

1 System.IO.IOException Class

2
3

```
4 [ILASM]  
5 .class public serializable IOException extends  
6 System.SystemException  
7 [C#]  
8 public class IOException: SystemException
```

9 Assembly Info:

- 10 • Name: mscorlib
- 11 • Public Key: [00 00 00 00 00 00 00 00 04 00 00 00 00 00 00]
- 12 • Version: 1.0.x.x
- 13 • Attributes:
 - 14 ○ CLSCompliantAttribute(true)

15 Summary

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17 Represents the error that occurs when an I/O operation fails.

18 Inherits From: System.SystemException

19

20 Library: BCL

21

22 **Thread Safety:** All public static members of this type are safe for multithreaded
23 operations. No instance members are guaranteed to be thread safe.

24

25 Description

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

28

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

- 31 • **System.IO.DirectoryNotFoundException**

- 32 • **System.IO.EndOfStreamException**

- 33 • **System.IO.FileNotFoundException**

34 Where appropriate, use these types instead of
35 **System.IO.IOException.**

36

1 IOException() Constructor

```
2 [ILASM]  
3 public rtspecialname specialname instance void .ctor()  
4 [C#]  
5 public IOException()
```

6 Summary

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

9 Description

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

15
16 The **System.IO.IOException.InnerException** property of the new
17 instance is initialized to **null**.

18

1 IOException(System.String) Constructor

```
2 [ILASM]  
3 public rtspecialname specialname instance void .ctor(string  
4 message)  
5  
6 [C#]  
7 public IOException(string message)
```

7 Summary

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

10 Parameters

11
12

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

13
14

14 Description

15 The constructor initializes the **System.IO.IOException.Message**
16 property of the new instance using *message*. If *message* is **null**, the
17 **System.IO.IOException.Message** property is initialized to the
18 system-supplied message provided by the constructor that takes no
19 arguments.

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

23

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 System.String 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 System.Exception that is the cause of the current exception. If <i>innerException</i> is non-null, then the current Exception 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 the system-supplied message provided by the constructor that takes no arguments.

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

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