

# 1 System.Runtime.InteropServices.LayoutKind 2 Enum

3  
4

```
5 [ILASM]  
6 .class public sealed serializable LayoutKind extends  
7 System.Enum  
8 [C#]  
9 public enum LayoutKind
```

## 10 Assembly Info:

- 11 • *Name:* mscorlib
- 12 • *Public Key:* [00 00 00 00 00 00 00 00 04 00 00 00 00 00 00]
- 13 • *Version:* 1.0.x.x
- 14 • *Attributes:*
  - 15 ○ CLSCompliantAttribute(true)

## 16 Summary

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

## 20 Inherits From: System.Enum

21

22 **Library:** RuntimeInfrastructure

23

24

25

# 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.

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