R base and stat package	octave	slib	logiciel appelé	Description	Fortran
		stat/1d		Computes 1-dimensional statistical data	
mean	mean	stat/arithmean	p (pari)	Arithmetic mean of statistical data	
rbeta	betarnd	stat/beta	o (octave)	Generation of beta random data	
pbeta	betacdf	stat/betacdf	o	Cumulative density function of Beta law	
qbeta	betainv	stat/betainv	o	Quantiles of Beta law	
dbeta	betapdf	stat/betapdf	o	Probability density function of Beta law	
rbinom	binornd	stat/binomial	p	Generation of binomial random data	
pbinom	binocdf	stat/binomialcdf	o	cumulative distribution function of Binomial law	
qbinom	binoinv	stat/binomialinv		Quantile of Binomial law	
dbinom	binopdf	stat/binomialpdf	p	Binomial law	
rcauchy	cauchy_rnd	stat/cauchy	o	Generation of Cauchy random data	
pcauchy	cauchy_cdf	stat/cauchycdf		cumulative distribution function of Cauchy law	
qcauchy	cauchy_inv	stat/cauchyinv	o	Quantile of Cauchy law of parameters lambda and sigma	
dcauchy	cauchy_pdf	stat/cauchypdf	o	Probability density function of Cauchy law	
rchisq	chi2rnd	stat/chi2	o	Generation of chi2 random data	
pchisq	chi2cdf	stat/chi2cdf	p	Cumulative distribution function of chi2	
qchisq	chi2inv	stat/chi2inv	o	Quantile of cumulative chi2 distribution	
dchisq	chi2pdf	stat/chi2pdf	p	Probability density function of chi2	
cor	corrcoef	stat/correlation	p	Matrix of correlation	
cov	cov	stat/covariance	p	Matrix of covariance	
std	std	stat/deviation	p	Deviation of statistical data	
		stat/discretelaw	p	Generation of a discrete law with nonnegative coefficients	
		stat/effectif		Effectifs of statistical series in classes	
sample				Random Samples and Permutations	
sample	discrete_rnd	stat/empiric		Generation of random numbers with a discrete law	
rexp	exprnd	stat/expo		Generation of exponential random numbers	
rexp		stat/exponential		Generation of exponential random numbers	
pexp	expcdf	stat/exponentialcdf		cumulative distribution function of exponential law	
qexp	expinv	stat/exponentialinv		Quantile of exponential law	
dexp	exppdf	stat/exponentialpdf		Probability density function of Exponential law	
rf	frnd	stat/fisher	o	Generation of Fisher random data	
pf	fcdf	stat/fishercdf	o	Cumulative density function of Fisher law	
qf	finv	stat/fisherinv	o	Quantiles of Fisher law	
df	fpdf	stat/fisherpdf	o	Probability density function of Fisher law	
		stat/freq		Frequencies of statistical data	
rgamma	gamrnd	stat/gamma	o	Generation of Gamma random data	
pgamma	gamcdf	stat/gammacdf	p	Cumulative distribution function of Gamma law	

qgamma	gaminv	stat/gammainv	o	Quantile of cumulative gamma distribution
dgamma	gampdf	stat/gammapdf	p	Probability density function of gamma law
	mean (option g)	stat/geomean	p	Geometric mean of data
rgeom	geornd	stat/geometric	o	Generation of random data with geometric law on N
		stat/geometric1	o	Generation of random data with geometric law on N*
		stat/geometric1cdf		cumulative distribution function of geometric law on N*
		stat/geometric1inv		Quantiles of a Geometric law on N*
		stat/geometric1pdf		Probability density function of Geometric law on N*
pgeom	geocdf	stat/geometriccdf		cumulative distribution function of geometric law on N
qgeom	geoinv	stat/geometricinv		Quantiles of a Geometric law on N
dgeom	geopdf	stat/geometricpdf		Probability density function of Geometric law on N
	mean (option h)	stat/harmonic		Harmonic mean of statistical data
		stat/histo		Histogram
		stat/histo_old		Histogram
rhyper	hygernd	stat/hypergeometric	o	Generation of Hypergeometric random data
phyper	hygecdf	stat/hypergeometriccdf	p	cumulative distribution function of hypergeometric law
qhyper	hygeinv	stat/hypergeometricinv		Quantile of hypergeometric law inverse
dhyper	hygepdf	stat/hypergeometricpdf	p	Probability density function of Hypergeometric law
qhyper		stat/hypergeominv		Hypergeometric law inverse
	laplace_rnd	stat/laplace		Generation of Laplace random data
	laplace_cdf	stat/laplacecdf		Probability cumulative distribution of laplace law
	laplace_inv	stat/laplaceinv		Quantiles of laplace law
	laplace_pdf	stat/laplacepdf		Probability density function of laplace law
		stat/linearcong		Generation of linear congruential random integers
rlogis	logistic_rnd	stat/logistic	o	Generation of logistic random data
plogis	logistic_cdf	stat/logisticcdf		Probability cumulative density function of logistic law
qlogis	logistic_inv	stat/logisticinv		Quantile of logistic law
dlogis	logistic_pdf	stat/logisticpdf		Probability density function of logistic law
rlnorm	lognrnd	stat/lognormal	o	Generation of lognormal random data
plnorm	logncdf	stat/lognormalcdf		Cumulative distribution function of log-normal law
qlnorm	logninv	stat/lognormalinv	o	Quantile of of Log-normal law
dlnorm	lognpdf	stat/lognormalpdf		Probability density function of log-normal law
median	median	stat/median		Data median
rmultinom		stat/multinomial		Generation of multinomial random data
dmultinom				compute multinomial “density” probabilities.
rnorm	normrnd	stat/normal	o	Generation of Gaussian random data
pnorm	normcdf	stat/normalcdf		Cumulative distribution function of the normal distribution
qnorm	norminv	stat/normalinv	o	Quantile of Normal law
dnorm	normpdf	stat/normalpdf		Probability density function of Normal law

rnbinom	nbinrnd	stat/pascal	o	Generation of Pascal random data
pnbinom	nbincdf	stat/pascalcdf	o	cumulative distribution function of Binomial law
qnbinom	nbininv	stat/pascalinv	p	Quantile of Negative Binomial law
dnbinom	nbinpdf	stat/pascalpdf	p	Negative Binomial law (Pascal law)
rpois	poissrnd	stat/poisson	o	Generation of random numbers with Poisson law
ppois	poisscdf	stat/poissoncdf		cumulative distribution function of Poisson law
qpois	poissinv	stat/poissoninv		Quantile of Poisson law
ppois	poisspdf	stat/poissonpdf		Probability density function of Poisson law
		stat/posdiscretelaw		Generation of a discrete law with positive coefficients
prod		stat/prod	p	Product of data
	meansq	stat/quadratic	p	Quadratic mean
quantile				Sample quantiles corresponding to the given probabilities
		stat/random		Generation of random numbers
	range	stat/range		Data range
runif	unifrnd			Generation of uniform random data
punif				Cumulative density function of uniform distribution
qunif				Quantile function of the uniform distribution
dunif				Probability density function of the uniform distribution
rt	trnd	stat/student	o	Generation of Student random data
pt	tcdf	stat/studentcdf	o	Probability cumulative density function of Student law
qt	tinv	stat/studentinv	o	Quantile of Student law
dt	tpdf	stat/studentpdf	o	Probability density function of Student law
		stat/sum	p	Data sum
		stat/variance	p	Variance
rweibull	wblrnd	stat/weibull	o	Generation of Weibull random data
pweibull	wblcdf	stat/weibullcdf	o	cumulative distribution function of Weibull law
qweibull	wblinv	stat/weibullinv	o	Quantile of Weibull law
dweibull	wblpdf	stat/weibullpdf		Probability density function of Weibull law

Generate a random k-set of a an n-set.	RANKSB
Generate a random composition of n into k parts	RANCOM
Generate a random partition	RANEQU
Generate a random permutation	RANPER

Référence pour les subroutines Fortran

A. Nijenhuis and H. Wilf. Combinatorial Algorithms for Computers and Calculators. Academic Press, Orlando FL, second edition, 1978