

## LinksPlatform's Platform.Diagnostics Class Library

### 1.1 ./csharp/Platform.Diagnostics/Performance.cs

```
1  using System;
2  using System.Diagnostics;
3  using System.Runtime.CompilerServices;
4
5  namespace Platform.Diagnostics
6  {
7      /// <summary>
8      /// <para>Provides a set of methods for performance measurement.</para>
9      /// <para>Предоставляет набор методов для замера производительности.</para>
10     /// </summary>
11     public static class Performance
12     {
13         /// <summary>
14         /// <para>Measures the time it takes to execute the action by executing it and using
15         /// <see cref="Stopwatch"/>.</para>
16         /// <para>Измеряет время, которое занимает выполнение действия, выполняя его и используя
17         /// <see cref="Stopwatch"/>.</para>
18         /// </summary>
19         /// <param name="action"><para>The <see cref="Action"/> delegate.</para><para>Делегат
20         /// <see cref="Action"/>.</para></param>
21         /// <returns>
22         /// <para>The time interval representing the time it took to execute the action.</para>
23         /// <para>Временной интервал, представляющий время, которое потребовалось для выполнения
24         /// действия.</para>
25         /// </returns>
26         [MethodImpl(MethodImplOptions.AggressiveInlining)]
27         public static TimeSpan Measure(Action action)
28         {
29             var sw = Stopwatch.StartNew();
30             action();
31             sw.Stop();
32             return sw.Elapsed;
33         }
34     }
35 }
```

### 1.2 ./csharp/Platform.Diagnostics.Tests/PerformanceTests.cs

```
1  using System;
2  using Xunit;
3
4  namespace Platform.Diagnostics.Tests
5  {
6      public class PerformanceTests
7      {
8          [Fact]
9          public void MeasureTest()
10         {
11             var result = 0;
12             var measurement = Performance.Measure(() => result = 1 + 1);
13             Assert.Equal(2, result);
14             Assert.True(measurement > TimeSpan.Zero);
15         }
16     }
17 }
```

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