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:* 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);
    }
```

```
        }
    }
```

The output is

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

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
message	A **System.String** that describes the error. The content of *message* 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
message	A **System.String** that describes the error. The content of *message* 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.
innerException	An instance of **System.Exception** that is the cause of the current exception. If *innerException* is non-null, then the current Exception was raised in a catch block handling *innerException*.

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
message	A **System.String** that describes the error. The content of *message* 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.
fileName	A **System.String** 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
message	A **System.String** that describes the error. The content of *message* 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.
fileName	The name of the file that was not found.
innerException	An instance of **System.Exception** that is the cause of the current exception. If *innerException* is non-null, then the current Exception was raised in a catch block handling *innerException*.

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.]

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

```
Caught: System.IO.FileNotFoundException: Could not find
file "/Eccma/examples/FileTest.cs".
File name: "/Eccma/examples/FileTest.cs"
   at System.IO.__Error.WinIOError(Int32 errorCode, String
str)
   at System.IO.File.InternalCopy(String sourceFileName,
String destFileName,
      Boolean overwrite)
   at FileNotFoundExample.Main()
```

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.