

1 System.Runtime.InteropServices.LayoutKind 2 Enum

```
3 [ILAsm]  
4 .class public sealed serializable LayoutKind extends System.Enum  
5 [C#]  
6 public enum LayoutKind
```

7 Assembly Info:

- 8 • *Name:* mscorlib
- 9 • *Public Key:* [00 00 00 00 00 00 00 00 04 00 00 00 00 00 00 00]
- 10 • *Version:* 2.0.x.x
- 11 • *Attributes:*
 - 12 ○ CLSCompliantAttribute(true)

13 Summary

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

15 **Inherits From:** System.Enum

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17 **Library:** RuntimeInfrastructure

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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 automatically chosen.
9 [*Note:* The layout in this case is implementation defined.]

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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 explicitly controlled in
9 unmanaged memory. Each member of the exported class or structure is required to use
10 `System.Runtime.InteropServices.FieldOffsetAttribute` to indicate the position of
11 that field within the type.

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13 [*Note:* For an example that uses
14 `System.Runtime.InteropServices.FieldOffsetAttribute`, see the
15 `System.Runtime.InteropServices.StructLayoutAttribute` class overview.]
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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 which they
9 appear in the object's type definition.

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