

System.Runtime.InteropServices.OutAttribute Class

```
[ILASM]
.class public sealed OutAttribute extends System.Attribute

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

Assembly Info:

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

Type Attributes:

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

Summary

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

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

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System.Runtime.InteropServices.OutAttribute to eliminate the generation of unnecessary copies.]

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

1 OutAttribute() Constructor

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

6 Summary

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

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