

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

1 MethodImplAttribute(System.Runtime.Co 2 mpilerServices.MethodImplOptions) 3 Constructor

```
4 [ILASM]  
5 public rtpecialname specialname instance void  
6 .ctor(valuetype  
7 System.Runtime.CompilerServices.MethodImplOptions  
8 methodImplOptions)  
9  
10 [C#]  
11 public MethodImplAttribute(MethodImplOptions  
methodImplOptions)
```

12 Summary

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

17 Parameters

18
19

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

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1 MethodImplAttribute(System.Int16)

2 Constructor

```
3 [ILASM]  
4 public rtspecialname specialname instance void .ctor(int16  
5 value)  
  
6 [C#]  
7 public MethodImplAttribute(short value)
```

8 Summary

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

12 Parameters

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14

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

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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

1 MethodImplOptions.Value Property

```
2 [ILASM]
3 .property valuetype
4 System.Runtime.CompilerServices.MethodImplOptions Value {
5 public hidebysig specialname instance valuetype
6 System.Runtime.CompilerServices.MethodImplOptions
7 get_Value() }
8
9 [C#]
10 public MethodImplOptions Value { get; }
```

10 Summary

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

13 Property Value

14

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

17 Description

18 This property is read-only.

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