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 00]
- *Version:* 2.0.x.x
- *Attributes:*
  - o 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 CIL instructions throw System.DivideByZeroException:

- div

- div.un

- rem

- rem.un

]

Example

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

[C#]

```
1   using System;
2   public class DivideZeroTest {
3    public static void Main() {
4      int x = 0;
5      try {
6        int y = 100/x;
7      }
8      catch (DivideByZeroException e) {
9        Console.WriteLine("Error: {0}",e);
10     }
11   }
12  }
13
14  The output is
15
16  Error: System.DivideByZeroException: Attempted to divide by zero.
17     at DivideZeroTest.Main()
18
19
```

DivideByZeroException() Constructor

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

[C#]
public DivideByZeroException()
```

Summary

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

Description

This constructor initializes the `System.DivideByZeroException.Message` property of the new instance to a system-supplied message that describes the error, such as "Attempted to divide by zero." This message takes into account the current system culture.

The `System.DivideByZeroException.InnerException` property is initialized to `null`.

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
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

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
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

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`.]