

System.Runtime.InteropServices.LayoutKind Enum

```
[ILAsm]
.class public sealed serializable LayoutKind extends System.Enum

[C#]
public enum LayoutKind
```

Assembly Info:

- *Name:* mscorlib
- *Public Key:* [00 00 00 00 00 00 00 00 04 00 00 00 00 00 00]
- *Version:* 2.0.x.x
- *Attributes:*
 - CLSCompliantAttribute(true)

Summary

Indicates the physical memory layout of objects exported to unmanaged code.

Inherits From: System.Enum

Library: RuntimeInfrastructure

LayoutKind.Auto Field

```
[ILAsm]
.field public static literal valuetype
System.Runtime.InteropServices.LayoutKind Auto = 3

[C#]
Auto = 3
```

Summary

Indicates that the appropriate layout of members of an object is automatically chosen. [*Note:* The layout in this case is implementation defined.]

LayoutKind.Explicit Field

```
[ILAsm]
.field public static literal valuetype
System.Runtime.InteropServices.LayoutKind Explicit = 2

[C#]
Explicit = 2
```

Summary

Indicates that the precise position of each member of an object is explicitly controlled in unmanaged memory. Each member of the exported class or structure is required to use `System.Runtime.InteropServices.FieldOffsetAttribute` to indicate the position of that field within the type.

[*Note:* For an example that uses `System.Runtime.InteropServices.FieldOffsetAttribute`, see the `System.Runtime.InteropServices.StructLayoutAttribute` class overview.]

LayoutKind.Sequential Field

```
[ILAsm]  
.field public static literal valuetype  
System.Runtime.InteropServices.LayoutKind Sequential = 0  
  
[C#]  
Sequential = 0
```

Summary

Indicates that object members are laid out sequentially, in the order in which they appear in the object's type definition.