

System.NotFiniteNumberException Class

```
[ILAsm]
.class public serializable NotFiniteNumberException extends
System.ArithmeticException

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

Assembly Info:

- *Name:* mscorlib
- *Public Key:* [00 00 00 00 00 00 00 00 04 00 00 00 00 00 00]
- *Version:* 2.0.x.x
- *Attributes:*
 - CLSCompliantAttribute(true)

Summary

Represents the error that occurs when an arithmetic operation cannot be performed on a floating-point value that is not a finite number.

Inherits From: System.ArithmeticException

Library: ExtendedNumerics

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

Description

This exception is thrown when an operand of an arithmetic operation is, and is not permitted to be, one of the following:

- Positive infinity
- Negative infinity
- NaN (Not-a-Number)

[*Note:* Operations involving `System.Double` or `System.Single` operations throw this exception.]

NotFiniteNumberException() Constructor

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

```
[C#]  
public NotFiniteNumberException()
```

Summary

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

Description

This constructor initializes the `System.NotFiniteNumberException.Message` property of the new instance to a system-supplied message that describes the error, such as "The number encountered was not a finite quantity." This message takes into account the current system culture.

This constructor initializes the `System.NotFiniteNumberException.OffendingNumber` property to zero. The `System.NotFiniteNumberException.InnerException` property is initialized to null.

NotFiniteNumberException(System.Double) Constructor

```
[ILAsm]  
public rtspecialname specialname instance void .ctor(float64  
offendingNumber)  
  
[C#]  
public NotFiniteNumberException(double offendingNumber)
```

Summary

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

Parameters

Parameter	Description
<i>offendingNumber</i>	A <code>System.Double</code> that specifies the value of the argument that caused the Exception.

Description

This constructor initializes the `System.NotFiniteNumberException.Message` property of the new instance to a system-supplied message that describes the error, such as "The number encountered was not a finite quantity." This message takes into account the current system culture.

This constructor initializes the `System.NotFiniteNumberException.OffendingNumber` property using *offendingNumber*. The `System.NotFiniteNumberException.InnerException` property is initialized to `null`.

NotFiniteNumberException(System.String)) Constructor

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

Summary

Constructs and initializes a new instance of the `System.NotFiniteNumberException` 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

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

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

NotFiniteNumberException(System.String, System.Double) Constructor

```
[ILAsm]  
public rtspecialname specialname instance void .ctor(string message,  
float64 offendingNumber)
```

```
[C#]  
public NotFiniteNumberException(string message, double  
offendingNumber)
```

Summary

Constructs a new instance of the `System.NotFiniteNumberException` 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>offendingNumber</i>	A <code>System.Double</code> that specifies the value of the argument that caused the current Exception.

Description

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

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

NotFiniteNumberException(System.String, System.Double, System.Exception) Constructor

```
[ILAsm]  
public rtspecialname specialname instance void .ctor(string message,  
float64 offendingNumber, class System.Exception innerException)
```

```
[C#]  
public NotFiniteNumberException(string message, double  
offendingNumber, Exception innerException)
```

Summary

Constructs and initializes a new instance of the `System.NotFiniteNumberException` 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>offendingNumber</i>	A <code>System.Double</code> that specifies the value of the argument that caused the current exception.
<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 exception was raised in a catch block handling <i>innerException</i> .

Description

This constructor initializes the `System.NotFiniteNumberException.Message` property of the new instance using *message*, the `System.NotFiniteNumberException.OffendingNumber` property using *offendingNumber*, and the `System.NotFiniteNumberException.InnerException` property using *innerException*. If *message* is null, the `System.NotFiniteNumberException.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`.]

NotFiniteNumberException.OffendingNumber Property

```
[ILAsm]
.property float64 OffendingNumber { public hidebysig specialname
instance float64 get_OffendingNumber() }

[C#]
public double OffendingNumber { get; }
```

Summary

Gets the value of the argument that caused the current Exception.

Property Value

A `System.Double` that contains the invalid value.

Description

This property is read-only.

The `System.NotFiniteNumberException.OffendingNumber` property returns the same value as was passed into the constructor, or zero if no value was supplied.