

# 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

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

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

10

# 1 OutAttribute() Constructor

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

## 6 Summary

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

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