

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

1
2 Compilers are required to not preserve this type in metadata as a custom attribute.
3 Instead, compilers are required to emit it directly in the file format, as described in
4 Partition II of the CLI Specification. Metadata consumers, such as the Reflection API, are
5 required to retrieve this data from the file format and return it as if it were a custom
6 attribute.

7

OutAttribute() Constructor

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

Summary

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