European Computer Modern font with oldstyle digits

Harald Harders
h.harders@tu-bs.de

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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.

By default, the roman and the sans-serif font families are changed to use oldstyle 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.

If you want to use oldstyle figures also with typewriter fonts specify the `newstylett` package option when loading the `hfoldsty` package. As side effect, the typewriter font then uses ligatures instead of single characters for “fi”, “fl”, “ff”, “ffi”, and “ffl”. 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 $\mathscr{O}_1$ in the second example. $\mathscr{O}_1$ 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

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

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}
```

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

Item	`eco`	`hfoldsty`
Typewriter font	oldstyle figures and ligatures	lining figures, no ligatures by default, can be switched.

slanted small caps	not available	Access using the package `slantsc`
character protruding	protrudes the hyphen char into the right margin	by default no protruding, provides files for the `pdfcprot` 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 `eco` or arbitrary
design sizes	many, as European Computer Modern with T1 encoding	adjustable: as `eco` or reduced by `fix-cm.sty`

3 To Do

- Add kerning information for English and German quotation marks.

4 The implementation

Heading of the package:

```
⟨package⟩\NeedsTeXFormat{LaTeX2e}
⟨hformnT1⟩\ProvidesFile{hformnT1.cpa}
⟨hformitT1⟩\ProvidesFile{hformitT1.cpa}
⟨hformslT1⟩\ProvidesFile{hformslT1.cpa}
⟨hforbxnT1⟩\ProvidesFile{hforbxnT1.cpa}
⟨hforbxitT1⟩\ProvidesFile{hforbxitT1.cpa}
⟨hforbxslT1⟩\ProvidesFile{hforbxslT1.cpa}
⟨hfossmnT1⟩\ProvidesFile{hfossmnT1.cpa}
⟨hfossmitT1⟩\ProvidesFile{hfossmitT1.cpa}
⟨hfossmslT1⟩\ProvidesFile{hfossmslT1.cpa}
⟨hfossbxnT1⟩\ProvidesFile{hfossbxnT1.cpa}
⟨hfossbxitT1⟩\ProvidesFile{hfossbxitT1.cpa}
⟨hfossbxslT1⟩\ProvidesFile{hfossbxslT1.cpa}
⟨hformnTS1⟩\ProvidesFile{hformnTS1.cpa}
⟨hformitTS1⟩\ProvidesFile{hformitTS1.cpa}
⟨hformslTS1⟩\ProvidesFile{hformslTS1.cpa}
⟨hforbxnTS1⟩\ProvidesFile{hforbxnTS1.cpa}
⟨hforbxitTS1⟩\ProvidesFile{hforbxitTS1.cpa}
⟨hforbxslTS1⟩\ProvidesFile{hforbxslTS1.cpa}
⟨hfossmnTS1⟩\ProvidesFile{hfossmnTS1.cpa}
⟨hfossmitTS1⟩\ProvidesFile{hfossmitTS1.cpa}
⟨hfossmslTS1⟩\ProvidesFile{hfossmslTS1.cpa}
⟨hfossbxnTS1⟩\ProvidesFile{hfossbxnTS1.cpa}
⟨hfossbxitTS1⟩\ProvidesFile{hfossbxitTS1.cpa}
⟨hfossbxslTS1⟩\ProvidesFile{hfossbxslTS1.cpa}
```

```
⟨omlhfor⟩\ProvidesFile{omlhfor.fd}
⟨omshfor⟩\ProvidesFile{omshfor.fd}
⟨ts1hfor⟩\ProvidesFile{ts1hfor.fd}
⟨ts1hfoss⟩\ProvidesFile{ts1hfoss.fd}
⟨ts1hfott⟩\ProvidesFile{ts1hfott.fd}
⟨ts1hfovtt⟩\ProvidesFile{ts1hfovtt.fd}
⟨package⟩\ProvidesPackage{hfoldsty}
⟨package | cpaT1 | cpaTS1 | fd⟩  [2004/09/12  v1.13  European Computer Modern with oldstyle digits
```

Boolean to decide which typewriter font is used.

```
⟨*package⟩
\newif\ifhfo@oldstylett
```

Boolean to decide if reduced design sizes are to be used.

```
\newif\ifhfofixcm
```

Package options for type of typewriter font.

```
\DeclareOption{oldstylett}{\hfo@oldstyletttrue}
\DeclareOption{newstylett}{\hfo@oldstylettfalse}
\DeclareOption{origtt}{\hfo@oldstylettfalse}
```

Option `fix-cm` reduces the design sizes and alows to use arbitrary fonts sizes.

```
\DeclareOption{fix-cm}{\hfofixcmtrue}
```

Pass all unknown options to the package `fontenc`.

```
\DeclareOption*{\PassOptionsToPackage{\CurrentOption}{fontenc}}
```

By default, use the original typewriter font with lining figures and without ligatures.

```
\ExecuteOptions{origtt}
\ProcessOptions\relax
```

If the package `fix-cm.sty` is loaded, switch on the reduced design size set, too.

```
\@ifpackageloaded{fix-cm}{\hfofixcmtrue}{}
```

This package needs the Cork encoding, T1.

```
\RequirePackage[T1]{fontenc}
```

If `fix-cm` has been used, load `fix-cm.sty` for consistence.

```
\ifhfofixcm
  \typeout{hfoldsty: Using fewer design sizes (fix-cm)}%
  \RequirePackage{fix-cm}
\else
  \typeout{hfoldsty: Using all design sizes}%
\fi
```

More robust if decisions.

```
\RequirePackage{ifthen}
```

`\rmdefault` `\sfdefault` `\ttdefault`

Do the main task of this package, switch the three font families from lining figures to the virtual fonts using oldstyle figures and improved kerning with guillemets.

```
\renewcommand\rmdefault{hfor}
\renewcommand\sfdefault{hfoss}
```

```
\ifhfo@oldstylett
  \renewcommand\ttdefault{hfott}
\fi
```

`\oldstylenums` Redeclare 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.

```
\newcommand\hfo@oldstylenums{}
\let\hfo@oldstylenums=\oldstylenums
\DeclareRobustCommand{\oldstylenums}[1]{%
  \begingroup
```

Redefine the family defaults in order to be available to change the font family inside the argument.

```
  \renewcommand{\rmdefault}{hfor}%
  \renewcommand{\sfdefault}{hfoss}%
  \renewcommand{\ttdefault}{hfott}%
  \newif\ifhfo@knownfamily
  \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.

```
  \ifthenelse{\equal{\f@family}{cmr}\or\equal{\f@family}{hfor}}{%
    \fontfamily{\rmdefault}%
  }{%
    \ifthenelse{\equal{\f@family}{cmss}\or\equal{\f@family}{hfoss}}{%
      \fontfamily{\sfdefault}%
    }{%
      \ifthenelse{\equal{\f@family}{cmtt}\or\equal{\f@family}{hfott}}{%
        \fontfamily{\ttdefault}%
      }{%
```

If the font family is unknown, call the original `\oldstylenums` command that has been copied before.

```
        \hfo@oldstylenums{#1}\hfo@knownfamilyfalse
      }%
    }%
  }%
```

Only select the modified font if the font family has been known.

```
  \ifhfo@knownfamily
    \selectfont
    #1%
  \fi
  \endgroup
}
```

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

```
\DeclareRobustCommand{\newstylenums}[1]{%
  \begingroup
```

Redefine the family defaults in order to be available to change the font family inside the argument.

```
  \renewcommand{\rmdefault}{cmr}%
  \renewcommand{\sfdefault}{cmss}%
  \renewcommand{\ttdefault}{cmtt}%
  \ifthenelse{\equal{\f@family}{hfor}}{%
    \fontfamily{\rmdefault}%
  }{%
    \ifthenelse{\equal{\f@family}{hfoss}}{%
      \fontfamily{\sfdefault}%
    }{%
      \ifthenelse{\equal{\f@family}{hfott}}{%
        \fontfamily{\ttdefault}%
      }{}%
    }%
  }%
  \selectfont
  #1%
  \endgroup
}
```

⟨/package⟩

5 Character protruding file for pdfcprot package

5.1 Cork (T1) encoding

Roman medium upright.

```
⟨hformnT1⟩\expandafter\gdef\csname hformnT1\endcsname{%
```

Roman medium italics.

```
⟨hformitT1⟩\expandafter\gdef\csname hformitT1\endcsname{%
```

Roman medium slanted.

```
⟨hformslT1⟩\expandafter\gdef\csname hformslT1\endcsname{%
```

Roman bold-extended upright.

```
⟨hforbxnT1⟩\expandafter\gdef\csname hforbxnT1\endcsname{%
```

Roman bold-extended italics.

```
⟨hforbxitT1⟩\expandafter\gdef\csname hforbxitT1\endcsname{%
```

Roman bold-extended slanted.

```
⟨hforbxslT1⟩\expandafter\gdef\csname hforbxslT1\endcsname{%
```

Sans-serif medium upright.

```
⟨hfossmnT1⟩\expandafter\gdef\csname hfossmnT1\endcsname{%
```

Sans-serif medium italics.

```
⟨hfossmitT1⟩\expandafter\gdef\csname hfossmitT1\endcsname{%
```

Sans-serif medium slanted.

```
115 ⟨hfossmslT1⟩\expandafter\gdef\csname hfossmslT1\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   \rpcode\font 17=400  % ''
122   \rpcode\font 21=300 % --
123   \rpcode\font 22=200 % ---
124   % german quotation marks
125   \lpcode\font\quotedblbase=500
126   \rpcode\font\textquotedblleft=500
127   % set the protrusion of ",","-" and "." a bit smaller
128   % than originally suggested by Han The Than
129   \rpcode\font`\,=550
130   \rpcode\font`\-=550
131   \rpcode\font`\.=550
132   % originial Setting from Han The Thans protcode.tex
133   \rpcode\font`\!=200
134   \rpcode\font`\;=500
135   \rpcode\font`\:=500
136   \rpcode\font`\?=200
137   \lpcode\font`\`=600
138   \rpcode\font`\'=600
139   \rpcode\font`\)=50
140   \rpcode\font`\A=\rpcode\font`\A
141   \rpcode\font 196=50 % A umlaut
142   \rpcode\font`\F=50
143   \rpcode\font`\K=50
144   \rpcode\font`\L=50
145   \rpcode\font`\T=50
146   \rpcode\font`\V=50
147   \rpcode\font`\W=50
148   \rpcode\font`\X=50
149   \rpcode\font`\Y=50
150   \rpcode\font`\k=50
151   \rpcode\font`\r=50
152   \rpcode\font`\t=50
153   \rpcode\font`\v=50
154   \rpcode\font`\w=50
155   \rpcode\font`\x=50
156   \rpcode\font`\y=50
```

```
  \lpcode\font`\(=50
  \lpcode\font`\A=50
  \lpcode\font 196=\lpcode\font`\A % A umlaut
  \lpcode\font`\J=50
  \lpcode\font`\T=50
  \lpcode\font`\V=50
  \lpcode\font`\W=50
  \lpcode\font`\X=50
  \lpcode\font`\Y=50
  \lpcode\font`\v=50
  \lpcode\font`\w=50
  \lpcode\font`\x=50
  \lpcode\font`\y=50
}%
⟨/cpaT1⟩
```

5.2 Text Companion (TS1 encoding

Roman medium upright.

```
⟨hformnTS1⟩\expandafter\gdef\csname hformnTS1\endcsname{%
```

Roman medium italics.

```
⟨hformitTS1⟩\expandafter\gdef\csname hformitTS1\endcsname{%
```

Roman medium slanted.

```
⟨hformslTS1⟩\expandafter\gdef\csname hformslTS1\endcsname{%
```

Roman bold-extended upright.

```
⟨hforbxnTS1⟩\expandafter\gdef\csname hforbxnTS1\endcsname{%
```

Roman bold-extended italics.

```
⟨hforbxitTS1⟩\expandafter\gdef\csname hforbxitTS1\endcsname{%
```

Roman bold-extended slanted.

```
⟨hforbxslTS1⟩\expandafter\gdef\csname hforbxslTS1\endcsname{%
```

Sans-serif medium upright.

```
⟨hfossmnTS1⟩\expandafter\gdef\csname hfossmnTS1\endcsname{%
```

Sans-serif medium italics.

```
⟨hfossmitTS1⟩\expandafter\gdef\csname hfossmitTS1\endcsname{%
```

Sans-serif medium slanted.

```
⟨hfossmslTS1⟩\expandafter\gdef\csname hfossmslTS1\endcsname{%
```

Sans-serif bold-extended upright.

```
⟨hfossbxnTS1⟩\expandafter\gdef\csname hfossbxnTS1\endcsname{%
```

Sans-serif bold-extended italics.

```
⟨hfossbxitTS1⟩\expandafter\gdef\csname hfossbxitTS1\endcsname{%
```

Sans-serif bold-extended slanted.

```
⟨hfossbxslTS1⟩\expandafter\gdef\csname hfossbxslTS1\endcsname{%
```

Common settings for all TS1 cpa files.

```
⟨*cpaTS1⟩
  \rpcode\font 176=500 % \textdegree
}%
⟨/cpaTS1⟩
```

6 fd Files

```
⟨*omlhfor⟩
\DeclareFontFamily{OML}{hfor}{\skewchar\font127 }
\DeclareFontShape{OML}{hfor}{m}{n}%
   {<->ssub*cmm/m/it}{}
\DeclareFontShape{OML}{hfor}{m}{it}%
   {<->ssub*cmm/m/it}{}
\DeclareFontShape{OML}{hfor}{m}{sl}%
   {<->ssub*cmm/m/it}{}
\DeclareFontShape{OML}{hfor}{m}{sc}%
   {<->ssub*cmm/m/it}{}
\DeclareFontShape{OML}{hfor}{bx}{n}%
   {<->ssub*cmm/b/it}{}
\DeclareFontShape{OML}{hfor}{bx}{it}%
   {<->ssub*cmm/b/it}{}
\DeclareFontShape{OML}{hfor}{bx}{sl}%
   {<->ssub*cmm/b/it}{}
\DeclareFontShape{OML}{hfor}{bx}{sc}%
   {<->ssub*cmm/b/it}{}
⟨/omlhfor⟩
```

```
⟨*omshfor⟩
\DeclareFontFamily{OMS}{hfor}{\skewchar\font48 }
\DeclareFontShape{OMS}{hfor}{m}{n}%
   {<->ssub*cmsy/m/n}{}
\DeclareFontShape{OMS}{hfor}{m}{it}%
   {<->ssub*cmsy/m/n}{}
\DeclareFontShape{OMS}{hfor}{m}{sl}%
   {<->ssub*cmsy/m/n}{}
\DeclareFontShape{OMS}{hfor}{m}{sc}%
   {<->ssub*cmsy/m/n}{}
\DeclareFontShape{OMS}{hfor}{bx}{n}%
   {<->ssub*cmsy/b/n}{}
\DeclareFontShape{OMS}{hfor}{bx}{it}%
   {<->ssub*cmsy/b/n}{}
\DeclareFontShape{OMS}{hfor}{bx}{sl}%
   {<->ssub*cmsy/b/n}{}
\DeclareFontShape{OMS}{hfor}{bx}{sc}%
   {<->ssub*cmsy/b/n}{}
⟨/omshfor⟩
```

```
⟨*ts1hfor⟩
\ifhfofixcm
```

```
  \typeout{ts1hfor.fd: Using fewer design sizes (fix-cm)}%
  \providecommand{\HFO@family}[5]{%
    \DeclareFontShape{#1}{#2}{#3}{#4}%
    {<-6><6-7><7-8><8-9><9-10><10-12><12-17><17->genb*#5}{}}
\else
  \typeout{ts1hfor.fd: Using all design sizes}%
  \providecommand{\HFO@family}[5]{%
    \DeclareFontShape{#1}{#2}{#3}{#4}%
    {<5><6><7><8><9><10><10.95><12><14.4>%
     <17.28><20.74><24.88><29.86><35.83>genb*#5}{}}
\fi
\DeclareFontFamily{TS1}{hfor}{\hyphenchar\font\m@ne}
\HFO@family{TS1}{hfor}{m}{n}{tcrm}
\HFO@family{TS1}{hfor}{m}{sl}{tcsl}
\HFO@family{TS1}{hfor}{m}{it}{tcti}
\HFO@family{TS1}{hfor}{bx}{n}{tcbx}
\HFO@family{TS1}{hfor}{b}{n}{tcrb}
\HFO@family{TS1}{hfor}{bx}{it}{tcbi}
\HFO@family{TS1}{hfor}{bx}{sl}{tcbl}
\HFO@family{TS1}{hfor}{m}{ui}{tcui}
⟨/ts1hfor⟩
⟨*ts1hfoss⟩
\ifhfofixcm
  \typeout{ts1hfor.fd: Using fewer design sizes (fix-cm)}%
  \providecommand{\HFO@family}[5]{%
    \DeclareFontShape{#1}{#2}{#3}{#4}%
    {<-6><6-7><7-8><8-9><9-10><10-12><12-17><17->genb*#5}{}}
\else
  \typeout{ts1hfor.fd: Using all design sizes}%
  \providecommand{\HFO@family}[5]{%
    \DeclareFontShape{#1}{#2}{#3}{#4}%
    {<5><6><7><8><9><10><10.95><12><14.4>%
     <17.28><20.74><24.88><29.86><35.83>genb*#5}{}}
\fi
\DeclareFontFamily{TS1}{hfoss}{\hyphenchar\font\m@ne}
\HFO@family{TS1}{hfoss}{m}{n}{tcss}
\HFO@family{TS1}{hfoss}{m}{sl}{tcsi}
\HFO@family{TS1}{hfoss}{m}{it}{tcsi}
\HFO@family{TS1}{hfoss}{bx}{n}{tcsx}
\HFO@family{TS1}{hfoss}{bx}{it}{tcso}
\HFO@family{TS1}{hfoss}{bx}{sl}{tcso}
⟨/ts1hfoss⟩
⟨*ts1hfott⟩
\ifhfofixcm
  \typeout{ts1hfor.fd: Using fewer design sizes (fix-cm)}%
  \providecommand{\HFO@family}[5]{%
    \DeclareFontShape{#1}{#2}{#3}{#4}%
    {<-6><6-7><7-8><8-9><9-10><10-12><12-17><17->genb*#5}{}}
\else
```

```
  \typeout{ts1hfor.fd: Using all design sizes}%
  \providecommand{\HFO@family}[5]{%
    \DeclareFontShape{#1}{#2}{#3}{#4}%
    {<5><6><7><8><9><10><10.95><12><14.4>%
     <17.28><20.74><24.88><29.86><35.83>genb*#5}{}}
\fi
\DeclareFontFamily{TS1}{hfott}{\hyphenchar\font\m@ne}
\HFO@ttfamily{TS1}{hfott}{m}{n}{tctt}
\HFO@ttfamily{TS1}{hfott}{m}{sl}{tcst}
\HFO@ttfamily{TS1}{hfott}{m}{it}{tcit}
```
⟨/ts1hfott⟩

⟨*ts1hfovtt⟩
```
\ifhfofixcm
  \typeout{ts1hfor.fd: Using fewer design sizes (fix-cm)}%
  \providecommand{\HFO@family}[5]{%
    \DeclareFontShape{#1}{#2}{#3}{#4}%
    {<-6><6-7><7-8><8-9><9-10><10-12><12-17><17->genb*#5}{}}
\else
  \typeout{ts1hfor.fd: Using all design sizes}%
  \providecommand{\HFO@family}[5]{%
    \DeclareFontShape{#1}{#2}{#3}{#4}%
    {<5><6><7><8><9><10><10.95><12><14.4>%
     <17.28><20.74><24.88><29.86><35.83>genb*#5}{}}
\fi
\DeclareFontFamily{TS1}{hfovtt}{}
\HFO@ttfamily{TS1}{hfovtt}{m}{n}{tcvt}
\HFO@ttfamily{TS1}{hfovtt}{m}{it}{tcvi}
```
⟨/ts1hfovtt⟩

Change History

1.00

General: Total new implementation 1

1.01

General: Changed copyright to GPL since I don't know if I am permitted to use LPPL 1

1.10

General: New option `fix-cm` similar to `fix-cm` package 1

1.11

General: Add more fd files and generate them by the dtx file 1

Detect already loaded `fix-cm.sty` 1

1.13

General: Fix errors in `\ProvidesFile` lines in `fd` files . 1

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