



Overview

Package math provides basic constants and mathematical functions.

This package does not guarantee bit-identical results across architectures.

Index

Constants

func Abs(x float64) float64

func Acos(x float64) float64

func Acosh(x float64) float64

func Asin(x float64) float64

func Asinh(x float64) float64

func Atan(x float64) float64

func Atan2(y, x float64) float64

func Atanh(x float64) float64

func Cbrt(x float64) float64

func Ceil(x float64) float64

func Copysign(f, sign float64) float64

func Cos(x float64) float64

func Cosh(x float64) float64

func Dim(x, y float64) float64

func Erf(x float64) float64

func Erfc(x float64) float64

func Erfcinv(x float64) float64 func Erfinv(x float64) float64 func Exp(x float64) float64 func Exp2(x float64) float64 func Expm1(x float64) float64 func FMA(x, y, z float64) float64 func Float32bits(f float32) uint32 func Float32frombits(b uint32) float32 func Float64bits(f float64) uint64 func Float64frombits(b uint64) float64 func Floor(x float64) float64 func Frexp(f float64) (frac float64, exp int) func Gamma(x float64) float64 func Hypot(p, q float64) float64 func llogb(x float64) int func Inf(sign int) float64 func IsInf(f float64, sign int) bool func IsNaN(f float64) (is bool) func J0(x float64) float64 func J1(x float64) float64 func Jn(n int, x float64) float64 func Ldexp(frac float64, exp int) float64 func Lgamma(x float64) (lgamma float64, sign int) func Log(x float64) float64 func Log10(x float64) float64 func Log1p(x float64) float64 func Log2(x float64) float64 func Logb(x float64) float64 func Max(x, y float64) float64 func Min(x, y float64) float64 func Mod(x, y float64) float64 func Modf(f float64) (int float64, frac float64) func NaN() float64 func Nextafter(x, y float64) (r float64) func Nextafter32(x, y float32) (r float32) func Pow(x, y float64) float64 func Pow10(n int) float64 func Remainder(x, y float64) float64 func Round(x float64) float64 func RoundToEven(x float64) float64 func Signbit(x float64) bool func Sin(x float64) float64 func Sincos(x float64) (sin, cos float64) func Sinh(x float64) float64 func Sqrt(x float64) float64 func Tan(x float64) float64

func Tanh(x float64) float64 func Trunc(x float64) float64 func Y0(x float64) float64 func Y1(x float64) float64 func Yn(n int, x float64) float64

Examples

Abs

Acos

Acosh

Asin

Asinh

Atan

Atan2

Atanh

Cbrt

Ceil

Copysign

Cos

Cosh

Dim

Exp

Exp2

Expm1

Floor

Log

Log10

Log2

Mod

Modf

Pow

Pow10

Remainder

Round

RoundToEven

Sin

Sincos

Sinh

Sqrt

Tan

Tanh

Trunc

Constants

```
const (
    E = 2.71828182845904523536028747135266249775724709369995957496696763 // https://or
    Pi = 3.14159265358979323846264338327950288419716939937510582097494459 // https://or
    Phi = 1.61803398874989484820458683436563811772030917980576286213544862 // https://or
    Sqrt2 = 1.41421356237309504880168872420969807856967187537694807317667974 // https
    SqrtE = 1.64872127070012814684865078781416357165377610071014801157507931 // https
    SqrtPi = 1.77245385090551602729816748334114518279754945612238712821380779 // https
    SqrtPhi = 1.27201964951406896425242246173749149171560804184009624861664038 // https

    Ln2 = 0.693147180559945309417232121458176568075500134360255254120680009 // https
    Log2E = 1 / Ln2
    Ln10 = 2.30258509299404568401799145468436420760110148862877297603332790 // https://
    Log10E = 1 / Ln10
)
```

Mathematical constants.

Floating-point limit values. Max is the largest finite value representable by the type. SmallestNonzero is the smallest positive, non-zero value representable by the type.

```
View Source
const (
   MaxInt = 1<<(intSize-1) - 1 // MaxInt32 or MaxInt64 depending on intSize.
            = -1 << (intSize - 1) // MinInt32 or MinInt64 depending on intSize.
   MinInt
   MaxInt8 = 1 << 7 - 1
                                   // 127
   MinInt8 = -1 << 7
                                   // -128
   MaxInt16 = 1 << 15 - 1
                                   // 32767
   MinInt16 = -1 << 15
                                   // -32768
                                   // 2147483647
    MaxInt32 = 1 << 31 - 1
   MinInt32 = -1 << 31
                                   // -2147483648
   MaxInt64 = 1 << 63 - 1
                                  // 9223372036854775807
   MinInt64 = -1 << 63
                                   // -9223372036854775808
   MaxUint = 1<<intSize - 1 // MaxUint32 or MaxUint64 depending on intSize.
    MaxUint8 = 1 < 8 - 1
                                   // 255
   MaxUint16 = 1 << 16 - 1
                                   // 65535
   MaxUint32 = 1 << 32 - 1
                                   // 4294967295
   MaxUint64 = 1 << 64 - 1
                                   // 18446744073709551615
)
```

Variables

This section is empty.

Functions

func Abs

```
func Abs(x float64) float64
```

Abs returns the absolute value of x.

Special cases are:

```
Abs(±Inf) = +Inf
Abs(NaN) = NaN
```

Example

func Acos

```
func Acos(x float64) float64
```

Acos returns the arccosine, in radians, of x.

Special case is:

```
A\cos(x) = \text{NaN if } x < -1 \text{ or } x > 1
```

► Example

func Acosh

```
func Acosh(x float64) float64
```

Acosh returns the inverse hyperbolic cosine of x.

Special cases are:

```
Acosh(+Inf) = +Inf
Acosh(x) = NaN if x < 1
Acosh(NaN) = NaN
```

▶ Example

func Asin

```
func Asin(x float64) float64
```

Asin returns the arcsine, in radians, of x.

Special cases are:

```
Asin(\pm 0) = \pm 0
Asin(x) = NaN \text{ if } x < -1 \text{ or } x > 1
```

► Example

func Asinh

```
func Asinh(x float64) float64
```

Asinh returns the inverse hyperbolic sine of x.

Special cases are:

```
Asinh(±0) = ±0
Asinh(±Inf) = ±Inf
Asinh(NaN) = NaN
```

▶ Example

func Atan

```
func Atan(x float64) float64
```

Atan returns the arctangent, in radians, of x.

Special cases are:

```
Atan(\pm 0) = \pm 0
Atan(\pm Inf) = \pm Pi/2
```

Example

func Atan2

```
func Atan2(y, x float64) float64
```

At an 2 returns the arc tangent of y/x, using the signs of the two to determine the quadrant of the return value.

Special cases are (in order):

```
Atan2(y, NaN) = NaN
Atan2(NaN, x) = NaN
Atan2(+0, x>=0) = +0
Atan2(-0, x > = 0) = -0
Atan2(+0, x <= -0) = +Pi
Atan2(-0, x < = -0) = -Pi
Atan2(y>0, 0) = +Pi/2
Atan2(y<0, 0) = -Pi/2
Atan2(+Inf, +Inf) = +Pi/4
Atan2(-Inf, +Inf) = -Pi/4
Atan2(+Inf, -Inf) = 3Pi/4
Atan2(-Inf, -Inf) = -3Pi/4
Atan2(y, +Inf) = 0
Atan2(y>0, -Inf) = +Pi
Atan2(y<0, -Inf) = -Pi
Atan2(+Inf, x) = +Pi/2
Atan2(-Inf, x) = -Pi/2
```

▶ Example

func Atanh

```
func Atanh(x float64) float64
```

Atanh returns the inverse hyperbolic tangent of x.

Special cases are:

```
A tanh(1) = +Inf
A tanh(\pm 0) = \pm 0
A tanh(-1) = -Inf
A tanh(x) = NaN \text{ if } x < -1 \text{ or } x > 1
A tanh(NaN) = NaN
```

Example

func Cbrt

```
func Cbrt(x float64) float64
```

Cbrt returns the cube root of x.

```
Cbrt(±0) = ±0
Cbrt(±Inf) = ±Inf
Cbrt(NaN) = NaN
```

▶ Example

func Ceil

```
func Ceil(x float64) float64
```

Ceil returns the least integer value greater than or equal to x.

Special cases are:

```
Ceil(±0) = ±0
Ceil(±Inf) = ±Inf
Ceil(NaN) = NaN
```

▶ Example

func Copysign

```
func Copysign(f, sign float64) float64
```

Copysign returns a value with the magnitude of f and the sign of sign.

▶ Example

func Cos

```
func Cos(x float64) float64
```

Cos returns the cosine of the radian argument x.

Special cases are:

```
Cos(±Inf) = NaN
Cos(NaN) = NaN
```

Example

func Cosh

```
func Cosh(x float64) float64
```

Cosh returns the hyperbolic cosine of x.

Special cases are:

```
Cosh(\pm 0) = 1

Cosh(\pm Inf) = +Inf

Cosh(NaN) = NaN
```

▶ Example

func Dim

```
func Dim(x, y float64) float64
```

Dim returns the maximum of x-y or 0.

Special cases are:

```
Dim(+Inf, +Inf) = NaN
Dim(-Inf, -Inf) = NaN
Dim(x, NaN) = Dim(NaN, x) = NaN
```

▶ Example

func Erf

```
func Erf(x float64) float64
```

Erf returns the error function of x.

Special cases are:

```
Erf(+Inf) = 1
Erf(-Inf) = -1
Erf(NaN) = NaN
```

func Erfc

```
func Erfc(x float64) float64
```

Erfc returns the complementary error function of x.

```
Erfc(+Inf) = 0
Erfc(-Inf) = 2
```

```
Erfc(NaN) = NaN
```

func Erfcinv added in go1.10

```
func Erfcinv(x float64) float64
```

Erfcinv returns the inverse of Erfc(x).

Special cases are:

```
 Erfcinv(0) = +Inf 
 Erfcinv(2) = -Inf 
 Erfcinv(x) = NaN  if  x < 0  or  x > 2 
 Erfcinv(NaN) = NaN
```

func Erfinv added in go1.10

```
func Erfinv(x float64) float64
```

Erfinv returns the inverse error function of x.

Special cases are:

```
 Erfinv(1) = +Inf 
 Erfinv(-1) = -Inf 
 Erfinv(x) = NaN \text{ if } x < -1 \text{ or } x > 1 
 Erfinv(NaN) = NaN
```

func Exp

```
func Exp(x float64) float64
```

Exp returns $e^{**}x$, the base-e exponential of x.

Special cases are:

```
Exp(+Inf) = +Inf
Exp(NaN) = NaN
```

Very large values overflow to 0 or +Inf. Very small values underflow to 1.

▶ Example

func Exp2

```
func Exp2(x float64) float64
```

Exp2 returns $2^{**}x$, the base-2 exponential of x.

Special cases are the same as Exp.

Example

func Expm1

```
func Expm1(x float64) float64
```

Expm1 returns $e^{**}x - 1$, the base-e exponential of x minus 1. It is more accurate than Exp(x) - 1 when x is near zero.

Special cases are:

```
Expm1(+Inf) = +Inf
Expm1(-Inf) = -1
Expm1(NaN) = NaN
```

Very large values overflow to -1 or +Inf.

Example

func FMA added in go1.14

```
func FMA(x, y, z float64) float64
```

FMA returns x * y + z, computed with only one rounding. (That is, FMA returns the fused multiply-add of x, y, and z.)

func Float32bits

```
func Float32bits(f float32) uint32
```

Float32bits returns the IEEE 754 binary representation of f, with the sign bit of f and the result in the same bit position. Float32bits(Float32frombits(x)) == x.

func Float32frombits

```
func Float32frombits(b uint32) float32
```

Float32 from bits returns the floating-point number corresponding to the IEEE 754 binary representation b, with the sign bit of b and the result in the same bit position. Float32 from bits (Float32 bits (x)) == x.

func Float64bits

```
func Float64bits(f float64) uint64
```

Float64bits returns the IEEE 754 binary representation of f, with the sign bit of f and the result in the same bit position, and Float64bits(Float64frombits(x)) == x.

func Float64frombits

```
func Float64frombits(b uint64) float64
```

Float64frombits returns the floating-point number corresponding to the IEEE 754 binary representation b, with the sign bit of b and the result in the same bit position. Float64frombits(Float64bits(x)) == x.

func Floor

```
func Floor(x float64) float64
```

Floor returns the greatest integer value less than or equal to x.

Special cases are:

```
Floor(±0) = ±0
Floor(±Inf) = ±Inf
Floor(NaN) = NaN
```

Example

func Frexp

```
func Frexp(f float64) (frac float64, exp int)
```

Frexp breaks f into a normalized fraction and an integral power of two. It returns frac and exp satisfying f == frac \times 2**exp, with the absolute value of frac in the interval [½, 1).

Special cases are:

```
Frexp(\pm 0) = \pm 0, 0

Frexp(\pm Inf) = \pm Inf, 0

Frexp(NaN) = NaN, 0
```

func Gamma

```
func Gamma(x float64) float64
```

Gamma returns the Gamma function of x.

```
Gamma(+Inf) = +Inf
Gamma(+0) = +Inf
```

```
Gamma(-0) = -Inf
Gamma(x) = NaN for integer x < 0
Gamma(-Inf) = NaN
Gamma(NaN) = NaN
```

func Hypot

```
func Hypot(p, q float64) float64
```

Hypot returns Sqrt(p*p + q*q), taking care to avoid unnecessary overflow and underflow.

Special cases are:

```
Hypot(±Inf, q) = +Inf
Hypot(p, ±Inf) = +Inf
Hypot(NaN, q) = NaN
Hypot(p, NaN) = NaN
```

func llogb

```
func Ilogb(x float64) int
```

llogb returns the binary exponent of x as an integer.

Special cases are:

```
Ilogb(±Inf) = MaxInt32
Ilogb(0) = MinInt32
Ilogb(NaN) = MaxInt32
```

func Inf

```
func Inf(sign int) float64
```

Inf returns positive infinity if sign \geq 0, negative infinity if sign \leq 0.

func IsInf

```
func IsInf(f float64, sign int) bool
```

IsInf reports whether f is an infinity, according to sign. If sign > 0, IsInf reports whether f is positive infinity. If sign < 0, IsInf reports whether f is negative infinity. If sign == 0, IsInf reports whether f is either infinity.

func IsNaN

```
func IsNaN(f float64) (is bool)
```

IsNaN reports whether f is an IEEE 754 "not-a-number" value.

func J0

```
func J0(x float64) float64
```

J0 returns the order-zero Bessel function of the first kind.

Special cases are:

```
J0(\pm Inf) = 0
J0(0) = 1
J0(NaN) = NaN
```

func J1

```
func J1(x float64) float64
```

J1 returns the order-one Bessel function of the first kind.

Special cases are:

```
J1(\pm Inf) = 0
J1(NaN) = NaN
```

func Jn

```
func Jn(n int, x float64) float64
```

Jn returns the order-n Bessel function of the first kind.

Special cases are:

```
Jn(n, \pm Inf) = 0

Jn(n, NaN) = NaN
```

func Ldexp

```
func Ldexp(frac float64, exp int) float64
```

Ldexp is the inverse of Frexp. It returns frac \times 2**exp.

Special cases are:

```
Ldexp(±0, exp) = ±0

Ldexp(±Inf, exp) = ±Inf

Ldexp(NaN, exp) = NaN
```

func Lgamma

```
func Lgamma(x float64) (lgamma float64, sign int)
```

Lgamma returns the natural logarithm and sign (-1 or +1) of Gamma(x).

Special cases are:

```
Lgamma(+Inf) = +Inf
Lgamma(0) = +Inf
Lgamma(-integer) = +Inf
Lgamma(-Inf) = -Inf
Lgamma(NaN) = NaN
```

func Log

```
func Log(x float64) float64
```

Log returns the natural logarithm of x.

Special cases are:

```
Log(+Inf) = +Inf

Log(0) = -Inf

Log(x < 0) = NaN

Log(NaN) = NaN
```

Example

func Log10

```
func Log10(x float64) float64
```

Log10 returns the decimal logarithm of x. The special cases are the same as for Log.

▶ Example

func Log1p

```
func Log1p(x float64) float64
```

Log1p returns the natural logarithm of 1 plus its argument x. It is more accurate than Log(1 + x) when x is near zero.

```
Log1p(+Inf) = +Inf
Log1p(\pm 0) = \pm 0
```

```
Log1p(-1) = -Inf

Log1p(x < -1) = NaN

Log1p(NaN) = NaN
```

func Log2

```
func Log2(x float64) float64
```

Log2 returns the binary logarithm of x. The special cases are the same as for Log.

▶ Example

func Logb

```
func Logb(x float64) float64
```

Logb returns the binary exponent of x.

Special cases are:

```
Logb(±Inf) = +Inf
Logb(0) = -Inf
Logb(NaN) = NaN
```

func Max

```
func Max(x, y float64) float64
```

Max returns the larger of x or y.

Special cases are:

```
Max(x, +Inf) = Max(+Inf, x) = +Inf

Max(x, NaN) = Max(NaN, x) = NaN

Max(+0, \pm 0) = Max(\pm 0, +0) = +0

Max(-0, -0) = -0
```

func Min

```
func Min(x, y float64) float64
```

Min returns the smaller of x or y.

```
Min(x, -Inf) = Min(-Inf, x) = -Inf

Min(x, NaN) = Min(NaN, x) = NaN
```

```
Min(-0, \pm 0) = Min(\pm 0, -0) = -0
```

func Mod

```
func Mod(x, y float64) float64
```

Mod returns the floating-point remainder of x/y. The magnitude of the result is less than y and its sign agrees with that of x.

Special cases are:

```
Mod(\pm Inf, y) = NaN

Mod(NaN, y) = NaN

Mod(x, 0) = NaN

Mod(x, \pm Inf) = x

Mod(x, NaN) = NaN
```

▶ Example

func Modf

```
func Modf(f float64) (int float64, frac float64)
```

Modf returns integer and fractional floating-point numbers that sum to f. Both values have the same sign as f.

Special cases are:

```
Modf(±Inf) = ±Inf, NaN
Modf(NaN) = NaN, NaN
```

Example

func NaN

```
func NaN() float64
```

NaN returns an IEEE 754 "not-a-number" value.

func Nextafter

```
func Nextafter(x, y float64) (r float64)
```

Nextafter returns the next representable float64 value after x towards y.

```
Nextafter(x, x) = x
Nextafter(NaN, y) = NaN
Nextafter(x, NaN) = NaN
```

func Nextafter32 added in go1.4

```
func Nextafter32(x, y float32) (r float32)
```

Nextafter32 returns the next representable float32 value after x towards y.

Special cases are:

```
Nextafter32(x, x) = x
Nextafter32(NaN, y) = NaN
Nextafter32(x, NaN) = NaN
```

func Pow

```
func Pow(x, y float64) float64
```

Pow returns x**y, the base-x exponential of y.

Special cases are (in order):

```
Pow(x, \pm 0) = 1 for any x
Pow(1, y) = 1 for any y
Pow(x, 1) = x for any x
Pow(NaN, y) = NaN
Pow(x, NaN) = NaN
Pow(\pm 0, y) = \pm Inf for y an odd integer < 0
Pow(\pm 0, -Inf) = +Inf
Pow(\pm 0, +Inf) = +0
Pow(\pm 0, y) = +Inf for finite y < 0 and not an odd integer
Pow(\pm 0, y) = \pm 0 for y an odd integer > 0
Pow(\pm 0, y) = +0 for finite y > 0 and not an odd integer
Pow(-1, \pm Inf) = 1
Pow(x, +Inf) = +Inf for |x| > 1
Pow(x, -Inf) = +0 \text{ for } |x| > 1
Pow(x, +Inf) = +0 \text{ for } |x| < 1
Pow(x, -Inf) = +Inf for |x| < 1
Pow(+Inf, y) = +Inf for y > 0
Pow(+Inf, y) = +0 \text{ for } y < 0
Pow(-Inf, y) = Pow(-0, -y)
Pow(x, y) = NaN  for finite x < 0  and finite non-integer y
```

Example

```
func Pow10(n int) float64
```

Pow10 returns 10**n, the base-10 exponential of n.

Special cases are:

```
Pow10(n) = 0 for n < -323
Pow10(n) = +Inf for n > 308
```

Example

func Remainder

```
func Remainder(x, y float64) float64
```

Remainder returns the IEEE 754 floating-point remainder of x/y.

Special cases are:

```
Remainder(±Inf, y) = NaN
Remainder(NaN, y) = NaN
Remainder(x, 0) = NaN
Remainder(x, ±Inf) = x
Remainder(x, NaN) = NaN
```

▶ Example

func Round added in go1.10

```
func Round(x float64) float64
```

Round returns the nearest integer, rounding half away from zero.

Special cases are:

```
Round(±0) = ±0
Round(±Inf) = ±Inf
Round(NaN) = NaN
```

Example

func RoundToEven added in go1.10

```
func RoundToEven(x float64) float64
```

RoundToEven returns the nearest integer, rounding ties to even.

Special cases are:

```
RoundToEven(±0) = ±0
RoundToEven(±Inf) = ±Inf
RoundToEven(NaN) = NaN
```

▶ Example

func Signbit

```
func Signbit(x float64) bool
```

Signbit reports whether x is negative or negative zero.

func Sin

```
func Sin(x float64) float64
```

Sin returns the sine of the radian argument x.

Special cases are:

```
Sin(\pm 0) = \pm 0

Sin(\pm Inf) = NaN

Sin(NaN) = NaN
```

▶ Example

func Sincos

```
func Sincos(x float64) (sin, cos float64)
```

Sincos returns Sin(x), Cos(x).

Special cases are:

```
Sincos(±0) = ±0, 1
Sincos(±Inf) = NaN, NaN
Sincos(NaN) = NaN, NaN
```

Example

func Sinh

```
func Sinh(x float64) float64
```

Sinh returns the hyperbolic sine of x.

Special cases are:

```
Sinh(\pm 0) = \pm 0

Sinh(\pm Inf) = \pm Inf

Sinh(NaN) = NaN
```

▶ Example

func Sqrt

```
func Sqrt(x float64) float64
```

Sqrt returns the square root of x.

Special cases are:

```
Sqrt(+Inf) = +Inf

Sqrt(\pm 0) = \pm 0

Sqrt(x < 0) = NaN

Sqrt(NaN) = NaN
```

▶ Example

func Tan

```
func Tan(x float64) float64
```

Tan returns the tangent of the radian argument x.

Special cases are:

```
Tan(\pm 0) = \pm 0

Tan(\pm Inf) = NaN

Tan(NaN) = NaN
```

▶ Example

func Tanh

```
func Tanh(x float64) float64
```

Tanh returns the hyperbolic tangent of x.

Special cases are:

```
Tanh(\pm 0) = \pm 0

Tanh(\pm Inf) = \pm 1

Tanh(NaN) = NaN
```

▶ Example

func Trunc

```
func Trunc(x float64) float64
```

Trunc returns the integer value of x.

Special cases are:

```
Trunc(±0) = ±0
Trunc(±Inf) = ±Inf
Trunc(NaN) = NaN
```

▶ Example

func Y0

```
func Y0(x float64) float64
```

Y0 returns the order-zero Bessel function of the second kind.

Special cases are:

```
Y0(+Inf) = 0
Y0(0) = -Inf
Y0(x < 0) = NaN
Y0(NaN) = NaN
```

func Y1

```
func Y1(x float64) float64
```

Y1 returns the order-one Bessel function of the second kind.

```
Y1(+Inf) = 0

Y1(0) = -Inf
```

```
Y1(x < 0) = NaN

Y1(NaN) = NaN
```

func Yn

```
func Yn(n int, x float64) float64
```

Yn returns the order-n Bessel function of the second kind.

Special cases are:

```
Yn(n, +Inf) = 0

Yn(n \ge 0, 0) = -Inf

Yn(n < 0, 0) = +Inf if n is odd, -Inf if n is even

Yn(n, x < 0) = NaN

Yn(n, NaN) = NaN
```

Types

This section is empty.

Source Files

View all ☑

abs.go	exp_asm.go	logb.go
acosh.go	expm1.go	mod.go
asin.go	floor.go	modf.go
asinh.go	floor_asm.go	modf_noasm.go
atan.go	fma.go	nextafter.go
atan2.go	frexp.go	pow.go
atanh.go	gamma.go	pow10.go
bits.go	hypot.go	remainder.go
cbrt.go	hypot_asm.go	signbit.go
const.go	j0.go	sin.go
copysign.go	j1.go	sincos.go
dim.go	jn.go	sinh.go
dim_asm.go	ldexp.go	sqrt.go
erf.go	lgamma.go	stubs.go
erfinv.go	log.go	tan.go
exp.go	log10.go	tanh.go
exp2_noasm.go	log1p.go	trig_reduce.go
exp_amd64.go	log_asm.go	unsafe.go

Directories

Package big implements arbitrary-precision arithmetic (big numbers).

bits

Package bits implements bit counting and manipulation functions for the predeclared unsigned integer types.

cmplx

Package cmplx provides basic constants and mathematical functions for complex numbers.

rand

Package rand implements pseudo-random number generators unsuitable for security-sensitive work.

Why Go	Get Started	Packages	About	
Use Cases	Playground	Standard Library	Download	
Case Studies	Tour	About Go Packages	Blog	
	Stack Overflow		Issue Tracker	
	Help		Release Notes	
			Brand Guidelines	
			Code of Conduct	
Connect				
Twitter				
GitHub				
Slack				
r/golang				
Meetup				
Golang Weekly				
Copyright				
Terms of Service				

Privacy Policy

Report an Issue

....

Ð

Google