

# System.DivideByZeroException Class

```
[ILASM]
.class public serializable DivideByZeroException extends
System.ArithmeticException

[C#]
public class DivideByZeroException: ArithmeticException
```

## Assembly Info:

- *Name:* mscorlib
- *Public Key:* [00 00 00 00 00 00 00 00 04 00 00 00 00 00 00]
- *Version:* 1.0.x.x
- *Attributes:*
  - CLSCompliantAttribute(true)

## Summary

Represents the error that is caused by an attempt to divide a number by zero.

## Inherits From: System.ArithmeticException

## 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

[Note: The following IL instructions throw **System.DivideByZeroException**:

- div
- div.un
- rem
- rem.un

]

## Example

1 The following example demonstrates an error that causes a  
2 **System.DivideByZeroException** exception.

3  
4 [C#]

```
5 using System;
6 public class DivideZeroTest {
7     public static void Main() {
8         int x = 0;
9         try {
10             int y = 100/x;
11         }
12         catch (DivideByZeroException e) {
13             Console.WriteLine("Error: {0}",e);
14         }
15     }
16 }
17
```

18 The output is

```
19
20 Error: System.DivideByZeroException: Attempted to divide by
21 zero.
22     at DivideZeroTest.Main()
23
24
```

# 1 DivideByZeroException() Constructor

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

## 6 Summary

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

## 9 Description

10 This constructor initializes the  
11 **System.DivideByZeroException.Message** property of the new  
12 instance to a system-supplied message that describes the error, such  
13 as "Attempted to divide by zero." This message takes into account the  
14 current system culture.  
15  
16 The **System.DivideByZeroException.InnerException** property is  
17 initialized to **null**.

18

# DivideByZeroException(System.String) Constructor

```
[ILASM]  
public rtspecialname specialname instance void .ctor(string  
message)  
  
[C#]  
public DivideByZeroException(string message)
```

## Summary

Constructs and initializes a new instance of the **System.DivideByZeroException** class.

## Parameters

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

This constructor initializes the **System.DivideByZeroException.Message** property of the new instance using *message*. If *message* is **null**, the **System.DivideByZeroException.Message** property is initialized to the system-supplied message provided by the constructor that takes no arguments. The **System.DivideByZeroException.InnerException** property is initialized to **null**.

# DivideByZeroException(System.String, System.Exception) Constructor

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

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

## Summary

Constructs and initializes a new instance of the **System.DivideByZeroException** class.

## Parameters

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

This constructor initializes the **System.DivideByZeroException.Message** property of the new instance using *message*, and the **System.DivideByZeroException.InnerException** property using *innerException*. If *message* is **null**, the **System.DivideByZeroException.Message** property is initialized to the system-supplied message provided by the constructor that takes no arguments.

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