

# System.Runtime.CompilerServices.MethodImplAttribute Class

```
[ILASM]
.class public sealed serializable MethodImplAttribute
extends System.Attribute

[C#]
public sealed class MethodImplAttribute: 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.Constructor | AttributeTargets.Method, AllowMultiple=false, Inherited=false)

## Summary

Specifies the details of how a method is implemented.

## 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

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.

[Note: This class uses the **System.Runtime.CompilerServices.MethodImplOptions** enumeration to describe the implementation details of methods. For most languages, it is recommended that the notions of "forward" and

- 1 "synchronized" be attached to methods using language syntax instead
- 2 of custom attributes.]
- 3

# MethodImplAttribute(System.Runtime.CompilerServices.MethodImplOptions) Constructor

```
[ILASM]
public rtspecialname specialname instance void
.ctor(valuetype
System.Runtime.CompilerServices.MethodImplOptions
methodImplOptions)

[C#]
public MethodImplAttribute(MethodImplOptions
methodImplOptions)
```

## Summary

Constructs and initializes a new instance of the **System.Runtime.CompilerServices.MethodImplAttribute** class using the specified **System.Runtime.CompilerServices.MethodImplOptions** value.

## Parameters

Parameter	Description
<i>methodImplOptions</i>	A <b>System.Runtime.CompilerServices.MethodImplOptions</b> value that specifies a property of the method attributed by the current instance.

# MethodImplAttribute(System.Int16)

## Constructor

```
[ILASM]
public rtspecialname specialname instance void .ctor(int16
value)

[C#]
public MethodImplAttribute(short value)
```

### Summary

Constructs and initializes a new instance of the **MethodImplAttribute** class with the specified **System.Int16** value interpreted as a **System.Runtime.CompilerServices.MethodImplOptions** value.

### Parameters

Parameter	Description
<i>value</i>	A <b>System.Int16</b> that is interpreted as a bit-field that represents the desired <b>System.Runtime.CompilerServices.MethodImplOptions</b> value, which specifies a property of the method attributed by the current instance.

# 1 **MethodImplAttribute()** Constructor

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

## 6 **Summary**

7 Constructs a new instance of the **MethodImplAttribute** class.

8

# MethodImplOptions.Value Property

```
[ILASM]
.property valuetype
System.Runtime.CompilerServices.MethodImplOptions Value {
public hidebysig specialname instance valuetype
System.Runtime.CompilerServices.MethodImplOptions
get_Value() }

[C#]
public MethodImplOptions Value { get; }
```

## Summary

Gets the **System.Runtime.CompilerServices.MethodImplOptions** value describing the method attributed by the current instance.

## Property Value

The **System.Runtime.CompilerServices.MethodImplOptions** value describing the method attributed by the current instance.

## Description

This property is read-only.