

# System.CannotUnloadAppDomainException Class

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

[C#]
public class CannotUnloadAppDomainException: 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 an attempt to unload an application domain fails.

## 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.CannotUnloadAppDomainException is thrown when there is an attempt to unload:

- The default application domain, which must remain loaded during the lifetime of the application.
- An application domain with a running thread that cannot immediately stop execution.
- An application domain that has already been unloaded.

## Example

The following example demonstrates an error that causes the System.CannotUnloadAppDomainException exception to be thrown.

```
[C#]
```

```
1  using System;
2  using System.Threading;
3
4  public class CannotUnloadAppDomainExceptionTest {
5      public static void Main() {
6          AppDomain ad = Thread.GetDomain();
7          AppDomain.Unload(ad);
8      }
9  }
10 The output is
11
12 Unhandled Exception: System.CannotUnloadAppDomainException: The default
13 domain cannot be unloaded.
14     at System.AppDomain.Unload(AppDomain domain)
15     at CannotUnloadAppDomainExceptionTest.Main()
16
```

# CannotUnloadAppDomainException()

## Constructor

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

### Summary

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

### Description

This constructor initializes the `System.CannotUnloadAppDomainException.Message` property of the new instance to a system-supplied message that describes the error, such as "Attempt to unload the AppDomain failed." This message takes into account the current system culture.

The `System.CannotUnloadAppDomainException.InnerException` property of the new instance is initialized to `null`.

# CannotUnloadAppDomainException(System.String) Constructor

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

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

## Summary

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

The `System.CannotUnloadAppDomainException.InnerException` property of the new instance is initialized to null.

# CannotUnloadAppDomainException(System.String, System.Exception) Constructor

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

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

## Summary

Constructs and initializes a new instance of the `System.CannotUnloadAppDomainException` 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 exception. If <i>innerException</i> is not a null reference, the current exception was raised in a catch block handling <i>innerException</i> .                         |

## Description

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

[Note: For more information on inner exceptions, see `System.Exception.InnerException`.]