

1 System.Func<-T1,-T2,-T3,-T4,+TResult> 2 Delegate

```
3 [ILAsm]  
4 .class public sealed System.Func`5<-T1,-T2,-T3,-T4,+TResult> extends  
5 System.MulticastDelegate  
  
6 [C#]  
7 public delegate TResult Func<in T1,in T2,in T3,in T4,out TResult>(T1 arg1,  
8 T2 arg2, T3 arg3, T4 arg4);
```

9 Assembly Info:

- 10 • *Name:* mscorlib
- 11 • *Public Key:* [00 00 00 00 00 00 00 00 04 00 00 00 00 00 00 00]
- 12 • *Version:* 4.0.0.0
- 13 • *Attributes:*
 - 14 ○ CLSCompliantAttribute(true)

15 Summary

16 Encapsulates a method that has four parameters and returns a value of the type
17 specified by the *TResult* parameter.

18 Parameters

Parameter	Description
<i>arg1</i>	The first parameter of the method that this delegate encapsulates.
<i>arg2</i>	The second parameter of the method that this delegate encapsulates.
<i>arg3</i>	The third parameter of the method that this delegate encapsulates.
<i>arg4</i>	The fourth parameter of the method that this delegate encapsulates.

19
20 **Inherits From:** System.MulticastDelegate

21
22 **Library:** BCL

23
24 **Returns**

25
26 The return value of the method that this delegate encapsulates.

27
28 **Description**

1 You can use this delegate to represent a method that can be passed as a parameter
2 without explicitly declaring a custom delegate. The encapsulated method must
3 correspond to the method signature that is defined by this delegate. This means that the
4 encapsulated method must have four parameters, each of which is passed to it by value,
5 and that it must return a value.

6
7 *[Note:* To reference a method that has four parameters and returns `void`, use the
8 generic `System.Action<T1, T2, T3, T4>` delegate instead.

9
10]

11
12 When you use the `System.Func<T1, T2, T3, T4, TResult>` delegate, you do not have to
13 explicitly define a delegate that encapsulates a method with three parameters.

14
15 You can use the `System.Func<T1, T2, T3, T4, TResult>` delegate with anonymous
16 methods in C#. (For an introduction to anonymous methods, see the C# standard.)

17