

1 System.IO.Path Class

```
2 [ILAsm]  
3 .class public sealed Path extends System.Object  
  
4 [C#]  
5 public sealed class Path
```

6 Assembly Info:

- 7 • *Name*: mscorlib
- 8 • *Public Key*: [00 00 00 00 00 00 00 00 04 00 00 00 00 00 00 00]
- 9 • *Version*: 2.0.x.x
- 10 • *Attributes*:
 - 11 ○ CLSCompliantAttribute(true)

12 Summary

13 Performs operations on `System.String` instances that contain file or directory path
14 information.

15 Inherits From: System.Object

16

17 **Library:** BCL

18

19 **Thread Safety:** All public static members of this type are safe for multithreaded operations.
20 No instance members are guaranteed to be thread safe.

21

22 Description

23 A path is a string that provides the location of a file or directory. A path does not
24 necessarily point to a location on disk; for example, a path might map to a location in
25 memory or on a device. Paths are composed of the components described below.
26 Component names are shown in *italics* and the following table describes the symbols
27 used in component definitions:

Symbol	Description
< >	Indicates a path component.
{ }	Indicates a grouping; either all components in a grouping are present, or none are permitted to be present.
*	Indicates that the component or grouping that immediately precedes this symbol can appear zero, one, or multiple times.

?	Indicates that the component or grouping that immediately precedes this symbol can appear zero, or one times.
+	Indicates string concatenation.

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The components that define a path are as follows:

Directory Name: A string that specifies one or more directory levels in a file system. If a directory name contains multiple levels, a *directory separator character* separates the levels; however, a directory name does not begin or end with a directory separator character. In the example path `C:/foo/bar/bat.txt`, the directory name is "foo/bar". `System.IO.Path.GetDirectoryName` returns the directory name component of a path. Note that this method does include a beginning separator character if one is included in the specified path.

Directory Separator Character: An implementation-specific constant string containing a single printable non-alphanumeric character used to separate levels in a file system. In the example path `C:/foo/bar/bat.txt`, the directory separator character is "/". The `System.IO.Path.DirectorySeparatorChar` and `System.IO.Path.AltDirectorySeparatorChar` store implementation-specific directory separator characters.

Extension: A string that consists of the characters at the end of a file name, from and including the last *extension separator character*. The minimum and maximum lengths of extension components are implementation-specific. In the example path `C:/foo/bar/bat.txt`, the *extension* is ".txt". The `System.IO.Path.GetExtension` method returns the extension component of a path.

Extension Separator Character: An implementation-specific constant string composed of a single character that appears after the last character in the *file base* component indicating the beginning of the *extension* component. If the extension separator character is the first character in a *file name*, it is not interpreted as an extension separator character. If more than one extension separator character appears in a file name, only the last occurrence is the extension separator character; all other occurrences are part of the file base component. In the example path `C:/foo/bar/bat.txt`, the extension separator character is ".".

File Base: A string containing the *filename* with the *extension* component removed. In the example path `C:/foo/bar/bat.txt`, the file base is "bat". The `System.IO.Path.GetFileNameWithoutExtension` method returns the file base component of a path.

File Name: A string containing all information required to uniquely identify a file within a directory. This component is defined as follows:

```
<file base>{+<extension>}?
```

The file name component is commonly referred to as a relative file name. In the example path `C:/foo/bar/bat.txt`, the file name is "bat.txt". The

1 `System.IO.Path.GetFileName` method returns the file name component of a path.

2
3 *Full Directory Name:* A string containing all information required to uniquely identify a
4 directory within a file system. This component is defined as follows:

5
6 `<path root>+<directory name>`

7
8 The full directory name component is commonly referred to as the absolute directory
9 name. In the example path `C:/foo/bar/bat.txt`, the full directory name is
10 `"C:/foo/bar "`.

11
12 *FullPath:* A string containing all information required to uniquely identify a file within a
13 file system. This component is defined as follows:

14
15 `<full directory name>+<directory separator character>+<file name>`

16
17 The full path component is commonly referred to as the absolute file name. In the
18 example path `C:/foo/bar/bat.txt`, the full path is `"C:/foo/bar/bat.txt"`. The
19 `System.IO.Path.GetFullPath` method returns the full path component.

20
21 *Path Root:* A string containing all information required to uniquely identify the highest
22 level in a file system. The component is defined as follows:

23
24 `{<volume identifier>+<volume separator character>}?+<directory separator
25 character>`

26
27 In the example path `C:/foo/bar/bat.txt`, the path root is `"C:/"`. The
28 `System.IO.Path.GetPathRoot` method returns the *path root* component.

29
30 *VolumeIdentifier:* A string composed of a single alphabetic character that uniquely
31 defines a drive or volume in a file system. This component is optional; on systems that
32 do not support volume identifiers, this component is required to be a zero length string.
33 In the example path `C:/foo/bar/bat.txt`, the path root is `"C:"`. In the example path,
34 `\\myserver\myshare\foo\bar\baz.txt` the path root is `"\\myserver\myshare"`.

35
36 *Volume Separator Character:* A string composed of a single alphabetic character used to
37 separate the *volumeidentifier* from other components in a path. This component can
38 appear in a path only if a volume identifier is present. This component is optional; on
39 systems that do not support the volume identifier component, the volume separator
40 character component is required to be a zero length string.

41
42 The exact format of a path is determined by the current platform. For example, on
43 Windows systems a path can start with a volume identifier, while this element is not
44 present in Unix system paths. On some systems, paths containing file names can
45 contain extensions. The format of an extension is platform dependent; for example,
46 some systems limit extensions to three characters, while others do not. The current
47 platform and possibly the current file system determine the set of characters used to
48 separate the elements of a path, and the set of characters that cannot be used when
49 specifying paths. Because of these differences, the fields of the `System.IO.Path` class as
50 well as the exact behavior of some members of the `System.IO.Path` class are
51 determined by the current platform and/or file system.

52
53 A path contains either absolute or relative location information. Absolute paths fully

1 specify a location: the file or directory can be uniquely identified regardless of the
2 current location. A full path or full directory name component is present in an absolute
3 path. Relative paths specify a partial location: the current working directory is used as
4 the starting point when locating a file specified with a relative path. [*Note:* To determine
5 the current working directory, call `System.IO.Directory.GetCurrentDirectory.`]
6
7
8

9 Most members of the `Path` class do not interact with the file system and do not verify
10 the existence of the file or directory specified by a path string. `System.IO.Path`
11 members that modify a path string, such as `System.IO.Path.ChangeExtension`, have
12 no effect on files and directories in the file system. `System.IO.Path` members do,
13 however, validate the contents of a specified path string, and throw
14 `System.ArgumentException` if the string contains characters that are not valid in path
15 strings, as defined by the current platform and file system. Implementations are
16 required to preserve the case of file and directory path strings, and to be case sensitive
17 if and only if the current platform is case-sensitive.

18

1 Path.AltDirectorySeparatorChar Field

```
2 [ILAsm]  
3 .field public static initOnly valuetype System.Char  
4 AltDirectorySeparatorChar  
  
5 [C#]  
6 public static readonly char AltDirectorySeparatorChar
```

7 Summary

8 Provides a string containing an alternate single printable non-alphanumeric character
9 used to separate directory levels in a hierarchical file system.

10 Description

11 This field is read-only.

12
13 This field can be set to the same value as `System.IO.Path.DirectorySeparatorChar`.

14
15 [*Note:* `System.IO.Path.AltDirectorySeparatorChar` and
16 `System.IO.Path.DirectorySeparatorChar` are both valid for separating directory levels
17 in a path string.

18
19 The value of this field is a slash ('/') on Windows systems and a backslash ('\') on Unix
20 systems.

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23

1 Path.DirectorySeparatorChar Field

```
2 [ILAsm]  
3 .field public static initOnly valuetype System.Char DirectorySeparatorChar  
4 [C#]  
5 public static readonly char DirectorySeparatorChar
```

6 Summary

7 Provides a string containing a single printable non-alphanumeric character used to
8 separate directory levels in a hierarchical file system.

9 Description

10 This field is read-only.

11
12 [*Note:* System.IO.Path.AltDirectorySeparatorChar and
13 System.IO.Path.DirectorySeparatorChar are both valid for separating directory levels
14 in a path string.

15
16 The value of this field is a backslash ('\') on Windows systems and a slash ('/') on Unix
17 systems.

18
19]

20

1 Path.PathSeparator Field

```
2 [ILAsm]  
3 .field public static initOnly valuetype System.Char PathSeparator  
4 [C#]  
5 public static readonly char PathSeparator
```

6 Summary

7 Provides a implementation-specific separator character used to separate path strings in
8 environment variables.

9 Description

10 This field is read-only.

11

1 Path.ChangeExtension(System.String, 2 System.String) Method

```
3 [ILAsm]  
4 .method public hidebysig static string ChangeExtension(string path, string  
5 extension)  
  
6 [C#]  
7 public static string ChangeExtension(string path, string extension)
```

8 Summary

9 Changes the extension component of the specified path string.

10 Parameters

Parameter	Description
<i>path</i>	A <code>System.String</code> containing the path information to modify.
<i>extension</i>	A <code>System.String</code> containing the new extension. Specify <code>null</code> to remove an existing extension from <i>path</i> .

11

12 Return Value

13 A `System.String` containing the modified path information.

14

15 Platforms that do not support this feature return *path* unmodified.

16 Description

17 The exact behavior of this method is implementation-specific. This method checks *path*
18 for invalid characters as defined by the current platform and file system.

19 Exceptions

Exception	Condition
System.ArgumentException	<i>path</i> contains one or more implementation-specific invalid characters.

20

21

1 Path.Combine(System.String, System.String) 2 Method

```
3 [ILAsm]  
4 .method public hidebysig static string Combine(string path1, string path2)  
5 [C#]  
6 public static string Combine(string path1, string path2)
```

7 Summary

8 Concatenates two path strings.

9 Parameters

Parameter	Description
<i>path1</i>	A System.String containing the first path.
<i>path2</i>	A System.String containing the second path.

10

11 Return Value

12 A System.String containing *path1* followed by *path2*. If one of the specified paths is a
13 zero length string, this method returns the other path. If *path2* contains an absolute
14 path, this method returns *path2*.

15 Description

16 If *path1* does not end with a valid separator character
17 (System.IO.Path.DirectorySeparatorChar OR
18 System.IO.Path.AltDirectorySeparatorChar), DirectorySeparatorChar is appended
19 to *path1* prior to the concatenation.

20 Exceptions

Exception	Condition
System.ArgumentNullException	<i>path1</i> or <i>path2</i> is null.
System.ArgumentException	<i>path1</i> or <i>path2</i> contains one or more implementation-specific invalid characters.

21

22 Example

1 The following example demonstrates using the Combine method on a Windows system.

2

3 [C#]

```
4 using System;
5 using System.IO;
6 class CombineTest {
7     public static void Main() {
8         string path1, path2;
9         Console.WriteLine("Dir char is {0} Alt dir char is {1}",
10             Path.DirectorySeparatorChar,
11             Path.AltDirectorySeparatorChar
12         );
13         path1 = "foo.txt";
14         path2 = "\\ecmatest\\examples";
15         Console.WriteLine("{0} combined with {1} = {2}",path1, path2,
16             Path.Combine(path1,
17                 path2));
18         path1 = "\\ecmatest\\examples";
19         path2 = "foo.txt";
20         Console.WriteLine("{0} combined with {1} = {2}",path1, path2,
21             Path.Combine(path1,
22                 path2));
23     }
24 }
25 }
26 }
```

27
28 The output is

29

30 Dir char is \ Alt dir char is /

31

32

33 foo.txt combined with \ecmatest\examples = \ecmatest\examples

34

35

36 \ecmatest\examples combined with foo.txt = \ecmatest\examples\foo.txt

37

38

1 Path.GetDirectoryName(System.String)

2 Method

```
3 [ILAsm]  
4 .method public hidebysig static string GetDirectoryName(string path)  
5 [C#]  
6 public static string GetDirectoryName(string path)
```

7 Summary

8 Returns the directory name component of the specified path string.

9 Parameters

Parameter	Description
<i>path</i>	A System.String containing the path of a file or directory.

10

11 Return Value

12 A System.String containing directory information for *path*, or null if *path* denotes a
13 root directory, is the empty string, or is null. Returns System.String.Empty if *path*
14 does not contain directory information.

15 Description

16 The string returned by this method consists of all characters between the first and last
17 System.IO.Path.DirectorySeparatorChar or
18 System.IO.Path.AltDirectorySeparatorChar character in *path*. The first separator
19 character is included, but the last separator character is not included in the returned
20 string.

21 Exceptions

Exception	Condition
System.ArgumentException	<i>path</i> contains one or more implementation-specific invalid characters.

22

23 Example

24 The following example demonstrates using the System.IO.Path.GetDirectoryName
25 method on a Windows system.

```

1
2     [C#]

3 using System;
4 using System.IO;
5 class GetDirectoryTest {
6     public static void Main() {
7         string [] paths = {
8             @"\\ecmatest\examples\pathtests.txt",
9             @"\\ecmatest\examples\",
10            "pathtests.xyzzy",
11            @"\",
12            @"C:\",
13            @"\\myserver\myshare\foo\bar\baz.txt"
14        };
15        foreach (string pathString in paths) {
16            string s = Path.GetDirectoryName(pathString);
17            Console.WriteLine("Path: {0} directory is {1}",pathString, s== null?
18 "null": s);
19        }
20    }
21 }
22 The output is
23
24 Path: \\ecmatest\examples\pathtests.txt directory is \\ecmatest\examples
25
26
27 Path: \\ecmatest\examples\ directory is \\ecmatest\examples
28
29
30 Path: pathtests.xyzzy directory is
31
32
33 Path: \ directory is null
34
35
36 Path: C:\ directory is null
37
38
39 Path: \\myserver\myshare\foo\bar\baz.txt directory is
40 \\myserver\myshare\foo\bar
41
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```

Path.GetExtension(System.String) Method

```
[ILAsm]  
.method public hidebysig static string GetExtension(string path)  
  
[C#]  
public static string GetExtension(string path)
```

Summary

Returns the extension component of the specified path string.

Parameters

Parameter	Description
<i>path</i>	A <code>System.String</code> containing the path information from which to get the extension.

Return Value

A `System.String` containing the extension of *path*, `null`, or `System.String.Empty`. If *path* is `null`, returns `null`. If *path* does not have extension information, returns `System.String.Empty`.

The extension returned by this method includes the implementation-specific extension separator character used to separate the extension from the rest of the path.

Platforms that do not support this feature return *path* unmodified.

Description

The exact behavior of this method is implementation-specific. The character used to separate the extension from the rest of the path is implementation-specific.

Exceptions

Exception	Condition
System.ArgumentException	<i>path</i> contains one or more implementation-specific invalid characters.

Example

The following example demonstrates using the `System.IO.Path.GetExtension` method on a Windows system.

```

1
2     [C#]

3 using System;
4 using System.IO;
5 class GetDirectoryTest {
6     public static void Main(){
7         string [] paths = {
8             @"\ecmatest\examples\pathtests.txt",
9             @"\ecmatest\examples\",
10            "pathtests.xyzzy",
11            "pathtests.xyzzy.txt",
12            @"\",
13            ""
14        };
15        foreach (string pathString in paths){
16            string s = Path.GetExtension (pathString);
17            if (s == String.Empty) s= "(empty string)";
18            if (s == null) s= "null";
19            Console.WriteLine("{0} is the extension of {1}", s, pathString);
20        }
21    }
22 }

```

23 The output is

```

24
25 .txt is the extension of \ecmatest\examples\pathtests.txt
26
27
28 (empty string) is the extension of \ecmatest\examples\
29
30
31 .xyzzy is the extension of pathtests.xyzzy
32
33
34 .txt is the extension of pathtests.xyzzy.txt
35
36
37 (empty string) is the extension of \
38
39
40 (empty string) is the extension of
41
42

```

1 Path.GetFileName(System.String) Method

```
2 [ILAsm]  
3 .method public hidebysig static string GetFileName(string path)  
4 [C#]  
5 public static string GetFileName(string path)
```

6 Summary

7 Returns the file name, including the extension if any, of the specified path string.

8 Parameters

Parameter	Description
<i>path</i>	A System.String containing the path information from which to obtain the filename and extension.

9 Return Value

11 A System.String consisting of the characters after the last directory character in *path*.
12 If the last character of *path* is a directory separator character, returns
13 System.String.Empty. If *path* is null, returns null.

14 Platforms that do not support this feature return *path* unmodified.

16 Description

17 The directory separator characters used to determine the start of the file name are
18 System.IO.Path.DirectorySeparatorChar and
19 System.IO.Path.AltDirectorySeparatorChar.

20 Exceptions

Exception	Condition
System.ArgumentException	<i>path</i> contains one or more implementation-specific invalid characters.

22 Example

23 The following example demonstrates the behavior of the System.IO.Path.GetFileName
24 method on a Windows system.

```
25 [C#]  
26
```

```

1  using System;
2  using System.IO;
3  class FileNameTest {
4      public static void Main() {
5          string [] paths = {"pathtests.txt",
6              @"\\ecmatest\\examples\\pathtests.txt",
7              "c:pathtests.txt",
8              @"\\ecmatest\\examples\\",
9              ""
10         };
11         foreach (string p in paths) {
12             Console.WriteLine("Path: {0} filename = {1}",p, Path.GetFileName(p));
13         }
14     }
15 }
16

```

17 The output is

18 Path: pathtests.txt filename = pathtests.txt

19

20 Path: \\ecmatest\\examples\\pathtests.txt filename = pathtests.txt

21

22 Path: c:pathtests.txt filename = pathtests.txt

23

24 Path: \\ecmatest\\examples\\ filename =

25

26 Path: filename =

27

28

1 Path.GetFullPath(System.String) Method

```
2 [ILAsm]  
3 .method public hidebysig static string GetFullPath(string path)  
4 [C#]  
5 public static string GetFullPath(string path)
```

6 Summary

7 Returns information required to uniquely identify a file within a file system.

8 Parameters

Parameter	Description
<i>path</i>	A <code>System.String</code> containing the file or directory for which to obtain absolute path information.

9

10 Return Value

11 A `System.String` containing the fully qualified (absolute) location of *path*.

12 Description

13 The absolute path includes all information required to locate a file or directory on a
14 system. The file or directory specified by *path* is not required to exist; however if *path*
15 does exist, the caller is required to have permission to obtain path information for *path*.
16 Note that unlike most members of the `System.IO.Path` class, this method accesses the
17 file system.

18 Exceptions

Exception	Condition
System.ArgumentException	<i>path</i> is a zero-length string, contains only white space, or contains one or more implementation-specific invalid characters. -or- The system could not retrieve the absolute path.
System.Security.SecurityException	The caller does not have the required permissions.

System.ArgumentNullException	<i>path</i> is null.
System.IO.PathTooLongException	The length of <i>path</i> or the absolute path information for <i>path</i> exceeds the system-defined maximum length.

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Example

The following example demonstrates the `System.IO.Path.GetFullPath` method on a Windows system. In this example, the absolute path for the current directory is `c:\ecmatest\examples`.

```
[C#]

using System;
using System.IO;
class GetDirectoryTest {
    public static void Main() {
        string [] paths = {
            @"\\ecmatest\\examples\\pathtests.txt",
            @"\\ecmatest\\examples\\",
            "pathtests.xyzyzy",
            @"\\" ,
        };
        foreach (string pathString in paths)
            Console.WriteLine("Path: {0} full path is {1}",pathString,
                Path.GetFullPath(pathString));
    }
}
```

The output is

```
Path: \\ecmatest\\examples\\pathtests.txt full path is
C:\\ecmatest\\examples\\pathtests.txt

Path: \\ecmatest\\examples\\ full path is C:\\ecmatest\\examples\\

Path: pathtests.xyzyzy full path is C:\\ecmatest\\examples\\pathtests.xyzy

Path: \\ full path is C:\\
```

Permissions

Permission	Description
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**System.Security.Permissions.
FileIOPermission**

Requires permission to access path information. See
`System.Security.Permissions.FileIOPermissionAccess.PathDis`

1

2

Path.GetPathRoot(System.String) Method

```
[ILAsm]  
.method public hidebysig static string GetPathRoot(string path)  
  
[C#]  
public static string GetPathRoot(string path)
```

Summary

Returns the path root component of the specified path.

Parameters

Parameter	Description
<i>path</i>	A <code>System.String</code> containing the path from which to obtain root directory information

Return Value

A `System.String` containing the root directory of *path*, or null if *path* is null. Returns `System.String.Empty` if the specified path does not contain root information.

Platforms that do not support this feature return *path* unmodified.

Description

This method does not verify that the path exists.

The exact behavior of this method is implementation-specific.

Exceptions

Exception	Condition
System.ArgumentException	<i>path</i> contains one or more implementation-specific invalid characters or is equal to <code>System.String.Empty</code> .

Example

The following example demonstrates the `System.IO.Path.GetPathRoot` method.

```
[C#]
```

```
using System;
```

```

1  using System.IO;
2  class GetPathRootTest
3  {
4      public static void Main() {
5          string [] paths = {
6
7              @"\ecmatest\examples\pathtests.txt",
8              "pathtests.xyzzy",
9              @"\",
10             @"C:\",
11
12             @"\myserver\myshare\foo\bar\baz.txt"
13         };
14         foreach (string pathString in paths) {
15             string s = Path.GetPathRoot(pathString);
16             Console.WriteLine("Path: {0} Path root is {1}",pathString, s== null?
17 "null": s);
18         }
19     }
20 }
21 The output is
22
23 Path: \ecmatest\examples\pathtests.txt Path root is \
24
25
26 Path: pathtests.xyzzy Path root is
27
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29 Path: \ Path root is \
30
31
32 Path: C:\ Path root is C:\
33
34
35 Path: \\myserver\myshare\foo\bar\baz.txt Path root is \\myserver\myshare
36
37

```

1 Path.GetTempFileName() Method

```
2 [ILAsm]  
3 .method public hidebysig static string GetTempFileName()  
4 [C#]  
5 public static string GetTempFileName()
```

6 Summary

7 Returns a unique temporary file name and creates a 0-byte file by that name on disk.

8 Return Value

9 A *System.String* containing the name of the temporary file.

10

11 Platforms that do not support this feature return *System.String.Empty*.

12

1 Path.GetTempPath() Method

```
2 [ILAsm]  
3 .method public hidebysig static string GetTempPath()  
4 [C#]  
5 public static string GetTempPath()
```

6 Summary

7 Returns the path information of a temporary directory.

8 Return Value

9 A *System.String* containing the full directory name of a temporary directory.

10
11 The information returned by this method is implementation-specific. Platforms that do
12 not support this feature return *System.String.Empty*.

13 Description

14 On platforms that provide a mechanism for users to discover this information, (for
15 example by checking an environment variable), implementations of the CLI return the
16 same information as the implementation-specific mechanism.

17 Exceptions

Exception	Condition
System.Security.SecurityException	The caller does not have the required permission.

18

19 Permissions

Permission	Description
System.Security.Permissions.EnvironmentPermission	Requires unrestricted access to environment variables. See <i>System.Security.Permissions.PermissionState.Unrestricted</i> .

20

21

1 Path.HasExtension(System.String) Method

```
2 [ILAsm]  
3 .method public hidebysig static bool HasExtension(string path)  
4 [C#]  
5 public static bool HasExtension(string path)
```

6 Summary

7 Returns a `System.Boolean` indicating whether the specified path includes an extension
8 component.

9 Parameters

Parameter	Description
<i>path</i>	A <code>System.String</code> containing the path to search for an extension.

10

11 Return Value

12 `true` if *path* includes a file extension.

13

14 Platforms that do not support this feature return `false`.

15 Exceptions

Exception	Condition
<code>System.ArgumentException</code>	<i>path</i> contains one or more implementation-specific invalid characters.

16

17

1 Path.IsPathRooted(System.String) Method

```
2 [ILAsm]  
3 .method public hidebysig static bool IsPathRooted(string path)  
4 [C#]  
5 public static bool IsPathRooted(string path)
```

6 Summary

7 Returns a `System.Boolean` indicating whether the specified path string contains a path
8 root component.

9 Parameters

Parameter	Description
<i>path</i>	A <code>System.String</code> containing the path to test.

10 11 Return Value

12 `true` if *path* contains an absolute path; `false` if *path* contains relative path information.
13
14 Platforms that do not support this feature return `false`.

15 Description

16 [*Note:* This method does not access file systems or verify the existence of the specified
17 path.]
18
19

20 Exceptions

Exception	Condition
System.ArgumentException	<i>path</i> contains one or more implementation-specific invalid characters.

21
22