LinksPlatform's Platform.Incrementers Class Library

1.1 ./IIncrementer.cs

```
1  namespace Platform.Incrementers
2  {
3      /// <summary>
4      /// <para>Defines an incrementer that increments any object.</para>
5      /// <para>Определяет инкрементер, который выполняет приращение любого объекта.</para>
6      /// </summary>
7      public interface IIncrementer
8      {
9          /// <summary>
10         /// <para>Increments the object by a specific value.</para>
11         /// <para>Выполняет приращение объекта на определённое значение.</para>
12         /// </summary>
13         void Increment();
14     }
15 }
```

1.2 ./IIncrementer[TNumber].cs

```
1  namespace Platform.Incrementers
2  {
3      /// <summary>
4      /// <para>Defines an incrementer that increments any number with a specific type.</para>
5      /// <para>Определяет инкрементер, который выполняет приращение любого числа определенного
       ↪ типа.</para>
6      /// </summary>
7      /// <typeparam name="TNumber"><para>Type of incremented number.</para><para>Тип
       ↪ увеличиваемого числа.</para></typeparam>
8      public interface IIncrementer<TNumber>
9      {
10         /// <summary>
11         /// <para>Increments the number by a specific value.</para>
12         /// <para>Увеличивает число на определённое значение.</para>
13         /// </summary>
14         /// <param name="number"><para>The number to be incremented.</para><para>Увеличиваемое
       ↪ число.</para></param>
15         /// <returns><para>The incremented number.</para><para>Увеличенное
       ↪ число.</para></returns>
16         TNumber Increment(TNumber number);
17     }
18 }
```

1.3 ./Incrementer.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.Incrementers
6  {
7      /// <remarks>
8      /// Must be class, not struct (in order to persist access to Count field value).
9      /// </remarks>
10     public class Incrementer : IIncrementer
11     {
12         protected ulong _result;
13
14         public ulong Result => _result;
15
16         [MethodImpl(MethodImplOptions.AggressiveInlining)]
17         public Incrementer(ulong initialValue) => _result = initialValue;
18
19         [MethodImpl(MethodImplOptions.AggressiveInlining)]
20         public Incrementer() { }
21
22         [MethodImpl(MethodImplOptions.AggressiveInlining)]
23         public void Increment() => _result++;
24     }
25 }
```

1.4 ./Incrementer[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.Incrementers
7  {
8      public class Incrementer<TValue, TDecision> : Incrementer
```

```
  9        {
 10            private readonly TDecision _trueValue;
 11
 12            [MethodImpl(MethodImplOptions.AggressiveInlining)]
 13            public Incrementer(ulong initialValue, TDecision trueValue) : base(initialValue) =>
    ↪   _trueValue = trueValue;
 14
 15            [MethodImpl(MethodImplOptions.AggressiveInlining)]
 16            public Incrementer(TDecision trueValue) => _trueValue = trueValue;
 17
 18            [MethodImpl(MethodImplOptions.AggressiveInlining)]
 19            public Incrementer() { }
 20
 21            [MethodImpl(MethodImplOptions.AggressiveInlining)]
 22            public TDecision IncrementAndReturnTrue()
 23            {
 24                _result++;
 25                return _trueValue;
 26            }
 27
 28            [MethodImpl(MethodImplOptions.AggressiveInlining)]
 29            public TDecision IncrementAndReturnTrue(TValue value)
 30            {
 31                _result++;
 32                return _trueValue;
 33            }
 34        }
 35    }
```

1.5   ./Incrementer[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.Incrementers
  7  {
  8      public class Incrementer<TValue> : Incrementer<TValue, bool>
  9      {
 10          [MethodImpl(MethodImplOptions.AggressiveInlining)]
 11          public Incrementer(ulong initialValue) : base(initialValue, true) { }
 12
 13          [MethodImpl(MethodImplOptions.AggressiveInlining)]
 14          public Incrementer() { }
 15      }
 16  }
```

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