

System.ArgIterator Structure

```
[ILAsm]
.class public sealed ArgIterator extends System.ValueType

[C#]
public struct ArgIterator
```

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)

Summary

Represents an iterator for a variable-length argument list.

Inherits From: System.ValueType

Library: Vararg

Thread Safety: All public static members of this type are safe for multithreaded operations. No instance members are guaranteed to be thread safe.

Description

This class is used to enumerate the optional arguments in an argument list.

[*Note:* The functionality in the `System.ArgIterator` structure is typically hidden in the syntax of a specific programming language. For example, in the C++ programming language you declare a variable-length argument list by specifying an ellipsis ("...") at the end of the argument list.]

ArgIterator(System.RuntimeArgumentHandle) Constructor

```
[ILAsm]  
public rtspecialname specialname instance void .ctor(valuetype  
System.RuntimeArgumentHandle rth)  
  
[C#]  
public ArgIterator(RuntimeArgumentHandle rth)
```

Summary

Constructs and initializes a new instance of System.ArgIterator.

Parameters

Parameter	Description
<i>rth</i>	An argument list consisting of mandatory and optional arguments.

Description

The new System.ArgIterator object enumerates the argument list starting from the first optional argument.

ArgIterator.End() Method

```
[ILAsm]  
.method public hidebysig void End()  
  
[C#]  
public void End()
```

Summary

Concludes processing of the variable-length argument list represented by this instance.

Description

[*Note:* This method corresponds, for example, to the `va_end` method in the C standard library.]

ArgIterator.Equals(System.Object) Method

```
[ILAsm]  
.method public hidebysig virtual bool Equals(object obj)  
  
[C#]  
public override bool Equals(object obj)
```

Summary

This method is not supported, and always throws `System.NotSupportedException`.

Parameters

Parameter	Description
<i>obj</i>	The <code>System.Object</code> to compare to the current instance.

Return Value

This comparison is not supported. No value is returned.

Description

[*Note:* This method overrides `System.Object.Equals`.]

ArgIterator.GetNextArg() Method

```
[ILAsm]
.method public hidebysig TypedReference GetNextArg()

[C#]
public TypedReference GetNextArg()
```

Summary

Returns the next argument in a variable-length argument list.

Type Attributes:

- CLSCompliantAttribute(false)

Return Value

The next argument as a *System.TypedReference* object.

Description

The iterator is automatically advanced to the next argument.

Exceptions

Exception	Condition
System.InvalidOperationException	An attempt was made to read beyond the end of the list.

ArgIterator.GetNextArgType() Method

```
[ILAsm]  
.method public hidebysig RuntimeTypeHandle GetNextArgType()  
  
[C#]  
public RuntimeTypeHandle GetNextArgType()
```

Summary

Returns the type of the next argument.

Return Value

The next argument as a `System.RuntimeTypeHandle` object.

Description

This method does not advance the iterator to the next argument.

Returns the type of the argument as specified in the call. For example, if an argument has type `System.String`, but the call specifies the argument as type `System.Object`, then this function returns `System.Object`.

ArgIterator.GetRemainingCount() Method

```
[ILAsm]  
.method public hidebysig int32 GetRemainingCount()  
  
[C#]  
public int GetRemainingCount()
```

Summary

Returns the number of arguments remaining in the argument list.

Return Value

The number of remaining arguments as a `System.Int32`.