

LinksPlatform's Platform.Converters Class Library

1.1 ./csharp/Platform.Converters/CachingConverterDecorator.cs

```
1 using System.Collections.Generic;
2 using System.Runtime.CompilerServices;
3 using Platform.Collections;
4
5 #pragma warning disable CS1591 // Missing XML comment for publicly visible type or member
6
7 namespace Platform.Converters
8 {
9     /// <summary>
10    /// <para>
11    /// Represents the caching converter decorator.
12    /// </para>
13    /// <para></para>
14    /// </summary>
15    /// <seealso cref="IConverter{TSource, TTarget}"/>
16    public class CachingConverterDecorator<TSource, TTarget> : IConverter<TSource, TTarget>
17    {
18        /// <summary>
19        /// <para>
20        /// The base converter.
21        /// </para>
22        /// <para></para>
23        /// </summary>
24        private readonly IConverter<TSource, TTarget> _baseConverter;
25        /// <summary>
26        /// <para>
27        /// The cache.
28        /// </para>
29        /// <para></para>
30        /// </summary>
31        private readonly IDictionary<TSource, TTarget> _cache;
32
33        /// <summary>
34        /// <para>
35        /// Initializes a new <see cref="CachingConverterDecorator"/> instance.
36        /// </para>
37        /// <para></para>
38        /// </summary>
39        /// <param name="baseConverter">
40        /// <para>A base converter.</para>
41        /// <para></para>
42        /// </param>
43        /// <param name="cache">
44        /// <para>A cache.</para>
45        /// <para></para>
46        /// </param>
47        [MethodImpl(MethodImplOptions.AggressiveInlining)]
48        public CachingConverterDecorator(IConverter<TSource, TTarget> baseConverter,
49            ↪ IDictionary<TSource, TTarget> cache) => (_baseConverter, _cache) = (baseConverter,
50            ↪ cache);
51
52        /// <summary>
53        /// <para>
54        /// Initializes a new <see cref="CachingConverterDecorator"/> instance.
55        /// </para>
56        /// <para></para>
57        /// </summary>
58        /// <param name="baseConverter">
59        /// <para>A base converter.</para>
60        /// <para></para>
61        /// </param>
62        [MethodImpl(MethodImplOptions.AggressiveInlining)]
63        public CachingConverterDecorator(IConverter<TSource, TTarget> baseConverter) :
64            ↪ this(baseConverter, new Dictionary<TSource, TTarget>()) { }
65
66        /// <summary>
67        /// <para>
68        /// Converts the source.
69        /// </para>
70        /// <para></para>
71        /// </summary>
72        /// <param name="source">
73        /// <para>The source.</para>
74        /// <para></para>
75        /// </param>
76        /// </returns>
```

```

74     /// <para>The target</para>
75     /// <para></para>
76     /// </returns>
77     [MethodImpl(MethodImplOptions.AggressiveInlining)]
78     public TTarget Convert(TSource source) => _cache.GetOrAdd(source,
    ↪     _baseConverter.Convert);
79 }
80 }

```

1.2 ./csharp/Platform.Converters/CheckedConverter.cs

```

1  using System;
2  using System.Runtime.CompilerServices;
3  using Platform.Reflection;
4
5  #pragma warning disable CS1591 // Missing XML comment for publicly visible type or member
6
7  namespace Platform.Converters
8  {
9      /// <summary>
10     /// <para>
11     /// Represents the checked converter.
12     /// </para>
13     /// <para></para>
14     /// </summary>
15     /// <seealso cref="ConverterBase{TSource, TTarget}" />
16     public abstract class CheckedConverter<TSource, TTarget> : ConverterBase<TSource, TTarget>
17     {
18         /// <summary>
19         /// <para>
20         /// Gets the default value.
21         /// </para>
22         /// <para></para>
23         /// </summary>
24         public static CheckedConverter<TSource, TTarget> Default
25         {
26             [MethodImpl(MethodImplOptions.AggressiveInlining)]
27             get;
28         } = CompileCheckedConverter();
29
30         /// <summary>
31         /// <para>
32         /// Compiles the checked converter.
33         /// </para>
34         /// <para></para>
35         /// </summary>
36         /// <returns>
37         /// <para>A checked converter of t source and t target</para>
38         /// <para></para>
39         /// </returns>
40         [MethodImpl(MethodImplOptions.AggressiveInlining)]
41         private static CheckedConverter<TSource, TTarget> CompileCheckedConverter()
42         {
43             var type = CreateTypeInheritedFrom<CheckedConverter<TSource, TTarget>>();
44             EmitConvertMethod(type, il => il.CheckedConvert<TSource, TTarget>());
45             return (CheckedConverter<TSource,
    ↪             TTarget>)Activator.CreateInstance(type.CreateTypeInfo());
46         }
47     }
48 }

```

1.3 ./csharp/Platform.Converters/ConverterBase.cs

```

1  using System;
2  using System.Reflection;
3  using System.Reflection.Emit;
4  using System.Runtime.CompilerServices;
5  using Platform.Reflection;
6
7  #pragma warning disable CS1591 // Missing XML comment for publicly visible type or member
8
9  namespace Platform.Converters
10 {
11     /// <summary>
12     /// <para>Represents a base implementation for IConverter interface with the basic logic
    ↪     necessary for value converter from the <typeparamref name="TSource"/> type to the
    ↪     <typeparamref name="TTarget"/> type.</para>
13     /// <para>Представляет базовую реализацию для интерфейса IConverter с основной логикой
    ↪     необходимой для конвертера значений из типа <typeparamref name="TSource"/> в тип
    ↪     <typeparamref name="TTarget"/>.</para>

```

```

14  /// </summary>
15  /// <typeparam name="TSource"><para>Source type of conversion.</para><para>Исходный тип
    ↳ конверсии.</para></typeparam>
16  /// <typeparam name="TTarget"><para>Target type of conversion.</para><para>Целевой тип
    ↳ конверсии.</para></typeparam>
17  public abstract class ConverterBase<TSource, TTarget> : IConverter<TSource, TTarget>
18  {
19      /// <summary>
20      /// <para>Converts the value of the <typeparamref name="TSource"/> type to the value of
    ↳ the <typeparamref name="TTarget"/> type.</para>
21      /// <para>Конвертирует значение типа <typeparamref name="TSource"/> в значение типа
    ↳ <typeparamref name="TTarget"/>.</para>
22      /// </summary>
23      /// <param name="source"><para>The <typeparamref name="TSource"/> type
    ↳ value.</para><para>Значение типа <typeparamref name="TSource"/>.</para></param>
24      /// <returns><para>The converted value of the <typeparamref name="TTarget"/>
    ↳ type.</para><para>Значение конвертированное в тип <typeparamref
    ↳ name="TTarget"/>.</para></returns>
25      [MethodImpl(MethodImplOptions.AggressiveInlining)]
26      public abstract TTarget Convert(TSource source);
27
28      /// <summary>
29      /// <para>Generates a sequence of instructions using <see cref="ILGenerator"/> that
    ↳ converts a value of type <see cref="System.Object"/> to a value of type
    ↳ <typeparamref name="TTarget"/>.</para>
30      /// <para>Генерирует последовательность инструкций при помощи <see cref="ILGenerator"/>
    ↳ выполняющую преобразование значения типа <see cref="System.Object"/> к значению типа
    ↳ <typeparamref name="TTarget"/>.</para>
31      /// </summary>
32      /// <param name="il"><para>An <see cref="ILGenerator"/> instance.</para><para>Экземпляр
    ↳ <see cref="ILGenerator"/>.</para></param>
33      [MethodImpl(MethodImplOptions.AggressiveInlining)]
34      protected static void ConvertFromObject(ILGenerator il)
35      {
36          var returnDefault = il.DefineLabel();
37          il.Emit(OpCodes.Brfalse_S, returnDefault);
38          il.LoadArgument(1);
39          il.Emit(OpCodes.Castclass, typeof(IConvertible));
40          il.Emit(OpCodes.Ldnull);
41          il.Emit(OpCodes.Callvirt, GetMethodForConversionToTargetType());
42          il.Return();
43          il.MarkLabel(returnDefault);
44          LoadDefault(il, typeof(TTarget));
45      }
46
47      /// <summary>
48      /// <para>Gets a new unique name of an assembly.</para>
49      /// <para>Возвращает новое уникальное имя сборки.</para>
50      /// </summary>
51      /// <returns><para>A new unique name of an assembly.</para><para>Новое уникальное имя
    ↳ сборки.</para></returns>
52      [MethodImpl(MethodImplOptions.AggressiveInlining)]
53      protected static string GetNewName() => Guid.NewGuid().ToString("N");
54
55      /// <summary>
56      /// <para>Converts the value of the source type (TSource) to the value of the target
    ↳ type.</para>
57      /// <para>Конвертирует значение исходного типа (TSource) в значение целевого типа.</para>
58      /// </summary>
59      /// <param name="source"><para>The source type value (TSource).</para><para>Значение
    ↳ исходного типа (TSource).</para></param>
60      /// <returns><para>The value is converted to the target type
    ↳ (TTarget).</para><para>Значение ковертированное в целевой тип
    ↳ (TTarget).</para></returns>
61      [MethodImpl(MethodImplOptions.AggressiveInlining)]
62      protected static TypeBuilder CreateTypeInheritedFrom<TBaseClass>()
63      {
64          var assemblyName = new AssemblyName(GetNewName());
65          var assembly = AssemblyBuilder.DefineDynamicAssembly(assemblyName,
    ↳ AssemblyBuilderAccess.Run);
66          var module = assembly.DefineDynamicModule(GetNewName());
67          var type = module.DefineType(GetNewName(), TypeAttributes.Public |
    ↳ TypeAttributes.Class | TypeAttributes.Sealed, typeof(TBaseClass));
68          return type;
69      }
70

```

```

71  /// <summary>
72  /// <para>Converts the value of the source type (TSource) to the value of the target
    → type.</para>
73  /// <para>Конвертирует значение исходного типа (TSource) в значение целевого типа.</para>
74  /// </summary>
75  /// <param name="source"><para>The source type value (TSource).</para><para>Значение
    → исходного типа (TSource).</para></param>
76  /// <returns><para>The value is converted to the target type
    → (TTarget).</para><para>Значение ковертированное в целевой тип
    → (TTarget).</para></returns>
77  [MethodImpl(MethodImplOptions.AggressiveInlining)]
78  protected static void EmitConvertMethod(TypeBuilder typeBuilder, Action<ILGenerator>
    → emitConversion)
79  {
80      typeBuilder.EmitFinalVirtualMethod<Converter<TSource,
    → TTarget>>(nameof(IConverter<TSource, TTarget>.Convert), il =>
81      {
82          il.LoadArgument(1);
83          if (typeof(TSource) == typeof(object) && typeof(TTarget) != typeof(object))
84          {
85              ConvertFromObject(il);
86          }
87          else if (typeof(TSource) != typeof(object) && typeof(TTarget) == typeof(object))
88          {
89              il.Box(typeof(TSource));
90          }
91          else
92          {
93              emitConversion(il);
94          }
95          il.Return();
96      });
97  }
98
99  /// <summary>
100  /// <para>Converts the value of the source type (TSource) to the value of the target
    → type.</para>
101  /// <para>Конвертирует значение исходного типа (TSource) в значение целевого типа.</para>
102  /// </summary>
103  /// <param name="source"><para>The source type value (TSource).</para><para>Значение
    → исходного типа (TSource).</para></param>
104  /// <returns><para>The value is converted to the target type
    → (TTarget).</para><para>Значение ковертированное в целевой тип
    → (TTarget).</para></returns>
105  [MethodImpl(MethodImplOptions.AggressiveInlining)]
106  protected static MethodInfo GetMethodForConversionToTargetType()
107  {
108      var targetType = typeof(TTarget);
109      var convertibleType = typeof(IConvertible);
110      var typeParameters = Types<IFormatProvider>.Array;
111      if (targetType == typeof(bool))
112      {
113          return convertibleType.GetMethod(nameof(IConvertible.ToBoolean), typeParameters);
114      }
115      else if (targetType == typeof(byte))
116      {
117          return convertibleType.GetMethod(nameof(IConvertible.ToByte), typeParameters);
118      }
119      else if (targetType == typeof(char))
120      {
121          return convertibleType.GetMethod(nameof(IConvertible.ToChar), typeParameters);
122      }
123      else if (targetType == typeof(DateTime))
124      {
125          return convertibleType.GetMethod(nameof(IConvertible.ToDateTime),
    → typeParameters);
126      }
127      else if (targetType == typeof(decimal))
128      {
129          return convertibleType.GetMethod(nameof(IConvertible.ToDecimal), typeParameters);
130      }
131      else if (targetType == typeof(double))
132      {
133          return convertibleType.GetMethod(nameof(IConvertible.ToDouble), typeParameters);
134      }
135      else if (targetType == typeof(short))
136      {

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137         return convertibleType.GetMethod(nameof(IConvertible.ToInt16), typeParameters);
138     }
139     else if (targetType == typeof(int))
140     {
141         return convertibleType.GetMethod(nameof(IConvertible.ToInt32), typeParameters);
142     }
143     else if (targetType == typeof(long))
144     {
145         return convertibleType.GetMethod(nameof(IConvertible.ToInt64), typeParameters);
146     }
147     else if (targetType == typeof(sbyte))
148     {
149         return convertibleType.GetMethod(nameof(IConvertible.ToSByte), typeParameters);
150     }
151     else if (targetType == typeof(float))
152     {
153         return convertibleType.GetMethod(nameof(IConvertible.ToSingle), typeParameters);
154     }
155     else if (targetType == typeof(string))
156     {
157         return convertibleType.GetMethod(nameof(IConvertible.ToString), typeParameters);
158     }
159     else if (targetType == typeof(ushort))
160     {
161         return convertibleType.GetMethod(nameof(IConvertible.ToUInt16), typeParameters);
162     }
163     else if (targetType == typeof(uint))
164     {
165         return convertibleType.GetMethod(nameof(IConvertible.ToUInt32), typeParameters);
166     }
167     else if (targetType == typeof(ulong))
168     {
169         return convertibleType.GetMethod(nameof(IConvertible.ToUInt64), typeParameters);
170     }
171     else
172     {
173         throw new NotSupportedException();
174     }
175 }
176
177 /// <summary>
178 /// <para>Converts the value of the source type (TSource) to the value of the target
179   ↳ type.</para>
180 /// <para>Конвертирует значение исходного типа (TSource) в значение целевого типа.</para>
181 /// </summary>
182 /// <param name="source"><para>The source type value (TSource).</para><para>Значение
183   ↳ исходного типа (TSource).</para></param>
184 /// <returns><para>The value is converted to the target type
185   ↳ (TTarget).</para><para>Значение ковертированное в целевой тип
186   ↳ (TTarget).</para></returns>
187 [MethodImpl(MethodImplOptions.AggressiveInlining)]
188 protected static void LoadDefault(ILGenerator il, Type targetType)
189 {
190     if (targetType == typeof(string))
191     {
192         il.Emit(OpCodes.Ldsfld, targetType.GetField(nameof(string.Empty),
193             ↳ BindingFlags.Static | BindingFlags.Public));
194     }
195     else if (targetType == typeof(DateTime))
196     {
197         il.Emit(OpCodes.Ldsfld, targetType.GetField(nameof(DateTime.MinValue),
198             ↳ BindingFlags.Static | BindingFlags.Public));
199     }
200     else if (targetType == typeof(decimal))
201     {
202         il.Emit(OpCodes.Ldsfld, targetType.GetField(nameof(decimal.Zero),
203             ↳ BindingFlags.Static | BindingFlags.Public));
204     }
205     else if (targetType == typeof(float))
206     {
207         il.LoadConstant(0.0F);
208     }
209     else if (targetType == typeof(double))
210     {
211         il.LoadConstant(0.0D);
212     }
213     else if (targetType == typeof(long) || targetType == typeof(ulong))

```

```

207         {
208             il.LoadConstant(0L);
209         }
210         else
211         {
212             il.LoadConstant(0);
213         }
214     }
215 }
216 }

```

1.4 ./csharp/Platform.Converters/IConverter[TSource, TTarget].cs

```

1 namespace Platform.Converters
2 {
3     /// <summary>
4     /// <para>Defines a value converter from the <typeparamref name="TSource"/> type to the
5     /// <para>Определяет конвертер значений из типа <typeparamref name="TSource"/> в тип
6     /// <para><typeparamref name="TTarget"/>.</para>
7     /// </summary>
8     /// <typeparam name="TSource"><para>Source type of conversion.</para><para>Исходный тип
9     /// <para>конверсии.</para></typeparam>
10    /// <typeparam name="TTarget"><para>Target type of conversion.</para><para>Целевой тип
11    /// <para>конверсии.</para></typeparam>
12    public interface IConverter<in TSource, out TTarget>
13    {
14        /// <summary>
15        /// <para>Converts the value of the <typeparamref name="TSource"/> type to the value of
16        /// <para>the <typeparamref name="TTarget"/> type.</para>
17        /// <para>Конвертирует значение типа <typeparamref name="TSource"/> в значение типа
18        /// <para><typeparamref name="TTarget"/>.</para>
19        /// </summary>
20        /// <param name="source"><para>The <typeparamref name="TSource"/> type
21        /// <para>value.</para><para>Значение типа <typeparamref name="TSource"/>.</para></param>
22        /// <returns><para>The converted value of the <typeparamref name="TTarget"/>
23        /// <para>type.</para><para>Значение конвертированное в тип <typeparamref
24        /// <para>name="TTarget"/>.</para></returns>
25        TTarget Convert(TSource source);
26    }
27 }

```

1.5 ./csharp/Platform.Converters/IConverter[T].cs

```

1 namespace Platform.Converters
2 {
3     /// <summary>
4     /// <para>Defines a converter between two values of the same <typeparamref name="T"/>
5     /// <para>type.</para>
6     /// <para>Определяет конвертер между двумя значениями одного типа <typeparamref
7     /// <para>name="T"/>.</para>
8     /// </summary>
9     /// <typeparam name="T"><para>The type of value to convert.</para><para>Тип преобразуемого
10    /// <para>значения.</para></typeparam>
11    public interface IConverter<T> : IConverter<T, T>
12    {
13    }
14 }

```

1.6 ./csharp/Platform.Converters/UncheckedConverter.cs

```

1 using System;
2 using System.Runtime.CompilerServices;
3 using Platform.Reflection;
4
5 #pragma warning disable CS1591 // Missing XML comment for publicly visible type or member
6
7 namespace Platform.Converters
8 {
9     /// <summary>
10    /// <para>
11    /// Represents the unchecked converter.
12    /// </para>
13    /// <para></para>
14    /// </summary>
15    /// <seealso cref="ConverterBase{TSource, TTarget}"/>
16    public abstract class UncheckedConverter<TSource, TTarget> : ConverterBase<TSource, TTarget>
17    {
18        /// <summary>
19        /// <para>

```

```

20     /// Gets the default value.
21     /// </para>
22     /// <para></para>
23     /// </summary>
24     public static UncheckedConverter<TSource, TTarget> Default
25     {
26         [MethodImpl(MethodImplOptions.AggressiveInlining)]
27         get;
28     } = CompileUncheckedConverter();
29
30     /// <summary>
31     /// <para>
32     /// Compiles the unchecked converter.
33     /// </para>
34     /// <para></para>
35     /// </summary>
36     /// <returns>
37     /// <para>An unchecked converter of t source and t target</para>
38     /// <para></para>
39     /// </returns>
40     [MethodImpl(MethodImplOptions.AggressiveInlining)]
41     private static UncheckedConverter<TSource, TTarget> CompileUncheckedConverter()
42     {
43         var type = CreateTypeInheritedFrom<UncheckedConverter<TSource, TTarget>>();
44         EmitConvertMethod(type, il => il.UncheckedConvert<TSource, TTarget>());
45         return (UncheckedConverter<TSource,
46             ↪ TTarget>)Activator.CreateInstance(type.CreateTypeInfo());
47     }
48 }

```

1.7 ./csharp/Platform.Converters/UncheckedSignExtendingConverter.cs

```

1 using System;
2 using System.Runtime.CompilerServices;
3 using Platform.Reflection;
4
5 #pragma warning disable CS1591 // Missing XML comment for publicly visible type or member
6
7 namespace Platform.Converters
8 {
9     /// <summary>
10    /// <para>
11    /// Represents the unchecked sign extending converter.
12    /// </para>
13    /// <para></para>
14    /// </summary>
15    /// <seealso cref="ConverterBase{TSource, TTarget}"/>
16    public abstract class UncheckedSignExtendingConverter<TSource, TTarget> :
17    ↪ ConverterBase<TSource, TTarget>
18    {
19        /// <summary>
20        /// <para>
21        /// Gets the default value.
22        /// </para>
23        /// <para></para>
24        /// </summary>
25        public static UncheckedSignExtendingConverter<TSource, TTarget> Default
26        {
27            [MethodImpl(MethodImplOptions.AggressiveInlining)]
28            get;
29        } = CompileUncheckedConverter();
30
31        /// <summary>
32        /// <para>
33        /// Compiles the unchecked converter.
34        /// </para>
35        /// <para></para>
36        /// </summary>
37        /// <returns>
38        /// <para>An unchecked sign extending converter of t source and t target</para>
39        /// <para></para>
40        /// </returns>
41        [MethodImpl(MethodImplOptions.AggressiveInlining)]
42        private static UncheckedSignExtendingConverter<TSource, TTarget>
43        ↪ CompileUncheckedConverter()
44        {
45            var type = CreateTypeInheritedFrom<UncheckedSignExtendingConverter<TSource,
46                ↪ TTarget>>();

```

```

44         EmitConvertMethod(type, il => il.UncheckedConvert<TSource, TTarget>(extendSign:
        ↪ true));
45     return (UncheckedSignExtendingConverter<TSource,
        ↪ TTarget>)Activator.CreateInstance(type.CreateTypeInfo());
46     }
47 }
48 }

```

1.8 ./csharp/Platform.Converters.Tests/ConverterTests.cs

```

1  using System;
2  using Xunit;
3
4  namespace Platform.Converters.Tests
5  {
6      /// <summary>
7      /// <para>
8      /// Represents the converter tests.
9      /// </para>
10     /// <para></para>
11     /// </summary>
12     public static class ConverterTests
13     {
14         /// <summary>
15         /// <para>
16         /// Tests that same type test.
17         /// </para>
18         /// <para></para>
19         /// </summary>
20         [Fact]
21         public static void SameTypeTest()
22         {
23             var result = UncheckedConverter<ulong, ulong>.Default.Convert(2UL);
24             Assert.Equal(2UL, result);
25             result = CheckedConverter<ulong, ulong>.Default.Convert(2UL);
26             Assert.Equal(2UL, result);
27         }
28
29         /// <summary>
30         /// <para>
31         /// Tests that int 32 to u int 64 test.
32         /// </para>
33         /// <para></para>
34         /// </summary>
35         [Fact]
36         public static void Int32ToUInt64Test()
37         {
38             var result = UncheckedConverter<int, ulong>.Default.Convert(2);
39             Assert.Equal(2UL, result);
40             result = CheckedConverter<int, ulong>.Default.Convert(2);
41             Assert.Equal(2UL, result);
42         }
43
44         /// <summary>
45         /// <para>
46         /// Tests that sign extension test.
47         /// </para>
48         /// <para></para>
49         /// </summary>
50         [Fact]
51         public static void SignExtensionTest()
52         {
53             var result = UncheckedSignExtendingConverter<byte, long>.Default.Convert(128);
54             Assert.Equal(-128L, result);
55             result = UncheckedConverter<byte, long>.Default.Convert(128);
56             Assert.Equal(128L, result);
57         }
58
59         /// <summary>
60         /// <para>
61         /// Tests that object test.
62         /// </para>
63         /// <para></para>
64         /// </summary>
65         [Fact]
66         public static void ObjectTest()
67         {
68             TestObjectConversion("1");
69             TestObjectConversion(DateTime.UtcNow);

```



```

70     TestObjectConversion(1.0F);
71     TestObjectConversion(1.0D);
72     TestObjectConversion(1.0M);
73     TestObjectConversion(1UL);
74     TestObjectConversion(1L);
75     TestObjectConversion(1U);
76     TestObjectConversion(1);
77     TestObjectConversion((char)1);
78     TestObjectConversion((ushort)1);
79     TestObjectConversion((short)1);
80     TestObjectConversion((byte)1);
81     TestObjectConversion((sbyte)1);
82     TestObjectConversion(true);
83 }
84
85 /// <summary>
86 /// <para>
87 /// Tests the object conversion using the specified value.
88 /// </para>
89 /// <para></para>
90 /// </summary>
91 /// <typeparam name="T">
92 /// <para>The .</para>
93 /// <para></para>
94 /// </typeparam>
95 /// <param name="value">
96 /// <para>The value.</para>
97 /// <para></para>
98 /// </param>
99 private static void TestObjectConversion<T>(T value) => Assert.Equal(value,
    ↪    UncheckedConverter<object, T>.Default.Convert(value));
100 }
101 }

```

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