

European Computer Modern font with oldstyle digits

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Abstract

The `hfoldsty` package provides virtual fonts for using oldstyle (0123456789) figures with the European Computer Modern fonts. It does a similar job as the `eco` package by Sebastian Kirsch <skirsch@t-online.de> but includes a couple of improvements, e.g., better kerning with guillemets, support for character protruding using the `pdfcprot` package, using the `pdfcprot` package, arbitrary font sizes in conjunction with `fix-cm.sty` (see section 2).

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1 The user interface

1.1 Using this package

To use this package place

```
\usepackage{hfoldsty}
```

in the preamble of your document.

newstylett By default, the roman and the sans-serif font families are changed to use old-style figures while the typewriter family stays unchanged. This is done because the typewriter font mostly is used for source code where oldstyle figures look strange. Equivalent to use no package option is to use the **newstylett** package option.

oldstylett If you want to use oldstyle figures also with typewriter fonts specify the **oldstylett** package option when loading the **hfoldsty** package. As side effect, the typewriter font then uses ligatures instead of single characters for “fi”, “ff”, “ffi”, “ffi”, and “ffi”. Have a look at the two examples:

```
int main()
{
    int var1=123, var2=345;
    FILE *file1;
    file1=fopen("test.out","w");
    fprintf(file1,"%d + %d = %d\n",var1,var2,var1+var2);
    return 0;
} // main
```

and

```
int main()
{
    int var1=123, var2=345;
    FILE *file1;
    file1=fopen("test.out","w");
    fprintf(file1,"%d + %d = %d\n",var1,var2,var1+var2);
    return 0;
} // main
```

Look at the variable `file1` which is $\text{\textcircled{1}}$ in the second example. $\text{\textcircled{1}}$ in the second example.

`\oldstylenums` The `\oldstylenums` command is redefined in order to allow arbitrary text in the argument.

`\newstylenums` The `\newstylenums` command is the analogous command to `\oldstylenums` to switch to lining figures.

Even font switching commands are possible in the argument of the `\oldstylenums` and `\newstylenums` commands, e.g.,

```
Hello 1234, \textsf{Hello 1234},  
\newstylenums{Hello 1234, \textsf{Hello 1234}.}
```

leads to “Hello 1234, Hello 1234, Hello 1234, Hello 1234.”

1.2 Slanted small capitals

`slantsc.sty` The font definition files of the `hfoldsty` package provide additional shapes for small capitals, an italic and slanted version. You may access them using the `slantsc` package.

1.3 Allow arbitrary font sizes and reduce number of design sizes

`fix-cm` The default T1 encoded fonts use a large number of different design sizes, and they do not allow to use arbitrary font sizes. For normal European Computer Modern fonts, this is fixed by using `fix-cm.sty`. With this package, you can reach it by either including the `fix-cm` option when loading `hfoldsty`,

```
\usepackage[fix-cm]{hfoldsty}
```

or by loading `fix-cm.sty` before `hfoldsty.sty`. According to the documentation for the `fix-cm` package, you shall load the `fix-cm` package even before the `\documentclass` command, using `\RequirePackage`:

```
\RequirePackage{fix-cm}  
\documentclass{article}  
\usepackage{hfoldsty}
```

1.4 Character protruding

`pdfcprot.sty` The `hfoldsty` package does not produce any characters into the margin by itself. It, however, provides the production information for the `pdfcprot` package with the extension `.cpa`.

`microtype.sty` The `microtype` package has build-in support of the fonts provided by `hfoldsty` so that no separate code is required.

I recommend to use `microtype` rather than `pdfcprot`.

2 Differences between the `eco` and the `hfoldsty` packages

Item	<code>eco</code>	<code>hfoldsty</code>
Typewriter font	oldstyle figures and ligatures	lining figures, no ligatures by default, can be switched.
slanted small caps	not available	Access using the package <code>slantsc</code>
character protruding	protrudes the hyphen character into the right margin	by default no protruding, provides files for the <code>pdfcprot</code> package, supported by <code>microtype</code> package
kerning	same kerning as European Computer Modern fonts	Improved kerning for guillemets («, »)
TS1 encoding	—	Includes necessary fd files
font sizes	restricted as European Computer Modern with T1 encoding	adjustable: as <code>eco</code> or arbitrary
design sizes	many, as European Computer Modern with T1 encoding	adjustable: as <code>eco</code> or reduced by <code>fix-cm.sty</code>

3 To Do

- Add kerning information for English and German quotation marks.

4 The implementation

Heading of the package:

```

1 <package>\NeedsTeXFormat{LaTeX2e}
2 <hformnT1>\ProvidesFile{hformnT1.cpa}
3 <hformitT1>\ProvidesFile{hformitT1.cpa}
4 <hformsT1>\ProvidesFile{hformsT1.cpa}
5 <hforbxnT1>\ProvidesFile{hforbxnT1.cpa}
6 <hforbxitT1>\ProvidesFile{hforbxitT1.cpa}
7 <hforbxslT1>\ProvidesFile{hforbxslT1.cpa}
8 <hfossmnT1>\ProvidesFile{hfossmnT1.cpa}
9 <hfossmitT1>\ProvidesFile{hfossmitT1.cpa}
10 <hfossmslT1>\ProvidesFile{hfossmslT1.cpa}
11 <hfossbxnT1>\ProvidesFile{hfossbxnT1.cpa}
12 <hfossbxitT1>\ProvidesFile{hfossbxitT1.cpa}
13 <hfossbxslT1>\ProvidesFile{hfossbxslT1.cpa}

```

```

14 <hformnTS1>\ProvidesFile{hformnTS1.cpa}
15 <hformitTS1>\ProvidesFile{hformitTS1.cpa}
16 <hformslTS1>\ProvidesFile{hformslTS1.cpa}
17 <hforbxnTS1>\ProvidesFile{hforbxnTS1.cpa}
18 <hforbxitTS1>\ProvidesFile{hforbxitTS1.cpa}
19 <hforbxslTS1>\ProvidesFile{hforbxslTS1.cpa}
20 <hfossmnTS1>\ProvidesFile{hfossmnTS1.cpa}
21 <hfossmiTS1>\ProvidesFile{hfossmiTS1.cpa}
22 <hfossmslTS1>\ProvidesFile{hfossmslTS1.cpa}
23 <hfossbxnTS1>\ProvidesFile{hfossbxnTS1.cpa}
24 <hfossbxitTS1>\ProvidesFile{hfossbxitTS1.cpa}
25 <hfossbxslTS1>\ProvidesFile{hfossbxslTS1.cpa}
26 <omlhfor>\ProvidesFile{omlhfor.fd}
27 <omshfor>\ProvidesFile{omshfor.fd}
28 <tslhfor>\ProvidesFile{tslhfor.fd}
29 <tslhfoss>\ProvidesFile{tslhfoss.fd}
30 <tslhfott>\ProvidesFile{tslhfott.fd}
31 <tslhfovtt>\ProvidesFile{tslhfovtt.fd}
32 <package>\ProvidesPackage{hfoldsty}
33 <package|cpaT1|cpaTS1|fd> [2012/01/01 v1.15 European Computer Modern with oldstyle digits]
Boolean to decide which typewriter font is used.
34 <*package>
35 \newif\ifhfo@oldstylelett
Boolean to decide if reduced design sizes are to be used.
36 \newif\ifhfofixcm
Package options for type of typewriter font.
37 \DeclareOption{oldstylelett}{\hfo@oldstyleletttrue}
38 \DeclareOption{newstylelett}{\hfo@oldstylelettfalse}
39 \DeclareOption{origtt}{\hfo@oldstylelettfalse}
Option fix-cm reduces the design sizes and allows to use arbitrary fonts sizes.
40 \DeclareOption{fix-cm}{\hfofixcmtrue}
Pass all unknown options to the package fontenc.
41 \DeclareOption*{\PassOptionsToPackage{CurrentOption}{fontenc}}
By default, use the original typewriter font with lining figures and without ligatures.
42 \ExecuteOptions{origtt}
43 \ProcessOptions\relax
If the package fix-cm.sty is loaded, switch on the reduced design size set, too.
44 \@ifpackageloaded{fix-cm}{\hfofixcmtrue}{}
This package needs the Cork encoding, T1.
45 \RequirePackage[T1]{fontenc}
If fix-cm has been used, load fix-cm.sty for consistence.
46 \ifhfofixcm
47 \typeout{hfoldsty: Using fewer design sizes (fix-cm)}%

```

```

48 \RequirePackage{fix-cm}
49 \else
50 \typeout{hfoldsty: Using all design sizes}%
51 \fi
More robust if decisions.
52 \RequirePackage{ifthen}

\rmdefault Do the main task of this package, switch the three font families from lining figures
\sfdefault to the virtual fonts using oldstyle figures and improved kerning with guillemets.
\ttdefault
53 \renewcommand\rmdefault{hfor}
54 \renewcommand\sfddefault{hfoss}
55 \ifhfo@oldstylett
56 \renewcommand\ttdefault{hfott}
57 \fi

\oldstylenums Redefine the \oldstylenums command. This version is more useful than the
original one because it allows to use ordinary text in its argument. In ordinary
text with oldstyle figures, it has only one effect because it switches on oldstyle
figures for the typewriter font, too.
58 \newcommand\hfo@oldstylenums{}
59 \let\hfo@oldstylenums=\oldstylenums
60 \DeclareRobustCommand{\oldstylenums}[1]{%
61 \begingroup
Redefine the family defaults in order to be available to change the font family
inside the argument.
62 \renewcommand{\rmdefault}{hfor}%
63 \renewcommand{\sfdefault}{hfoss}%
64 \renewcommand{\ttdefault}{hfott}%
65 \newif\ifhfo@knownfamily
66 \hfo@knownfamilytrue
If the font family is known switch to the corresponding font family with oldstyle
figures. Some switches, e.g., hfor→hfor, are performed to avoid the fall-back call
of the original \oldstylenums command.
67 \ifthenelse{\equal{\f@family}{cmr}\or\equal{\f@family}{hfor}}{%
68 \fontfamily{\rmdefault}%
69 }{%
70 \ifthenelse{\equal{\f@family}{cmss}\or\equal{\f@family}{hfoss}}{%
71 \fontfamily{\sfdefault}%
72 }{%
73 \ifthenelse{\equal{\f@family}{cmtt}\or\equal{\f@family}{hfott}}{%
74 \fontfamily{\ttdefault}%
75 }{%
If the font family is unknown, call the original \oldstylenums command that has
been copied before.
76 \hfo@oldstylenums{#1}\hfo@knownfamilyfalse
77 }%

```

```

78   }%
79 }%
Only select the modified font if the font family has been known.
80 \ifhfo@knownfamily
81   \selectfont
82   #1%
83 \fi
84 \endgroup
85 }

```

`\newstylenums` Declare an analogous `\newstylenums` command that switches back to lining figures. If the font family is unknown, do nothing before typesetting the argument.

```

86 \DeclareRobustCommand{\newstylenums}[1]{%
87   \begingroup
Redefine the family defaults in order to be available to change the font family
inside the argument.
88   \renewcommand{\rmdefault}{cmr}%
89   \renewcommand{\sfdefault}{cmss}%
90   \renewcommand{\ttdefault}{cmtt}%
91   \ifthenelse{\equal{\f@family}{hfor}}{%
92     \fontfamily{\rmdefault}%
93   }{%
94     \ifthenelse{\equal{\f@family}{hfoss}}{%
95       \fontfamily{\sfdefault}%
96     }{%
97       \ifthenelse{\equal{\f@family}{hfott}}{%
98         \fontfamily{\ttdefault}%
99       }{}%
100   }%
101 }%
102 \selectfont
103 #1%
104 \endgroup
105 }
106 \</package>

```

5 Character protruding file for pdfcprot package

5.1 Cork (T1) encoding

Roman medium upright.

```

107 \langle hformnT1 \rangle \expandafter \gdef \csname hformnT1 \endcsname {%
Roman medium italics.
108 \langle hformitT1 \rangle \expandafter \gdef \csname hformitT1 \endcsname {%
Roman medium slanted.
109 \langle hformslT1 \rangle \expandafter \gdef \csname hformslT1 \endcsname {%

```

Roman bold-extended upright.

110 `<hforbxnT1>\expandafter\gdef\csname hforbxnT1\endcsname{%`
Roman bold-extended italics.

111 `<hforbxitT1>\expandafter\gdef\csname hforbxitT1\endcsname{%`
Roman bold-extended slanted.

112 `<hforbxslT1>\expandafter\gdef\csname hforbxslT1\endcsname{%`
Sans-serif medium upright.

113 `<hfossmnT1>\expandafter\gdef\csname hfossmnT1\endcsname{%`
Sans-serif medium italics.

114 `<hfossmiT1>\expandafter\gdef\csname hfossmiT1\endcsname{%`
Sans-serif medium slanted.

115 `<hfossmstT1>\expandafter\gdef\csname hfossmstT1\endcsname{%`
Sans-serif bold-extended upright.

116 `<hfossbxnT1>\expandafter\gdef\csname hfossbxnT1\endcsname{%`
Sans-serif bold-extended italics.

117 `<hfossbxitT1>\expandafter\gdef\csname hfossbxitT1\endcsname{%`
Sans-serif bold-extended slanted.

118 `<hfossbxslT1>\expandafter\gdef\csname hfossbxslT1\endcsname{%`
Common settings for all T1 cpa files.

119 `<*cpaT1>`

120 `\lpcode\font 16=400 % ‘ ‘`

121 `\rprcode\font 17=400 % ’ ’`

122 `\rprcode\font 21=300 % --`

123 `\rprcode\font 22=200 % ---`

124 `% german quotation marks`

125 `\lpcode\font\quotedblbase=500`

126 `\rprcode\font\textquotedblleft=500`

127 `% set the protrusion of ",", "-" and "." a bit smaller`

128 `% than originally suggested by Han The Than`

129 `\rprcode\font‘\,=550`

130 `\rprcode\font‘\-=550`

131 `\rprcode\font‘\.=550`

132 `% original Setting from Han The Thans protcode.tex`

133 `\rprcode\font‘\!=200`

134 `\rprcode\font‘\;=500`

135 `\rprcode\font‘\:=500`

136 `\rprcode\font‘\?=200`

137 `\lpcode\font‘\‘=600`

138 `\rprcode\font‘\’=600`

139 `\rprcode\font‘\)=50`

140 `\rprcode\font‘\A=\rprcode\font‘\A`

141 `\rprcode\font 196=50 % A umlaut`

142 `\rprcode\font‘\F=50`

143 `\rprcode\font‘\K=50`


```

144 \rprcode\font'\L=50
145 \rprcode\font'\T=50
146 \rprcode\font'\V=50
147 \rprcode\font'\W=50
148 \rprcode\font'\X=50
149 \rprcode\font'\Y=50
150 \rprcode\font'\k=50
151 \rprcode\font'\r=50
152 \rprcode\font'\t=50
153 \rprcode\font'\v=50
154 \rprcode\font'\w=50
155 \rprcode\font'\x=50
156 \rprcode\font'\y=50
157 \lprcode\font'\(=50
158 \lprcode\font'\A=50
159 \lprcode\font 196=\lprcode\font'\A % A umlaut
160 \lprcode\font'\J=50
161 \lprcode\font'\T=50
162 \lprcode\font'\V=50
163 \lprcode\font'\W=50
164 \lprcode\font'\X=50
165 \lprcode\font'\Y=50
166 \lprcode\font'\v=50
167 \lprcode\font'\w=50
168 \lprcode\font'\x=50
169 \lprcode\font'\y=50
170 }%
171 </cpaT1>

```

5.2 Text Companion (TS1) encoding

Roman medium upright.

```

172 <hformnTS1>\expandafter\gdef\csname hformnTS1\endcsname{%
    Roman medium italics.
173 <hformitTS1>\expandafter\gdef\csname hformitTS1\endcsname{%
    Roman medium slanted.
174 <hforms1TS1>\expandafter\gdef\csname hforms1TS1\endcsname{%
    Roman bold-extended upright.
175 <hforbxnTS1>\expandafter\gdef\csname hforbxnTS1\endcsname{%
    Roman bold-extended italics.
176 <hforbxitTS1>\expandafter\gdef\csname hforbxitTS1\endcsname{%
    Roman bold-extended slanted.
177 <hforbxslTS1>\expandafter\gdef\csname hforbxslTS1\endcsname{%
    Sans-serif medium upright.
178 <hfossmnTS1>\expandafter\gdef\csname hfossmnTS1\endcsname{%

```

Sans-serif medium italics.

```

179 <hfosmitTS1>\expandafter\gdef\csname hfosmitTS1\endcsname{%
  Sans-serif medium slanted.
180 <hfosmslTS1>\expandafter\gdef\csname hfosmslTS1\endcsname{%
  Sans-serif bold-extended upright.
181 <hfosbxnTS1>\expandafter\gdef\csname hfosbxnTS1\endcsname{%
  Sans-serif bold-extended italics.
182 <hfosbxitTS1>\expandafter\gdef\csname hfosbxitTS1\endcsname{%
  Sans-serif bold-extended slanted.
183 <hfosbxs1TS1>\expandafter\gdef\csname hfosbxs1TS1\endcsname{%
  Common settings for all TS1 cpa files.
184 <*cpaTS1>
185 \rptcode\font 176=500 % \textdegree
186 }%
187 </cpaTS1>

```

6 fd files

```

188 <*omlhfor>
189 \DeclareFontFamily{OML}{hfor}{\skewchar\font127 }
190 \DeclareFontShape{OML}{hfor}{m}{n}%
191   {<->ssub*cmm/m/it}{ }
192 \DeclareFontShape{OML}{hfor}{m}{it}%
193   {<->ssub*cmm/m/it}{ }
194 \DeclareFontShape{OML}{hfor}{m}{sl}%
195   {<->ssub*cmm/m/it}{ }
196 \DeclareFontShape{OML}{hfor}{m}{sc}%
197   {<->ssub*cmm/m/it}{ }
198 \DeclareFontShape{OML}{hfor}{bx}{n}%
199   {<->ssub*cmm/b/it}{ }
200 \DeclareFontShape{OML}{hfor}{bx}{it}%
201   {<->ssub*cmm/b/it}{ }
202 \DeclareFontShape{OML}{hfor}{bx}{sl}%
203   {<->ssub*cmm/b/it}{ }
204 \DeclareFontShape{OML}{hfor}{bx}{sc}%
205   {<->ssub*cmm/b/it}{ }
206 </omlhfor>
207 <*omshfor>
208 \DeclareFontFamily{OMS}{hfor}{\skewchar\font48 }
209 \DeclareFontShape{OMS}{hfor}{m}{n}%
210   {<->ssub*cmsy/m/n}{ }
211 \DeclareFontShape{OMS}{hfor}{m}{it}%
212   {<->ssub*cmsy/m/n}{ }
213 \DeclareFontShape{OMS}{hfor}{m}{sl}%
214   {<->ssub*cmsy/m/n}{ }

```

```

215 \DeclareFontShape{OMS}{hfor}{m}{sc}%
216   {<->ssub*cmsy/m/n}{ }
217 \DeclareFontShape{OMS}{hfor}{bx}{n}%
218   {<->ssub*cmsy/b/n}{ }
219 \DeclareFontShape{OMS}{hfor}{bx}{it}%
220   {<->ssub*cmsy/b/n}{ }
221 \DeclareFontShape{OMS}{hfor}{bx}{sl}%
222   {<->ssub*cmsy/b/n}{ }
223 \DeclareFontShape{OMS}{hfor}{bx}{sc}%
224   {<->ssub*cmsy/b/n}{ }
225 
```

/omshfor

```

226 <*tslhfor>
227 \ifhfixcm
228   \typeout{tslhfor.fd: Using fewer design sizes (fix-cm)}%
229   \providecommand{\HFO@family}[5]{%
230     \DeclareFontShape{#1}{#2}{#3}{#4}%
231     {<-6><6-7><7-8><8-9><9-10><10-12><12-17><17->genb*#5}{ }}
232 \else
233   \typeout{tslhfor.fd: Using all design sizes}%
234   \providecommand{\HFO@family}[5]{%
235     \DeclareFontShape{#1}{#2}{#3}{#4}%
236     {<5><6><7><8><9><10><10.95><12><14.4>%
237       <17.28><20.74><24.88><29.86><35.83>genb*#5}{ }}
238 \fi
239 \DeclareFontFamily{TS1}{hfor}{\hyphenchar\font\m@ne}
240 \HFO@family{TS1}{hfor}{m}{n}{tcrm}
241 \HFO@family{TS1}{hfor}{m}{sl}{tcs1}
242 \HFO@family{TS1}{hfor}{m}{it}{tcti}
243 \HFO@family{TS1}{hfor}{bx}{n}{tcbx}
244 \HFO@family{TS1}{hfor}{b}{n}{tcrb}
245 \HFO@family{TS1}{hfor}{bx}{it}{tcbi}
246 \HFO@family{TS1}{hfor}{bx}{sl}{tcb1}
247 \HFO@family{TS1}{hfor}{m}{ui}{tcui}
248 
```

/tslhfor

```

249 <*tslhfoss>
250 \ifhfixcm
251   \typeout{tslhfor.fd: Using fewer design sizes (fix-cm)}%
252   \providecommand{\HFO@family}[5]{%
253     \DeclareFontShape{#1}{#2}{#3}{#4}%
254     {<-6><6-7><7-8><8-9><9-10><10-12><12-17><17->genb*#5}{ }}
255 \else
256   \typeout{tslhfor.fd: Using all design sizes}%
257   \providecommand{\HFO@family}[5]{%
258     \DeclareFontShape{#1}{#2}{#3}{#4}%
259     {<5><6><7><8><9><10><10.95><12><14.4>%
260       <17.28><20.74><24.88><29.86><35.83>genb*#5}{ }}
261 \fi
262 \DeclareFontFamily{TS1}{hfoss}{\hyphenchar\font\m@ne}
263 \HFO@family{TS1}{hfoss}{m}{n}{tcss}

```

```

264 \HF0@family{TS1}{hfoss}{m}{sl}{tcsi}
265 \HF0@family{TS1}{hfoss}{m}{it}{tcsi}
266 \HF0@family{TS1}{hfoss}{bx}{n}{tcsx}
267 \HF0@family{TS1}{hfoss}{bx}{it}{tcs0}
268 \HF0@family{TS1}{hfoss}{bx}{sl}{tcs0}
269 \ts1hfoss}

270 \*ts1hfott}
271 \ifhfixcm
272 \typeout{ts1hfor.fd: Using fewer design sizes (fix-cm)}%
273 \providecommand{\HF0@family}[5]{%
274   \DeclareFontShape{#1}{#2}{#3}{#4}%
275     {<-6><6-7><7-8><8-9><9-10><10-12><12-17><17->genb*#5}{}}
276 \else
277 \typeout{ts1hfor.fd: Using all design sizes}%
278 \providecommand{\HF0@family}[5]{%
279   \DeclareFontShape{#1}{#2}{#3}{#4}%
280     {<5><6><7><8><9><10><10.95><12><14.4>%
281     <17.28><20.74><24.88><29.86><35.83>genb*#5}{}}
282 \fi
283 \DeclareFontFamily{TS1}{hfott}{\hyphenchar\font\m@ne}
284 \HF0@ttfamily{TS1}{hfott}{m}{n}{tcvt}
285 \HF0@ttfamily{TS1}{hfott}{m}{sl}{tcst}
286 \HF0@ttfamily{TS1}{hfott}{m}{it}{tcit}
287 \ts1hfott}

288 \*ts1hfovtt}
289 \ifhfixcm
290 \typeout{ts1hfor.fd: Using fewer design sizes (fix-cm)}%
291 \providecommand{\HF0@family}[5]{%
292   \DeclareFontShape{#1}{#2}{#3}{#4}%
293     {<-6><6-7><7-8><8-9><9-10><10-12><12-17><17->genb*#5}{}}
294 \else
295 \typeout{ts1hfor.fd: Using all design sizes}%
296 \providecommand{\HF0@family}[5]{%
297   \DeclareFontShape{#1}{#2}{#3}{#4}%
298     {<5><6><7><8><9><10><10.95><12><14.4>%
299     <17.28><20.74><24.88><29.86><35.83>genb*#5}{}}
300 \fi
301 \DeclareFontFamily{TS1}{hfovtt}{}
302 \HF0@ttfamily{TS1}{hfovtt}{m}{n}{tcvt}
303 \HF0@ttfamily{TS1}{hfovtt}{m}{it}{tcvi}
304 \ts1hfovtt}

```

Change History

1.00	1.01
General: Total new implementation	General: Changed copyright to GPL since I don't know if I am

	permitted to use LPPL	1		<code>\ProvidesFile</code> lines in <code>fd</code> files . .	1
1.10	General: New option <code>fix-cm</code> similar to <code>fix-cm</code> package	1	1.14	General: Fix documentation about package options (Thanks to Rainer Thiel)	2
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