

# 1 System.Runtime.CompilerServices.RuntimeHe 2 lpers Class

```
3 [ILAsm]  
4 .class public sealed serializable RuntimeHelpers extends System.Object  
5 [C#]  
6 public sealed class RuntimeHelpers
```

## 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 Implements static methods and properties that provide special support for compilers.

## 15 Inherits From: System.Object

16

17 **Library:** RuntimeInfrastructure

18

19 **Thread Safety:** All public static members of this type are safe for multithreaded operations.  
20 No instance members are guaranteed to be thread safe.

21

## 22 Description

23 [Note: The types in System.Runtime.CompilerServices are intended primarily for use  
24 by compilers, not application programmers. They allow compilers to easily implement  
25 certain language features that are not directly visible to programmers.]  
26  
27

28

1  
2 **RuntimeHelpers.InitializeArray(System.Array,**  
3 **System.RuntimeFieldHandle) Method**

```
4 [ILAsm]  
5 .method public hidebysig static void InitializeArray(class System.Array  
6 array, valuetype System.RuntimeFieldHandle fldHandle)  
  
7 [C#]  
8 public static void InitializeArray(Array array, RuntimeFieldHandle  
9 fldHandle)
```

10 **Summary**

11 Provides a fast way to initialize a `System.Array` from data stored in a module.

12 **Parameters**

Parameter	Description
<i>array</i>	The <code>System.Array</code> to be initialized.
<i>fldHandle</i>	A <code>System.RuntimeFieldHandle</code> specifying the location of the data used to initialize <i>array</i> .

13  
14 **Description**

15 This method is for compiler use only.

16

1  
2 **RuntimeHelpers.RunClassConstructor(System**  
3 **.RuntimeTypeHandle) Method**

```
4 [ILAsm]  
5 .method public hidebysig static void RunClassConstructor(valuetype  
6 System.RuntimeTypeHandle type)  
7 [C#]  
8 public static void RunClassConstructor(RuntimeTypeHandle type)
```

9 **Summary**

10 Runs a specified class constructor method.

11 **Parameters**

Parameter	Description
<i>type</i>	A System.RuntimeTypeHandle specifying the class constructor method to run.

12

13

# 1 RuntimeHelpers.OffsetToStringData Property

```
2 [ILAsm]  
3 .property int32 OffsetToStringData { public hidebysig static specialname  
4 int32 get_OffsetToStringData() }  
5 [C#]  
6 public static int OffsetToStringData { get; }
```

## 7 Summary

8 Gets the number of bytes between the start of a `System.String` and the first  
9 `System.Char` in the string.

## 10 Property Value

11 A `System.Int32` containing the number of bytes between the start of a `System.String`  
12 and the first `System.Char` in the string.

## 13 Description

14 This property is read-only.

15  
16 [*Note:* This property is deprecated; its design is considered unnecessarily inflexible. It is  
17 expected that an improved design can be incorporated into the next revision of this  
18 Standard.

19  
20 Compilers use this property for unsafe, but efficient, pointer operations on the  
21 characters in a managed string. Compilers should pin the string against movement by  
22 the garbage collector prior to use. Note that strings are immutable: their contents can  
23 be read but not changed.

24  
25 The contents of these offset bytes are implementation-defined.

26  
27 ]

28