variance (double precision *a,* double precision *b,* double precision *c,* double precision *variance*)

Definition at line 39865 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.260 double precision function, value zeta (double precision *p*)

Definition at line 40148 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.261 subroutine zipf_cdf (integer *x,* double precision *a,* double precision, value *cdf*)

Definition at line 40266 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.262 logical function zipf_check (double precision *a*)

Definition at line 40338 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.263 subroutine zipf_mean (double precision *a,* double precision *mean*)

Definition at line 40380 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.264 subroutine zipf_pdf (integer *x,* double precision, parameter *a,* double precision, parameter, value *pdf*)

Definition at line 40423 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.265 subroutine zipf_sample (double precision *a,* integer *seed,* integer *x*)

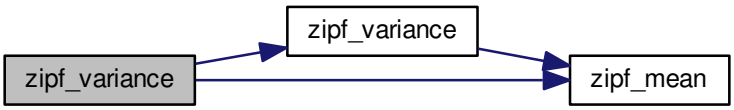
Definition at line 40510 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:

2.2.1.266 subroutine zipf_variance (double precision *a,* double precision *variance*)

Definition at line 40594 of file Bhabha_fortran_sem_doxy.f.

Here is the call graph for this function:



2.3 bhabha_plot.gnu File Reference

2.4 experimental_data.dat File Reference

2.5 sigtotal.gnu File Reference

2.6 sigtotalexp.dat File Reference

2.7 subroutines.f File Reference

Functions/Subroutines

- double precision function simpson (f, a, b, n)
- subroutine probchi2 (x, ndf)
- subroutine angle_cdf (x, n, cdf)
- subroutine angle_mean (n, mean)
- subroutine angle_pdf (x, n, pdf)
- subroutine anglit_cdf (x, cdf)
- subroutine anglit_cdf_inv (cdf, x)
- subroutine anglit_mean (mean)
- subroutine anglit_pdf (x, pdf)
- subroutine anglit_sample (seed, x)
- subroutine anglit_variance (variance)
- subroutine arcsin_cdf (x, a, cdf)
- subroutine arcsin_cdf_inv (cdf, a, x)
- logical function arcsin_check (a)
- subroutine arcsin_mean (a, mean)
- subroutine arcsin_pdf (x, a, pdf)
- subroutine arcsin_sample (a, seed, x)
- subroutine arcsin_variance (a, variance)
- subroutine benford_pdf (x, pdf)

- subroutine birthday_cdf (n, cdf)
- subroutine birthday_cdf_inv (cdf, n)
- subroutine birthday_pdf (n, pdf)
- subroutine bernoulli_cdf (x, a, cdf)
- subroutine bernoulli_cdf_inv (cdf, a, x)
- logical function bernoulli_check (a)
- subroutine bernoulli_mean (a, mean)
- subroutine bernoulli_pdf (x, a, pdf)
- subroutine bernoulli_sample (a, seed, x)
- subroutine bernoulli_variance (a, variance)
- double precision function bessel_i0 (arg)
- subroutine bessel_i0_values (n_data, x, fx)
- double precision function, value beta (a, b)
- subroutine beta_binomial_cdf (x, a, b, c, cdf)
- subroutine beta_binomial_cdf_inv (cdf, a, b, c, x)
- logical function beta_binomial_check (a, b, c)
- subroutine beta_binomial_mean (a, b, c, mean)
- subroutine beta_binomial_pdf (x, a, b, c, pdf)
- subroutine beta_binomial_sample (a, b, c, seed, x)
- subroutine beta_binomial_variance (a, b, c, variance)
- subroutine beta_cdf (x, a, b, cdf)
- subroutine beta_cdf_inv (cdf, p, q, x)
- subroutine beta_cdf_inv_old (cdf, a, b, x)
- subroutine beta_cdf_values (n_data, a, b, x, fx)
- logical function beta_check (a, b)
- double precision function beta_inc (a, b, x)
- subroutine beta_inc_values (n_data, a, b, x, fx)
- subroutine beta_mean (a, b, mean)
- subroutine beta_pdf (x, a, b, pdf)
- subroutine beta_sample (a, b, seed, x)
- subroutine beta_variance (a, b, variance)
- subroutine binomial_cdf (x, a, b, cdf)
- subroutine binomial_cdf_values (n_data, a, b, x, fx)
- logical function geometric_check (a)
- subroutine geometric_mean (a, mean)
- subroutine geometric_pdf (x, a, pdf)
- subroutine geometric_sample (a, seed, x)
- subroutine geometric_variance (a, variance)
- subroutine gompertz_cdf (x, a, b, cdf)
- subroutine gompertz_cdf_inv (cdf, a, b, x)
- logical function gompertz_check (a, b)
- subroutine gompertz_pdf (x, a, b, pdf)
- subroutine gompertz_sample (a, b, seed, x)
- subroutine gumbel_cdf (x, cdf)
- subroutine gumbel_cdf_inv (cdf, x)
- subroutine gumbel_mean (mean)
- subroutine gumbel_pdf (x, pdf)
- subroutine gumbel_sample (seed, x)
- subroutine gumbel_variance (variance)
- subroutine half_normal_cdf (x, a, b, cdf)
- subroutine half_normal_cdf_inv (cdf, a, b, x)
- logical function half_normal_check (a, b)
- subroutine half_normal_mean (a, b, mean)
- subroutine half_normal_pdf (x, a, b, pdf)
- subroutine half_normal_sample (a, b, seed, x)

- subroutine half_normal_variance (a, b, variance)
- subroutine hypergeometric_cdf (x, n, m, l, cdf)
- subroutine hypergeometric_cdf_values (n_data, sam, suc, pop,
- logical function log_series_check (a)
- subroutine log_series_mean (a, mean)
- subroutine log_series_pdf (x, a, pdf)
- subroutine log_series_sample (a, seed, x)
- subroutine log_series_variance (a, variance)
- subroutine log_uniform_cdf (x, a, b, cdf)
- subroutine log_uniform_cdf_inv (cdf, a, b, x)
- logical function log_uniform_check (a, b)
- subroutine log_uniform_mean (a, b, mean)
- subroutine log_uniform_pdf (x, a, b, pdf)
- subroutine log_uniform_sample (a, b, seed, x)
- subroutine lorentz_cdf (x, cdf)
- subroutine lorentz_cdf_inv (cdf, x)
- subroutine lorentz_mean (mean)
- subroutine lorentz_pdf (x, pdf)
- logical function maxwell_check (a)
- subroutine maxwell_mean (a, mean)
- subroutine maxwell_pdf (x, a, pdf)
- subroutine maxwell_sample (a, seed, x)
- subroutine maxwell_variance (a, variance)
- logical function multicoef_check (nfactor, factor)
- subroutine multinomial_coef1 (nfactor, factor, ncomb)
- subroutine multinomial_coef2 (nfactor, factor, ncomb)
- logical function multinomial_check (a, b, c)
- subroutine multinomial_covariance (a, b, c, covariance)
- subroutine multinomial_mean (a, b, c, mean)
- subroutine multinomial_pdf (x, a, b, c, pdf)
- subroutine multinomial_variance (a, b, c, variance)
- subroutine multivariate_normal_sample (n, mean, covar_factor, see
- subroutine nakagami_cdf (x, a, b, c, cdf)
- logical function nakagami_check (a, b, c)
- subroutine nakagami_mean (a, b, c, mean)
- subroutine nakagami_pdf (x, a, b, c, pdf)
- subroutine nakagami_variance (a, b, c, variance)
- subroutine negative_binomial_cdf (x, a, b, cdf)
- subroutine negative_binomial_cdf_inv (cdf, a, b, x)
- subroutine negative_binomial_cdf_values (n_data, f, s, p, cdf)
- subroutine poisson_cdf_inv (cdf, a, x)
- logical function poisson_check (a)
- subroutine poisson_mean (a, mean)
- subroutine poisson_kernel (r, n, c, x, y, p)
- subroutine poisson_pdf (x, a, pdf)
- subroutine poisson_sample (a, seed, x)
- subroutine poisson_variance (a, variance)
- subroutine power_cdf (x, a, b, cdf)
- subroutine power_cdf_inv (cdf, a, b, x)
- logical function power_check (a, b)
- subroutine power_mean (a, b, mean)
- subroutine power_pdf (x, a, b, pdf)
- subroutine power_sample (a, b, seed, x)
- subroutine power_variance (a, b, variance)
- subroutine psi_values (n_data, x, fx)

- subroutine quasigeometric_cdf (x, a, b, cdf)
- subroutine quasigeometric_cdf_inv (cdf, a, b, x)
- logical function quasigeometric_check (a, b)
- subroutine quasigeometric_mean (a, b, mean)
- subroutine quasigeometric_pdf (x, a, b, pdf)
- subroutine quasigeometric_sample (a, b, seed, x)
- subroutine quasigeometric_variance (a, b, variance)
- real function r4_uniform_ab (a, b, seed)
- function r4_uniform_01 (seed)
- function r8_epsilon ()
- function r8_uniform_01 (seed)
- subroutine r8mat_print (m, n, a, title)
- subroutine r8mat_print_some (m, n, a, ilo, jlo, ihi, jhi,
- subroutine r8row_max (m, n, a, amax)
- subroutine r8row_mean (m, n, a, mean)
- subroutine r8row_min (m, n, a, amin)
- subroutine r8row_variance (m, n, a, variance)
- subroutine r8vec_circular_variance (n, x, circular_variance)
- function r8vec_dot_product (n, v1, v2)
- subroutine r8vec_mean (n, x, mean)
- subroutine r8vec_min (n, a, amin)
- subroutine r8vec_uniform_ab (n, a, b, seed, r)
- subroutine r8vec_uniform_01 (n, seed, r)
- subroutine r8vec_unit_sum (n, a)
- subroutine r8vec_variance (n, x, variance)
- subroutine rayleigh_cdf (x, a, cdf)
- subroutine rayleigh_cdf_inv (cdf, a, x)
- subroutine rayleigh_cdf_values (n_data, sigma, x, fx)
- logical function rayleigh_check (a)
- subroutine rayleigh_mean (a, mean)
- subroutine rayleigh_pdf (x, a, pdf)
- subroutine rayleigh_sample (a, seed, x)
- subroutine rayleigh_variance (a, variance)
- subroutine reciprocal_cdf (x, a, b, cdf)
- subroutine reciprocal_cdf_inv (cdf, a, b, x)
- logical function reciprocal_check (a, b)
- subroutine reciprocal_mean (a, b, mean)
- subroutine reciprocal_pdf (x, a, b, pdf)
- subroutine reciprocal_sample (a, b, seed, x)
- subroutine reciprocal_variance (a, b, variance)
- subroutine ribesl (x, alpha, nb, ize, b, ncalc)
- subroutine runs_sample (m, n, seed, r)
- subroutine runs_simulate (m, n, seed, a)
- subroutine runs_variance (m, n, variance)
- double precision function sech (x)
- subroutine sech_cdf (x, a, b, cdf)
- subroutine sech_cdf_inv (cdf, a, b, x)
- logical function sech_check (a, b)
- subroutine sech_mean (a, b, mean)
- subroutine sech_pdf (x, a, b, pdf)
- subroutine sech_sample (a, b, seed, x)
- subroutine sech_variance (a, b, variance)
- subroutine semicircular_cdf (x, a, b, cdf)
- subroutine semicircular_cdf_inv (cdf, a, b, x)
- logical function semicircular_check (a, b)

- subroutine semicircular_mean (a, b, mean)
- subroutine semicircular_pdf (x, a, b, pdf)
- subroutine semicircular_sample (a, b, seed, x)
- subroutine semicircular_variance (a, b, variance)
- double precision function sin_power_int (a, b, n)
- double precision function sphere_unit_area_nd (dim_num)
- integer function stirling2_value (n, m)
- subroutine student_cdf (x, a, b, c, cdf)
- subroutine student_cdf_values (n_data, c, x, fx)
- logical function student_check (a, b, c)
- subroutine student_mean (a, b, c, mean)
- subroutine student_pdf (x, a, b, c, pdf)
- subroutine student_sample (a, b, c, seed, x)
- subroutine student_variance (a, b, c, variance)
- subroutine student_noncentral_cdf (x, idf, d, cdf)
- subroutine student_noncentral_cdf_values (n_data, df, lambda,
- function tfn (h, a)
- logical function triangle_check (a, b, c)
- subroutine triangle_mean (a, b, c, mean)
- subroutine triangle_pdf (x, a, b, c, pdf)
- subroutine triangle_sample (a, b, c, seed, x)
- subroutine triangle_variance (a, b, c, variance)
- subroutine triangular_cdf (x, a, b, cdf)
- subroutine triangular_cdf_inv (cdf, a, b, x)
- logical function triangular_check (a, b)
- subroutine triangular_mean (a, b, mean)
- subroutine triangular_pdf (x, a, b, pdf)
- subroutine triangular_sample (a, b, seed, x)
- subroutine triangular_variance (a, b, variance)
- double precision function trigamma (x)
- subroutine uniform_01_cdf (x, cdf)
- subroutine uniform_01_cdf_inv (cdf, x)
- subroutine uniform_01_mean (mean)
- subroutine uniform_01_order_sample (n, seed, x)
- subroutine uniform_01_pdf (x, pdf)
- double precision function uniform_01_sample (seed)
- logical function uniform_check (a, b)
- subroutine uniform_mean (a, b, mean)
- subroutine uniform_pdf (x, a, b, pdf)
- subroutine uniform_sample (a, b, seed, x)
- subroutine uniform_variance (a, b, variance)
- subroutine uniform_discrete_cdf (x, a, b, cdf)
- subroutine uniform_discrete_cdf_inv (cdf, a, b, x)
- logical function uniform_discrete_check (a, b)
- subroutine uniform_discrete_mean (a, b, mean)
- subroutine uniform_discrete_pdf (x, a, b, pdf)
- subroutine uniform_discrete_sample (a, b, seed, x)
- subroutine uniform_discrete_variance (a, b, variance)
- subroutine uniform_nsphere_sample (n, seed, x)
- subroutine von_mises_cdf (x, a, b, cdf)
- subroutine von_mises_cdf_inv (cdf, a, b, x)
- subroutine von_mises_cdf_values (n_data, a, b, x, fx)
- logical function von_mises_check (a, b)
- subroutine von_mises_circular_variance (a, b, circular_variance)
- subroutine von_mises_mean (a, b, mean)

- subroutine von_mises_pdf (x, a, b, pdf)
- subroutine von_mises_sample (a, b, seed, x)
- subroutine weibull_cdf (x, a, b, c, cdf)
- subroutine weibull_cdf_inv (cdf, a, b, c, x)
- subroutine weibull_cdf_values (n_data, alpha, beta, x, fx)
- logical function weibull_check (a, b, c)
- subroutine weibull_mean (a, b, c, mean)
- subroutine weibull_pdf (x, a, b, c, pdf)
- subroutine weibull_sample (a, b, c, seed, x)
- subroutine weibull_variance (a, b, c, variance)
- subroutine weibull_discrete_cdf (x, a, b, cdf)
- subroutine weibull_discrete_cdf_inv (cdf, a, b, x)
- logical function weibull_discrete_check (a, b)
- subroutine weibull_discrete_pdf (x, a, b, pdf)
- subroutine weibull_discrete_sample (a, b, seed, x)
- double precision function, value zeta (p)
- subroutine zipf_cdf (x, a, cdf)
- logical function zipf_check (a)
- subroutine zipf_mean (a, mean)
- subroutine zipf_pdf (x, a, pdf)
- subroutine zipf_sample (a, seed, x)
- subroutine zipf_variance (a, variance)

2.7.1 Function/Subroutine Documentation

2.7.1.1 subroutine angle_cdf (double precision *x,* integer *n,* double precision, value *cdf*)

Definition at line 59 of file subroutines.f.

Here is the caller graph for this function:

2.7.1.2 subroutine angle_mean (integer *n,* double precision *mean*)

Definition at line 130 of file subroutines.f.

Here is the caller graph for this function:

2.7.1.3 subroutine angle_pdf (double precision *x*, integer *n*, double precision, value *pdf*)

Definition at line 166 of file subroutines.f.

Here is the caller graph for this function:

2.7.1.4 subroutine anglit_cdf (double precision *x*, double precision, value *cdf*)

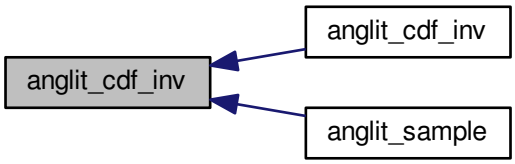
Definition at line 245 of file subroutines.f.

Here is the caller graph for this function:

2.7.1.5 subroutine anglit_cdf_inv (double precision, value *cdf*, double precision *x*)

Definition at line 286 of file subroutines.f.

Here is the caller graph for this function:



2.7.1.6 subroutine anglit_mean (double precision *mean*)

Definition at line 329 of file subroutines.f.

Here is the caller graph for this function:

2.7.1.7 subroutine anglit_pdf (double precision *x*, double precision, value *pdf*)

Definition at line 359 of file subroutines.f.

Here is the caller graph for this function:

2.7.1.8 subroutine anglit_sample (integer *seed*, double precision *x*)

Definition at line 402 of file subroutines.f.

Here is the call graph for this function:

Here is the caller graph for this function:

2.7.1.9 subroutine anglit_variance (double precision *variance*)

Definition at line 440 of file subroutines.f.

Here is the caller graph for this function:

2.7.1.10 subroutine arcsin_cdf (double precision *x,* double precision *a,* double precision, parameter, value *cdf*)

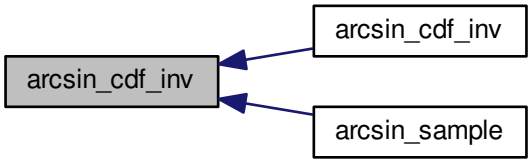
Definition at line 481 of file subroutines.f.

Here is the caller graph for this function:

2.7.1.11 subroutine arcsin_cdf_inv (double precision, parameter, value *cdf,* double precision *a,* double precision *x*)

Definition at line 526 of file subroutines.f.

Here is the caller graph for this function:



2.7.1.12 logical function arcsin_check (double precision *a*)

Definition at line 573 of file subroutines.f.

Here is the caller graph for this function:

2.7.1.13 subroutine arcsin_mean (double precision *a,* double precision *mean*)

Definition at line 615 of file subroutines.f.

Here is the caller graph for this function:

2.7.1.14 subroutine arcsin_pdf (double precision *x,* double precision *a,* double precision, value *pdf*)

Definition at line 649 of file subroutines.f.

Here is the caller graph for this function:

2.7.1.15 subroutine arcsin_sample (double precision *a,* integer *seed,* double precision *x*)

Definition at line 733 of file subroutines.f.

Here is the call graph for this function:

Here is the caller graph for this function:

2.7.1.16 subroutine arcsin_variance (double precision *a,* double precision *variance*)

Definition at line 775 of file subroutines.f.

Here is the caller graph for this function:

2.7.1.17 subroutine benford_pdf (double precision *x*, *pdf*)

Definition at line 809 of file subroutines.f.

Here is the caller graph for this function:

2.7.1.18 subroutine bernoulli_cdf (integer *x*, double precision *a*, double precision, value *cdf*)

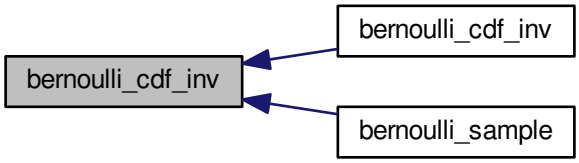
Definition at line 1238 of file subroutines.f.

Here is the caller graph for this function:

2.7.1.19 subroutine bernoulli_cdf_inv (double precision, value *cdf,* double precision *a,* integer *x*)

Definition at line 1282 of file subroutines.f.

Here is the caller graph for this function:



2.7.1.20 logical function bernoulli_check (double precision *a*)

Definition at line 1331 of file subroutines.f.

Here is the caller graph for this function:

2.7.1.21 subroutine bernoulli_mean (double precision *a,* double precision *mean*)

Definition at line 1373 of file subroutines.f.

Here is the caller graph for this function:

2.7.1.22 subroutine bernoulli_pdf (integer *x*, double precision *a*, double precision, value *pdf*)

Definition at line 1407 of file subroutines.f.

Here is the caller graph for this function:

2.7.1.23 subroutine bernoulli_sample (double precision *a*, integer *seed*, integer *x*)

Definition at line 1463 of file subroutines.f.

Here is the call graph for this function:

Here is the caller graph for this function:

2.7.1.24 subroutine bernoulli_variance (double precision *a*, double precision *variance*)

Definition at line 1505 of file subroutines.f.

Here is the caller graph for this function:

2.7.1.25 double precision function bessel_i0 (double precision *arg*)

Definition at line 1539 of file subroutines.f.

Here is the caller graph for this function:

2.7.1.26 subroutine bessel_i0_values (integer, value *n_data,* double precision *x,* double precision *fx*)

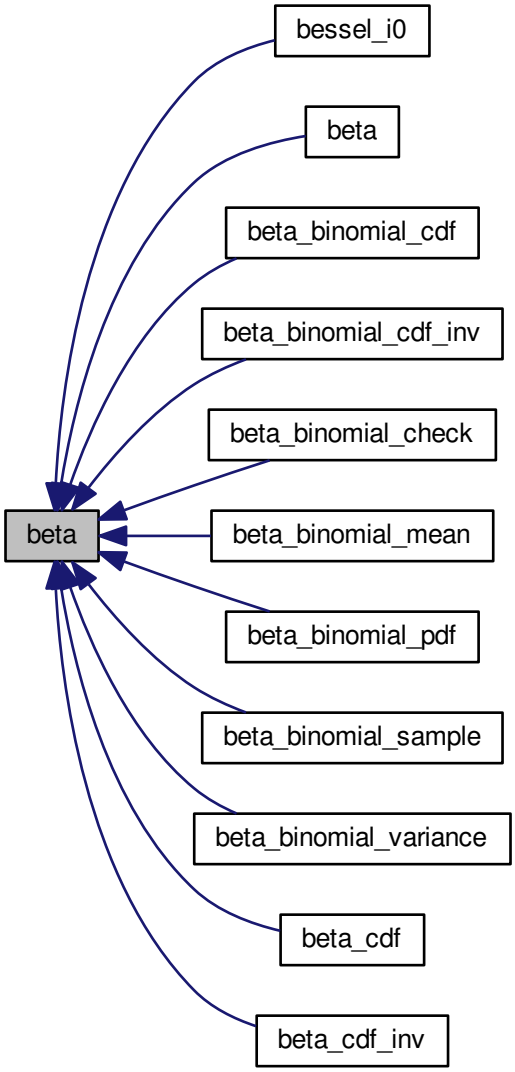
Definition at line 1724 of file subroutines.f.

Here is the caller graph for this function:

2.7.1.27 double precision function, value beta (double precision *a,* double precision *b*)

Definition at line 2169 of file subroutines.f.

Here is the caller graph for this function:



2.7.1.28 subroutine beta_binomial_cdf (integer *x,* double precision *a,* double precision *b,* integer *c,* double precision, value *cdf*)

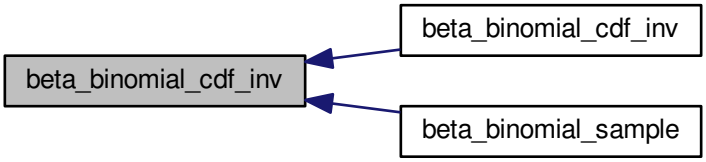
Definition at line 2221 of file subroutines.f.

Here is the caller graph for this function:

2.7.1.29 subroutine beta_binomial_cdf_inv (double precision, value *cdf,* double precision *a,* double precision *b,* integer *c,* integer *x*)

Definition at line 2290 of file subroutines.f.

Here is the caller graph for this function:



2.7.1.30 logical function beta_binomial_check (double precision *a,* double precision *b,* integer *c*)

Definition at line 2367 of file subroutines.f.

Here is the caller graph for this function:

2.7.1.31 subroutine beta_binomial_mean (double precision *a,* double precision *b,* integer *c,* double precision *mean*)

Definition at line 2431 of file subroutines.f.

Here is the caller graph for this function:

2.7.1.32 subroutine beta_binomial_pdf (integer *x,* double precision *a,* double precision *b,* integer *c,* double precision, parameter, value *pdf*)

Definition at line 2471 of file subroutines.f.

Here is the call graph for this function:

Here is the caller graph for this function:

2.7.1.33 subroutine beta_binomial_sample (double precision *a,* double precision *b,* integer *c,* integer *seed,* integer *x*)

Definition at line 2572 of file subroutines.f.

Here is the call graph for this function:

Here is the caller graph for this function:

2.7.1.34 subroutine beta_binomial_variance (double precision *a,* double precision *b,* integer *c,* double precision *variance*)

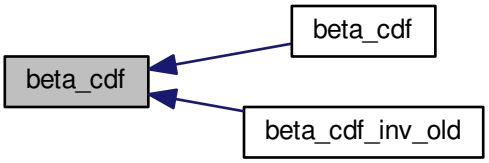
Definition at line 2620 of file subroutines.f.

Here is the caller graph for this function:

2.7.1.35 subroutine beta_cdf (double precision *x,* double precision *a,* double precision *b,* double precision, value *cdf*)

Definition at line 2662 of file subroutines.f.

Here is the caller graph for this function:



2.7.1.36 subroutine beta_cdf_inv (double precision, value *cdf,* double precision *p,* double precision *q,* double precision *x*)

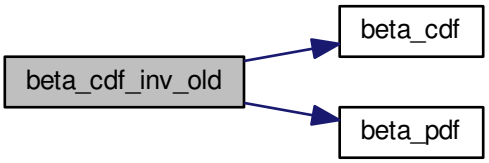
Definition at line 2708 of file subroutines.f.

Here is the caller graph for this function:

2.7.1.37 subroutine beta_cdf_inv_old (double precision, value *cdf,* double precision *a,* double precision *b,* double precision *x*)

Definition at line 2973 of file subroutines.f.

Here is the call graph for this function:

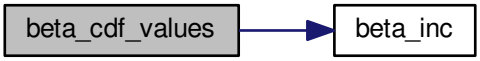


Here is the caller graph for this function:

2.7.1.38 subroutine beta_cdf_values (integer, value *n_data,* double precision *a,* double precision *b,* double precision *x,* double precision *fx*)

Definition at line 3134 of file subroutines.f.

Here is the call graph for this function:



Here is the caller graph for this function:

2.7.1.39 logical function beta_check (double precision *a,* double precision *b*)

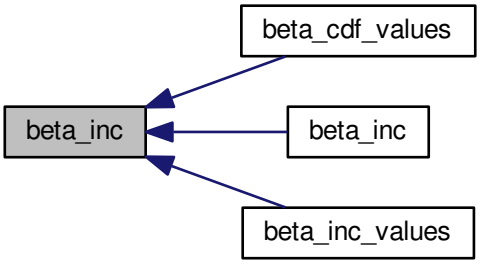
Definition at line 3436 of file subroutines.f.

Here is the caller graph for this function:

2.7.1.40 double precision function beta_inc (double precision *a,* double precision *b,* double precision *x*)

Definition at line 3488 of file subroutines.f.

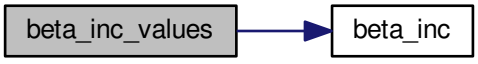
Here is the caller graph for this function:



2.7.1.41 subroutine beta_inc_values (integer, value *n_data,* double precision *a,* double precision *b,* double precision *x,* double precision *fx*)

Definition at line 3669 of file subroutines.f.

Here is the call graph for this function:



Here is the caller graph for this function:

2.7.1.42 subroutine beta_mean (double precision *a,* double precision *b,* double precision *mean*)

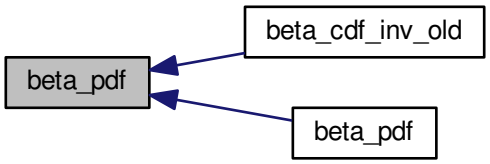
Definition at line 3971 of file subroutines.f.

Here is the caller graph for this function:

2.7.1.43 subroutine beta_pdf (double precision *x,* double precision *a,* double precision *b,* double precision, value *pdf*)

Definition at line 4007 of file subroutines.f.

Here is the caller graph for this function:



2.7.1.44 subroutine beta_sample (double precision *a,* double precision *b,* integer *seed,* double precision *x*)

Definition at line 4064 of file subroutines.f.

Here is the caller graph for this function:

2.7.1.45 subroutine beta_variance (double precision *a,* double precision *b,* double precision *variance*)

Definition at line 4144 of file subroutines.f.

Here is the caller graph for this function:

2.7.1.46 subroutine binomial_cdf (integer *x,* integer *a,* double precision *b,* double precision, value *cdf*)

Definition at line 4180 of file subroutines.f.

Here is the caller graph for this function:

2.7.1.47 subroutine binomial_cdf_values (integer, value *n_data,* *a,* *b,* integer *x,* *fx*)

Definition at line 4263 of file subroutines.f.

Here is the caller graph for this function:

2.7.1.48 subroutine birthday_cdf (integer *n*, double precision *cdf*)

Definition at line 1069 of file subroutines.f.

Here is the caller graph for this function:

2.7.1.49 subroutine birthday_cdf_inv (double precision *cdf*, integer *n*)

Definition at line 1125 of file subroutines.f.

Here is the caller graph for this function:

2.7.1.50 subroutine birthday_pdf (integer *n*, double precision *pdf*)

Definition at line 1182 of file subroutines.f.

Here is the caller graph for this function:

2.7.1.51 logical function geometric_check (double precision *a*)

Definition at line 18969 of file subroutines.f.

Here is the caller graph for this function:

2.7.1.52 subroutine geometric_mean (double precision *a,* double precision *mean*)

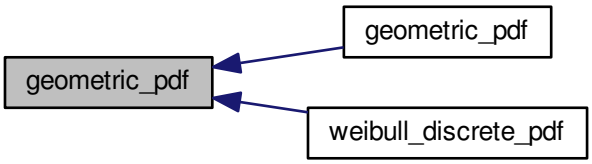
Definition at line 19011 of file subroutines.f.

Here is the caller graph for this function:

2.7.1.53 subroutine geometric_pdf (integer *x,* double precision *a,* double precision, value *pdf*)

Definition at line 19050 of file subroutines.f.

Here is the caller graph for this function:



2.7.1.54 subroutine geometric_sample (double precision *a,* integer *seed,* integer *x*)

Definition at line 19118 of file subroutines.f.

Here is the caller graph for this function:

2.7.1.55 subroutine geometric_variance (double precision *a,* double precision *variance*)

Definition at line 19160 of file subroutines.f.

Here is the caller graph for this function:

2.7.1.56 subroutine gompertz_cdf (double precision *x,* double precision *a,* double precision *b,* double precision, value *cdf*)

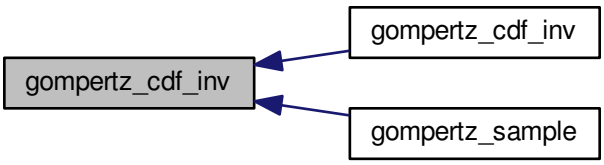
Definition at line 19194 of file subroutines.f.

Here is the caller graph for this function:

2.7.1.57 subroutine gompertz_cdf_inv (double precision, value *cdf,* double precision *a,* double precision *b,* double precision *x*)

Definition at line 19243 of file subroutines.f.

Here is the caller graph for this function:



2.7.1.58 logical function gompertz_check (double precision *a,* double precision *b*)

Definition at line 19301 of file subroutines.f.

Here is the caller graph for this function:

2.7.1.59 subroutine gompertz_pdf (double precision *x,* double precision *a,* double precision *b,* double precision, value *pdf*)

Definition at line 19359 of file subroutines.f.

Here is the caller graph for this function:

2.7.1.60 subroutine gompertz_sample (double precision *a*, double precision *b*, integer *seed*, double precision *x*)

Definition at line 19423 of file subroutines.f.

Here is the call graph for this function:

Here is the caller graph for this function:

2.7.1.61 subroutine gumbel_cdf (double precision *x*, double precision, value *cdf*)

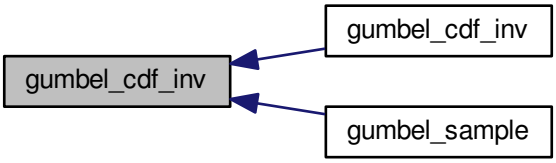
Definition at line 19466 of file subroutines.f.

Here is the caller graph for this function:

2.7.1.62 subroutine gumbel_cdf_inv (double precision, value *cdf*, double precision *x*)

Definition at line 19499 of file subroutines.f.

Here is the caller graph for this function:



2.7.1.63 subroutine gumbel_mean (double precision *mean*)

Definition at line 19540 of file subroutines.f.

Here is the caller graph for this function:

2.7.1.64 subroutine gumbel_pdf (double precision *x*, double precision, value *pdf*)

Definition at line 19571 of file subroutines.f.

Here is the caller graph for this function:

2.7.1.65 subroutine gumbel_sample (integer *seed,* double precision *x*)

Definition at line 19616 of file subroutines.f.

Here is the call graph for this function:

Here is the caller graph for this function:

2.7.1.66 subroutine gumbel_variance (double precision *variance*)

Definition at line 19654 of file subroutines.f.

Here is the caller graph for this function:

2.7.1.67 subroutine half_normal_cdf (double precision *x,* double precision *a,* double precision *b,* double precision, value *cdf*)

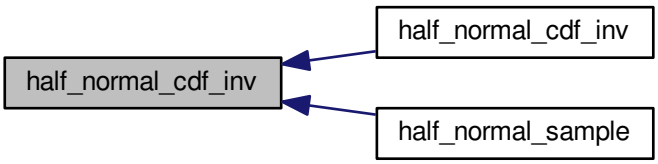
Definition at line 19686 of file subroutines.f.

Here is the caller graph for this function:

2.7.1.68 subroutine half_normal_cdf_inv (double precision, value *cdf,* double precision *a,* double precision *b,* double precision *x*)

Definition at line 19730 of file subroutines.f.

Here is the caller graph for this function:



2.7.1.69 logical function half_normal_check (double precision *a,* double precision *b*)

Definition at line 19779 of file subroutines.f.

Here is the caller graph for this function:

2.7.1.70 subroutine half_normal_mean (double precision *a,* double precision *b,* double precision *mean*)

Definition at line 19822 of file subroutines.f.

Here is the caller graph for this function:

2.7.1.71 subroutine half_normal_pdf (double precision *x,* double precision *a,* double precision *b,* double precision, value *pdf*)

Definition at line 19859 of file subroutines.f.

Here is the caller graph for this function:

2.7.1.72 subroutine half_normal_sample (double precision *a,* double precision *b,* integer *seed,* double precision *x*)

Definition at line 19922 of file subroutines.f.

Here is the call graph for this function:

Here is the caller graph for this function:

2.7.1.73 subroutine half_normal_variance (double precision *a,* double precision *b,* double precision *variance*)

Definition at line 19965 of file subroutines.f.

Here is the caller graph for this function:

2.7.1.74 subroutine hypergeometric_cdf (integer *x,* integer *n,* integer *m,* integer *l,* double precision, value *cdf*)

Definition at line 20002 of file subroutines.f.

Here is the caller graph for this function:

2.7.1.75 subroutine hypergeometric_cdf_values (integer, value *n_data, sam, suc, pop*)

Definition at line 20064 of file subroutines.f.

Here is the caller graph for this function:

2.7.1.76 logical function log_series_check (double precision *a*)

Definition at line 23543 of file subroutines.f.

Here is the caller graph for this function:

2.7.1.77 subroutine log_series_mean (double precision *a,* double precision *mean*)

Definition at line 23585 of file subroutines.f.

Here is the caller graph for this function:

2.7.1.78 subroutine log_series_pdf (integer *x*, double precision *a*, double precision, parameter, value *pdf*)

Definition at line 23619 of file subroutines.f.

Here is the caller graph for this function:

2.7.1.79 subroutine log_series_sample (double precision *a*, integer *seed*, integer *x*)

Definition at line 23665 of file subroutines.f.

Here is the caller graph for this function:

2.7.1.80 subroutine log_series_variance (double precision *a*, double precision *variance*)

Definition at line 23716 of file subroutines.f.

Here is the caller graph for this function:

2.7.1.81 subroutine log_uniform_cdf (double precision *x,* double precision *a,* double precision *b,* double precision, value *cdf*)

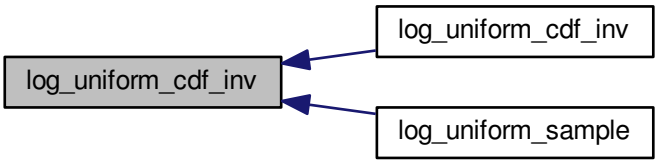
Definition at line 23754 of file subroutines.f.

Here is the caller graph for this function:

2.7.1.82 subroutine log_uniform_cdf_inv (double precision, value *cdf,* double precision *a,* double precision *b,* double precision *x*)

Definition at line 23798 of file subroutines.f.

Here is the caller graph for this function:



2.7.1.83 logical function log_uniform_check (double precision *a,* double precision *b*)

Definition at line 23844 of file subroutines.f.

Here is the caller graph for this function:

2.7.1.84 subroutine log_uniform_mean (double precision *a,* double precision *b,* double precision *mean*)

Definition at line 23895 of file subroutines.f.

Here is the caller graph for this function:

2.7.1.85 subroutine log_uniform_pdf (double precision *x,* double precision *a,* double precision *b,* double precision, value *pdf*)

Definition at line 23930 of file subroutines.f.

Here is the caller graph for this function:

2.7.1.86 subroutine log_uniform_sample (double precision *a,* double precision *b,* integer *seed,* double precision *x*)

Definition at line 23978 of file subroutines.f.

Here is the call graph for this function:

Here is the caller graph for this function:

2.7.1.87 subroutine lorentz_cdf (double precision *x*, double precision, value *cdf*)

Definition at line 24021 of file subroutines.f.

Here is the caller graph for this function:

2.7.1.88 subroutine lorentz_cdf_inv (double precision, value *cdf*, double precision *x*)

Definition at line 24056 of file subroutines.f.

Here is the caller graph for this function:

2.7.1.89 subroutine lorentz_mean (double precision *mean*)

Definition at line 24099 of file subroutines.f.

Here is the caller graph for this function:

2.7.1.90 subroutine lorentz_pdf (*x*, *pdf*)

Definition at line 24129 of file subroutines.f.

Here is the caller graph for this function:

2.7.1.91 logical function maxwell_check (double precision *a*)

Definition at line 24429 of file subroutines.f.

Here is the caller graph for this function:

2.7.1.92 subroutine maxwell_mean (double precision *a,* double precision *mean*)

Definition at line 24471 of file subroutines.f.

Here is the caller graph for this function:

2.7.1.93 subroutine maxwell_pdf (double precision *x,* double precision *a,* double precision, parameter, value *pdf*)

Definition at line 24507 of file subroutines.f.

Here is the caller graph for this function:

2.7.1.94 subroutine maxwell_sample (double precision *a,* integer *seed,* double precision *x*)

Definition at line 24565 of file subroutines.f.

Here is the caller graph for this function:

2.7.1.95 subroutine maxwell_variance (double precision *a,* double precision *variance*)

Definition at line 24607 of file subroutines.f.

Here is the caller graph for this function:

2.7.1.96 logical function multicoef_check (integer *nfactor,* integer, dimension(nfactor) *factor*)

Definition at line 24643 of file subroutines.f.

Here is the caller graph for this function:

2.7.1.97 logical function multinomial_check (integer *a,* integer *b,* double precision, dimension(b) *c*)

Definition at line 24866 of file subroutines.f.

Here is the caller graph for this function:

2.7.1.98 subroutine multinomial_coef1 (integer *nfactor,* integer, dimension(nfactor) *factor,* integer *ncomb*)

Definition at line 24705 of file subroutines.f.

Here is the caller graph for this function:

2.7.1.99 subroutine multinomial_coef2 (integer *nfactor,* integer, dimension(nfactor) *factor,* integer *ncomb*)

Definition at line 24787 of file subroutines.f.

Here is the caller graph for this function:

2.7.1.100 subroutine multinomial_covariance (integer *a,* integer *b,* double precision, dimension(b) *c,* double precision, dimension(b,b) *covariance*)

Definition at line 24943 of file subroutines.f.

Here is the caller graph for this function:

2.7.1.101 subroutine multinomial_mean (integer *a,* integer *b,* double precision, dimension(b) *c,* double precision, dimension(b) *mean*)

Definition at line 24999 of file subroutines.f.

Here is the caller graph for this function:

2.7.1.102 subroutine multinomial_pdf (*x, a, b, c, pdf*)

Definition at line 25047 of file subroutines.f.

Here is the caller graph for this function:

2.7.1.103 subroutine multinomial_variance (integer *a,* integer *b,* double precision, dimension(b) *c,* double precision, dimension(b) *variance*)

Definition at line 25209 of file subroutines.f.

Here is the caller graph for this function:

2.7.1.104 subroutine multivariate_normal_sample (integer *n,* double precision, dimension(n) *mean,* double precision, dimension(n,n) *covar_factor,* *see*)

Definition at line 25257 of file subroutines.f.

Here is the caller graph for this function:

2.7.1.105 subroutine nakagami_cdf (double precision *x,* double precision *a,* double precision *b,* double precision *c,* double precision, value *cdf*)

Definition at line 25338 of file subroutines.f.

Here is the caller graph for this function:

2.7.1.106 logical function nakagami_check (double precision *a,* double precision *b,* double precision *c*)

Definition at line 25394 of file subroutines.f.

Here is the caller graph for this function:

2.7.1.107 subroutine nakagami_mean (double precision *a,* double precision *b,* double precision *c,* double precision *mean*)

Definition at line 25447 of file subroutines.f.

Here is the caller graph for this function:

2.7.1.108 subroutine nakagami_pdf (double precision *x,* double precision *a,* double precision *b,* double precision *c,* double precision, value *pdf*)

Definition at line 25486 of file subroutines.f.

Here is the caller graph for this function:

2.7.1.109 subroutine nakagami_variance (double precision *a,* double precision *b,* double precision *c,* double precision *variance*)

Definition at line 25539 of file subroutines.f.

Here is the caller graph for this function:

2.7.1.110 subroutine negative_binomial_cdf (integer *x*, integer *a*, double precision *b*, double precision, value *cdf*)

Definition at line 25582 of file subroutines.f.

Here is the caller graph for this function:

2.7.1.111 subroutine negative_binomial_cdf_inv (double precision, value *cdf*, integer *a*, double precision *b*, integer *x*)

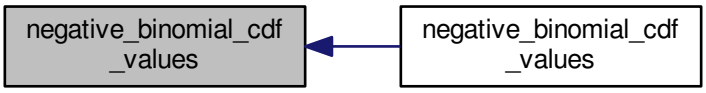
Definition at line 25640 of file subroutines.f.

Here is the caller graph for this function:

2.7.1.112 subroutine negative_binomial_cdf_values (integer, value *n_data*, value *f*, *s*, *p*, *cdf*)

Definition at line 25716 of file subroutines.f.

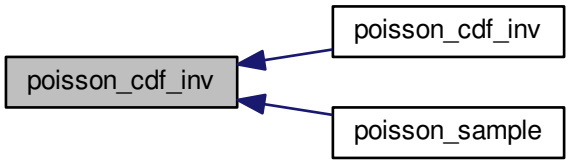
Here is the caller graph for this function:



2.7.1.113 subroutine poisson_cdf_inv (double precision, value *cdf,* double precision *a,* integer *x*)

Definition at line 29815 of file subroutines.f.

Here is the caller graph for this function:



2.7.1.114 logical function poisson_check (double precision *a*)

Definition at line 29896 of file subroutines.f.

Here is the caller graph for this function:

2.7.1.115 subroutine poisson_kernel (double precision *r,* integer *n,* double precision, dimension(n) *c,* double precision, dimension(n) *x,* double precision, dimension(n) *y,* double precision *p*)

Definition at line 29972 of file subroutines.f.

Here is the caller graph for this function:

2.7.1.116 subroutine poisson_mean (double precision *a,* double precision *mean*)

Definition at line 29938 of file subroutines.f.

Here is the caller graph for this function:

2.7.1.117 subroutine poisson_pdf (integer *x,* double precision, parameter *a,* double precision, parameter, value *pdf*)

Definition at line 30038 of file subroutines.f.

Here is the caller graph for this function:

2.7.1.118 subroutine poisson_sample (double precision *a,* integer *seed,* integer *x*)

Definition at line 30096 of file subroutines.f.

Here is the call graph for this function:

Here is the caller graph for this function:

2.7.1.119 subroutine poisson_variance (double precision *a,* double precision *variance*)

Definition at line 30138 of file subroutines.f.

Here is the caller graph for this function:

2.7.1.120 subroutine power_cdf (double precision *x,* double precision *a,* double precision *b,* double precision, value *cdf*)

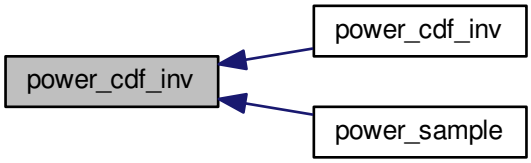
Definition at line 30172 of file subroutines.f.

Here is the caller graph for this function:

2.7.1.121 subroutine power_cdf_inv (double precision, value *cdf,* double precision *a,* double precision *b,* double precision *x*)

Definition at line 30216 of file subroutines.f.

Here is the caller graph for this function:



2.7.1.122 logical function power_check (double precision *a,* double precision *b*)

Definition at line 30268 of file subroutines.f.

Here is the caller graph for this function:

2.7.1.123 subroutine power_mean (double precision *a,* double precision *b,* double precision *mean*)

Definition at line 30319 of file subroutines.f.

Here is the caller graph for this function:

2.7.1.124 subroutine power_pdf (double precision *x,* double precision *a,* double precision *b,* double precision, value *pdf*)

Definition at line 30354 of file subroutines.f.

Here is the caller graph for this function:

2.7.1.125 subroutine power_sample (double precision *a,* double precision *b,* integer *seed,* double precision *x*)

Definition at line 30407 of file subroutines.f.

Here is the call graph for this function:

Here is the caller graph for this function:

2.7.1.126 subroutine power_variance (double precision *a,* double precision *b,* double precision *variance*)

Definition at line 30450 of file subroutines.f.

Here is the caller graph for this function:

2.7.1.127 subroutine probchi2 (double precision *x*, double precision *ndf*)

Definition at line 45 of file subroutines.f.

Here is the caller graph for this function:

2.7.1.128 subroutine psi_values (integer, value *n_data*, double precision *x*, double precision *fx*)

Definition at line 30485 of file subroutines.f.

Here is the caller graph for this function:

2.7.1.129 subroutine quasigeometric_cdf (integer *x,* double precision *a,* double precision *b,* double precision, value *cdf*)

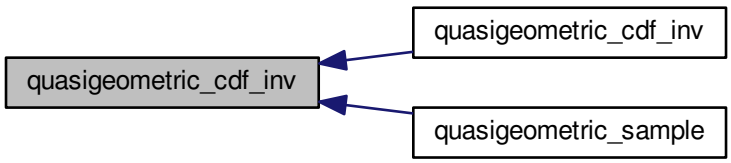
Definition at line 30602 of file subroutines.f.

Here is the caller graph for this function:

2.7.1.130 subroutine quasigeometric_cdf_inv (double precision, value *cdf,* double precision *a,* double precision *b,* integer, value *x*)

Definition at line 30651 of file subroutines.f.

Here is the caller graph for this function:



2.7.1.131 logical function quasigeometric_check (double precision *a,* double precision *b*)

Definition at line 30707 of file subroutines.f.

Here is the caller graph for this function:

2.7.1.132 subroutine quasigeometric_mean (double precision *a,* double precision *b,* double precision *mean*)

Definition at line 30761 of file subroutines.f.

Here is the caller graph for this function:

2.7.1.133 subroutine quasigeometric_pdf (integer *x,* double precision *a,* double precision *b,* double precision, value *pdf*)

Definition at line 30799 of file subroutines.f.

Here is the caller graph for this function:

2.7.1.134 subroutine quasigeometric_sample (double precision *a,* double precision *b,* integer *seed,* integer *x*)

Definition at line 30879 of file subroutines.f.

Here is the call graph for this function:

Here is the caller graph for this function:

2.7.1.135 subroutine quasigeometric_variance (double precision *a,* double precision *b,* double precision *variance*)

Definition at line 30925 of file subroutines.f.

Here is the caller graph for this function:

2.7.1.136 function r4_uniform_01 (*seed*)

Definition at line 31017 of file subroutines.f.

Here is the caller graph for this function:

2.7.1.137 real function r4_uniform_ab (real *a,* real *b,* integer *seed*)

Definition at line 30964 of file subroutines.f.

Here is the caller graph for this function:

2.7.1.138 function r8_epsilon ( )

Definition at line 31210 of file subroutines.f.

Here is the caller graph for this function:

2.7.1.139 function r8_uniform_01 (*seed*)

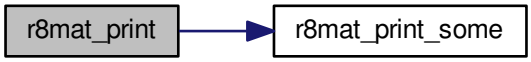
Definition at line 31687 of file subroutines.f.

Here is the caller graph for this function:

2.7.1.140 subroutine r8mat_print (integer *m,* integer *n,* double precision, dimension(m,n) *a,* character * (*) *title*)

Definition at line 31789 of file subroutines.f.

Here is the call graph for this function:

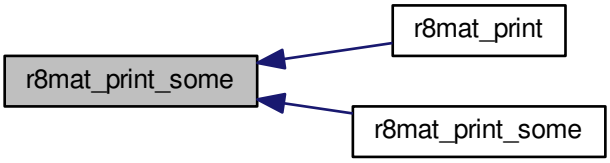


Here is the caller graph for this function:

2.7.1.141 subroutine r8mat_print_some (*m,* integer, value *n,* double precision, dimension(n) *a, ilo, jlo, ihi, jhi*)

Definition at line 31829 of file subroutines.f.

Here is the caller graph for this function:



2.7.1.142 subroutine r8row_max (integer *m,* integer *n,* double precision, dimension(m,n) *a,* double precision, dimension(m) *amax*)

Definition at line 31993 of file subroutines.f.

Here is the caller graph for this function:

2.7.1.143 subroutine r8row_mean (integer *m,* integer *n,* double precision, dimension(m,n) *a,* double precision, dimension(m) *mean*)

Definition at line 32058 of file subroutines.f.

Here is the caller graph for this function:

2.7.1.144 subroutine r8row_min (integer *m,* integer *n,* double precision, dimension(m,n) *a,* double precision, dimension(m) *amin*)

Definition at line 32119 of file subroutines.f.

Here is the caller graph for this function:

2.7.1.145 subroutine r8row_variance (integer *m,* integer *n,* double precision, dimension(m,n) *a,* double precision, dimension(m) *variance*)

Definition at line 32184 of file subroutines.f.

Here is the caller graph for this function:

2.7.1.146 subroutine r8vec_circular_variance (integer *n,* *x,* *circular_variance*)

Definition at line 32250 of file subroutines.f.

Here is the caller graph for this function:

2.7.1.147 function r8vec_dot_product (integer *n,* *v1,* *v2*)

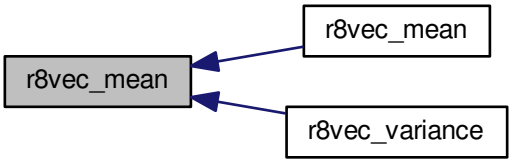
Definition at line 32366 of file subroutines.f.

Here is the caller graph for this function:

2.7.1.148 subroutine r8vec_mean (integer *n*, double precision, dimension(n) *x*, double precision *mean*)

Definition at line 32463 of file subroutines.f.

Here is the caller graph for this function:



2.7.1.149 subroutine r8vec_min (integer *n*, *a*, *amin*)

Definition at line 32506 of file subroutines.f.

Here is the caller graph for this function:

2.7.1.150 subroutine r8vec_uniform_01 (integer *n*, integer *seed*, double precision, dimension(n) *r*)

Definition at line 32735 of file subroutines.f.

Here is the caller graph for this function:

2.7.1.151 subroutine r8vec_uniform_ab (integer *n,* double precision *a,* double precision *b,* integer *seed,* double precision, dimension(n) *r*)

Definition at line 32649 of file subroutines.f.

Here is the caller graph for this function:

2.7.1.152 subroutine r8vec_unit_sum (integer *n,* double precision, dimension(n) *a*)

Definition at line 32817 of file subroutines.f.

Here is the caller graph for this function:

2.7.1.153 subroutine r8vec_variance (integer *n,* double precision, dimension(n) *x,* double precision *variance*)

Definition at line 32869 of file subroutines.f.

Here is the call graph for this function:

Here is the caller graph for this function:

2.7.1.154 subroutine rayleigh_cdf (double precision *x*, double precision *a*, double precision, value *cdf*)

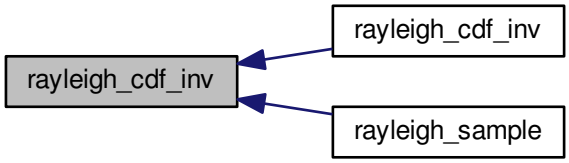
Definition at line 32919 of file subroutines.f.

Here is the caller graph for this function:

2.7.1.155 subroutine rayleigh_cdf_inv (double precision, value *cdf*, double precision *a*, double precision *x*)

Definition at line 32961 of file subroutines.f.

Here is the caller graph for this function:



2.7.1.156 subroutine rayleigh_cdf_values (integer, value *n_data,* double precision *sigma,* double precision *x,* double precision *fx*)

Definition at line 33006 of file subroutines.f.

Here is the caller graph for this function:

2.7.1.157 logical function rayleigh_check (double precision *a*)

Definition at line 33127 of file subroutines.f.

Here is the caller graph for this function:

2.7.1.158 subroutine rayleigh_mean (double precision *a,* double precision *mean*)

Definition at line 33169 of file subroutines.f.

Here is the caller graph for this function:

2.7.1.159 subroutine rayleigh_pdf (double precision *x,* double precision *a,* double precision, parameter, value *pdf*)

Definition at line 33205 of file subroutines.f.

Here is the caller graph for this function:

2.7.1.160 subroutine rayleigh_sample (double precision *a,* integer *seed,* double precision *x*)

Definition at line 33251 of file subroutines.f.

Here is the call graph for this function:

Here is the caller graph for this function:

2.7.1.161 subroutine rayleigh_variance (double precision *a,* double precision *variance*)

Definition at line 33293 of file subroutines.f.

Here is the caller graph for this function:

2.7.1.162 subroutine reciprocal_cdf (double precision *x,* double precision *a,* double precision *b,* double precision, value *cdf*)

Definition at line 33329 of file subroutines.f.

Here is the caller graph for this function:

2.7.1.163 subroutine reciprocal_cdf_inv (double precision, value *cdf,* double precision *a,* double precision *b,* double precision *x*)

Definition at line 33375 of file subroutines.f.

Here is the caller graph for this function:

2.7.1.164 logical function reciprocal_check (double precision *a,* double precision *b*)

Definition at line 33424 of file subroutines.f.

Here is the caller graph for this function:

2.7.1.165 subroutine reciprocal_mean (double precision *a,* double precision *b,* double precision *mean*)

Definition at line 33475 of file subroutines.f.

Here is the caller graph for this function:

2.7.1.166 subroutine reciprocal_pdf (double precision *x,* double precision *a,* double precision *b,* double precision, value *pdf*)

Definition at line 33510 of file subroutines.f.

Here is the caller graph for this function:

2.7.1.167 subroutine reciprocal_sample (double precision *a,* double precision *b,* integer *seed,* double precision *x*)

Definition at line 33557 of file subroutines.f.

Here is the caller graph for this function:

2.7.1.168 subroutine reciprocal_variance (double precision *a,* double precision *b,* double precision *variance*)

Definition at line 33600 of file subroutines.f.

Here is the caller graph for this function:

2.7.1.169 subroutine ribesl (*x, alpha, nb, ize, b, ncalc*)

Definition at line 33639 of file subroutines.f.

Here is the caller graph for this function:

2.7.1.170 subroutine runs_sample (integer *m*, integer *n*, integer *seed*, integer *r*)

Definition at line 34459 of file subroutines.f.

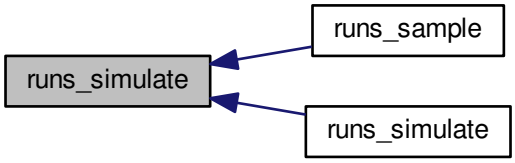
Here is the call graph for this function:

Here is the caller graph for this function:

2.7.1.171 subroutine runs_simulate (integer *m*, integer *n*, integer *seed*, integer, dimension(m+n) *a*)

Definition at line 34501 of file subroutines.f.

Here is the caller graph for this function:



2.7.1.172 subroutine runs_variance (integer *m*, integer *n*, double precision *variance*)

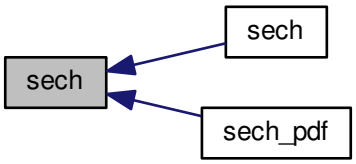
Definition at line 34561 of file subroutines.f.

Here is the caller graph for this function:

2.7.1.173 double precision function sech (double precision *x*)

Definition at line 34596 of file subroutines.f.

Here is the caller graph for this function:



2.7.1.174 subroutine sech_cdf (double precision *x*, double precision *a*, double precision *b*, double precision, value *cdf*)

Definition at line 34637 of file subroutines.f.

Here is the caller graph for this function:

2.7.1.175 subroutine sech_cdf_inv (double precision, value *cdf,* double precision *a,* double precision *b,* double precision *x*)

Definition at line 34680 of file subroutines.f.

Here is the caller graph for this function:

2.7.1.176 logical function sech_check (double precision *a,* double precision *b*)

Definition at line 34734 of file subroutines.f.

Here is the caller graph for this function:

2.7.1.177 subroutine sech_mean (double precision *a,* double precision *b,* double precision *mean*)

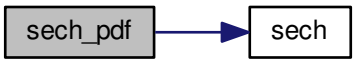
Definition at line 34777 of file subroutines.f.

Here is the caller graph for this function:

2.7.1.178 subroutine sech_pdf (double precision *x*, double precision *a*, double precision *b*, double precision, value *pdf*)

Definition at line 34812 of file subroutines.f.

Here is the call graph for this function:



Here is the caller graph for this function:

2.7.1.179 subroutine sech_sample (double precision *a*, double precision *b*, integer *seed*, double precision *x*)

Definition at line 34860 of file subroutines.f.

Here is the caller graph for this function:

2.7.1.180 subroutine sech_variance (double precision *a*, double precision *b*, double precision *variance*)

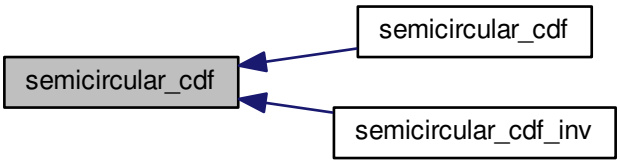
Definition at line 34905 of file subroutines.f.

Here is the caller graph for this function:

2.7.1.181 subroutine semicircular_cdf (double precision *x,* double precision *a,* double precision *b,* double precision, value *cdf*)

Definition at line 34942 of file subroutines.f.

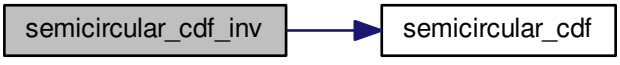
Here is the caller graph for this function:



2.7.1.182 subroutine semicircular_cdf_inv (double precision, value *cdf,* double precision *a,* double precision *b,* double precision *x*)

Definition at line 34998 of file subroutines.f.

Here is the call graph for this function:



Here is the caller graph for this function:

2.7.1.183 logical function semicircular_check (double precision *a,* double precision *b*)

Definition at line 35107 of file subroutines.f.

Here is the caller graph for this function:

2.7.1.184 subroutine semicircular_mean (double precision *a,* double precision *b,* double precision *mean*)

Definition at line 35150 of file subroutines.f.

Here is the caller graph for this function:

2.7.1.185 subroutine semicircular_pdf (double precision *x,* double precision *a,* double precision *b,* double precision, value *pdf*)

Definition at line 35185 of file subroutines.f.

Here is the caller graph for this function:

2.7.1.186 subroutine semicircular_sample (double precision *a,* double precision *b,* integer *seed,* double precision *x*)

Definition at line 35245 of file subroutines.f.

Here is the caller graph for this function:

2.7.1.187 subroutine semicircular_variance (double precision *a,* double precision *b,* double precision *variance*)

Definition at line 35292 of file subroutines.f.

Here is the caller graph for this function:

2.7.1.188 double precision function simpson (double precision *f,* double precision *a,* double precision *b,* integer *n*)

Definition at line 2 of file subroutines.f.

2.7.1.189 double precision function sin_power_int (double precision *a,* double precision *b,* integer *n*)

Definition at line 35327 of file subroutines.f.

Here is the caller graph for this function:

2.7.1.190 double precision function sphere_unit_area_nd (integer *dim_num*)

Definition at line 35409 of file subroutines.f.

Here is the caller graph for this function:

2.7.1.191 integer function stirling2_value (integer *n,* integer *m*)

Definition at line 35485 of file subroutines.f.

Here is the caller graph for this function:

2.7.1.192 subroutine student_cdf (double precision *x,* double precision *a,* double precision *b,* double precision *c,* double precision, value *cdf*)

Definition at line 35615 of file subroutines.f.

Here is the caller graph for this function:

2.7.1.193 subroutine student_cdf_values (integer, value *n_data,* double precision *c,* double precision *x,* double precision *fx*)

Definition at line 35676 of file subroutines.f.

Here is the caller graph for this function:

2.7.1.194 logical function student_check (double precision *a,* double precision *b,* double precision *c*)

Definition at line 35812 of file subroutines.f.

Here is the caller graph for this function:

2.7.1.195 subroutine student_mean (double precision *a,* double precision *b,* double precision *c,* double precision *mean*)

Definition at line 35869 of file subroutines.f.

Here is the caller graph for this function:

2.7.1.196 subroutine student_noncentral_cdf (double precision *x,* integer *idf,* double precision *d,* double precision, value *cdf*)

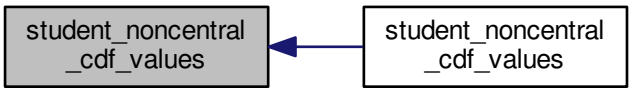
Definition at line 36098 of file subroutines.f.

Here is the caller graph for this function:

2.7.1.197 subroutine student_noncentral_cdf_values (integer, value *n_data,* integer *df,* double precision *lambda*)

Definition at line 36248 of file subroutines.f.

Here is the caller graph for this function:



2.7.1.198 subroutine student_pdf (double precision *x,* double precision *a,* double precision *b,* double precision *c,* double precision, value *pdf*)

Definition at line 35914 of file subroutines.f.

Here is the caller graph for this function:

2.7.1.199 subroutine student_sample (double precision *a,* double precision *b,* double precision *c,* integer *seed,* double precision *x*)

Definition at line 35974 of file subroutines.f.

Here is the caller graph for this function:

2.7.1.200 subroutine student_variance (double precision *a,* double precision *b,* double precision *c,* double precision *variance*)

Definition at line 36044 of file subroutines.f.

Here is the caller graph for this function:

2.7.1.201 function tfn (*h*, *a*)

Definition at line 36453 of file subroutines.f.

Here is the caller graph for this function:

2.7.1.202 logical function triangle_check (double precision *a*, double precision *b*, double precision *c*)

Definition at line 36800 of file subroutines.f.

Here is the caller graph for this function:

2.7.1.203 subroutine triangle_mean (double precision *a*, double precision *b*, double precision *c*, double precision *mean*)

Definition at line 36860 of file subroutines.f.

Here is the caller graph for this function:

2.7.1.204 subroutine triangle_pdf (double precision *x*, double precision *a*, double precision *b*, double precision *c*, double precision, value *pdf*)

Definition at line 36896 of file subroutines.f.

Here is the caller graph for this function:

2.7.1.205 subroutine triangle_sample (double precision *a*, double precision *b*, double precision *c*, integer *seed*, double precision *x*)

Definition at line 36967 of file subroutines.f.

Here is the caller graph for this function:

2.7.1.206 subroutine triangle_variance (double precision *a*, double precision *b*, double precision *c*, double precision *variance*)

Definition at line 37011 of file subroutines.f.

Here is the caller graph for this function:

2.7.1.207 subroutine triangular_cdf (double precision *x,* double precision *a,* double precision *b,* double precision, value *cdf*)

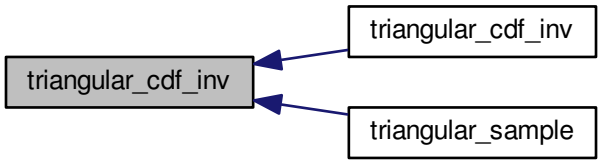
Definition at line 37048 of file subroutines.f.

Here is the caller graph for this function:

2.7.1.208 subroutine triangular_cdf_inv (double precision, value *cdf,* double precision *a,* double precision *b,* double precision *x*)

Definition at line 37095 of file subroutines.f.

Here is the caller graph for this function:



2.7.1.209 logical function triangular_check (double precision *a,* double precision *b*)

Definition at line 37146 of file subroutines.f.

Here is the caller graph for this function:

2.7.1.210 subroutine triangular_mean (double precision *a,* double precision *b,* double precision *mean*)

Definition at line 37189 of file subroutines.f.

Here is the caller graph for this function:

2.7.1.211 subroutine triangular_pdf (double precision *x,* double precision *a,* double precision *b,* double precision, value *pdf*)

Definition at line 37224 of file subroutines.f.

Here is the caller graph for this function:

2.7.1.212 subroutine triangular_sample (double precision *a,* double precision *b,* integer *seed,* double precision *x*)

Definition at line 37275 of file subroutines.f.

Here is the call graph for this function:

Here is the caller graph for this function:

2.7.1.213 subroutine triangular_variance (double precision *a,* double precision *b,* double precision *variance*)

Definition at line 37318 of file subroutines.f.

Here is the caller graph for this function:

2.7.1.214 double precision function trigamma (double precision *x*)

Definition at line 37353 of file subroutines.f.

Here is the caller graph for this function:

2.7.1.215 subroutine uniform_01_cdf (double precision *x,* double precision, value *cdf*)

Definition at line 37452 of file subroutines.f.

Here is the caller graph for this function:

2.7.1.216 subroutine uniform_01_cdf_inv (double precision, value *cdf,* double precision *x*)

Definition at line 37491 of file subroutines.f.

Here is the caller graph for this function:

2.7.1.217 subroutine uniform_01_mean (double precision *mean*)

Definition at line 37532 of file subroutines.f.

Here is the caller graph for this function:

2.7.1.218 subroutine uniform_01_order_sample (integer *n,* integer *seed,* double precision, dimension(n) *x*)

Definition at line 37562 of file subroutines.f.

Here is the caller graph for this function:

2.7.1.219 subroutine uniform_01_pdf (double precision *x,* double precision, value *pdf*)

Definition at line 37628 of file subroutines.f.

Here is the caller graph for this function:

2.7.1.220 double precision function uniform_01_sample (integer *seed*)

Definition at line 37671 of file subroutines.f.

Here is the caller graph for this function:

2.7.1.221 logical function uniform_check (double precision *a,* double precision *b*)

Definition at line 37891 of file subroutines.f.

Here is the caller graph for this function:

2.7.1.222 subroutine uniform_discrete_cdf (integer *x,* integer *a,* integer *b,* double precision, value *cdf*)

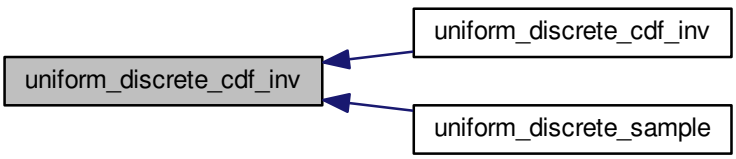
Definition at line 38096 of file subroutines.f.

Here is the caller graph for this function:

2.7.1.223 subroutine uniform_discrete_cdf_inv (double precision, value *cdf,* integer *a,* integer *b,* integer *x*)

Definition at line 38140 of file subroutines.f.

Here is the caller graph for this function:



2.7.1.224 logical function uniform_discrete_check (integer *a,* integer *b*)

Definition at line 38197 of file subroutines.f.

Here is the caller graph for this function:

2.7.1.225 subroutine uniform_discrete_mean (integer *a,* integer *b,* double precision *mean*)

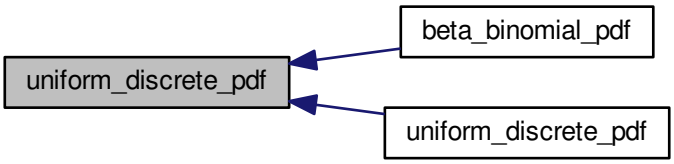
Definition at line 38241 of file subroutines.f.

Here is the caller graph for this function:

2.7.1.226 subroutine uniform_discrete_pdf (integer *x,* integer *a,* integer *b,* double precision, value *pdf*)

Definition at line 38276 of file subroutines.f.

Here is the caller graph for this function:



2.7.1.227 subroutine uniform_discrete_sample (integer *a,* integer *b,* integer *seed,* integer *x*)

Definition at line 38328 of file subroutines.f.

Here is the call graph for this function:

Here is the caller graph for this function:

2.7.1.228 subroutine uniform_discrete_variance (integer *a,* integer *b,* double precision *variance*)

Definition at line 38371 of file subroutines.f.

Here is the caller graph for this function:

2.7.1.229 subroutine uniform_mean (double precision *a,* double precision *b,* double precision *mean*)

Definition at line 37934 of file subroutines.f.

Here is the caller graph for this function:

2.7.1.230 subroutine uniform_nsphere_sample (integer *n,* integer *seed,* double precision, dimension(n) *x*)

Definition at line 38406 of file subroutines.f.

Here is the caller graph for this function:

2.7.1.231 subroutine uniform_pdf (double precision *x,* double precision *a,* double precision *b,* double precision, value *pdf*)

Definition at line 37969 of file subroutines.f.

Here is the caller graph for this function:

2.7.1.232 subroutine uniform_sample (double precision *a,* double precision *b,* integer *seed,* double precision *x*)

Definition at line 38018 of file subroutines.f.

Here is the caller graph for this function:

2.7.1.233 subroutine uniform_variance (double precision *a,* double precision *b,* double precision *variance*)

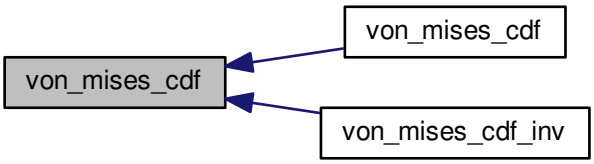
Definition at line 38061 of file subroutines.f.

Here is the caller graph for this function:

2.7.1.234 subroutine von_mises_cdf (double precision *x,* double precision *a,* double precision *b,* double precision, value *cdf*)

Definition at line 38465 of file subroutines.f.

Here is the caller graph for this function:



2.7.1.235 subroutine von_mises_cdf_inv (double precision, value *cdf,* double precision *a,* double precision *b,* double precision *x*)

Definition at line 38630 of file subroutines.f.

Here is the call graph for this function:

Here is the caller graph for this function:

2.7.1.236 subroutine von_mises_cdf_values (integer, value *n_data,* double precision *a,* double precision *b,* double precision *x,* double precision *fx*)

Definition at line 38750 of file subroutines.f.

Here is the caller graph for this function:

2.7.1.237 logical function von_mises_check (double precision *a,* double precision *b*)

Definition at line 38935 of file subroutines.f.

Here is the caller graph for this function:

2.7.1.238 subroutine von_mises_circular_variance (double precision *a,* double precision *b,* double precision *circular_variance*)

Definition at line 38996 of file subroutines.f.

Here is the caller graph for this function:

2.7.1.239 subroutine von_mises_mean (double precision *a,* double precision *b,* double precision *mean*)

Definition at line 39042 of file subroutines.f.

Here is the caller graph for this function:

2.7.1.240 subroutine von_mises_pdf (double precision *x,* double precision *a,* double precision *b,* double precision, parameter, value *pdf*)

Definition at line 39085 of file subroutines.f.

Here is the caller graph for this function:

2.7.1.241 subroutine von_mises_sample (double precision *a,* double precision *b,* integer *seed,* double precision *x*)

Definition at line 39177 of file subroutines.f.

Here is the caller graph for this function:

2.7.1.242 subroutine weibull_cdf (double precision *x,* double precision *a,* double precision *b,* double precision *c,* double precision, value *cdf*)

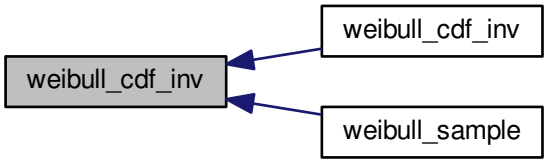
Definition at line 39270 of file subroutines.f.

Here is the caller graph for this function:

2.7.1.243 subroutine weibull_cdf_inv (double precision, value *cdf,* double precision *a,* double precision *b,* double precision *c,* double precision *x*)

Definition at line 39317 of file subroutines.f.

Here is the caller graph for this function:



2.7.1.244 subroutine weibull_cdf_values (integer, value *n_data,* double precision *alpha,* double precision *beta,* double precision *x,* double precision *fx*)

Definition at line 39365 of file subroutines.f.

Here is the caller graph for this function:

2.7.1.245 logical function weibull_check (double precision *a,* double precision *b,* double precision *c*)

Definition at line 39515 of file subroutines.f.

Here is the caller graph for this function:

2.7.1.246 subroutine weibull_discrete_cdf (integer *x,* double precision *a,* double precision *b,* double precision, value *cdf*)

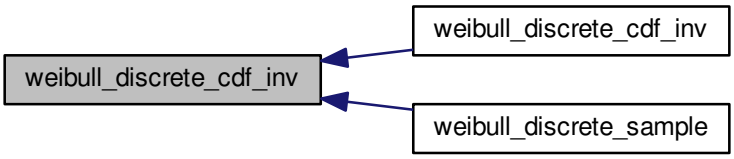
Definition at line 39757 of file subroutines.f.

Here is the caller graph for this function:

2.7.1.247 subroutine weibull_discrete_cdf_inv (double precision, value *cdf,* double precision *a,* double precision *b,* integer *x*)

Definition at line 39801 of file subroutines.f.

Here is the caller graph for this function:



2.7.1.248 logical function weibull_discrete_check (double precision *a,* double precision *b*)

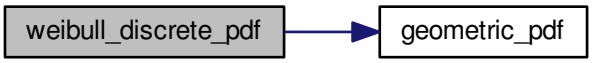
Definition at line 39850 of file subroutines.f.

Here is the caller graph for this function:

2.7.1.249 subroutine weibull_discrete_pdf (integer *x,* double precision *a,* double precision *b,* double precision, value *pdf*)

Definition at line 39903 of file subroutines.f.

Here is the call graph for this function:



Here is the caller graph for this function:

2.7.1.250 subroutine weibull_discrete_sample (double precision *a,* double precision *b,* integer *seed,* integer *x*)

Definition at line 39953 of file subroutines.f.

Here is the call graph for this function:

Here is the caller graph for this function:

2.7.1.251 subroutine weibull_mean (double precision *a,* double precision *b,* double precision *c,* double precision *mean*)

Definition at line 39568 of file subroutines.f.

Here is the caller graph for this function:

2.7.1.252 subroutine weibull_pdf (double precision *x,* double precision *a,* double precision *b,* double precision *c,* double precision, value *pdf*)

Definition at line 39606 of file subroutines.f.

Here is the caller graph for this function:

2.7.1.253 subroutine weibull_sample (double precision *a,* double precision *b,* double precision *c,* integer *seed,* double precision *x*)

Definition at line 39669 of file subroutines.f.

Here is the call graph for this function:

Here is the caller graph for this function:

2.7.1.254 subroutine weibull_variance (double precision *a,* double precision *b,* double precision *c,* double precision *variance*)

Definition at line 39714 of file subroutines.f.

Here is the caller graph for this function:

2.7.1.255 double precision function, value zeta (double precision *p*)

Definition at line 39997 of file subroutines.f.

Here is the caller graph for this function:

2.7.1.256 subroutine zipf_cdf (integer *x,* double precision *a,* double precision, value *cdf*)

Definition at line 40115 of file subroutines.f.

Here is the caller graph for this function:

2.7.1.257 logical function zipf_check (double precision *a*)

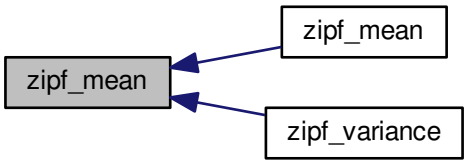
Definition at line 40187 of file subroutines.f.

Here is the caller graph for this function:

2.7.1.258 subroutine zipf_mean (double precision *a,* double precision *mean*)

Definition at line 40229 of file subroutines.f.

Here is the caller graph for this function:



2.7.1.259 subroutine zipf_pdf (integer *x,* double precision, parameter *a,* double precision, parameter, value *pdf*)

Definition at line 40272 of file subroutines.f.

Here is the caller graph for this function:

2.7.1.260 subroutine zipf_sample (double precision *a,* integer *seed,* integer *x*)

Definition at line 40359 of file subroutines.f.

Here is the caller graph for this function:

2.7.1.261 subroutine zipf_variance (double precision *a,* double precision *variance*)

Definition at line 40443 of file subroutines.f.

Here is the call graph for this function:

Here is the caller graph for this function:

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