

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 00 04 00 00 00 00 00 00]
- *Version:* 1.0.x.x
- *Attributes:*
 - CLSCompliantAttribute(true)

Summary

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

Inherits From: System.Enum

Library: RuntimeInfrastructure

1 LayoutKind.Auto Field

```
2 [ILASM]  
3 .field public static literal valuetype  
4 System.Runtime.InteropServices.LayoutKind Auto = 3  
  
5 [C#]  
6 Auto = 3
```

7 Summary

8 Indicates that the appropriate layout of members of an object is
9 automatically chosen. [*Note:* The layout in this case is implementation
10 defined.]
11

1 LayoutKind.Explicit Field

```
2 [ILASM]  
3 .field public static literal valuetype  
4 System.Runtime.InteropServices.LayoutKind Explicit = 2  
  
5 [C#]  
6 Explicit = 2
```

7 Summary

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

13
14 [Note: For an example that uses
15 **System.Runtime.InteropServices.FieldOffsetAttribute**, see the
16 **System.Runtime.InteropServices.StructLayoutAttribute** class
17 overview.]

18

1 LayoutKind.Sequential Field

```
2 [ILASM]  
3 .field public static literal valuetype  
4 System.Runtime.InteropServices.LayoutKind Sequential = 0  
  
5 [C#]  
6 Sequential = 0
```

7 Summary

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

10