

# 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`

```
1  Where appropriate, use these types instead of System.IO.IOException.
2
3  ]
4
```

# 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
<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

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
<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

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`.]