

System.OutOfMemoryException Class

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

[C#]
public class OutOfMemoryException: 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 insufficient memory prevents the current memory allocation from succeeding.

Inherits From: System.SystemException

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

[*Note:* The following CIL instructions throw `System.OutOfMemoryException`:

- `box`
- `newarr`
- `newobj`

]

OutOfMemoryException() Constructor

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

Summary

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

Description

This constructor initializes the `System.OutOfMemoryException.Message` property of the new instance to a system-supplied message that describes the error, such as "There was not enough memory to continue the execution of the program." This message takes into account the current system culture.

The `System.OutOfMemoryException.InnerException` property is initialized to `null`.

OutOfMemoryException(System.String) Constructor

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

Summary

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

Parameters

Parameter	Description
<i>message</i>	A <code>System.String</code> that describes the error. The content of <code>message</code> 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.OutOfMemoryException.Message` property of the new instance using `message`. If `message` is null, the `System.OutOfMemoryException.Message` property is initialized to the system-supplied message provided by the constructor that takes no arguments. The `System.OutOfMemoryException.InnerException` property is initialized to null.

OutOfMemoryException(System.String, System.Exception) Constructor

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

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

Summary

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

Description

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