

# System.MethodAccessException Class

```
[ILASM]
.class public serializable MethodAccessException extends
System.MemberAccessException

[C#]
public class MethodAccessException: MemberAccessException
```

## 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 there is an attempt to access a method outside the scope in which access is permitted.

## Inherits From: System.MemberAccessException

**Library:** RuntimeInfrastructure

**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:* This exception is thrown when the access level of a method in a class library is changed, and one or more assemblies referencing the library have not been recompiled. This exception is also thrown when an attempt to invoke a method via reflection fails because the caller does not have the required permissions.]

## Example

The following example demonstrates a scenario under which **System.MethodAccessException** is thrown.

The following code contains a class with a public method (MyMethod). This class is compiled into a class library.

```
[C#]
```

```
1      using System;
2      namespace TestNameSpace
3      {
4          public class Class1
5          {
6              public Class1()
7              {
8                  Console.WriteLine ("Constructing with public
9 method.");
10             }
11             public void MyMethod ()
12             {
13                 Console.WriteLine ("Calling MyMethod.");
14             }
15         }
16     }
17
```

18 The following code references the class library above, and accesses  
19 TestNameSpace.Class1.MyMethod. This code is compiled into an  
20 application.  
21  
22 [C#]

```
23      using System;
24      using TestNameSpace;
25      class AppTest
26      {
27          public static void Main()
28          {
29              Class1 test = new Class1();
30              test.MyMethod();
31          }
32      }
33
```

34 The output of the application is  
35  
36 Constructing with public method.  
37  
38  
39 Calling MyMethod.  
40

1  
2  
3  
4  
5  
6  
7  
8  
9  
10  
11  
12  
13  
14  
15  
16  
17  
18  
19  
20  
21  
22  
23

The code for the class library is changed and recompiled so that TestNameSpace.Class1.MyMethod is no longer public. The following code changes MyMethod from public to private.

```
[C#]

using System;
namespace TestNameSpace
{
    public class Class1
    {
        public Class1()
        {
            Console.WriteLine ("Constructing with private
method.");
        }
        private void MyMethod ()
        {
            Console.WriteLine ("Calling MyMethod.");
        }
    }
}
```

24  
25  
26  
27  
28  
29  
30  
31  
32

When the application is executed again without being recompiled, the output is

```
Unhandled Exception: System.MethodAccessException:
TestNameSpace.Class1.MyMethod()

at AppTest.Main()
```

33

# 1 MethodAccessException() Constructor

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

## 6 Summary

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

## 9 Description

10 This constructor initializes the  
11 **System.MethodAccessException.Message** property of the new  
12 instance to a system-supplied message that describes the error, such  
13 as "Attempt to access the method failed." This message takes into  
14 account the current system culture.

15  
16 The **System.MethodAccessException.InnerException** property of  
17 the new instance is initialized to **null**.

18

# 1 MethodAccessException(System.String) 2 Constructor

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

## 8 Summary

9 Constructs and initializes a new instance of the  
10 **System.MethodAccessException** class with a specified error  
11 message.

## 12 Parameters

13  
14

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.

15  
16

## 16 Description

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

23  
24  
25

The **System.MethodAccessException.InnerException** property of the new instance is initialized to **null**.

26

# 1 MethodAccessException(System.String, 2 System.Exception) Constructor

```
3 [ILASM]  
4 public rtspecialname specialname instance void .ctor(string  
5 message, class System.Exception inner)  
  
6 [C#]  
7 public MethodAccessException(string message, Exception  
8 inner)
```

## 9 Summary

10 Constructs and initializes a new instance of the  
11 **System.MethodAccessException** class with a specified error  
12 message and a reference to the inner exception that is the cause of  
13 the current exception.

## 14 Parameters

15  
16

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>inner</i>	An instance of <b>System.Exception</b> that is the cause of the current exception. If <i>inner</i> is not a <b>null</b> reference, the current exception was raised in a catch block handling <i>inner</i> .

17  
18

## Description

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

27  
28  
29

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

30