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Hide Methods from debugger Using DebuggerHidden attribute

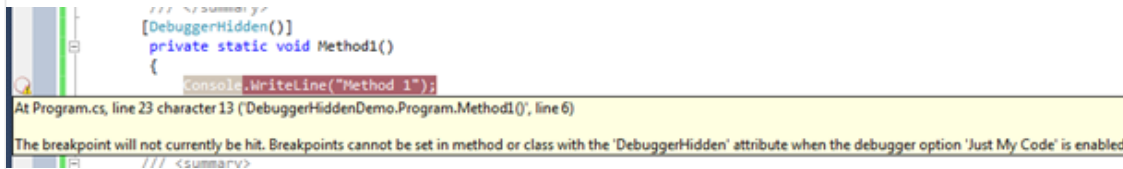
By Abhijit Jana | January 31, 2011

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DebuggerHidden attribute tells the Visual Studio debugger that the method is hidden from the debugging process and while debugging. This is quite helpful when you don't want to go to stepping inside of a method while debugging.

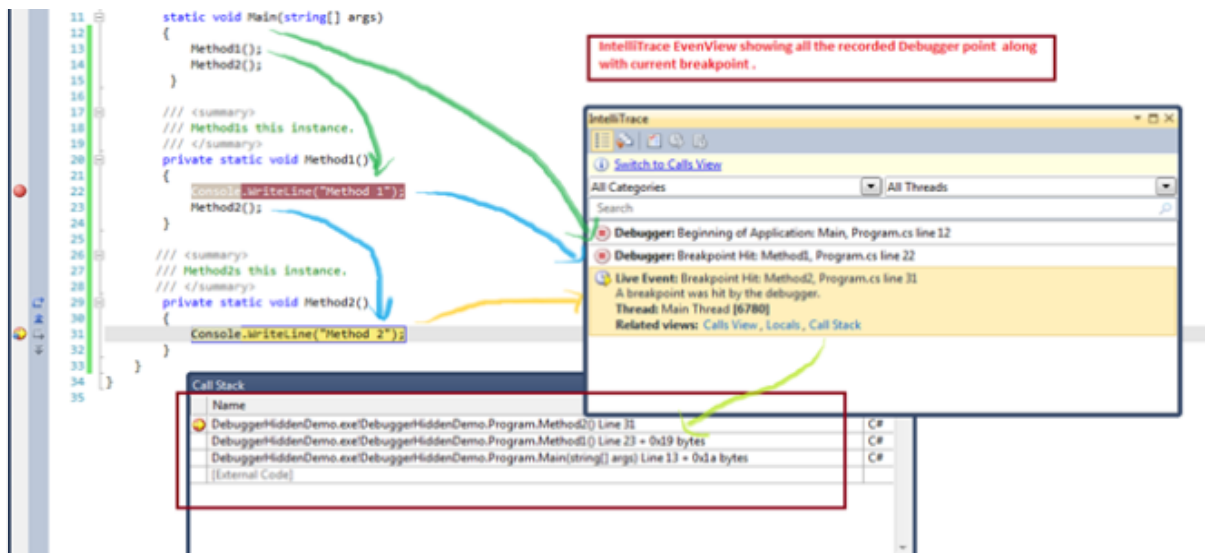
When you mark a method with **DebuggerHidden()** attributes, It's explicitly tells the debugger not to step inside of that methods and no break point will be hit over that method. Now I am going to explain the same using a Example with Intellitrace debugging.



Let's consider you have below code snippet

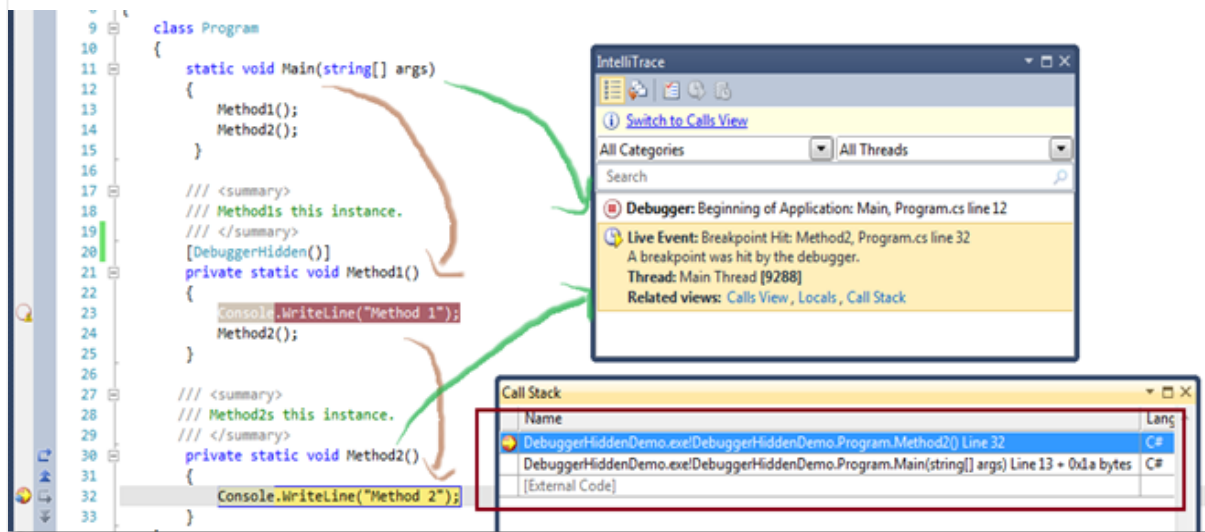
```
7 namespace DebuggerHiddenDemo
8 {
9     class Program
10    {
11        static void Main(string[] args)
12        {
13            Method1();
14            Method2();
15        }
16
17        /// <summary>
18        /// Method1s this instance.
19        /// </summary>
20        private static void Method1()
21        {
22            Console.WriteLine("Method 1");
23            Method2();
24        }
25
26        /// <summary>
27        /// Method2s this instance.
28        /// </summary>
29        private static void Method2()
30        {
31            Console.WriteLine("Method 2");
32        }
33    }
```

We have set two break points in each of the method (*Line 22*, and *Line 31* as shown) . Now if you run this application and check the output intelliTrace debugging window , you will get bellow out put



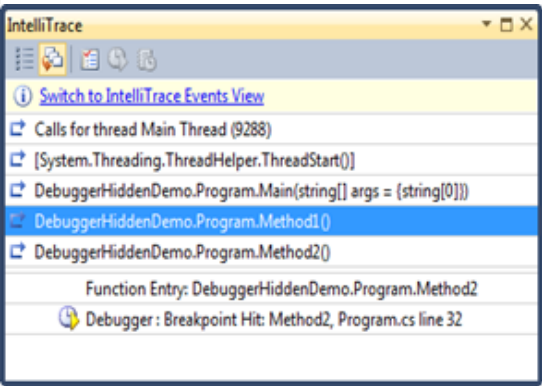
As per the above image, you can see the flow of the application from **Main() > Method1() > Method2()**. If you also check the current live event's "Call Stack", that also represent the call of method2() from method1(). This is as per our expected behavior.

Now, If you don't need to go inside Method1() while debugging and debugger should not stop inside method1() for any of the breakpoint, you have to add "**DebuggerHidden()**" attributes with the **method1()**. If you try to debug the application with the same breakpoint, **CallStack()** and **IntelliTrace debugger view** will be something different.



If you check the above image, debugger reached to Method2() through Method1(), but breakpoint in method1() never hits, because of the “DebuggerHidden” attribute.

If you move from “EventView” mode to “CallView” mode in Intellitrace window, you can find the actual flow of sequence of the program.



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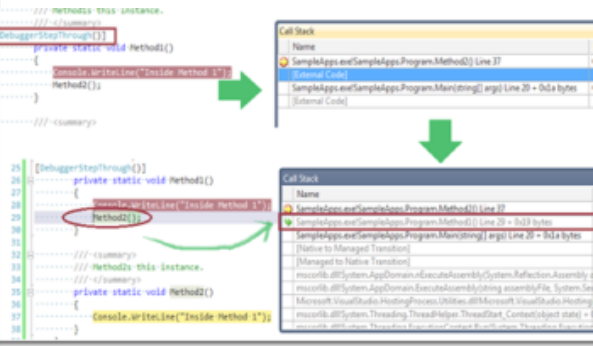
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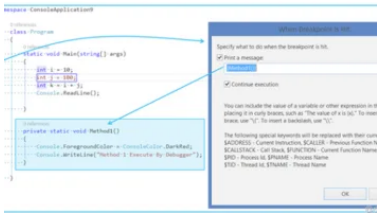
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Abhijit runs the Daily .NET Tips. He started this site with a vision to have a single knowledge base of .NET tips and tricks and share post that can quickly help any developers . He is a Former Microsoft ASP.NET MVP, CodeProject MVP, Mentor, Speaker, Author, Technology Evangelist and presently working as a .NET Consultant. He blogs at <http://abhijitjana.net> , you can follow him @AbhijitJana . He is the author of book Kinect for Windows SDK Programming Guide.

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August 15, 2011

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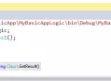
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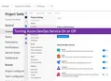


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