

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 00]
- *Version:* 2.0.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
5  The output is
6
7  Caught: Could not find file "/Eccma/examples/FileTest.cs".
8
9
```

FileNotFoundException() Constructor

```
[ILAsm]  
public rtspecialname specialname instance void .ctor()  
  
[C#]  
public FileNotFoundException()
```

Summary

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

Description

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

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

FileNotFoundException(System.String)

Constructor

```
[ILAsm]  
public rtspecialname specialname instance void .ctor(string message)  
  
[C#]  
public FileNotFoundException(string message)
```

Summary

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

Parameters

Parameter	Description
<i>message</i>	A <code>System.String</code> 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.

Description

This constructor initializes the `System.IO.FileNotFoundException.Message` property of the new instance using *message*. 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.InnerException` and `System.IO.FileNotFoundException.FileName` properties of the new instance are initialized to null.

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 <code>System.String</code> 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 <code>System.Exception</code> that is the cause of the current exception. If <i>innerException</i> is non-null, then the current <code>Exception</code> 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`.]

FileNotFoundException(System.String, System.String) Constructor

```
[ILAsm]
public rtspecialname specialname instance void .ctor(string message,
string fileName)

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

Summary

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

Parameters

Parameter	Description
<i>message</i>	A <code>System.String</code> 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 <code>System.String</code> containing the name of the file that was not found.

Description

The constructor initializes the `System.IO.FileNotFoundException.Message` property of the new instance using *message* and the `System.IO.FileNotFoundException.FileName` property using *fileName*. 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.InnerException` property of the new instance is initialized to null.

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 <code>System.String</code> 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 <code>System.Exception</code> that is the cause of the current exception. If <i>innerException</i> is non-null, then the current <code>Exception</code> 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
- 2
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FileNotFoundException.ToString() Method

```
[ILAsm]  
.method public hidebysig virtual string ToString()  
  
[C#]  
public override string ToString()
```

Summary

Returns a `System.String` representation of the current instance.

Return Value

A `String` representation of the current `Exception`.

Description

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

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

Example

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

[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.ToString());  
        }  
    }  
}
```

The output is

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

FileNotFoundException.FileName Property

```
[ILAsm]
.property string FileName { public hidebysig specialname instance string
get_FileName() }

[C#]
public string FileName { get; }
```

Summary

Gets the name of the file that cannot be found.

Property Value

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

Description

This property is read-only.

FileNotFoundException.Message Property

```
[ILAsm]  
.property string Message { public hidebysig virtual specialname string  
get_Message() }  
  
[C#]  
public override string Message { get; }
```

Summary

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

Property Value

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

Description

This property is read-only.