

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:* 1.0.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.]

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
8 **System.NotFiniteNumberException** class.

9 Description

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

15
16 This constructor initializes the
17 **System.NotFiniteNumberException.OffendingNumber** property to
18 zero. The **System.NotFiniteNumberException.InnerException**
19 property is initialized to **null**.

20

1 NotFiniteNumberException(System.Double) 2 e) Constructor

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

8 Summary

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

11 Parameters

12
13

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

14
15

15 Description

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

21
22 This constructor initializes the
23 **System.NotFiniteNumberException.OffendingNumber** property
24 using *offendingNumber*. The
25 **System.NotFiniteNumberException.InnerException** property is
26 initialized to **null**.

27

1 NotFiniteNumberException(System.String 2) Constructor

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

8 Summary

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

11 Parameters

12
13

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.

14
15

15 Description

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

24
25
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The **System.NotFiniteNumberException.InnerException** property is initialized to **null**.

27

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

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

9 Summary

10 Constructs a new instance of the
11 **System.NotFiniteNumberException** class.

12 Parameters

13
14

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.

15

16 Description

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

24

25 The **System.NotFiniteNumberException.InnerException** property
26 is initialized to **null**.

27

1 NotFiniteNumberException(System.String, 2 System.Double, System.Exception) 3 Constructor

```
4 [ILASM]  
5 public rtspecialname specialname instance void .ctor(string  
6 message, float64 offendingNumber, class System.Exception  
7 innerException)  
  
8 [C#]  
9 public NotFiniteNumberException(string message, double  
10 offendingNumber, Exception innerException)
```

11 Summary

12 Constructs and initializes a new instance of the
13 **System.NotFiniteNumberException** class.

14 Parameters

15
16

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.
<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> .

17
18

18 Description

19 This constructor initializes the
20 **System.NotFiniteNumberException.Message** property of the new
21 instance using *message*, the
22 **System.NotFiniteNumberException.OffendingNumber** property
23 using *offendingNumber*, and the
24 **System.NotFiniteNumberException.InnerException** property
25 using *innerException*. If *message* is **null**, the
26 **System.NotFiniteNumberException.Message** property is initialized
27 to the system-supplied message provided by the constructor that
28 takes no arguments.

29
30
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[Note: For information on inner exceptions, see
System.Exception.InnerException.]

32

1 NotFiniteNumberException.OffendingNumber 2 ber Property

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

8 Summary

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

10 Property Value

11

12 A **System.Double** that contains the invalid value.

13 Description

14 This property is read-only.

15

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

19