

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]
- *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#]

```
using System;
using System.Threading;

public class CannotUnloadAppDomainExceptionTest {
    public static void Main() {
        AppDomain ad = Thread.GetDomain();
        AppDomain.Unload(ad);
    }
}
```

The output is

```
Unhandled Exception: System.CannotUnloadAppDomainException: The default
domain cannot be unloaded.
   at System.AppDomain.Unload(AppDomain domain)
   at CannotUnloadAppDomainExceptionTest.Main()
```

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 <code>null</code> 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`.]