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016 \*/  
017  
018package org.apache.commons.beanutils.locale.converters;  
019  
020import org.apache.commons.beanutils.ConversionException;  
021  
022import java.util.Locale;  
023import java.text.ParseException;  
024  
025  
026/\*\*  
027 \* <p>Standard {@link org.apache.commons.beanutils.locale.LocaleConverter}  
028 \* implementation that converts an incoming  
029 \* locale-sensitive String into a <code>java.lang.Byte</code> object,  
030 \* optionally using a default value or throwing a  
031 \* {@link org.apache.commons.beanutils.ConversionException}  
032 \* if a conversion error occurs.</p>  
033 \*  
034 \* @version $Id$  
035 \*/  
036  
037public class ByteLocaleConverter extends DecimalLocaleConverter {  
038  
039  
040 // ----------------------------------------------------------- Constructors  
041  
042 /\*\*  
043 \* Create a {@link org.apache.commons.beanutils.locale.LocaleConverter}  
044 \* that will throw a {@link org.apache.commons.beanutils.ConversionException}  
045 \* if a conversion error occurs. The locale is the default locale for  
046 \* this instance of the Java Virtual Machine and an unlocalized pattern is used  
047 \* for the convertion.  
048 \*  
049 \*/  
050 public ByteLocaleConverter() {  
051  
052 this(false);  
053 }  
054  
055 /\*\*  
056 \* Create a {@link org.apache.commons.beanutils.locale.LocaleConverter}  
057 \* that will throw a {@link org.apache.commons.beanutils.ConversionException}  
058 \* if a conversion error occurs. The locale is the default locale for  
059 \* this instance of the Java Virtual Machine.  
060 \*  
061 \* @param locPattern Indicate whether the pattern is localized or not  
062 \*/  
063 public ByteLocaleConverter(final boolean locPattern) {  
064  
065 this(Locale.getDefault(), locPattern);  
066 }  
067  
068 /\*\*  
069 \* Create a {@link org.apache.commons.beanutils.locale.LocaleConverter}  
070 \* that will throw a {@link org.apache.commons.beanutils.ConversionException}  
071 \* if a conversion error occurs. An unlocalized pattern is used for the convertion.  
072 \*  
073 \* @param locale The locale  
074 \*/  
075 public ByteLocaleConverter(final Locale locale) {  
076  
077 this(locale, false);  
078 }  
079  
080 /\*\*  
081 \* Create a {@link org.apache.commons.beanutils.locale.LocaleConverter}  
082 \* that will throw a {@link org.apache.commons.beanutils.ConversionException}  
083 \* if a conversion error occurs.  
084 \*  
085 \* @param locale The locale  
086 \* @param locPattern Indicate whether the pattern is localized or not  
087 \*/  
088 public ByteLocaleConverter(final Locale locale, final boolean locPattern) {  
089  
090 this(locale, (String) null, locPattern);  
091 }  
092  
093 /\*\*  
094 \* Create a {@link org.apache.commons.beanutils.locale.LocaleConverter}  
095 \* that will throw a {@link org.apache.commons.beanutils.ConversionException}  
096 \* if a conversion error occurs. An unlocalized pattern is used for the convertion.  
097 \*  
098 \* @param locale The locale  
099 \* @param pattern The convertion pattern  
100 \*/  
101 public ByteLocaleConverter(final Locale locale, final String pattern) {  
102  
103 this(locale, pattern, false);  
104 }  
105  
106 /\*\*  
107 \* Create a {@link org.apache.commons.beanutils.locale.LocaleConverter}  
108 \* that will throw a {@link org.apache.commons.beanutils.ConversionException}  
109 \* if a conversion error occurs.  
110 \*  
111 \* @param locale The locale  
112 \* @param pattern The convertion pattern  
113 \* @param locPattern Indicate whether the pattern is localized or not  
114 \*/  
115 public ByteLocaleConverter(final Locale locale, final String pattern, final boolean locPattern) {  
116  
117 super(locale, pattern, locPattern);  
118 }  
119  
120 /\*\*  
121 \* Create a {@link org.apache.commons.beanutils.locale.LocaleConverter}  
122 \* that will return the specified default value  
123 \* if a conversion error occurs. The locale is the default locale for  
124 \* this instance of the Java Virtual Machine and an unlocalized pattern is used  
125 \* for the convertion.  
126 \*  
127 \* @param defaultValue The default value to be returned  
128 \*/  
129 public ByteLocaleConverter(final Object defaultValue) {  
130  
131 this(defaultValue, false);  
132 }  
133  
134 /\*\*  
135 \* Create a {@link org.apache.commons.beanutils.locale.LocaleConverter}  
136 \* that will return the specified default value  
137 \* if a conversion error occurs. The locale is the default locale for  
138 \* this instance of the Java Virtual Machine.  
139 \*  
140 \* @param defaultValue The default value to be returned  
141 \* @param locPattern Indicate whether the pattern is localized or not  
142 \*/  
143 public ByteLocaleConverter(final Object defaultValue, final boolean locPattern) {  
144  
145 this(defaultValue, Locale.getDefault(), locPattern);  
146 }  
147  
148 /\*\*  
149 \* Create a {@link org.apache.commons.beanutils.locale.LocaleConverter}  
150 \* that will return the specified default value  
151 \* if a conversion error occurs. An unlocalized pattern is used for the convertion.  
152 \*  
153 \* @param defaultValue The default value to be returned  
154 \* @param locale The locale  
155 \*/  
156 public ByteLocaleConverter(final Object defaultValue, final Locale locale) {  
157  
158 this(defaultValue, locale, false);  
159 }  
160  
161 /\*\*  
162 \* Create a {@link org.apache.commons.beanutils.locale.LocaleConverter}  
163 \* that will return the specified default value  
164 \* if a conversion error occurs.  
165 \*  
166 \* @param defaultValue The default value to be returned  
167 \* @param locale The locale  
168 \* @param locPattern Indicate whether the pattern is localized or not  
169 \*/  
170 public ByteLocaleConverter(final Object defaultValue, final Locale locale, final boolean locPattern) {  
171  
172 this(defaultValue, locale, null, locPattern);  
173 }  
174  
175 /\*\*  
176 \* Create a {@link org.apache.commons.beanutils.locale.LocaleConverter}  
177 \* that will return the specified default value  
178 \* if a conversion error occurs. An unlocalized pattern is used for the convertion.  
179 \*  
180 \* @param defaultValue The default value to be returned  
181 \* @param locale The locale  
182 \* @param pattern The convertion pattern  
183 \*/  
184 public ByteLocaleConverter(final Object defaultValue, final Locale locale, final String pattern) {  
185  
186 this(defaultValue, locale, pattern, false);  
187 }  
188  
189 /\*\*  
190 \* Create a {@link org.apache.commons.beanutils.locale.LocaleConverter}  
191 \* that will return the specified default value  
192 \* if a conversion error occurs.  
193 \*  
194 \* @param defaultValue The default value to be returned  
195 \* @param locale The locale  
196 \* @param pattern The convertion pattern  
197 \* @param locPattern Indicate whether the pattern is localized or not  
198 \*/  
199 public ByteLocaleConverter(final Object defaultValue, final Locale locale, final String pattern, final boolean locPattern) {  
200  
201 super(defaultValue, locale, pattern, locPattern);  
202 }  
203  
204 /\*\*  
205 \* Convert the specified locale-sensitive input object into an output object of the  
206 \* specified type. This method will return values of type Byte.  
207 \*  
208 \* @param value The input object to be converted  
209 \* @param pattern The pattern is used for the convertion  
210 \* @return The converted value  
211 \*  
212 \* @throws org.apache.commons.beanutils.ConversionException if conversion cannot be performed  
213 \* successfully  
214 \* @throws ParseException if an error occurs parsing a String to a Number  
215 \*/  
216 @Override  
217 protected Object parse(final Object value, final String pattern) throws ParseException {  
218 final Number parsed = (Number) super.parse(value, pattern);  
219 if (parsed.longValue() != parsed.byteValue()) {  
220 throw new ConversionException("Supplied number is not of type Byte: " + parsed.longValue());  
221 }  
222 // now returns property Byte  
223 return new Byte(parsed.byteValue());  
224 }  
225}