NBASIC Function Reference

Function	Description	Version
ABS(number)	Returns the absolute value of a number	
ACCESS(filename,mode)	Determines if a file is accessible in a given mode	
ACOS(number)	Returns the arccosine of a number	
ADJUST(time,seconds)	Adjusts a time value	
AFTER$(string,index)	Returns part of a string	standard version only
ALNUM(character)	Determines if a character is alphanumeric	
ALPHA(character)	Determines if a character is alphabetic	
ASC(character)	Returns the ordinal value of a character	
ASIN(number)	Returns the arcsine of a number	
ATN(number)	Returns the arctangent of a number	
ATTRIB$(filename)	Returns the read-only attribute of a file	
BEFORE$(string,index)	Returns part of a string	standard version only
BEGINSWITH(string1,string2)	Determines if a string begins with another string	Version 1.2 or later, standard version only
BIN$(number)	Returns a string representing the binary value of a number	
BREAK(string1,string2)	Returns the index of the first occurrence of any character from a string in another string	standard version only
BUFSIZ(file)	Returns the buffer length of an open file	Version 1.5 or later
CBR(number)	Returns the cube root of a number	
CBRT(number)	Returns the cube root of a number	
CDN(string)	Converts a decimal digit to a number	
CEIL(number)	Returns the ceiling of a number	
CENTER$(string,length[,pad])	Returns a string centered in a specified number of spaces	standard version only
CHANGE$(string1,string2,string3)	Changes each occurrence of a string within another string to another string	standard version only
CHARS$	Returns a string containing every character (&H00-&HFF)	standard version only
CHN(string)	Converts a hexadecimal digit to a number	
CHOOSE(index,number[,number]...)	Selects a number	standard version only
CHOOSE$(index,number[,number]...)	Selects a string	standard version only
CHR$(number)	Returns a string containing the character associated with a character code	
CHR$(number[,number]...)	Returns a string containing the character associated with a character code	Version 1.4 or later
CHRS$(number)	Returns a string containing the character associated with a character code	Version 1.4 or later
CLEAN$(string)	Removes all non-printable characters from a string	standard version only
CNTRL(character)	Determines if a character is a control character	
COLOR[(color)]	Returns the current text color	
COLUMN	Returns the column position of the cursor	
COMB(n,k)	Returns the number of combinations	
COMP(value1,value2)	Compares numbers or strings	Version 1.4 or later
COMPI(value1,value2)	Compares numbers or strings	Version 1.5.2 or later

COMPRESS$(string)	Trims spaces from the left and right of a string and compresses duplicate spaces to a single space	
COPYRIGHT$	Returns the copyright information	
COPYSIGN(number1,number2)	Returns one value with the sign of another	
COS(angle)	Returns the cosine of an angle	
COSH(angle)	Returns the hyperbolic cosine of an angle	
COT(angle)	Returns the cotangent of an angle	
COUNT(string1,string2)	Counts the occurrences of a string within another string	
CSC(angle)	Returns the cosecant of an angle	
CSPAN(string1,string2)	Returns the length of a substring beginning a string not containing characters in another string	standard version only
CSRLIN	Returns the row position of the cursor	
CTIME$(time)	Returns a string containing the date and time of a time value	
CTRL$	Returns the CTRL key	Version 1.2 or later
CUBE(number)	Returns the cube of a number	
CVN(string)	Converts a binary string to a number	
DATE	Returns the current date as a number in the form YYYYDDD	
DATE$[(time)]	Returns the date as a string in the form MM-DD-YYYY	
DAY(time)	Returns the day of the month from a time value	
DAYNAME$(day[,format])	Returns the day name from a time value	
DEBUG	Determines if debug mode is on or off	standard version only
DEC(string[,base])	Converts a string to a number	
DEFAULT(volume)	Determines if a volume is the default	
DEG(radians)	Converts radians to degrees	
DELETE$(string,index,length)	Deletes part of a string	standard version only
DIGIT(character)	Determines if a character is numeric digit	
DOLLAR$(amount[,decimals])	Formats a number as currency	standard version only
DTR(degrees)	Converts degrees to radians	
EDIT$(length,string)	Returns the result of editing a string	standard version only
EMPTY(expression)	Checks for 0 or empty string	Version 1.4 or later
ENCLOSE$(string[,quotes])	Encloses a string	Version 1.4 or later
ENDSWITH(string1,string2)	Determines if a string ends with another string	Version 1.2 or later, standard version only
EOF(file)	Returns the end of file status of an open file	
ERL	Returns the number of the line where the last error occurred	
ERLIN	Returns the number of the line where the last error occurred	Version 1.5 or later
ERN	Returns the error number of the last error to occur	
ERNO	Returns the error number of the last error to occur	Version 1.5 or later
ERR	Returns the error number of the last error to occur	
ERR$(error)	Returns the description of an error code	
ESC$	Returns the ESCAPE character (decimal 27)	
EVAL(expression)	Evaluates an expression and returns the result	standard version only
EVEN(number)	Determines if a number is even	standard version only
EXISTS(filename)	Determines if a file exists	
EXP(number)	Returns the natural exponential of a number	

EXP2(number)	Returns the base 2 exponential of a number	
EXP10(number)	Returns the base 10 exponential of a number	
EXTRACT$(string1,string2)	Returns part of a string before the first occurrence of another string	standard version only
FACT(number)	Calculates the factorial of a number	standard version only
FALSE	Returns false (0)	
FILE$(filespec,control)	Enumerates files on a volume	
FILEINFO$(filespec)	Returns file information	standard version only
FILEMODE(file)	Returns the mode of an open file	
FILEMODE$(file)	Returns the mode of an open file	
FILENAME$(file)	Returns the file name of an open file	
FIND(string,character[,index])	Finds the position of a character within a string	standard version only
FINDONEOF(string1,string2)	Returns the index of the first occurrence of any character from a string in another string	standard version only
FIX(number)	Returns the integer or whole part of a number	
FLOOR(number)	Returns the floor of a number	
FN function[(argumentlist)]	Calls a user-defined function and returns the result	
FONT	Returns the current text font size	
FP(number)	Returns the fractional part of a number	
FRE(expression)	Returns the amount of free memory or string space	
FREE(volume)	Returns the amount of free space on a volume	
FREEFILE	Returns the next free file number	
FULLNAME$(filename[,extension])	Returns the full file name of a file	
GET$	Inputs a single character from the keyboard	
GETALNUM$	Inputs a single alphanumeric character from the keyboard	standard version only
GETALPHA$	Inputs a single alphabetic character from the keyboard	standard version only
GETDIGIT$	Inputs a single numeric character from the keyboard	standard version only
GETYN$	Inputs a single Y or N character from the keyboard	standard version only
HEX(character)	Determines if a character is a hexadecimal digit	
HEX$(number)	Returns a string representing the hexadecimal value of a number	
HOUR(time)	Returns the hour from a time value	
HPOINT(x,y)	Returns the color of a graphics pixel	Version 1.5 or later, standard version only
HYPOT(a,b)	Returns the hypotenuse	
IIF(condition,number1,number2)	Returns a number based on a condition	standard version only
IIF$(condition,string1,string2)	Returns a string based on a condition	standard version only
INKEY$	Returns a string corresponding to a key press	
INPUT$(length[,file])	Reads input from the keyboard or a file	
INSERT$(string1,index,string2)	Inserts a string into another string	standard version only
INSTR([start,]string1,string2)	Returns the position of the first occurrence of a string within another string	
INSTRREV(string1,string2[,start])	Returns the position of the first occurrence of a string within another string from the end	
INT(number)	Returns the floor of a number	
INV(number)	Returns the inverse of a number	
INYN$	Returns a string corresponding to a key press	standard version only

IP(number)	Returns the integer or whole part of a number	
IS0(number,number)	Replaces 0 with the specified value	Version 1.1 or later
ISEMPTY$(string,string)	Replaces an empty string with the specified value	Version 1.1 or later
ISNEG(number,number)	Replaces a negative value with the specified value	Version 1.2 or later
ISPOS(number,number)	Replaces a positive value with the specified value	Version 1.2 or later
LBOUND(array[,dimension])	Returns the lower bound (index) of a dimension in an array variable	Version 1.2 or later
LCASE$(string)	Converts a string to lower case	
LEAPYEAR(year)	Determines if a year is a leap year	
LEFT$(string[,length])	Returns the specified number of leftmost characters in a string	
LEN(string)	Returns the length of a string	
LOC(file)	Returns the location of the file pointer of an open file	
LOF(file)	Returns the length of an open file	
LOG(number)	Returns the natural logarithm of a number	
LOG$	Returns the file name of the log file if open	standard version only
LOG2(number)	Returns the base 2 logarithm of a number	
LOG10(number)	Returns the base 10 logarithm of a number	
LOWER(character)	Determines if a character is lowercase	
LOWER$(string)	Converts a string to lower case	
LPAD$(string,length[,pad])	Pads a string on the left	standard version only
LPOS	Returns the current print position	Version 1.1 or later, standard version only
LSET$(string,length[,pad])	Left justifies a string	Version 1.4 or later, standard version only
LTRIM$(string)	Trims spaces from the left of a string	
LTRIM$(string[,character])	Trims spaces or another character from the left of a string	Version 1.4 or later
MAKENAME$([volume],name[,[extension][,replace]])	Makes a filename	standard version only
MAPPED(volume)	Determines if a volume is mapped (exists)	
MATCH([start,]string1,string2)	Returns the position of the first occurrence of a string within another string	Version 1.5 or later
MAX(number,number)	Returns the maximum of two numbers	
MAX(number[,number]...)	Returns the maximum of two or more numbers	Version 1.4 or later
MAXLEN(variable)	Returns the maximum length of a string variable	
MAXNUM	Returns the largest finite positive number	
MAXSIZE(array)	Returns the total number of elements of all dimensions in an array variable	Version 1.2 or later
MEM	Returns the amount of free memory	
MID$(string,index[,length])	Returns part of a string	
MIN(number,number)	Returns the minimum of two numbers	
MIN(number[,number]...)	Returns the minimum of two or more numbers	Version 1.4 or later
MINNUM	Returns the smallest finite positive number	
MINUTE(time)	Returns the minute from a time value	
MKKEY$(key[,[control][,shift]])	Creates a string representing a key	
MKN$(number)	Converts a number to a binary string	
MKTIME(year,month,day[,hour[,minute[,second]]])	Creates a time value	
MOD(number,number)	Returns the modulus of two numbers	
MONTH(time)	Returns the month from a time value	

MONTHNAME$(month[,format])	Returns the month name from a time value	
NOW	Returns the current time value	
NUL$	Returns the NULL character (decimal 0)	
OCT$(number)	Returns a string representing the octal value of a number	
ODD(number)	Determines if a number is odd	standard version only
OPEN(file)	Determines if a file or the printer is open	
ORD(character)	Returns the ordinal value of a character	
PCOL(column)	Returns the graphics coordinate of a text column	Version 1.5.2 or later, standard version only
PEEK(address)	Returns the value at a memory location	
PERM(n,k)	Returns the number of permutations	
PFONT	Returns the current graphics font size	standard version only
PI	Returns the value of Pi (π)	
POINT(x,y)	Returns the color of a graphics pixel	standard version only
POS[(position)]	Returns the current position of the cursor	
PPOINT(x,y)	Returns the color of a graphics pixel	standard version only
PRINT(character)	Determines if a character is a printable character	
PRINTER$	Returns the name of the current printer	Version 1.1 or later, standard version only
PROMPT$	Returns the prompt	standard version only
PROPER$(string)	Capitalizes a string	standard version only
PROW(row)	Returns the graphics coordinate of a text row	standard version only
PSCRH	Returns the height (pixels) of the graphics screen	standard version only
PSCRW	Returns the width (pixels) of the graphics screen	standard version only
QUOTE$(string[,quotes])	Quotes a string	
RAD(degrees)	Converts degrees to radians	
RCP(number)	Returns the inverse of a number	
READONLY(volume)	Determines if a volume is read-only	
REC(file)	Returns the number of records in an open random access file	
REMAIN$(string1,string2)	Returns part of a string after the first occurrence of another string	standard version only
REMAINDER(number1,number2)	Returns the remainder of dividing one number by another number	
REMOVE$(string1,string2)	Removes each occurrence of a string from another string	standard version only
REPEAT$(string,repeat)	Returns a string repeated a specified number of times	
REPLACE$(string1,index,string2)	Replaces part of a string with another string	standard version only
RET$	Returns the CARRIAGE RETURN character (decimal 13)	
REVERSE$(string)	Reverses a string	
RFIND(string,character[,index])	Finds the position of a character within a string	standard version only
RIGHT$(string[,length])	Returns the specified number of rightmost characters in a string	
RND(number)	Returns a random number	
ROUND(number,digits)	Rounds a number	
ROW	Returns the row position of the cursor	
RPAD$(string,length[,pad])	Pads a string on the right	standard version only
RSET$(string,length[,pad])	Right justifies a string	Version 1.4 or later, standard version only
RTD(radians)	Converts radians to degrees	
RTRIM$(string)	Trims spaces from the right of a string	

RTRIM$(string[,character])	Trims spaces or another character from the right of a string	Version 1.4 or later
SADD(variable)	Returns the address of a string variable	Version 1.5 or later
SCREEN(row,column,columns,rows[,[foreground] [,background]])	Saves the screen	Version 1.4 or later
SCRH	Returns the height (rows) of the screen	
SCRN(x,y)	Returns the color of a graphics pixel	Version 1.4 or later, standard version only
SCRW	Returns the width (columns) of the screen	
SEC(angle)	Returns the secant of an angle	
SECOND(time)	Returns the second from a time value	
SEG$(string,index[,length])	Returns part of a string	Version 1.4 or later
SELECT(character-set)	Changes the character set	Version 1.3 or later
SET$(string1,string2)	Sets characters in a string to a character	
SGN(number)	Returns the sign of a number	
SHIFT$	Returns the SHIFT key	Version 1.2 or later
SIN(angle)	Returns the sine of an angle	
SINH(angle)	Returns the hyperbolic sine of a number	
SIZE(array[,dimension])	Returns the number of elements of a dimension in an array variable	Version 1.2 or later
SPACE$(spaces)	Returns a string containing a specified number of spaces	
SPAN(string1,string2)	Returns the length of a substring beginning a string containing characters in another string	standard version only
SPLITNAME$(filename[,part])	Returns part of a file name.	Version 1.1 or later
SQR(number)	Returns the square root of a number	
SQRT(number)	Returns the square root of a number	
SQUEEZE$(string)	Trims spaces from the left and right of a string and compresses duplicate spaces to a single space	Version 1.4 or later
STR$(number)	Returns a string representing the decimal value of a number	
STRING$(character,length)	Returns a string of a specified number of characters	
SWITCH(condition,number[,condition,number]...)	Selects a number	standard version only
SWITCH$(condition,string[,condition,string]...)	Selects a string	standard version only
TAN(angle)	Returns the tangent of an angle	
TANH(angle)	Returns the hyperbolic tangent of an angle	
TEMPNAME$(volume,extension)	Returns a unique temporary file name for a specified volume	
TIME	Returns the number of seconds since midnight	
TIME$[(time)]	Returns the current time as a string in the form HH:MM:SS	
TIMER	Returns the value of the timer	
TRIM$(string)	Trims spaces from the left and right of a string	
TRIM$(string[,character])	Trims spaces or another character from the left and right of a string	Version 1.4 or later
TRUE	Returns true (-1)	
TRUNCATE(number,digits)	Truncates a number	
TWOPI	Returns the value of 2 * Pi (π)	
UBOUND(array[,dimension])	Returns the upper bound (index) of a dimension in an array variable	Version 1.2 or later
UCASE$(string)	Converts a string to upper case	
UPPER(character)	Determines if a character is uppercase	
UPPER$(string)	Converts a string to upper case	

USING$(format,expression[,expression]...)	Formats values	
VAL(string)	Converts a string to a number	
VARPTR(variable)	Returns the address of a variable	Version 1.4 or later
VARPTR$(variable)	Returns the address of a variable	Version 1.4 or later
VER$	Returns the version number information	
VERIFY(filename)	Verifies a file name	
VOLINFO$(volume)	Returns volume information	standard version only
VOLUME$[(control)]	Returns the default volume or enumerates mapped volumes	
VOLUMES	Returns the number of mapped volumes	
WAITKEY$	Returns a string corresponding to a key press	standard version only
WEEKDAY(time)	Returns the weekday from a time value	
YEAR(time)	Returns the year from a time value	