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(C)SO-SOFT 2023

◆The value

- 0.0 : Real number
- 0 : Integer
- #1F : Hex decimal
- 0x1F, 0X1F : Hex decimal
- b101, B101 : Bit decimal

◆Support operators

$+, -, *(\times), /(\div), \%, \sim, ^, <<, >>, \&, |$

◆Special operations

- $\backslash$: This is the exponentiation operator.
- $n!$: This is the factorial operator for n .

◆Programmer-oriented operators

- $\%$: Modulus operator.
- $\sim$: Bitwise NOT operator.
- $\wedge$: Bitwise XOR operator.
- $<<$: Left shift operator.
- $>>$: Right shift operator.
- $\&$: Bitwise AND operator.
- $|$: Bitwise OR operator.

◆Operator precedence

The operator precedence is higher from the top in the following table.

$\backslash$
$\sim$
$*(\times), /(\div), \%$
$+, -$
$<<, >>$
$\&, , ^$

◆Reference variables and call no arguments functions

[Variable identifier] : A string composed of characters '0'-'9', 'a'-'z', and 'A'-'Z'.
\$XXX : You can refer to the history using strings composed of numbers starting with '\$'.

◆Variable Assignment

You can assign a value to a variable.

```
[Variable identifier] = [Expression]
```

◆Variable removal

You can remove a variable.

```
[Variable identifier] =
```

◆Call functions

The post function identifier is case sensitive.

```
[Function identifier] ( [Argument 1], [Argument 2], ...)
```

◆Call post functions

The post function identifier is case insensitive.

```
[Expression] [Function identifier]
```

◆The format of date time

- **MM/dd/yyyy HH:mm:ss** : Full date and time specification.
- **#MM/dd HH:mm:ss** : Date and time specification for the current year.
- **MM/dd/yyyy HH:mm** : Date and time specification without seconds.
- **#MM/dd HH:mm** : Date and time specification without seconds for the current year.
- **MM/dd/yyyy** : Full date specification.
- **#MM/dd** : Date specification for the current year.
- **HH:mm:ss** : Full time specification for today.
- **HH:mm** : Time specification without seconds for today.

- **@MM/dd HH:mm:ss** : Full date time span specification.
- **@MM/dd HH:mm** : Date time span specification without seconds.
- **@dd HH:mm:ss** : Date time span specification using days and time.
- **@dd HH:mm** : Date time span specification using days and time without seconds.
- **@HH:mm:ss** : Date time span specification using time only.
- **@HH:mm** : Date time span specification using time only without seconds.
- **@dd** : Date time span specification using days only.

◆Default functions

- **Now** : Returns now date time.
- **today** : Returns today date time.
- **sin(x)** : Sine function.
- **cos(x)** : Cosine function.
- **tan(x)** : Tangent function.
- **asin(x)** : Arcsine function.
- **acos(x)** : Arccosine function.
- **atan(x)** : Arctangent function.
- **sinh(x)** : Hyperbolic sine function.
- **cosh(x)** : Hyperbolic cosine function.
- **tanh(x)** : Hyperbolic tangent function.
- **atan2(y, x)** : Arctangent of y/x in radians.
- **sqrt(x)** : Square root of x.
- **nthroot(x)** : Function to return the nth root of x.
- **pow(x)** : Square of x.
- **pow(x, y)** : x raised to the power of y.
- **ln(x)** : This is the natural logarithm function.
- **log(x, y)** : Logarithm of x to the base y.
- **log10(x)** : This is a function that returns the logarithm with base 10.
- **floor(x)** : Largest integer less than or equal to x.
- **ceiling(x)** : Returns the smallest integer greater than or equal to the specified value x, rounding up any decimal portion.
- **round(x)** : Returns the value of the specified number x rounded to the nearest integer or midpoint in case of a tie.
- **fract(x)** : Fractional part of x.
- **fact(n)** : This is a function that returns the factorial of n.
- **exp(n)** : This is a function that returns e raised to the power of n.

◆Default post functions

- **kb, kbyte** : Convert KBytes to Bytes.
- **mb, mbyte** : Convert MBytes to Bytes.
- **gb, gbyte** : Convert GBytes to Bytes.

- **tkb, tkbyte** : Convert Bytes to KBytes.
- **tmb, tmbyte** : Convert Bytes to MBytes.
- **tgby, tgbyte** : Convert Bytes to GBytes.
- **y, year** : Returns date span by years.
- **m, month** : Returns date span by months.
- **d, day** : Returns date span by days.
- **h, hour** : Returns time span by hours.
- **min, minute** : Returns time span by minutes.
- **s, second** : Returns time span by seconds.