

# 1 System.NotFiniteNumberException Class

```
2 [ILAsm]  
3 .class public serializable NotFiniteNumberException extends  
4 System.ArithmeticException  
  
5 [C#]  
6 public class NotFiniteNumberException: ArithmeticException
```

## 7 Assembly Info:

- 8 • *Name:* mscorlib
- 9 • *Public Key:* [00 00 00 00 00 00 00 00 04 00 00 00 00 00 00]
- 10 • *Version:* 2.0.x.x
- 11 • *Attributes:*
  - 12 ○ CLSCompliantAttribute(true)

## 13 Summary

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

## 16 Inherits From: System.ArithmeticException

17

18 **Library:** ExtendedNumerics

19

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

22

## 23 Description

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

- 26 • Positive infinity
- 27 • Negative infinity
- 28 • NaN (Not-a-Number)

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

31

32

33

# 1 NotFiniteNumberException() Constructor

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

## 6 Summary

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

## 9 Description

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

14  
15 This constructor initializes the `System.NotFiniteNumberException.OffendingNumber`  
16 property to zero. The `System.NotFiniteNumberException.InnerException` property is  
17 initialized to null.

18

# 1 NotFiniteNumberException(System.Double) 2 Constructor

```
3 [ILAsm]  
4 public rtspecialname specialname instance void .ctor(float64  
5 offendingNumber)  
  
6 [C#]  
7 public NotFiniteNumberException(double offendingNumber)
```

## 8 Summary

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

## 11 Parameters

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

## 12 13 Description

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

18  
19 This constructor initializes the System.NotFiniteNumberException.OffendingNumber  
20 property using *offendingNumber*. The  
21 System.NotFiniteNumberException.InnerException property is initialized to null.

22

# 1 NotFiniteNumberException(System.String) 2 Constructor

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

## 7 Summary

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

## 10 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.

## 11 12 Description

13 This constructor initializes the `System.NotFiniteNumberException.Message` property of  
14 the new instance using *message*, and initializes the  
15 `System.NotFiniteNumberException.OffendingNumber` property to zero. If *message* is  
16 null, the `System.NotFiniteNumberException.Message` property is initialized to the  
17 system-supplied message provided by the constructor that takes no arguments.  
18  
19 The `System.NotFiniteNumberException.InnerException` property is initialized to  
20 null.

21

# 1 NotFiniteNumberException(System.String, 2 System.Double) Constructor

```
3 [ILAsm]  
4 public rtspecialname specialname instance void .ctor(string message,  
5 float64 offendingNumber)  
  
6 [C#]  
7 public NotFiniteNumberException(string message, double offendingNumber)
```

## 8 Summary

9 Constructs a new instance of the System.NotFiniteNumberException class.

## 10 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>offendingNumber</i>	A System.Double that specifies the value of the argument that caused the current Exception.

## 11 12 Description

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

18  
19 The System.NotFiniteNumberException.InnerException property is initialized to  
20 null.

21

# 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`.]



# 1 NotFiniteNumberException.OffendingNumber 2 Property

```
3 [ILAsm]  
4 .property float64 OffendingNumber { public hidebysig specialname instance  
5 float64 get_OffendingNumber() }  
  
6 [C#]  
7 public double OffendingNumber { get; }
```

## 8 Summary

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

## 10 Property Value

11 A System.Double that contains the invalid value.

## 12 Description

13 This property is read-only.

14  
15 The System.NotFiniteNumberException.OffendingNumber property returns the same  
16 value as was passed into the constructor, or zero if no value was supplied.

17