

# 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.