

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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