

System.IO.FileNotFoundException Class

```
[ILASM]
.class public serializable FileNotFoundException extends
System.IO.IOException

[C#]
public class FileNotFoundException: IOException
```

Assembly Info:

- *Name:* mscorlib
- *Public Key:* [00 00 00 00 00 00 00 00 04 00 00 00 00 00 00]
- *Version:* 1.0.x.x
- *Attributes:*
 - CLSCompliantAttribute(true)

Summary

Represents the error that occurs when a file path argument specifies a file that does not exist.

Inherits From: System.IO.IOException

Library: BCL

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

Example

The following example demonstrates an error that causes the **System.IO.FileNotFoundException** exception to be thrown.

```
[C#]
using System;
using System.IO;
class FileNotFoundExample {
    public static void Main () {
        string badPath = "/Eccma/examples/FileTest.cs";
        string goodPath = "/Ecma/examples2/FileTest.cs";
        try {
            File.Copy(badPath,goodPath);
        }
        catch (FileNotFoundException e) {
            Console.WriteLine("Caught: {0}",e.Message);
        }
    }
}
```

```
1     }  
2 }  
3
```

4 The output is

```
5  
6 Caught: Could not find file "/Eccma/examples/FileTest.cs".  
7
```

8

1 FileNotFoundException() Constructor

```
2 [ILASM]  
3 public rtspecialname specialname instance void .ctor()  
4 [C#]  
5 public FileNotFoundException()
```

6 Summary

7 Constructs and initializes a new instance of the
8 **System.IO.FileNotFoundException** class.

9 Description

10 This constructor initializes the
11 **System.IO.FileNotFoundException.Message** property of the new
12 instance to a system-supplied message that describes the error, such
13 as "Could not find the specified file." This message takes into account
14 the current system culture.

15
16 The **System.IO.FileNotFoundException.InnerException** and
17 **System.IO.FileNotFoundException.FileName** properties of the new
18 instance are initialized to **null**.

19

1 FileNotFoundException(System.String) 2 Constructor

```
3 [ILASM]  
4 public rtspecialname specialname instance void .ctor(string  
5 message)  
6  
7 [C#]  
8 public FileNotFoundException(string message)
```

8 Summary

9 Constructs and initializes a new instance of the
10 **System.IO.FileNotFoundException** class.

11 Parameters

12
13

Parameter	Description
<i>message</i>	A System.String that describes the error. The content of <i>message</i> is intended to be understood by humans. The caller of this constructor is required to ensure that this string has been localized for the current system culture.

14
15

15 Description

16 This constructor initializes the
17 **System.IO.FileNotFoundException.Message** property of the new
18 instance using *message*. If *message* is **null**, the
19 **System.IO.FileNotFoundException.Message** property is initialized
20 to the system-supplied message provided by the constructor that
21 takes no arguments.

22
23
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25

The **System.IO.FileNotFoundException.InnerException** and
System.IO.FileNotFoundException.FileName properties of the new
instance are initialized to **null**.

26

FileNotFoundException(System.String, System.Exception) Constructor

```
[ILASM]
public rtspecialname specialname instance void .ctor(string
message, class System.Exception innerException)

[C#]
public FileNotFoundException(string message, Exception
innerException)
```

Summary

Constructs and initializes a new instance of the **System.IO.FileNotFoundException** class.

Parameters

Parameter	Description
<i>message</i>	A System.String that describes the error. The content of <i>message</i> is intended to be understood by humans. The caller of this constructor is required to ensure that this string has been localized for the current system culture.
<i>innerException</i>	An instance of System.Exception that is the cause of the current exception. If <i>innerException</i> is non-null, then the current Exception was raised in a catch block handling <i>innerException</i> .

Description

This constructor initializes the **System.IO.FileNotFoundException.Message** property of the new instance using *message* and the **System.IO.FileNotFoundException.InnerException** property using *innerException*. If *message* is **null**, the **System.IO.FileNotFoundException.Message** property is initialized to the system-supplied message provided by the constructor that takes no arguments.

The **System.IO.FileNotFoundException.FileName** property of the new instance is initialized to **null**.

[Note: For more information on inner exceptions, see **System.Exception.InnerException**.]

1 FileNotFoundException(System.String, 2 System.String) Constructor

```
3 [ILASM]  
4 public rtspecialname specialname instance void .ctor(string  
5 message, string fileName)  
  
6 [C#]  
7 public FileNotFoundException(string message, string  
8 fileName)
```

9 Summary

10 Constructs and initializes a new instance of the
11 **System.IO.FileNotFoundException** class.

12 Parameters

13
14

Parameter	Description
<i>message</i>	A System.String that describes the error. The content of <i>message</i> is intended to be understood by humans. The caller of this constructor is required to ensure that this string has been localized for the current system culture.
<i>fileName</i>	A System.String containing the name of the file that was not found.

15
16

Description

17 The constructor initializes the
18 **System.IO.FileNotFoundException.Message** property of the new
19 instance using *message* and the
20 **System.IO.FileNotFoundException.FileName** property using
21 *fileName*. If *message* is **null**, the
22 **System.IO.FileNotFoundException.Message** property is initialized
23 to the system-supplied message provided by the constructor that
24 takes no arguments.

25
26
27

The **System.IO.FileNotFoundException.InnerException** property
of the new instance is initialized to **null**.

28

FileNotFoundException(System.String, System.String, System.Exception) Constructor

```
[ILASM]
public rtspecialname specialname instance void .ctor(string
message, string fileName, class System.Exception
innerException)

[C#]
public FileNotFoundException(string message, string
fileName, Exception innerException)
```

Summary

Constructs and initializes a new instance of the **System.IO.FileNotFoundException** class.

Parameters

Parameter	Description
<i>message</i>	A System.String that describes the error. The content of <i>message</i> is intended to be understood by humans. The caller of this constructor is required to ensure that this string has been localized for the current system culture.
<i>fileName</i>	The name of the file that was not found.
<i>innerException</i>	An instance of System.Exception that is the cause of the current exception. If <i>innerException</i> is non-null, then the current Exception was raised in a catch block handling <i>innerException</i> .

Description

This constructor initializes the **System.IO.FileNotFoundException.Message** property of the new instance using *message*, the **System.IO.FileNotFoundException.FileName** property using *fileName*, and the **System.IO.FileNotFoundException.InnerException** property using *innerException*. If *message* is null, the **System.IO.FileNotFoundException.Message** property is initialized to the system-supplied message provided by the constructor that takes no arguments.

[Note: For more information on inner exceptions, see **System.Exception.InnerException**.]

1 FileNotFoundException.ToString() Method

```
2 [ILASM]  
3 .method public hidebysig virtual string ToString()  
4 [C#]  
5 public override string ToString()
```

6 Summary

7 Returns a **System.String** representation of the current instance.

8 Return Value

9

10 A **String** representation of the current Exception.

11 Description

12 The string representation returned by this method includes the fully
13 qualified name of the current Exception, the message, the result of
14 calling **ToString** on the inner Exception, the file name, and the result
15 of calling **System.Environment.StackTrace**. Null values are omitted
16 from the returned string.

17

18 [*Note:* This method overrides **System.Object.ToString.**]

19 Example

20

21 The following example causes a **System.IO.FileNotFoundException**
22 exception and displays the result of calling **ToString** on that
23 Exception.

24

25

```
[C#]  
  
26 using System;  
27 using System.IO;  
28 class FileNotFoundExample {  
29     public static void Main () {  
30         string badPath = "/Eccma/examples/FileTest.cs";  
31         string goodPath = "/Ecma/examples2/FileTest.cs";  
32         try {  
33             File.Copy(badPath,goodPath);  
34         }  
35         catch (FileNotFoundException e) {  
36             Console.WriteLine("Caught: {0}",e.ToString());  
37         }  
38     }  
39 }
```

40 The output is

```
1
2 Caught: System.IO.FileNotFoundException: Could not find
3 file "/Eccma/examples/FileTest.cs".
4 File name: "/Eccma/examples/FileTest.cs"
5     at System.IO.__Error.WinIOError(Int32 errorCode, String
6 str)
7     at System.IO.File.InternalCopy(String sourceFileName,
8 String destFileName,
9 Boolean overwrite)
10    at FileNotFoundExample.Main()
11
12
```

1 FileNotFoundException.FileName Property

```
2 [ILASM]
3 .property string FileName { public hidebysig specialname
4 instance string get_FileName() }
5
6 [C#]
7 public string FileName { get; }
```

7 Summary

8 Gets the name of the file that cannot be found.

9 Property Value

10

11 A **System.String** containing the name of the file, or **null** if no file
12 name was passed to the constructor for the current instance.

13 Description

14 This property is read-only.

15

1 FileNotFoundException.Message Property

```
2 [ILASM]  
3 .property string Message { public hidebysig virtual  
4 specialname string get_Message() }  
5 [C#]  
6 public override string Message { get; }
```

7 Summary

8 Gets the error message that explains the reason for the exception.

9 Property Value

10

11 A **System.String** containing the error message. This string includes
12 the **System.IO.FileNotFoundException.FileName** if a value for that
13 property was supplied to the constructor for the current instance.

14 Description

15 This property is read-only.

16