

System.SystemException Class

```
[ILASM]
.class public serializable SystemException extends
System.Exception

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

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

System.SystemException is the base class for all exceptions defined by the system.

Inherits From: System.Exception

Library: BCL

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 class is provided as a means to differentiate between exceptions defined by the system versus exceptions defined by applications.

[*Note:* For more information on exceptions defined by applications, see **System.ApplicationException**.]

[*Note:* **System.SystemException** does not provide information as to the cause of the Exception. In most scenarios, instances of this class should not be thrown. In cases where this class is instantiated, a human-readable message describing the error should be passed to the constructor.]

1 **SystemException() Constructor**

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

6 **Summary**

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

9 **Description**

10 This constructor initializes the **System.SystemException.Message**
11 property of the new instance to a system-supplied message that
12 describes the error, such as "A system error has occurred." This
13 message takes into account the current system culture.
14
15 The **System.SystemException.InnerException** property is
16 initialized to **null**.

17

1 SystemException(System.String)

2 Constructor

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

8 Summary

9 Constructs and initializes a new instance of the
10 **System.SystemException** 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 Description

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

22

SystemException(System.String, System.Exception) Constructor

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

[C#]
public SystemException(string message, Exception
innerException)
```

Summary

Constructs and initializes a new instance of the **System.SystemException** class.

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>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> .

Description

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