Czech Module for datetime2 Package

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2015-03-30 (v1.0)

This module is currently unmaintained and may be subject to change. If you want to volunteer to take over maintanance, contact me at http://www.dickimaw-books.com/contact.html

Abstract

This is the Czech language module for the datetime2 package. If you want to use the settings in this module you must install it in addition to installing datetime2. If you use babel or polyglossia, you will need this module to prevent them from redefining \today. The datetime2 useregional setting must be set to text or numeric for the language styles to be set. Alternatively, you can set the style in the document using \DTMsetstyle, but this may be changed by \date \language \delta depending on the value of the useregional setting.

I've copied the date style from babel-czech's \today.

I don't know if these settings are correct as I can't speak Czech. In particular, I don't know if the czech time style is correct. Currently this just uses the default time style. Please be aware that this may change. Whoever takes over maintanance of this module may can change it as appropriate.

The new maintainer should add the line:

The Current Maintainer of this work is Name.

to the preamble part in datetime2-czech.ins where Name is the name of the maintainer(s) and replace the 'inactive' status to 'maintained'.

Currently there is only a regionless style.

1 The Code

1.1 UTF-8

This file contains the settings that use UTF-8 characters. This file is loaded if XeLaTeX or LuaLaTeX are used. Please make sure your text editor is set to UTF-8 if you want to view this code. Identify module

1\ProvidesDateTimeModule{czech-utf8}[2015/03/30 v1.0]

\DTMczechordinal

```
2\newcommand*{\DTMczechordinal}[1]{%
3 \number#1.%
4}
```

\DTMczechmonthname

Czech month names.

- 5 \newcommand*{\DTMczechmonthname}[1]{%
- 6 \ifcase#1
- 7 \or
- 8 ledna%
- 9 \or
- 10 února%
- 11 \or
- 12 března%
- 13 \or
- 14 dubna%
- 15 \or
- 16 května%
- 17 \or
- 18 června%
- 19 \or
- 20 července%
- 21 \or
- 22 srpna%
- 23 \or
- 24 září%
- 25 \or
- 26 října%
- 27 **or**
- 28 listopadu%
- 29 \or
- 30 prosince%
- 31 \fi
- 32 }

\DTMczechMonthname

As above but capitalize. 33 \newcommand*{\DTMczechMonthname}[1]{%

- 34 \ifcase#1
- 35 \or
- 36 Ledna%
- 37 \or
- 38 Února%
- 39 \or
- 40 Března%
- 41 \or
- 42 Dubna%
- 43 \or
- 44 Května%
- 45 \or

```
Června%
46
    \or
47
    Července%
48
    \or
49
    Srpna%
50
51
    \or
52
    Září%
    \or
53
    Října%
54
    \or
55
    Listopadu%
56
57
    \or
    Prosince%
58
59
    \fi
60 }
```

If abbreviated dates are supported, short month names should be likewise provided.

1.2 ASCII

This file contains the settings that use LaTeX commands for non-ASCII characters. This should be input if neither XeLaTeX nor LuaLaTeX are used. Even if the user has loaded inputenc with utf8, this file should still be used not the datetime2-czech-utf8.ldf file as the non-ASCII characters are made active in that situation and would need protecting against expansion. Identify module

 ${\small \textbf{61} \backslash ProvidesDateTimeModule\{czech-ascii\}[2015/03/30\ v1.0]}\\$

If abbreviated dates are supported, short month names should be likewise provided.

\DTMczechordinal

```
62 \newcommand*{\DTMczechordinal}[1]{%
63 \number#1.%
64}
```

\DTMczechmonthname

Czech month names.

```
65 \newcommand* {\DTMczechmonthname}[1]{%
   \ifcase#1
    \or
67
   ledna%
68
69
    \or
    \protect\'unora%
70
71
    b\protect\v{r}ezna%
72
   \or
73
   dubna%
74
   \or
75
   kv\protect\v{e}tna%
76
77
    \protect\v{c}ervna%
```

```
\protect\v{c}ervence%
                   80
                   81
                      \or
                      srpna%
                   82
                     \or
                   83
                      z\protect\'a\protect\v{r}\protect\'{\protect\i}%
                   84
                   85
                      86
                   87
                      listopadu%
                   88
                      \or
                   89
                      prosince%
                   90
                       \fi
                   91
                   92 }
\DTMczechMonthname
                   As above but start with a capital.
                   93 \newcommand* {\DTMczechMonthname} [1] {%
                       \ifcase#1
                   94
                       \or
                   95
                      Ledna%
                   96
                   97
                       \or
                       \protect\'Unora%
                   98
                   99
                      B\protect\v{r}ezna%
                   100
                      \or
                  101
                      Dubna%
                  102
                  103
                      \or
                      Kv\protect\v{e}tna%
                  104
                  105
                       \protect\v{C}ervna%
                  106
                  107
                       \protect\v{C}ervence%
                   108
                       \or
                  109
                       Srpna%
                   110
                   111
                      112
                   113
                      \protect\v{R}\protect\'{\protect\i}jna%
                   114
                      \or
                   115
                      Listopadu%
                   116
                   117
                      \or
                      Prosince%
                   118
                       \fi
                   119
                  120 }
```

1.3 Main Czech Module (datetime2-czech.ldf)

Identify Module

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121 \ProvidesDateTimeModule{czech}[2015/03/30 v1.0]

```
122 \RequirePackage{ifxetex,ifluatex}
                                                   XeTeX and LuaTeX natively support UTF-8, so load czech-utf8 if either of those
                                                   engines are used otherwise load czech-ascii.
                                                   123\ifxetex
                                                   124 \RequireDateTimeModule{czech-utf8}
                                                          \ifluatex
                                                               \RequireDateTimeModule{czech-utf8}
                                                   128
                                                               \RequireDateTimeModule{czech-ascii}
                                                   129
                                                   130 \fi
                                                   131 \fi
                                                          Define the czech style. The time style is the same as the default style provided
                                                   by datetime2. This may need correcting. For example, if a 12 hour style similar to the
                                                   englishampm (from the english-base module) is required.
                                                          Allow the user a way of configuring the czech and czech-numeric styles. This
                                                   doesn't use the package wide separators such as \dtm@datetimesep in case other date
                                                   formats are also required.
 \DTMczechdaymonthsep
                                                   The separator between the day and month for the text format.
                                                   132 \newcommand*{\DTMczechdaymonthsep}{\DTMtexorpdfstring{\protect~}{\space}}
\DTMczechmonthyearsep
                                                   The separator between the month and year for the text format.
                                                   133 \newcommand*{\DTMczechmonthyearsep}{\space}
 \DTMczechdatetimesep
                                                   The separator between the date and time blocks in the full format (either text or numeric).
                                                   134 \newcommand*{\DTMczechdatetimesep}{\space}
 \DTMczechtimezonesep
                                                   The separator between the time and zone blocks in the full format (either text or numeric).
                                                   135 \newcommand*{\DTMczechtimezonesep}{\space}
                                                   The separator for the numeric date format.
           \DTMczechdatesep
                                                   136 \newcommand* {\DTMczechdatesep}{.}
           \DTMczechtimesep
                                                   The separator for the numeric time format.
                                                   137 \newcommand*{\DTMczechtimesep}{:}
                                                          Provide keys that can be used in \DTMlangsetup to set these separators.
                                                   138 \DTMdefkey{czech}{daymonthsep}{\renewcommand*{\DTMczechdaymonthsep}{#1}}
                                                    \label{localize} $$139 \Delta^*(czech)_{monthyearsep}_{renewcommand}^{OTMczechmonthyearsep}_{\#1}_{monthyearsep}_{\#1}_{monthyearsep}_{\#1}_{monthyearsep}_{\#1}_{monthyearsep}_{\#1}_{monthyearsep}_{\#1}_{monthyearsep}_{\#1}_{monthyearsep}_{\#1}_{monthyearsep}_{\#1}_{monthyearsep}_{\#1}_{monthyearsep}_{\#1}_{monthyearsep}_{\#1}_{monthyearsep}_{\#1}_{monthyearsep}_{\#1}_{monthyearsep}_{\#1}_{monthyearsep}_{\#1}_{monthyearsep}_{\#1}_{monthyearsep}_{\#1}_{monthyearsep}_{\#1}_{monthyearsep}_{\#1}_{monthyearsep}_{\#1}_{monthyearsep}_{\#1}_{monthyearsep}_{\#1}_{monthyearsep}_{\#1}_{monthyearsep}_{\#1}_{monthyearsep}_{\#1}_{monthyearsep}_{\#1}_{monthyearsep}_{monthyearsep}_{\#1}_{monthyearsep}_{monthyearsep}_{monthyearsep}_{monthyearsep}_{monthyearsep}_{monthyearsep}_{monthyearsep}_{monthyearsep}_{monthyearsep}_{monthyearsep}_{monthyearsep}_{monthyearsep}_{monthyearsep}_{monthyearsep}_{monthyearsep}_{monthyearsep}_{monthyearsep}_{monthyearsep}_{monthyearsep}_{monthyearsep}_{monthyearsep}_{monthyearsep}_{monthyearsep}_{monthyearsep}_{monthyearsep}_{monthyearsep}_{monthyearsep}_{monthyearsep}_{monthyearsep}_{monthyearsep}_{monthyearsep}_{monthyearsep}_{monthyearsep}_{monthyearsep}_{monthyearsep}_{monthyearsep}_{monthyearsep}_{monthyearsep}_{monthyearsep}_{monthyearsep}_{monthyearsep}_{monthyearsep}_{monthyearsep}_{monthyearsep}_{monthyearsep}_{monthyearsep}_{monthyearsep}_{monthyearsep}_{monthyearsep}_{monthyearsep}_{monthyearsep}_{monthyearsep}_{monthyearsep}_{monthyearsep}_{monthyearsep}_{monthyearsep}_{monthyearsep}_{monthyearsep}_{monthyearsep}_{monthyearsep}_{monthyearsep}_{monthyearsep}_{monthyearsep}_{monthyearsep}_{monthyearsep}_{monthyearsep}_{monthyearsep}_{monthyearsep}_{monthyearsep}_{monthyearsep}_{monthyearsep}_{monthyearsep}_{monthyearsep}_{monthyearsep}_{monthyearsep}_{monthyearsep}_{monthyearsep}_{monthyearsep}_{monthyearsep}_{monthyearsep}_{monthyearsep}_{monthyearsep}_{monthyearsep}_{monthyearsep}_{monthyearsep}_{monthyearsep}_{monthyearsep}_{monthyearsep}_{monthyearsep}_{monthyearsep}_{monthyearsep}_{monthyearsep}_{monthyearsep}_{
                                                   140 \DTMdefkey{czech}{datetimesep}{"renewcommand" {"DTMczechdatetimesep}{"1}}
                                                   141 \DTMdefkey{czech}{timezonesep}{\renewcommand*{\DTMczechtimezonesep}{#1}}
                                                   142 \DTMdefkey{czech}{datesep}{\renewcommand*{\DTMczechdatesep}{#1}}
                                                   143 \DTMdefkey{czech}{timesep}{\renewcommand*{\DTMczechtimesep}{#1}}
```

Need to find out if XeTeX or LuaTeX are being used.

```
propriate. (I don't know how the date should be abbreviated.)
   Define a boolean key that determines if the time zone mappings should be used.
144 \DTMdefboolkey{czech}{mapzone}[true]{}
The default is to use mappings.
145 \DTMsetbool{czech}{mapzone}{true}
   Define a boolean key that determines if the day of month should be displayed.
146 \DTMdefboolkey{czech}{showdayofmonth}[true]{}
The default is to show the day of month.
147 \DTMsetbool{czech}{showdayofmonth}{true}
   Define a boolean key that determines if the year should be displayed.
148 \DTMdefboolkey{czech}{showyear}[true]{}
The default is to show the year.
149 \DTMsetbool{czech}{showyear}{true}
   Define the czech style. (TODO: implement day of week?)
150 \DTMnewstyle
   {czech}% label
151
    {% date style
152
      \renewcommand*\DTMdisplaydate[4]{%
153
         \DTMifbool{czech}{showdayofmonth}
154
         {\DTMczechordinal{##3}\DTMczechdaymonthsep}%
155
         {}%
156
         \DTMczechmonthname{##2}%
157
        \DTMifbool{czech}{showyear}%
158
        {%
159
           \DTMczechmonthyearsep
160
           \number##1
161
        }%
162
        {}%
163
      }%
164
      \renewcommand*\DTMDisplaydate[4]{%
165
166
        \DTMifbool{czech}{showdayofmonth}
167
         {%
           \DTMczechordinal{##3}\DTMczechdaymonthsep
168
           \DTMczechmonthname{##2}%
169
        }%
170
        {%
171
           \DTMczechMonthname{##2}%
172
173
         \DTMifbool{czech}{showyear}%
174
175
           \DTMczechmonthyearsep
176
           \number##1
177
        }%
178
```

TODO: provide a boolean key to switch between full and abbreviated formats if ap-

179

180

{}% }%

```
}%
181
   {% time style (use default)
182
     \DTMsettimestyle{default}%
183
184
   {% zone style
185
186
     \DTMresetzones
187
     \DTMczechzonemaps
      \renewcommand*{\DTMdisplayzone}[2]{%
188
        \DTMifbool{czech}{mapzone}%
189
        {\DTMusezonemapordefault{##1}{##2}}%
190
        {%
191
          \ifnum##1<0\else+\fi\DTMtwodigits{##1}%
192
          \ifDTMshowzoneminutes\DTMczechtimesep\DTMtwodigits{##2}\fi
193
       }%
194
     }%
195
   }%
196
   {% full style
197
     \renewcommand*{\DTMdisplay}[9]{%
198
199
       \ifDTMshowdate
200
        \DTMdisplaydate{##1}{##2}{##3}{##4}%
        \DTMczechdatetimesep
201
202
       DTMdisplaytime{##5}{##6}{##7}%
203
       \ifDTMshowzone
204
        \DTMczechtimezonesep
205
        \DTMdisplayzone{##8}{##9}%
206
207
     }%
208
      \renewcommand*{\DTMDisplay}[9]{%
209
       \ifDTMshowdate
210
        \DTMDisplaydate{##1}{##2}{##3}{##4}%
211
212
        \DTMczechdatetimesep
213
       DTMdisplaytime{##5}{##6}{##7}%
214
       \ifDTMshowzone
215
        \DTMczechtimezonesep
216
        \DTMdisplayzone{##8}{##9}%
217
       \fi
218
219
     }%
   }%
220
   Define numeric style.
221 \DTMnewstyle
   {czech-numeric}% label
223
   {% date style
       \renewcommand*\DTMdisplaydate[4]{%
224
         \DTMifbool{czech}{showdayofmonth}%
225
         {%
226
           \number##3 % space intended
227
           \DTMczechdatesep
228
```

```
}%
229
        {}%
230
        \number##2 % space intended
231
        \DTMifbool{czech}{showyear}%
232
        {%
233
234
          \DTMczechdatesep
235
          \number##1 % space intended
        }%
236
        {}%
237
238
      239
240
   }%
   {% time style
241
      \renewcommand*\DTMdisplaytime[3]{%
242
        \number##1
243
        \DTMczechtimesep\DTMtwodigits{##2}%
244
        \ifDTMshowseconds\DTMczechtimesep\DTMtwodigits{##3}\fi
245
246
  }%
247
248
   {% zone style
     \DTMresetzones
249
     \DTMczechzonemaps
250
     \renewcommand*{\DTMdisplayzone}[2]{%
251
       \DTMifbool{czech}{mapzone}%
252
       {\DTMusezonemapordefault{##1}{##2}}%
253
254
       {%
         \ifnum##1<0\else+\fi\DTMtwodigits{##1}%
255
         \ifDTMshowzoneminutes\DTMczechtimesep\DTMtwodigits{##2}\fi
256
       }%
257
     }%
258
   }%
259
   {% full style
261
     \renewcommand*{\DTMdisplay}[9]{%
      \ifDTMshowdate
262
       \DTMdisplaydate{##1}{##2}{##3}{##4}%
263
       \DTMczechdatetimesep
264
265
      \DTMdisplaytime{##5}{##6}{##7}%
266
      \ifDTMshowzone
       \DTMczechtimezonesep
268
       \DTMdisplayzone{##8}{##9}%
269
270
271
     \renewcommand*{\DTMDisplay}{\DTMdisplay}%
272
273 }
```

\DTMczechzonemaps

The time zone mappings are set through this command, which can be redefined if extra mappings are required or mappings need to be removed.

```
274 \newcommand* {\DTMczechzonemaps} {%
275 \DTMdefzonemap {01} {00} {CET} %
```

```
\DTMdefzonemap{02}{00}{CEST}%
276
277 }
   Switch style according to the useregional setting.
278 \DTMifcaseregional
279 {}% do nothing
280 {\DTMsetstyle{czech}}
281 {\DTMsetstyle{czech-numeric}}
   Redefine \delta teczech (or \delta teczech) to prevent babel from resetting \to-
day. (For this to work, babel must already have been loaded if it's required.)
282 \ifcsundef{date\CurrentTrackedDialect}
283 {%
     \ifundef\dateczech
284
285
     {% do nothing
286
     }%
287
     {%
       \def\dateczech{%
288
         \DTMifcaseregional
289
         {}% do nothing
290
         {\DTMsetstyle{czech}}%
291
          {\DTMsetstyle{czech-numeric}}%
292
293
       }%
     }%
294
295 }%
296 {%
     \csdef{date\CurrentTrackedDialect}{%
297
298
       \DTMifcaseregional
299
       {}% do nothing
       {\DTMsetstyle{czech}}%
300
       {\DTMsetstyle{czech-numeric}}
301
     }%
302
303 }%
```

Change History

1.0	
General: Initial release	 1, 3, 4

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