

System.Runtime.CompilerServices.RuntimeHelpers Class

```
[ILASM]
.class public sealed serializable RuntimeHelpers extends
System.Object

[C#]
public sealed class RuntimeHelpers
```

Assembly Info:

- *Name:* mscorlib
- *Public Key:* [00 00 00 00 00 00 00 00 04 00 00 00 00 00 00]
- *Version:* 1.0.x.x
- *Attributes:*
 - CLSCompliantAttribute(true)

Summary

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

Inherits From: System.Object

Library: RuntimeInfrastructure

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

Description

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

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

```
[ILASM]
.method public hidebysig static void InitializeArray(class
System.Array array, valuetype System.RuntimeFieldHandle
fldHandle)

[C#]
public static void InitializeArray(Array array,
RuntimeFieldHandle fldHandle)
```

Summary

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

Parameters

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

Description

This method is for compiler use only.

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 System.RuntimeTypeHandle 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