```
LinksPlatform's Platform Reflection Class Library
./Platform.Reflection/AssemblyExtensions.cs
   using System;
   using System.Collections.Concurrent;
2
   using System. Reflection;
   using Platform. Exceptions;
4
   using Platform.Collections.Lists;
   #pragma warning disable CS1591 // Missing XML comment for publicly visible type or member
   namespace Platform. Reflection
9
   {
10
       public static class AssemblyExtensions
11
12
           private static readonly ConcurrentDictionary<Assembly, Type[]> _loadableTypesCache = new
13
            14
            /// <remarks>
15
            /// Source: http://haacked.com/archive/2012/07/23/get-all-types-in-an-assembly.aspx/
16
            /// </remarks>
17
           public static Type[] GetLoadableTypes(this Assembly assembly)
18
19
                Ensure.Always.ArgumentNotNull(assembly, nameof(assembly));
                try
21
                    return assembly.GetTypes();
23
                }
24
                catch (ReflectionTypeLoadException e)
25
26
                    return e.Types.ToArray(t => t != null);
27
                }
28
            }
30
           public static Type[] GetCachedLoadableTypes(this Assembly assembly) =>
                _loadableTypesCache.GetOrAdd(assembly, GetLoadableTypes);
       }
   }
33
./Platform.Reflection/DynamicExtensions.cs
   using System.Collections.Generic;
   using System.Dynamic;
3
   #pragma warning disable CS1591 // Missing XML comment for publicly visible type or member
4
   namespace Platform. Reflection
       public static class DynamicExtensions
8
9
            public static bool HasProperty(this object @object, string propertyName)
10
11
                var type = @object.GetType();
                if (type is IDictionary<string, object> dictionary)
14
                    return dictionary.ContainsKey(propertyName);
15
                }
                return type.GetProperty(propertyName) != null;
17
            }
18
       }
   }
./Platform.Reflection/EnsureExtensions.cs
   using System;
   using System.Diagnostics;
using System.Runtime.CompilerServices;
2
   using Platform.Exceptions;
5
   using Platform.Exceptions.ExtensionRoots;
   #pragma warning disable IDE0060 // Remove unused parameter
   #pragma warning disable CS1591 // Missing XML comment for publicly visible type or member
   namespace Platform. Reflection
10
11
       public static class EnsureExtensions
12
            #region Always
14
15
            [MethodImpl(MethodImplOptions.AggressiveInlining)]
16
           public static void IsUnsignedInteger<T>(this EnsureAlwaysExtensionRoot root,
17

→ Func < string > messageBuilder)
```

```
{
    if (!Type<T>.IsNumeric || Type<T>.IsSigned || Type<T>.IsFloatPoint)
        throw new NotSupportedException(messageBuilder());
    }
}
[MethodImpl(MethodImplOptions.AggressiveInlining)]
public static void IsUnsignedInteger<T>(this EnsureAlwaysExtensionRoot root, string
   message)
    string messageBuilder() => message;
    IsUnsignedInteger<T>(root, messageBuilder);
}
[MethodImpl(MethodImplOptions.AggressiveInlining)]
public static void IsUnsignedInteger<T>(this EnsureAlwaysExtensionRoot root) =>
   IsUnsignedInteger<T>(root, (string)null);
[MethodImpl(MethodImplOptions.AggressiveInlining)]
public static void IsSignedInteger<T>(this EnsureAlwaysExtensionRoot root, Func<string>
   messageBuilder)
    if (!Type<T>.IsNumeric || !Type<T>.IsSigned || Type<T>.IsFloatPoint)
    {
        throw new NotSupportedException(messageBuilder());
    }
}
[MethodImpl(MethodImplOptions.AggressiveInlining)]
public static void IsSignedInteger<T>(this EnsureAlwaysExtensionRoot root, string
   message)
    string messageBuilder() => message;
    IsSignedInteger<T>(root, messageBuilder);
[MethodImpl(MethodImplOptions.AggressiveInlining)]
public static void IsSignedInteger<T>(this EnsureAlwaysExtensionRoot root) =>

→ IsSignedInteger<T>(root, (string)null);
[MethodImpl(MethodImplOptions.AggressiveInlining)]
public static void IsSigned<T>(this EnsureAlwaysExtensionRoot root, Func<string>
   messageBuilder)
{
    if (!Type<T>.IsSigned)
    ₹
        throw new NotSupportedException(messageBuilder());
    }
}
[MethodImpl(MethodImplOptions.AggressiveInlining)]
public static void IsSigned<T>(this EnsureAlwaysExtensionRoot root, string message)
    string messageBuilder() => message;
    IsSigned<T>(root, messageBuilder);
}
[MethodImpl(MethodImplOptions.AggressiveInlining)]
public static void IsSigned<T>(this EnsureAlwaysExtensionRoot root) => IsSigned<T>(root,
   (string)null);
[MethodImpl(MethodImplOptions.AggressiveInlining)]
public static void IsNumeric<T>(this EnsureAlwaysExtensionRoot root, Func<string>
   messageBuilder)
₹
    if (!Type<T>.IsNumeric)
    {
        throw new NotSupportedException(messageBuilder());
    }
}
[MethodImpl(MethodImplOptions.AggressiveInlining)]
public static void IsNumeric<T>(this EnsureAlwaysExtensionRoot root, string message)
    string messageBuilder() => message;
    IsNumeric<T>(root, messageBuilder);
}
```

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```
[MethodImpl(MethodImplOptions.AggressiveInlining)]
           public static void IsNumeric<T>(this EnsureAlwaysExtensionRoot root) =>
            → IsNumeric<T>(root, (string)null);
            [MethodImpl(MethodImplOptions.AggressiveInlining)]
           public static void CanBeNumeric<T>(this EnsureAlwaysExtensionRoot root, Func<string>
               messageBuilder)
               if (!Type<T>.CanBeNumeric)
               {
                   throw new NotSupportedException(messageBuilder());
               }
            }
            [MethodImpl(MethodImplOptions.AggressiveInlining)]
           public static void CanBeNumeric<T>(this EnsureAlwaysExtensionRoot root, string message)
               string messageBuilder() => message;
               CanBeNumeric<T>(root, messageBuilder);
            [MethodImpl(MethodImplOptions.AggressiveInlining)]
           public static void CanBeNumeric<T>(this EnsureAlwaysExtensionRoot root) =>
            110
           #endregion
            #region OnDebug
114
            [Conditional("DEBUG")]
           public static void IsUnsignedInteger<T>(this EnsureOnDebugExtensionRoot root,
            Func<string> messageBuilder) => Ensure.Always.IsUnsignedInteger<T>(messageBuilder);
            [Conditional("DEBUG")]
           public static void IsUnsignedInteger<T>(this EnsureOnDebugExtensionRoot root, string
            message) => Ensure.Always.IsUnsignedInteger<T>(message);
            [Conditional("DEBUG")]
           public static void IsUnsignedInteger<T>(this EnsureOnDebugExtensionRoot root) =>

→ Ensure.Always.IsUnsignedInteger<T>();
            [Conditional("DEBUG")]
           public static void IsSignedInteger<T>(this EnsureOnDebugExtensionRoot root, Func<string>
            messageBuilder) => Ensure.Always.IsSignedInteger<T>(messageBuilder);
            [Conditional("DEBUG")]
           public static void IsSignedInteger<T>(this EnsureOnDebugExtensionRoot root, string
            → message) => Ensure.Always.IsSignedInteger<T>(message);
            [Conditional("DEBUG")]
           public static void IsSignedInteger<T>(this EnsureOnDebugExtensionRoot root) =>

→ Ensure.Always.IsSignedInteger<T>();
            [Conditional("DEBUG")]
           public static void IsSigned<T>(this EnsureOnDebugExtensionRoot root, Func<string>
              messageBuilder) => Ensure.Always.IsSigned<T>(messageBuilder);
            [Conditional("DEBUG")]
           public static void IsSigned<T>(this EnsureOnDebugExtensionRoot root, string message) =>

→ Ensure.Always.IsSigned<T>(message);
            [Conditional("DEBUG")]
            public static void IsSigned<T>(this EnsureOnDebugExtensionRoot root) =>

→ Ensure.Always.IsSigned<T>();
            [Conditional("DEBUG")]
           public static void IsNumeric<T>(this EnsureOnDebugExtensionRoot root, Func<string>
            messageBuilder) => Ensure.Always.IsNumeric<T>(messageBuilder);
            [Conditional("DEBUG")]
           public static void IsNumeric<T>(this EnsureOnDebugExtensionRoot root, string message) =>

→ Ensure.Always.IsNumeric<T>(message);
            [Conditional("DEBUG")]
           public static void IsNumeric<T>(this EnsureOnDebugExtensionRoot root) =>
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```
[Conditional("DEBUG")]
151
            public static void CanBeNumeric<T>(this EnsureOnDebugExtensionRoot root, Func<string>
                messageBuilder) => Ensure.Always.CanBeNumeric<T>(messageBuilder);
153
            [Conditional("DEBUG")]
154
            public static void CanBeNumeric<T>(this EnsureOnDebugExtensionRoot root, string message)
             ⇒ => Ensure.Always.CanBeNumeric<T>(message);
156
            [Conditional("DEBUG")]
            public static void CanBeNumeric<T>(this EnsureOnDebugExtensionRoot root) =>

→ Ensure.Always.CanBeNumeric<T>();
159
            #endregion
160
        }
161
162
./Platform.Reflection/FieldInfoExtensions.cs
    using System.Reflection;
    using System.Runtime.CompilerServices;
    #pragma warning disable CS1591 // Missing XML comment for publicly visible type or member
 4
    namespace Platform. Reflection
        public static class FieldInfoExtensions
 9
            [MethodImpl(MethodImplOptions.AggressiveInlining)]
10
            public static T GetStaticValue<T>(this FieldInfo fieldInfo) =>
11
                (T)fieldInfo.GetValue(null);
12
    }
./Platform.Reflection/MethodInfoExtensions.cs
    using System.Reflection;
    #pragma warning disable CS1591 // Missing XML comment for publicly visible type or member
    namespace Platform. Reflection
 6
        public static class MethodInfoExtensions
 8
            public static byte[] GetILBytes(this MethodInfo methodInfo) =>
                methodInfo.GetMethodBody().GetILAsByteArray();
    }
11
./Platform.Reflection/PropertyInfoExtensions.cs
    using System.Reflection;
    using System.Runtime.CompilerServices;
 2
    #pragma warning disable CS1591 // Missing XML comment for publicly visible type or member
 5
    namespace Platform.Reflection
 6
        public static class PropertyInfoExtensions
 9
            [MethodImpl(MethodImplOptions.AggressiveInlining)]
10
            public static T GetStaticValue<T>(this PropertyInfo fieldInfo) =>
11
                (T)fieldInfo.GetValue(null);
        }
12
13
./Platform.Reflection/Type.cs
    using System;
    using System.Runtime.InteropServices;
    using Platform. Exceptions;
    // ReSharper disable AssignmentInConditionalExpression
    // ReSharper disable BuiltInTypeReferenceStyle
    // ReSharper disable StaticFieldInGenericType
    #pragma warning disable CS1591 // Missing XML comment for publicly visible type or member
    namespace Platform.Reflection
10
11
        public class Type<T>
12
13
            public static readonly bool IsSupported;
14
            public static readonly Type TheType;
public static readonly Type UnderlyingType;
```

```
public static readonly Type SignedVersion;
public static readonly Type UnsignedVersion;
17
18
             public static readonly bool IsFloatPoint;
             public static readonly bool IsNumeric; public static readonly bool IsSigned;
20
21
             public static readonly bool CanBeNumeric;
             public static readonly bool IsNullable;
23
             public static readonly int BitsLen
public static readonly T MinValue;
                                       int BitsLength;
2.5
             public static readonly T MaxValue;
27
             static Type()
29
                 try
                 {
31
                      TheType = typeof(T);
32
33
                      IsNullable = TheType.IsNullable();
                      UnderlyingType = IsNullable ? Nullable.GetUnderlyingType(TheType) : TheType;
34
                      var canBeNumeric = UnderlyingType.CanBeNumeric();
35
                      var isNumeric = UnderlyingType.IsNumeric();
36
                      var isSigned = UnderlyingType.IsSigned();
                      var isFloatPoint = UnderlyingType.IsFloatPoint();
38
                      var bitsLength = Marshal.SizeOf(UnderlyingType) * 8;
39
                      GetMinAndMaxValues(UnderlyingType, out T minValue, out T maxValue);
40
                      GetSignedAndUnsignedVersions(UnderlyingType, isSigned, out Type signedVersion,
                          out Type unsignedVersion);
                      IsSupported = true;
42
                      CanBeNumeric = canBeNumeric;
43
                      IsNumeric = isNumeric;
                      IsSigned = isSigned;
45
                      IsFloatPoint = isFloatPoint;
                      BitsLength = bitsLength;
47
                      MinValue = minValue;
48
                      MaxValue = maxValue;
                      SignedVersion = signedVersion;
50
5.1
                      UnsignedVersion = unsignedVersion;
                 }
52
                 catch (Exception exception)
                      exception.Ignore();
55
56
             }
58
             private static void GetMinAndMaxValues(Type type, out T minValue, out T maxValue)
                 if (type == typeof(bool))
61
62
                      minValue = (T)(object)false;
63
                      maxValue = (T)(object)true;
64
                 }
65
                 else
67
                      minValue = type.GetStaticFieldValue<T>("MinValue");
68
                      maxValue = type.GetStaticFieldValue<T>("MaxValue");
                 }
7.0
71
72
             private static void GetSignedAndUnsignedVersions(Type type, bool isSigned, out Type
73
                 signedVersion, out Type unsignedVersion)
74
                 if (isSigned)
                 {
76
                      signedVersion = type;
77
                      unsignedVersion = type.GetUnsignedVersionOrNull();
78
                 }
79
                 else
80
81
                      signedVersion = type.GetSignedVersionOrNull();
82
                      unsignedVersion = type;
83
                 }
84
             }
        }
86
87
./Platform.Reflection/TypeExtensions.cs
   using System;
   using System.Collections.Generic;
   using System.Linq;
using System.Reflection;
3
   using System.Runtime.CompilerServices;
```

```
using Platform.Collections;
    #pragma warning disable CS1591 // Missing XML comment for publicly visible type or member
    namespace Platform. Reflection
10
        public static class TypeExtensions
            static private readonly HashSet<Type> _canBeNumericTypes;
static private readonly HashSet<Type> _isNumericTypes;
14
            static private readonly HashSet<Type> _isSignedTypes;
static private readonly HashSet<Type> _isFloatPointTypes;
static private readonly Dictionary<Type, Type> _unsignedVersionsOfSignedTypes;
static private readonly Dictionary<Type, Type> _signedVersionsOfUnsignedTypes;
20
             static TypeExtensions()
                 _canBeNumericTypes = new HashSet<Type> { typeof(bool), typeof(char),
                     typeof(DateTime), typeof(TimeSpan) };
                 _isNumericTypes = new HashSet<Type> { typeof(byte), typeof(ushort), typeof(uint),
                     typeof(ulong) };
                 _canBeNumericTypes.UnionWith(_isNumericTypes);
                 _isSignedTypes = new HashSet<Type> { typeof(sbyte), typeof(short), typeof(int),
                     typeof(long) };
                 _canBeNumericTypes.UnionWith(_isSignedTypes);
                 _isNumericTypes.UnionWith(_isSignedTypes);
                 _isFloatPointTypes = new HashSet<Type> { typeof(decimal), typeof(double),
                     typeof(float) }
                 _canBeNumericTypes.UnionWith(_isFloatPointTypes);
                 _isNumericTypes.UnionWith(_isFloatPointTypes);
                 _isSignedTypes.UnionWith(_isFloatPointTypes);
                 _unsignedVersionsOfSignedTypes = new Dictionary<Type, Type> {
                      { typeof(sbyte), typeof(byte) },
{ typeof(short), typeof(ushort) },
                        typeof(int), typeof(uint) }
                      { typeof(long), typeof(ulong) }
                  _signedVersionsOfUnsignedTypes = new Dictionary<Type, Type>
                      { typeof(byte), typeof(sbyte)}
                      { typeof(ushort), typeof(short) },
                      { typeof(uint), typeof(int) },
                      { typeof(ulong), typeof(long) },
                 };
             [MethodImpl(MethodImplOptions.AggressiveInlining)]
            public static FieldInfo GetFirstField(this Type type) => type.GetFields()[0];
             [MethodImpl(MethodImplOptions.AggressiveInlining)]
            public static T GetStaticFieldValue<T>(this Type type, string name) =>
                 type.GetTypeInfo().GetField(name, BindingFlags.Public | BindingFlags.NonPublic |
                 BindingFlags.Static).GetStaticValue<T>();
             [MethodImpl(MethodImplOptions.AggressiveInlining)]
            public static T GetStaticPropertyValue<T>(this Type type, string name) =>
                 type.GetTypeInfo().GetProperty(name, BindingFlags.Public | BindingFlags.NonPublic |
                BindingFlags.Static).GetStaticValue<T>();
             [MethodImpl(MethodImplOptions.AggressiveInlining)]
            public static MethodInfo GetGenericMethod(this Type type, string name, Type[]
                 genericParameterTypes, Type[] argumentTypes)
             {
                 var methods = from m in type.GetMethods()
                                 where m.Name == name
                                    && m.IsGenericMethodDefinition
                                 let typeParams = m.GetGenericArguments()
                                 let normalParams = m.GetParameters().Select(x => x.ParameterType)
                                 where typeParams.SequenceEqual(genericParameterTypes)
                                    && normalParams.SequenceEqual(argumentTypes)
                                 select m;
                 var method = methods.Single();
                 return method;
72
             [MethodImpl(MethodImplOptions.AggressiveInlining)]
            public static Type GetBaseType(this Type type) => type.GetTypeInfo().BaseType;
```

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```
[MethodImpl(MethodImplOptions.AggressiveInlining)]
76
            public static Assembly GetAssembly(this Type type) => type.GetTypeInfo().Assembly;
78
            [MethodImpl(MethodImplOptions.AggressiveInlining)]
            public static bool IsSubclassOf(this Type type, Type superClass) =>
80

→ type.GetTypeInfo().IsSubclassOf(superClass);
81
            [MethodImpl(MethodImplOptions.AggressiveInlining)]
            public static bool IsValueType(this Type type) => type.GetTypeInfo().IsValueType;
83
            [MethodImpl(MethodImplOptions.AggressiveInlining)]
85
            public static bool IsGeneric(this Type type) => type.GetTypeInfo().IsGenericType;
86
            [MethodImpl(MethodImplOptions.AggressiveInlining)]
88
            public static bool IsGeneric(this Type type, Type genericTypeDefinition) =>
89
                type.IsGeneric() && type.GetGenericTypeDefinition() == genericTypeDefinition;
90
            [MethodImpl(MethodImplOptions.AggressiveInlining)]
91
            public static bool IsNullable(this Type type) => type.IsGeneric(typeof(Nullable<>>));
93
            public static Type GetUnsignedVersionOrNull(this Type signedType) =>
94
                _unsignedVersionsOfSignedTypes.GetOrDefault(signedType);
95
            public static Type GetSignedVersionOrNull(this Type unsignedType) =>
96
                _signedVersionsOfUnsignedTypes.GetOrDefault(unsignedType);
            public static bool CanBeNumeric(this Type type) => _canBeNumericTypes.Contains(type);
100
            public static bool IsNumeric(this Type type) => _isNumericTypes.Contains(type);
101
            public static bool IsSigned(this Type type) => _isSignedTypes.Contains(type);
102
103
            public static bool IsFloatPoint(this Type type) => _isFloatPointTypes.Contains(type);
104
        }
105
106
./Platform.Reflection/Types.cs
   using System;
using System.Collections.Generic;
   using System.Collections.ObjectModel;
    #pragma warning disable CS1591 // Missing XML comment for publicly visible type or member
 5
    namespace Platform. Reflection
        public abstract class Types
 9
10
            protected ReadOnlyCollection<Type> ToReadOnlyCollection()
11
12
                var types = GetType().GetGenericArguments();
13
                var result = new List<Type>();
                AppendTypes(result, types);
1.5
                return new ReadOnlyCollection<Type>(result);
16
            }
17
18
            private static void AppendTypes(List<Type> container, IList<Type> types)
19
20
                for (var i = 0; i < types.Count; i++)</pre>
21
22
                     var element = types[i];
23
                     if (element != typeof(Types))
2.4
25
                            (element.IsSubclassOf(typeof(Types)))
27
                             AppendTypes(container, element.GetStaticPropertyValue<ReadOnlyCollection
28
                                 <Type>>(nameof(Types<object>.Collection)));
29
                         else
30
                         {
3.1
                             container.Add(element);
                         }
33
                    }
34
               }
35
            }
        }
37
    }
38
```

```
./Platform.Reflection/Types[T1, T2].cs
   using System;
   using System.Collections.Generic;
using System.Collections.ObjectModel;
   using Platform.Collections.Lists;
4
   #pragma warning disable CS1591 // Missing XML comment for publicly visible type or member
   namespace Platform.Reflection
q
        public class Types<T1, T2> : Types
10
11
            public static ReadOnlyCollection<Type> Collection { get; } = new Types<T1,</pre>
12
            \rightarrow T2>().ToReadOnlyCollection();
            public static Type[] Array => ((IList<Type>)Collection).ToArray();
13
            private Types()
14
        }
15
   }
16
./Platform.Reflection/Types[T1, T2, T3].cs
   using System;
   using System.Collections.Generic;
   using System.Collections.ObjectModel;
3
   using Platform.Collections.Lists;
   #pragma warning disable CS1591 // Missing XML comment for publicly visible type or member
   namespace Platform.Reflection
8
9
        public class Types<T1, T2, T3> : Types
10
11
            public static ReadOnlyCollection<Type> Collection { get; } = new Types<T1, T2,</pre>
12
                T3>().ToReadOnlyCollection()
13
            public static Type[] Array => ((IList<Type>)Collection).ToArray();
            private Types() { }
14
15
   }
16
./Platform.Reflection/Types[T1, T2, T3, T4].cs
   using System;
   using System.Collections.Generic;
   using System.Collections.ObjectModel;
3
   using Platform.Collections.Lists;
4
   #pragma warning disable CS1591 // Missing XML comment for publicly visible type or member
   namespace Platform. Reflection
8
        public class Types<T1, T2, T3, T4> : Types
10
11
            public static ReadOnlyCollection<Type> Collection { get; } = new Types<T1, T2, T3,</pre>
12

→ T4>().ToReadOnlyCollection();
            public static Type[] Array => ((IList<Type>)Collection).ToArray();
            private Types() { }
14
        }
15
   }
./Platform.Reflection/Types[T1, T2, T3, T4, T5].cs
   using System;
   using System.Collections.Generic;
2
   using System.Collections.ObjectModel;
   using Platform.Collections.Lists;
   #pragma warning disable CS1591 // Missing XML comment for publicly visible type or member
6
   namespace Platform. Reflection
8
        public class Types<T1, T2, T3, T4, T5> : Types
10
11
            public static ReadOnlyCollection<Type> Collection { get; } = new Types<T1, T2, T3, T4,</pre>
12
             → T5>().ToReadOnlyCollection();
            public static Type[] Array => ((IList<Type>)Collection).ToArray();
13
            private Types() { }
14
        }
   }
16
```

```
./Platform.Reflection/Types[T1, T2, T3, T4, T5, T6].cs
   using System;
   using System.Collections.Generic;
using System.Collections.ObjectModel;
   using Platform.Collections.Lists;
4
   #pragma warning disable CS1591 // Missing XML comment for publicly visible type or member
   namespace Platform.Reflection
        public class Types<T1, T2, T3, T4, T5, T6> : Types
10
11
            public static ReadOnlyCollection<Type> Collection { get; } = new Types<T1, T2, T3, T4,</pre>
12

→ T5, T6>().ToReadOnlyCollection();
            public static Type[] Array => ((IList<Type>)Collection).ToArray();
13
            private Types() { }
14
        }
15
   }
16
./Platform.Reflection/Types[T1, T2, T3, T4, T5, T6, T7].cs
   using System;
   using System.Collections.Generic;
   using System.Collections.ObjectModel;
3
   using Platform.Collections.Lists;
   #pragma warning disable CS1591 // Missing XML comment for publicly visible type or member
   namespace Platform.Reflection
8
9
        public class Types<T1, T2, T3, T4, T5, T6, T7> : Types
11
12
            public static ReadOnlyCollection<Type> Collection { get; } = new Types<T1, T2, T3, T4,</pre>
                T5, T6, T7>().ToReadOnlyCollection();
            public static Type[] Array => ((IList<Type>)Collection).ToArray();
            private Types() { }
14
15
   }
16
./Platform.Reflection/Types[T].cs
   using System;
   using Platform.Collections.Lists;
   using System.Collections.Generic;
3
   using System.Collections.ObjectModel;
4
   #pragma warning disable CS1591 // Missing XML comment for publicly visible type or member
   namespace Platform. Reflection
10
        public class Types<T> : Types
11
            public static ReadOnlyCollection<Type> Collection { get; } = new
12
                Types<T>().ToReadOnlyCollection();
            public static Type[] Array => ((IList<Type>)Collection).ToArray();
            private Types() { }
14
        }
15
   }
./Platform.Reflection.Tests/TypeTests.cs
   using Xunit;
   namespace Platform.Reflection.Tests
3
4
        public class TypeTests
            [Fact]
            public void UInt64IsNumericTest()
                Assert.True(Type<ulong>.IsNumeric);
10
            }
11
        }
   }
13
```

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