

System.Runtime.InteropServices.InAttribute Class

```
[ILAsm]
.class public sealed InAttribute extends System.Attribute

[C#]
public sealed class InAttribute: Attribute
```

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)

Type Attributes:

- AttributeUsageAttribute(AttributeTargets.Parameter, AllowMultiple=false, Inherited=false)

Summary

Indicates that a parameter will be marshaled from the caller to the callee.

Inherits From: System.Attribute

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

[Note: The System.Runtime.InteropServices.InAttribute and System.Runtime.InteropServices.OutAttribute are not required. In the absence of explicit settings, the system assumes that all arguments passed by reference are passed in/out and that all non-reference parameters are in. The only exception is the System.Text.StringBuilder class, which is always assumed to be in/out. The System.Runtime.InteropServices.InAttribute and System.Runtime.InteropServices.OutAttribute are particularly useful when applied to formatted types that cannot be block-copied. Since these types require copying during marshaling, you can use System.Runtime.InteropServices.InAttribute and System.Runtime.InteropServices.OutAttribute to eliminate the generation of

1 unnecessary copies.]

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5 Compilers are required to not preserve this type in metadata as a custom attribute.
6 Instead, compilers are required to emit it directly in the file format, as described in
7 Partition II of the CLI Specification. Metadata consumers, such as the Reflection API, are
8 required to retrieve this data from the file format and return it as if it were a custom
9 attribute.

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1 InAttribute() Constructor

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

6 Summary

7 Constructs and initializes a new instance of the
8 System.Runtime.InteropServices.InAttribute class.

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