

# 1 System.Runtime.CompilerServices.RuntimeHelpers Class

2  
3  
4

```
5 [ILASM]  
6 .class public sealed serializable RuntimeHelpers extends  
7 System.Object  
8 [C#]  
9 public sealed class RuntimeHelpers
```

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

## 20 Inherits From: System.Object

21

22 **Library:** RuntimeInfrastructure

23

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

26

## 27 Description

28 [Note: The types in **System.Runtime.CompilerServices** are  
29 intended primarily for use by compilers, not application programmers.  
30 They allow compilers to easily implement certain language features  
31 that are not directly visible to programmers.]

32

# 1 RuntimeHelpers.InitializeArray(System.Array, System.RuntimeFieldHandle) Method

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

## 10 Summary

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

## 13 Parameters

14  
15

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

16

## 17 Description

18 This method is for compiler use only.

19

# 1 RuntimeHelpers.RunClassConstructor(System.RuntimeTypeHandle) Method

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

## 10 Summary

11 Runs a specified class constructor method.

## 12 Parameters

13  
14

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

15  
16  
17

# 1 RuntimeHelpers.OffsetToStringData

## 2 Property

```
3 [ILASM]
4 .property int32 OffsetToStringData { public hideby sig
5 static specialname int32 get_OffsetToStringData() }
6
7 [C#]
8 public static int OffsetToStringData { get; }
```

### 8 Summary

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

### 11 Property Value

12

13 A **System.Int32** containing the number of bytes between the start of  
14 a **System.String** and the first **System.Char** in the string.

### 15 Description

16 This property is read-only.

17

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

21

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

26

27 The contents of these offset bytes are implementation-defined.]

28