

# Task Factory Functions List F

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🔔 Task Factory users running version 2020.1.4 or older (released prior to May 27, 2020): **There's an important Task Factory update.** Please visit [here](#) for more details.

## FileAppendAllText

Description	Append text to the end of a file contents.	
Syntax	FileAppendAllText( Path, Text [, Encoding])	
Returns	Boolean. If the path does not exist, null is returned.	
Parameters		
Name	Optional	Description
Path	false	The path where the file is located.
Text	false	Text to append to file contents.
Encoding	true	Encoding to use to write to file. Choices are ASCII, UNICODE, UTF7, UTF8, UTF32 or Default.
Examples		
FileAppendAllText("C:\ssis\test.xml", "Wrox Professional SSIS 2012")		

## FileChangeExtension

Description	Changes the file extension from one to another.
Syntax	FileChangeExtension( Path, New_Extension )
Returns	String. The path to the file with the new extension.

Parameters		
Name	Optional	Description
Path	false	The path to the file.
New_Extension	false	The new extension of the file with or without the period. Pass in null to remove the extension.
Examples		
FileChangeExtension("C:\ssis\test.xml", "txt")		

FileCombinePath		
Description	Combines the path of files together. It handles all of the checking for slashes and adds or removes them.	
Syntax	FileCombinePath( Path1, Path2 )	
Returns	String. The combination of path1 and path2 with all slashes added or removed.	
Parameters		
Name	Optional	Description
Path1	false	The first part of the path.
Path2	false	The second part of the path.
Examples		
FileCombinePath("C:\ssis", "test.xml")		

FileCopy	
Description	Copy a file from one location to another .
Syntax	FileCopy( Source, Destination [, Overwrite])

Returns	Boolean. If the copy succeeds. Null of either parameter is null or either the source file doesn't exist.	
<b>FileCopy</b>		
Parameters		
Name	Optional	Description
Source	false	The source path file path.
Destination	false	The destination file path.
Overwrite	false	Overwrite the existing file?.
Examples		
FileCopy("C:\ssis\test.xml", "C:\ssis\processedfiles\test.xml")		

<b>FileDelete</b>		
Description	Delete a file in the path supplied.	
Syntax	FileDelete( Path )	
Returns	Boolean. True if the file was removed. False if it was not or path parameter is null	
Parameters		
Name	Optional	Description
Path	false	The path where the file will be removed from.
Examples		
FileDelete("C:\ssis\test")		

<b>FileExists</b>		
Description	Check if the file exists in the path supplied.	
Syntax	FileExists( Path )	

Returns	Boolean. True if the file exists. False if it does not or path parameter is null	
<b>FileExists</b>		
Parameters		
Name	Optional	Description
Path	false	The path where the file is located.
Examples		
FileExists("C:\ssis\test.xml")		

<b>FileGetCreationTime</b>		
Description	Return the creation time of the file.	
Syntax	FileGetCreationTime( Path )	
Returns	DateTime. If the path does not exist, the minimum date for your system is returned.	
Parameters		
Name	Optional	Description
Path	false	The path where the file is located.
Examples		
FileGetCreationTime("C:\ssis\test.xml")		

<b>FileGetDirectoryName</b>		
Description	Get the directory of a file path.	
Syntax	FileGetDirectoryName( Path )	
Returns	String	
Parameters		

Name	Optional	Description
Path	false	The path to the file.
Examples		
FileGetDirectoryName("C:\ssis\test.xml")		

## FileGetExtension

Description	Get the extension of a file.	
Syntax	FileGetExtension( Path )	
Returns	String	
Parameters		
Name	Optional	Description
Path	false	The path to the file.
Examples		
FileGetExtension("C:\ssis\test.xml")		

## FileGetFullPath

Description	Get the full path to a file.	
Syntax	FileGetFullPath( Path )	
Returns	String	
Parameters		
Name	Optional	Description
Path	false	The path to the file.
Examples		

```
FileGetFullPath("C:\ssis\test.xml")
```

## FileGetFullPath

## FileGetLastAccessTime

Description	Return the time the file was last accessed.	
Syntax	FileGetLastAccessTime( Path )	
Returns	DateTime. If the path does not exist, the minimum date for your system is returned.	
Parameters		
Name	Optional	Description
Path	false	The path where the file is located.
Examples		
FileGetLastAccessTime("C:\ssis\test.xml")		

## FileGetLastWriteTime

Description	Return the time the file was last written to.	
Syntax	FileGetLastWriteTime( Path )	
Returns	DateTime. If the path does not exist, the minimum date for your system is returned.	
Parameters		
Name	Optional	Description
Path	false	The path where the file is located.
Examples		
FileGetLastWriteTime("C:\ssis\test.xml")		

## FileGetName

Description	Get the name of file from a file path.	
Syntax	FileGetName( Path )	
Returns	String	
Parameters		
Name	Optional	Description
Path	false	The path to the file.
Examples		
FileGetName("C:\ssis\test.xml")		

## FileGetNameWithoutExtension

Description	Get the extension of file from a file path.	
Syntax	FileGetNameWithoutExtension( Path )	
Returns	String	
Parameters		
Name	Optional	Description
Path	false	The path to the file.
Examples		
FileGetNameWithoutExtension("C:\ssis\test.xml")		

## FileGetRandomFileName

	Get a random file name
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Description	without a path
Syntax	<code>FileGetRandomFileName()</code>
Returns	String
Examples	
<code>FileGetRandomFileName()</code>	

## FileGetTempFileName

Description	Get the name of a temporary file with a path to the temporary directory.
Syntax	<code>FileGetTempFileName()</code>
Returns	String
Examples	
<code>FileGetTempFileName()</code>	

## FileGetTempPath

Description	Get the path to the temporary files directory.
Syntax	<code>FileGetTempPath()</code>
Returns	String
Examples	
<code>FileGetTempPath()</code>	

## FileHasExtension

Description	Determine whether a file has an extension.
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Syntax	FileHasExtension( Path )	
Returns	<b>FileHasExtension</b> Boolean	
Parameters		
Name	Optional	Description
Path	false	The path to the file.
Examples		
FileHasExtension("C:\ssis\test"), FileHasExtension("C:\ssis\test.xml")		

<h2>FileInUse</h2>		
Description	Check if the file is in use for the path supplied.	
Syntax	FileInUse( Path )	
Returns	Boolean. True if the file is in use. False if it is not in use or path parameter is null	
Parameters		
Name	Optional	Description
Path	false	The path where the file is located.
Examples		
FileInUse("C:\ssis\test.xml")		

<h2>FileIsPathRooted</h2>		
Description	Gets a value indicating whether the specified path string contains a root.	
Syntax	FileIsPathRooted( Path )	
Returns	Boolean	

Parameters		
Name	Optional	Description
path	false	The path to the file.
Examples		
FileIsPathRooted("C:\ssis\test"), FileIsPathRooted("test.xml")		

## FileMove

Description	Move a file from one location to another.	
Syntax	FileMove( Source, Destination)	
Returns	Boolean. If the move succeeds. Null of either parameter is null or either the source file doesn't exist.	
Parameters		
Name	Optional	Description
Source	false	The source path file path.
Destination	false	The destination file path.
Examples		
FileMove("C:\ssis\test.xml", "C:\ssis\processedfiles\test.xml")		

## FileOrDirectoryGetPathRoot

Description	Get the root path to a file.	
Syntax	FileOrDirectoryGetPathRoot( Path )	
Returns	String	
Parameters		

Name	Optional	Description
Path	false	The path to the file.
Examples		
FileOrDirectoryGetPathRoot("C:\ssis\test.xml"), FileOrDirectoryGetPathRoot("C:\ssis\test\")		

## FileReadAllBytes

Description	Return the bytes from a specified file.	
Syntax	FileReadAllBytes( Path )	
Returns	Byte Array. If the path does not exist, null is returned.	
Parameters		
Name	Optional	Description
Path	false	The path where the file is located.
Examples		
FileReadAllBytes("C:\ssis\test.xml")		

## FileReadAllText

Description	Return the text from a specified file.	
Syntax	FileReadAllText( Path )	
Returns	String. If the path does not exist, null is returned.	
Parameters		
Name	Optional	Description
Path	false	The path where the file is located.

## Examples

```
FileReadAllText("C:\ssis\test.xml") FileReadAllText
```

## FileReplace

### Description

Copy a file from one location to another and create a backup of the destination .

### Syntax

```
FileReplace( Source, Destination, Backup_Destination )
```

### Returns

Boolean. If the copy succeeds. Null of either parameter is null or either the source file doesn't exist.

### Parameters

Name	Optional	Description
Source	false	The source path file path.
Destination	false	The destination file path.
Backup_Destination	false	The path where the backup file will be created.

### Examples

```
FileReplace("C:\ssis\test.xml", "C:\ssis\processedfiles\test.xml", "C:\ssis\processedfiles\backup\test.xml")
```

## FileSetCreationTime

### Description

Set the time the file was created.

### Syntax

```
FileSetCreationTime( Path, Date_Created )
```

### Returns

Boolean. True if the value is set. False if either parameter is null.

### Parameters

Name	Optional	Description
Path	false	The path where the file is located.

Date_Created	false	The date the file was created.
<b>FileSetCreationTime</b>		
Examples		
FileSetCreationTime("C:\ssis\test.xml", "7/6/2012 14:24")		

<b>FileSetLastAccessTime</b>		
Description	Set the time the file was last accessed.	
Syntax	FileSetLastAccessTime( Path, Date_Last_Access )	
Returns	Boolean. True if the value is set. False if either parameter is null.	
Parameters		
Name	Optional	Description
Path	false	The path where the file is located.
Date_Last_Access	false	The date the file was last accessed.
Examples		
FileSetLastAccessTime("C:\ssis\test.xml", "7/6/2012 14:24")		

<b>FileSetLastWriteTime</b>		
Description	Set the time the file was written to accessed.	
Syntax	FileSetLastWriteTime( Path, Date_Last_Written )	
Returns	Boolean. True if the value is set. False if either parameter is null.	
Parameters		
Name	Optional	Description
Path	false	The path where the file is located.

Date_Last_Written	false	The date the file was last written to.
<b>FileSetLastWriteTime</b>		
Examples		
FileSetLastWriteTime("C:\ssis\test.xml", "7/6/2012 14:24")		

<b>FileWriteAllBytes</b>		
Description	Write bytes to the file contents.	
Syntax	FileWriteAllBytes( Path, Bytes [, Encoding])	
Returns	Boolean. If the path does not exist, null is returned.	
Parameters		
Name	Optional	Description
Path	false	The path where the file is located.
Bytes	false	Bytes to write to the file.
Encoding	true	Encoding to use to write to file. Choices are ASCII, UNICODE, UTF7, UTF8, UTF32 or Default.
Examples		
FileWriteAllBytes("C:\ssis\test.xml", varBytes, "UTF8")		

<b>FileWriteAllText</b>		
Description	Write text to the file contents.	
Syntax	FileWriteAllText( Path, Text [, Encoding])	
Returns	Boolean. If the path does not exist, null is returned.	
Parameters		

Name	Optional	Description
Path	<b>FileWriteAllText</b>	The path where the file is located.
Text	false	Text to write to the file.
Encoding	true	Encoding to use to write to file. Choices are ASCII, UNICODE, UTF7, UTF8, UTF32 or Default.
Examples		
FileWriteAllText("C:\ssis\test.xml", "Wrox Professional SSIS 2012")		

First		
Description	Aggregation that returns the first value of the group. Can only be used as part of the Advanced Aggregation component	
Syntax	First( Value [, Condition])	
Returns	Object.	
Parameters		
Name	Optional	Description
Value	false	The value to add to the aggregation
Condition	false	The condition allows you to conditionally add values to the aggregation based on the expression. For instance, you could define the aggregate as First(SalesTotal, CustomerState="FL") and this would only add the value to the aggregation if the customers state was florida.
Examples		
First(SalesTotal), First(SalesTotal, CustomerState="FL")		

## FirstDate

Description	Returns the first day of a specified month.	
Syntax	FirstDate(), FirstDate( Date )	
Returns	returns date	
Parameters		
Name	Optional	Description
Date	false	Date to retrieve value from
Examples		
FirstDate(), FirstDate("12/8/2011"), FirstDate(varDate), FirstDate(OrderDateColumn)		

## FirstDateOfNextMonth

Description	Returns the first day of a next month.	
Syntax	FirstDateOfNextMonth(), FirstDateOfNextMonth( Date )	
Returns	returns date	
Parameters		
Name	Optional	Description
Date	false	Date to retrieve value from
Examples		
FirstDateOfNextMonth(), FirstDateOfNextMonth("12/8/2011"), FirstDateOfNextMonth(varDate), FirstDateOfNextMonth(OrderDateColumn)		

## Floor

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Description	Returns the largest integer less than or equal to the numeric value you pass to this function. For example, if you pass 3.14 to FLOOR, the function returns 3. If you pass 3.98 to FLOOR, the function returns 3. Likewise, if you pass -3.17 to FLOOR, the function returns -4.	
Syntax	FLOOR( Numeric_Value )	
Returns	Integer if you pass a numeric value with declared precision between 0 and 28. Double if you pass a numeric value with declared precision greater than 28. NULL if a value passed to the function is NULL.	
Parameters		
Name	Optional	Description
Numeric_Value	false	Numeric datatype. You can enter any valid task editor as long as it evaluates to numeric data.
Examples		
example goes here		

## FormatCurrency

Description	Returns an expression formatted as currency	
Syntax	FormatCurrency( Expression [, Digits_After_Decimal] [, Include_Leading_Digit] [, Use_Parens_For_Negative_Numbers] [, Group_Digits])	
Returns	String. Returns an expression formatted as a currency.	
Parameters		
Name	Optional	Description
Expression	false	Expression to be formatted.
Digits_After_Decimal	false	Numeric value indicating how many places are displayed to the right of the decimal. The default value is -1, which indicates that the computer's regional settings are used.

Include_Leading_Digit	false	Indicates whether a leading 0 is displayed for fractional values. Values are 0 for False, -1 for True
Use_Parens_For_Negative_Numbers	false	Indicates whether to place negative values within parentheses. Values are 0 for False, -1 for True
Group_Digits	false	Indicates whether or not numbers are grouped using the group delimiter specified in the locale settings. Values are 0 for False, -1 for True
Examples		
FormatCurrency("4589.932", 2)		

## FormatDateTime

Description	Returns an expression formatted as a date	
Syntax	FormatDateTime( Expression [, Date_Format] )	
Returns	String. Returns an expression formatted as a date.	
Parameters		
Name	Optional	Description
Expression	false	Date expression to be formatted.
Date_Format	false	Numeric value that indicates the date/time format used. If omitted, DateFormat.GeneralDate is used. Values are General Date = 0 Long Date = 1 Short Date = 2 Long Time = 3 Short Time = 4
Examples		
FormatDateTime(GetDate(), 2)		

## FormatNumber

Description	Returns an expression formatted as a number	
Syntax	FormatNumber( Expression [, Digits_After_Decimal] [, Include_Leading_Digit] [, Use_Parens_For_Negative_Numbers] [, Group_Digits])	
Returns	String. Returns an expression formatted as a number.	
Parameters		
Name	Optional	Description
Expression	false	Expression to be formatted.
Digits_After_Decimal	false	Numeric value indicating how many places are displayed to the right of the decimal. The default value is -1, which indicates that the computer's regional settings are used.
Include_Leading_Digit	false	Indicates whether a leading 0 is displayed for fractional values. Values are 0 for False, -1 for True
Use_Parens_For_Negative_Numbers	false	Indicates whether to place negative values within parentheses. Values are 0 for False, -1 for True
Group_Digits	false	Indicates whether or not numbers are grouped using the group delimiter specified in the locale settings. Values are 0 for False, -1 for True
Examples		
FormatNumber("4589.932", 2)		

## FormatPercent

Description	Returns an expression formatted as a percentage.
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Syntax	FormatPercent( Expression [, Digits_After_Decimal] [, Include_Leading_Digit] [, Use_Parens_For_Negative_Numbers] [, Group_Digits])	
Returns	String. Returns an expression formatted as a percentage.	
Parameters		
Name	Optional	Description
Expression	false	Expression to be formatted.
Digits_After_Decimal	false	Numeric value indicating how many places are displayed to the right of the decimal. The default value is -1, which indicates that the computer's regional settings are used.
Include_Leading_Digit	false	Indicates whether a leading 0 is displayed for fractional values. Values are 0 for False, -1 for True
Use_Parens_For_Negative_Numbers	false	Indicates whether to place negative values within parentheses. Values are 0 for False, -1 for True
Group_Digits	false	Indicates whether or not numbers are grouped using the group delimiter specified in the locale settings. Values are 0 for False, -1 for True
Examples		
FormatPercent("4589.932", 2)		

## FV

Description	Returns the future value of an investment, where you make periodic, constant payments and the investment earns a constant interest rate.
Syntax	FV( Rate, Terms, Payment [, Present_Value] [, Type] )
Returns	Numeric.
Parameters	

Name	Optional	Description
	<b>FV</b>	
Rate	false	Numeric. Interest rate earned in each period. Expressed as a decimal number. Divide the percent rate by 100 to express it as a decimal number. Must be greater than or equal to 0.
Terms	false	Numeric. Number of periods or payments. Must be greater than 0.
Payment	false	Numeric. Payment amount due per period. Must be a negative number.
Present_Value	true	Numeric. Current value of the investment. If you omit this argument, FV uses 0.
Type	true	Integer. Timing of the payment. Enter 1 if payment is at the beginning of period. Enter 0 if payment is at the end of period. Default is 0. If you enter a value other than 0 or 1, the Integration Service treats the value as 1.

#### Examples

FV(Ratevar, Termvar, Paymentvar), FV(3.25, 36, 125.50, 1200, 1)