

System.TypeLoadException Class

```
[ILAsm]
.class public serializable TypeLoadException extends
System.SystemException

[C#]
public class TypeLoadException: SystemException
```

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:*
 - CLSCompliantAttribute(true)

Summary

Represents the error that occurs when the system cannot load a `System.Type`.

Inherits From: System.SystemException

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

`System.TypeLoadException` is thrown when the system cannot load a `System.Type`, or cannot locate the assembly that contains the `System.Type`.

[*Note:* The following CIL instructions throw `System.TypeLoadException` and set the `TypeName` property via some unspecified mechanism:

- `box`
- `castclass`
- `cpobj`
- `isinst`
- `ldobj`
- `mkrefany`
- `refanyval`

- 1 • stobj
- 2 • unbox
- 3]
- 4

TypeLoadException() Constructor

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

Summary

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

Description

This constructor initializes the `System.TypeLoadException.Message` property of the new instance to a system-supplied message that describes the error, such as "A failure has occurred while loading a type." This message takes into account the current system culture.

The `System.TypeLoadException.TypeName` property is initialized to `System.String.Empty`, and the `System.TypeLoadException.InnerException` property is initialized to `null`.

TypeLoadException(System.String)

Constructor

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

[C#]
public TypeLoadException(string message)
```

Summary

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

The `System.TypeLoadException.TypeName` property is initialized to `System.String.Empty`, and the `System.TypeLoadException.InnerException` property is initialized to null.

TypeLoadException(System.String, System.Exception) Constructor

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

[C#]
public TypeLoadException(string message, Exception inner)
```

Summary

Constructs and initializes a new instance of the `System.TypeLoadException` 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>inner</i>	An instance of <code>System.Exception</code> that is the cause of the current exception. If <i>inner</i> is non-null, then the current Exception was raised in a catch block handling <i>inner</i> .

Description

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

The `System.TypeLoadException.TypeName` property is initialized to `System.String.Empty`.

For more information on inner exceptions, see `System.Exception.InnerException`.

TypeLoadException.Message Property

```
[ILAsm]  
.property string Message { public hidebysig virtual specialname string  
get_Message() }  
  
[C#]  
public override string Message { get; }
```

Summary

Gets the error message for this exception.

Property Value

A `System.String` containing a message that describes the error.

Description

This property is read-only.

[*Note:* This property overrides `System.Exception.Message`.]

If no message was supplied to the constructor for the current instance, the system supplies a default message that is formatted using the current system culture. The system-supplied message includes the fully qualified name of the type that failed to load, and the string obtained by invoking `System.Reflection.Assembly.ToString` on the assembly that referenced the type. For a type named *MyTypes.MyClass*, referenced by an assembly with the simple name *MyAssembly*, the message might read as follows:

Could not load type MyTypes.MyClass from assembly MyAssembly,
Version=0.0.0.0, Culture=neutral, PublicKeyToken=null.

TypeLoadException.TypeName Property

```
[ILAsm]  
.property string TypeName { public hidebysig specialname instance string  
get_TypeName() }  
  
[C#]  
public string TypeName { get; }
```

Summary

Gets the fully qualified name of the `System.Type` that failed to load.

Property Value

A `System.String` containing the fully qualified type name.

Description

This property is read-only.