

# 1 System.OutOfMemoryException Class

```
2 [ILAsm]  
3 .class public serializable OutOfMemoryException extends  
4 System.SystemException  
  
5 [C#]  
6 public class OutOfMemoryException: SystemException
```

## 7 Assembly Info:

- 8 • *Name:* mscorlib
- 9 • *Public Key:* [00 00 00 00 00 00 00 00 04 00 00 00 00 00 00]
- 10 • *Version:* 2.0.x.x
- 11 • *Attributes:*
  - 12 ○ CLSCompliantAttribute(true)

## 13 Summary

14 Represents the error that occurs when insufficient memory prevents the current  
15 memory allocation from succeeding.

## 16 Inherits From: System.SystemException

17

18 **Library:** BCL

19

20 **Thread Safety:** All public static members of this type are safe for multithreaded operations.  
21 No instance members are guaranteed to be thread safe.

22

## 23 Description

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

- 25 • box
- 26 • newarr
- 27 • newobj

28 ]

29

# 1 OutOfMemoryException() Constructor

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

## 6 Summary

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

## 8 Description

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

13  
14 The `System.OutOfMemoryException.InnerException` property is initialized to `null`.

15

# 1 OutOfMemoryException(System.String)

## 2 Constructor

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

### 7 Summary

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

### 9 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.

10

### 11 Description

12 This constructor initializes the `System.OutOfMemoryException.Message` property of the  
13 new instance using *message*. If *message* is null, the  
14 `System.OutOfMemoryException.Message` property is initialized to the system-supplied  
15 message provided by the constructor that takes no arguments. The  
16 `System.OutOfMemoryException.InnerException` property is initialized to null.

17

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

```
3 [ILAsm]  
4 public rtspecialname specialname instance void .ctor(string message, class  
5 System.Exception innerException)  
  
6 [C#]  
7 public OutOfMemoryException(string message, Exception innerException)
```

## 8 Summary

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

## 10 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> .

## 11 12 Description

13 This constructor initializes the `System.OutOfMemoryException.Message` property of the  
14 new instance using *message*, and the `System.OutOfMemoryException.InnerException`  
15 property using *innerException*. If *message* is null, the  
16 `System.OutOfMemoryException.Message` property is initialized to the system-supplied  
17 message provided by the constructor that takes no arguments.

18  
19 [Note: For information on inner exceptions, see `System.Exception.InnerException`.]  
20  
21

22