System.InvalidCastException Class

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

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

Assembly Info:

- *Name:* mscorlib
- *Public Key:* [00 00 00 00 00 00 00 00 04 00 00 00 00 00 00 00]
- *Version:* 1.0.x.x
- *Attributes:*
    - CLSCompliantAttribute(true)

Summary

Represents the error that occurs when an explicit conversion (casting operation) fails because the source type cannot be converted to the destination type.

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:* For information on conversions supported by the system, see the **System.Convert** class.

For errors that occur when the destination type can store source type values, but is not large enough to store a specific source value, see **System.OverflowException** exception.

The following IL instructions throw **System.InvalidCastException**:

- castclass

- refanyval

- unbox

    ]

Example

The following example demonstrates an error that causes a
System.InvalidCastException exception.

[C#]

```
using System;
public class InvalidCastExample {
 public static void Main() {
    object obj = new Object();
    int i;
    try {
      i = (int) obj;
    }
    catch(InvalidCastException e) {
      Console.WriteLine("Caught: {0}", e);
    }
  }
}
```

The output is

```
Caught: System.InvalidCastException: Specified cast is not
valid.
   at InvalidCastExample.Main()
```

InvalidCastException() Constructor

```
[ILASM]
public rtspecialname specialname instance void .ctor()


[C#]
public InvalidCastException()
```

Summary

Constructs and initializes a new instance of the
System.InvalidCastException class.

Description

This constructor initializes the
System.InvalidCastException.Message property of the new
instance to a system-supplied message that describes the error, such
as "Cannot cast from source type to destination type." This message
takes into account the current system culture.

The **System.InvalidCastException.InnerException** property is
initialized to **null**.

InvalidCastException(System.String) Constructor

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


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

Summary

Constructs and initializes a new instance of the
System.InvalidCastException class.

Parameters

Parameter	Description
message	A **System.String** that describes the error. The content of *message* 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.InvalidCastException.Message property of the new
instance using *message*. If *message* is **null**, the
System.InvalidCastException.Message property is initialized to the
system-supplied message provided by the constructor that takes no
arguments. The **System.InvalidCastException.InnerException**
property is initialized to **null**.

InvalidCastException(System.String, System.Exception) Constructor

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

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

Summary

Constructs and initializes a new instance of the
System.InvalidCastException class.

Parameters

Parameter	Description
message	A **System.String** that describes the error. The content of *message* 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.
innerException	An instance of **System.Exception** that is the cause of the current exception. If *innerException* is non-null, then the current exception was raised in a catch block handling *innerException*.

Description

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