

LinksPlatform's Platform.Counters Class Library

./Counter.cs

```
1  using System.Runtime.CompilerServices;
2
3  #pragma warning disable CS1591 // Missing XML comment for publicly visible type or member
4
5  namespace Platform.Counters
6  {
7      /// <remarks>
8      /// Must be class, not struct (in order to persist access to Count field value).
9      /// </remarks>
10     public class Counter
11     {
12         protected ulong _count;
13         public ulong Count => _count;
14         [MethodImpl(MethodImplOptions.AggressiveInlining)]
15         public void Increment() => _count++;
16     }
17 }
```

./Counter[TValue].cs

```
1  using System.Runtime.CompilerServices;
2
3  #pragma warning disable IDE0060 // Remove unused parameter
4  #pragma warning disable CS1591 // Missing XML comment for publicly visible type or member
5
6  namespace Platform.Counters
7  {
8      public class Counter<TValue> : Counter
9      {
10         [MethodImpl(MethodImplOptions.AggressiveInlining)]
11         public bool IncrementAndReturnTrue()
12         {
13             _count++;
14             return true;
15         }
16
17         [MethodImpl(MethodImplOptions.AggressiveInlining)]
18         public bool IncrementAndReturnTrue(TValue value)
19         {
20             _count++;
21             return true;
22         }
23     }
24 }
```

./Counter[TValue, TDecision].cs

```
1  using System.Runtime.CompilerServices;
2
3  #pragma warning disable IDE0060 // Remove unused parameter
4  #pragma warning disable CS1591 // Missing XML comment for publicly visible type or member
5
6  namespace Platform.Counters
7  {
8      public class Counter<TValue, TDecision> : Counter
9      {
10         private readonly TDecision _trueValue;
11
12         public Counter(TDecision trueValue) => _trueValue = trueValue;
13
14         public Counter() { }
15
16         [MethodImpl(MethodImplOptions.AggressiveInlining)]
17         public TDecision IncrementAndReturnTrue()
18         {
19             _count++;
20             return _trueValue;
21         }
22
23         [MethodImpl(MethodImplOptions.AggressiveInlining)]
24         public TDecision IncrementAndReturnTrue(TValue value)
25         {
26             _count++;
27             return _trueValue;
28         }
29     }
30 }
```

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