System.IO.IOException Class

```
[ILAsm]
.class public serializable IOException extends System.SystemException

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

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 an I/O operation fails.

Inherits From: System.SystemException

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.

Description

`System.IO.IOException` is the base class for exceptions thrown while accessing
information using streams, files and directories.

[*Note:* The Base Class Library includes the following types, each of which is derived from
`System.IO.IOException`:

- `System.IO.DirectoryNotFoundException`

- `System.IO.EndOfStreamException`

- `System.IO.FileLoadException`

- `System.IO.FileNotFoundException`

- `System.IO.PathTooLongException`

Where appropriate, use these types instead of `System.IO.IOException`.

]

IOException() Constructor

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

[C#]
public IOException()
```

Summary

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

Description

The constructor initializes the System.IO.IOException.Message property of the new instance to a system-supplied message that describes the error, such as "An I/O error occurred while performing the requested operation." This message takes into account the current system culture.

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

1 IOException(System.String) Constructor

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

[C#]
public IOException(string message)
```

6 Summary

7 Constructs and initializes a new instance of the System.IO.IOException class.

8 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.

9
10 Description

11 The constructor initializes the System.IO.IOException.Message property of the new
12 instance using *message*. If *message* is null, the System.IO.IOException.Message
13 property is initialized to a system-supplied message.
14
15 The System.IO.IOException.InnerException property of the new instance is initialized
16 to null.

17

1 IOException(System.String,
2 System.Exception) Constructor

3 [ILAsm]
4 **public rtspecialname specialname instance void .ctor(string message, class**
5 **System.Exception innerException)**

6 [C#]
7 **public IOException(string message, Exception innerException)**

8 **Summary**

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

10 **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*.

11

12 **Description**

13 The constructor initializes the `System.IO.IOException.Message` property of the new
14 instance using *message* and the `System.IO.IOException.InnerException` property
15 using *innerException*. If *message* is `null`, the `System.IO.IOException.Message`
16 property is initialized to a system-supplied message.
17
18 [*Note:* For more information on inner exceptions, see
19 `System.Exception.InnerException`.]
20
21

22