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`.

IOException(System.String) Constructor

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


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

Summary

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

The constructor initializes the `System.IO.IOException.Message` property of the new instance using *message*. If *message* is `null`, the `System.IO.IOException.Message` property is initialized to a system-supplied message.

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

IOException(System.String, System.Exception) Constructor

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


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

Summary

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

The constructor initializes the `System.IO.IOException.Message` property of the new instance using *message* and the `System.IO.IOException.InnerException` property using *innerException*. If *message* is `null`, the `System.IO.IOException.Message` property is initialized to a system-supplied message.

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