

1\Arithmetic routines:

Abs function

Returns the absolute value of a number.

Ceil function

Returns the largest near integer number.

DivMod procedure

Returns the integer and the remainder of an integer division, in one operation.

Exp function

Returns the base of natural logarithms (e) raised to a power.

Floor function

Returns the smallest near integer number.

Frac function

Returns the fractional part of a number.

Int function

Returns the integer part of a number.

IntPower function

Returns a real number raised to an integer power.

IsInfinite function

Returns true if the value specified represents positive or negative infinity.

Ln function

Returns the natural logarithm of a number.

LogN function

Returns the logarithm of a number for a given base

Max function

Returns the greater value of the two numerical values.

Min function

Returns the smaller value of the two numerical values.

Pi function

Returns number: 3.1415926535897932385

Poly function

Evaluates a uniform polynomial of one variable at the value X.

Power function

Returns a real number raised any power.

Round function

Rounds a real number to nearest integer number.

Sign function

Indicates whether a numeric value is positive, negative, or zero.

Sqr function

Returns the square of a number.

Sqrt function

Returns the square root of a number.

Trunc function

Truncates a real number to an integer number.

2\Business and finance routines:

FutureValue function

Returns the future value of an investment.

3\Command line utilities:

CmdLine variable

Returns the pointer to string that contains the command-line arguments.

FindCmdLineSwitch function

Returns True if a specified string was passed as a command line argument.

ParamCount function

Returns the number of command-line parameters.

ParamStr function

Returns the specified command-line parameter.

4\Character manipulation routines

Chr function

Returns the character for a specified ASCII value.

FillChar procedure

Charges a variable with adjoining values of byte or char.

UpCase procedure

Converts a character to uppercase.

5\Date / Time routines

CompareDate function

Compares two TDateTime values (returns "less", "equal" or "greater"). Ignores the Time part if both values "fall" on the same day.

CompareDateTime function

Compares two TDateTime values (returns "less", "equal" or "greater").

CompareTime function

Compares two TDateTime values (returns "less", "equal" or "greater"). Ignores the Date part if both values occur at the same time.

Date function

Returns the current system date.

DateToStr function

Converts a TDateTime value to a string (date part only).

DateTimeToFileDate function

Converts a TDateTime value to a system timestamp value.

DateTimeToStr function

Converts a TDateTime value to a string (date and time).

DateOfWeek function

Returns the day of the week for a given date.

DateOfTheWeek function

Returns the day of the week for a given TDateTimeValue.

DayOfTheMonth function

Returns the day of the month from a given TDateTime value (from 1 to 31)

DayOfTheYear function

Returns the the ordinal position of a TDateTime value's day within its year.

DaySpan function

Gives the number of days (including fractional days) between two specified dates.

DaysBetween function

Gives the number of whole days between two specified dates.

DateOf function

Returns only the Date portion of the TDateTime value, by setting Time part to 0.

DecodeDate function

Separates Year, Month, and Day values from a TDateTime value.

DecodeTime procedure

Separates Hour, Minute, Second, and MilliSecond values from a TDateTime value.

EncodeDate function

Creates a TDateTime value from Year, Month, and Day values.

EncodeTime function

Creates a TDateTime value from Hour, Min, Sec, and MSec. values.

FormatDateTime function

Formats a TDateTime value to a string.

HourOf function

Returns the hour of the day represented by a TDateTime value.

IncDay function

Adds or subtracts a given number of days from a date value.

IncMonth function

Adds or subtracts a given number of months from a date value.

IsLeapYear function

Returns True if a year specified is a leap year.

IsPM function

Returns true if the time portion of a TDateTime value occurs on or after 12:00 (noon) and before 24:00 (midnight).

Now function

Returns the current system date and time.

Time function

Returns the current system time.

TimeToStr function

Converts a TDateTime value to a string (time part).

TimeOf function

Returns only the Time portion of the TDateTime value, by setting Date part to 0.

WithinPastDays function

Returns true if two dates are within a specified number of days of each other.

WithinPastYears function

Returns true if two dates are within a specified number of years of each other.

YearsBetween function

Gives the number of whole years between two specified dates.

6\Dialog and Message routines

CreateMessageDialog function

Returns a specified message dialog, does not display the dialog form.

InputBox function

Brings up an input dialog box ready for the user to enter a string in its edit box.

InputQuery function

Brings up an input dialog box ready for the user to enter a string in its edit box or to cancel the input.

PromptForFileName function

Displays an open or save dialog, enabling the user to select or specify a file name.

SelectDirectory function

Brings up a dialog box ready for the user to select a directory name.

ShowMessage procedure

Displays a message in a dialog box, waits for the user to click an OK button.

ShowMessageFmt procedure

Displays formatted message in a dialog box, waits for the user to click an OK button.

7\File Management Routines

DeleteFile function

Deletes a specified file.

DirectoryExists function

Returns True if a specified directory exists.

DiskFree function

Returns the amount of free space in bytes on a specified drive.

DiskSize function

Returns the size in bytes of a specified drive.

FileAge function

Returns the system time stamp of a file.

FileDateToDateTime function

Converts the system time stamp of a file to a TDateTime value

FileExists function

Checks whether a specified file exists.

FileGetAttr function

Retrieves the attributes of a specified file.

FileSetAttr function

Sets the attributes of a specified file.

FileSetReadOnly function

Sets the read-only status of the specified file.

ForceDirectories function

Creates all the folders along a given path.

GetCurrentDir function

Returns the name of the current directory.

GetDir function

Returns the name of the current directory for a specified drive.

RemoveDir function

Deletes an empty folder.

RenameFile function

Changes the name of a specified file.

SetCurrentDir function

Sets the current directory.

8\File Name Utilities

ChangeFileExt function

Changes the extension part of a string containing full path and file name.

ExcludeTrailingBackslash function

Removes '\' from the end of a string if it is there.

ExpandFileName function

Retrieves the full path and filename of a specified (relative) file.

ExpandUNCFileName function

Retrieves the full path and filename of a specified (relative) file using Universal Naming Convention for network files.

ExtractFileDir function

Returns only directory or drive information parts of a string containing full path and file name.

ExtractFileDrive function

Returns only drive part of a string containing full path and file name.

ExtractFileName function

Returns only file name and extension parts of a string containing full path and file name.

ExtractFileExt function

Returns the extension part of a string containing full path and file name.

ExtractFilePath function

Returns the drive and directory parts of a string containing full path and file name.

ExtractShortPathName function

Returns 8.3 format for a given full path and file name.

MinimizeName function

Returns a shortened version of a filename (using dots for folders) that fits into some pixel length.

IncludeTrailingBackslash function

Adds '\ ' to the end of a string if it is not already there.

IsPathDelimiter function

Returns true if a specified character in a string is the backslash (\) character.

MatchesMask function

Returns True is a string value matches a format specied by a mask.

ProcessPath procedure

Parses a full file name into its drive, path, and file name.

9\Flow control routines

Abort function

Terminates the current execution path without reporting an error.

Break procedure

Immediately exits the iteration in which it appears.

Continue procedure

Passes control to the next iteration of the enclosing iteration statement in which it appears.

Exit function

Exits the method in which it appears.

Halt function

Terminates a program abnormally.

Sleep function

Pauses program execution for a specified number of microseconds.

10\Floating point conversion routines

FloatToDateTime function

Returns a TDateTime value from a floating point value.

FloatToStr function

Returns a string from a floating point value.

FloatToStrE function

Returns a string from a floating point value, using a specified Format, Precision, and Digits.

FormatFloat function

Returns a string from a floating point value using the provided format string.

StrToFloat function

Returns a floating point value from a string.

11\Floating point conversion routines

FloatToDateTime function

Returns a TDateTime value from a floating point value.

FloatToStr function

Returns a string from a floating point value.

FloatToStrE function

Returns a string from a floating point value, using a specified Format, Precision, and Digits.

FormatFloat function

Returns a string from a floating point value using the provided format string.

StrToFloat function

Returns a floating point value from a string.

12\Geometric routines

CenterPoint function

Returns the point in the center of a rectangle.

IntersectRect function

Returns the intersection of two rectangles.

PtInRect function

Returns true if a specified point lies inside a specified rectangle.

UnionRect function

Returns the union of two rectangles.

13\Measurement Conversion Routines

DegToGrad function

Convert angles expressed in degrees to the value in grads.

GradToDeg function

Convert angles expressed in grads to to the value in degrees.

14\Miscellaneous routines

Assert function

Use Assert as a debugging tool to test that certain conditions are always True (as assumed)

Beep procedure

Generates a conventional message beep.

SizeOf function

Returns the number of bytes occupied by a variable or type.

Slice function

Returns a sub-section of an array.

15 \ Numeric formatting routines

CurrToStr function

Converts a currency value to a string.

FormatCurr function

Returns a string from a currency point value using the provided format string.

IntToHex function

Converts an integer to a string - hex representation.

IntToStr function

Converts an integer to a string.

16 \ Ordinal routines

Dec procedure

Decrements an ordinal value by N.

Inc procedure

Increments an ordinal value by N.

Odd function

Returns True if a given integer value is an odd number.

Ord function

Returns an Integer representing the ordinal value of an ordinal value.

Pred function

Returns the predecessor of the ordinal value.

Succ function

Returns the successor of the ordinal value.

17 \ Pointer and address routines

Addr function

Returns the address of a variable or routine.

Assigned function

Determines if the pointer or procedure referenced is not nil (assigned)

Ptr function

Converts a specified address to an untyped pointer.

18 \ Random number routines

Random function

Returns a randomly generated number within a specified range.

RandomFrom function

Returns an element at random position from an array.

Randomize procedure

Initializes the random number generator.

RandomRange function

Returns a random integer number from a given range.

19\Range Handling routines

EnsureRange function

Returns the closest value to a specified value within a specified range.

High function

Returns the upper limit of an Ordinal, Array, or ShortString value.

InRange function

Returns True if a Value falls into a specified range.

Low function

Returns the lower limit of an Ordinal, Array, or ShortString value.

MaxIntValue function

Returns the greatest value in an integer array.

MaxValue function

Returns the greatest value in an array holding real values.

MinIntValue function

Returns the smallest value in an integer array.

MinValue function

Returns the smallest value in an array holding real values.

20\Set Handling Routines

Include procedure

Adds an element to a set.

Exclude procedure

Removes an element to a set.

21\String handling routines

AdjustLineBreaks function

Returns the string with all line breaks converted to true CR/LF sequences.

Concat function

Concatenates two or more strings into a single string.

CompareStr function

Compares two strings.

CompareText function

Compares two strings without case sensitivity.

Copy function

Returns a substring of a string or a segment of a dynamic array.

Delete procedure

Removes a substring from a string.

DupeString function

Returns a string repeated a specified number of times.

ExtractStrings function

Fills a string list with substrings parsed from a delimited list.

Insert procedure

Inserts a substring into a string at a given position.

IsDelimiter function

Returns True if a specified character in a string matches one of a set of delimiters starting from some position.

LastDelimiter function

Returns the index of the last occurrence in a string of the characters specified.

LeftStr function

Returns a string containing a specified number of characters from the left side of a string.

Length function

Returns an integer containing the number of characters in a string or the number of elements in an array.

LowerCase function

Returns a string that has been converted to lowercase.

Pos function

Returns an integer specifying the position of the first occurrence of one string within another.

PosEx function

Returns an integer specifying the position of the first occurrence of one string within another, where the search starts at a specified position.

QuotedStr function

Returns the quoted version of a string.

ReverseString function

Returns a string in which the character order of a specified string is reversed.

RightStr function

Returns a string containing a specified number of characters from the right side of a string.

SetLength procedure

Changes the size of a dynamic array or a string.

SetString procedure

Sets the length and contents of a given string.

Str procedure

Formats a string from an integer or floating point variable.

StringOfChar function

Returns a string containing a repeating character string of the length specified.

StringReplace function

Returns a string in which a specified substring has been replaced with another substring.

Trim function

Returns a string containing a copy of a specified string without both leading and trailing spaces and control characters.

TrimLeft function

Returns a string containing a copy of a specified string without leading spaces and control characters.

TrimRight function

Returns a string containing a copy of a specified string without trailing spaces and control characters.

UpperCase function

Returns a string that has been converted to uppercase.

Val procedure

Converts a string to a numeric value.

WrapText function

Returns a string broken into multiple lines.

22\Text file routines

Erase procedure

Deletes a file.

23\Type conversion routines

BinToHex procedure

Converts a binary value to its hexadecimal representation.

BoolToStr function

Returns a string from a boolean value.

Bounds function

Returns the TRect type variable from a rectangle given with width and height.

HexToBin procedure

Converts a string of hexadecimal digits to its binary representation.

Point function

Returns the Point type variable from two integers.

Rect function

Returns the TRect type variable from a rectangle given with top-left and bottom-right coordinate.

StrToBool function

Returns a boolean from a string value, if *possible*.

StrToBoolDef function

Returns a boolean from a string value, on error returns "Default".

StrToInt function

Converts a string to an integer.

TryStrToBool function

Converts a string to a boolean value with a Boolean success code.

TryStrToInt function

Converts a string to an integer, returns False if string does not represent a valid number.