```
op-bible.opm
```

1 Intro

Loading packages.

5 _newdimen\.lrmargin \.lrmargin=10mm 6 _margins/2 a4 (23,27,20,20)mm

```
op-bible.opm

15 \_load[vlna] % single-letter prepositions and splitting hyphen managed specially in Czech

16 \_load[mte] % micro typographical extensions

17

18 \_namespace{opb}
```

3 \ codedecl \processbooks {OpBible: macros for creating annotated Bible}

Basic settings.

Fonts.

Auxiliary macros. \.printwarn $\{\langle text \rangle\}$ prints warning. \.sedef $\{\langle name \rangle\}\{\langle body \rangle\}$ is expanded \sdef.

```
op-bible.opm
63 \_let\.printwarn=\_opwarning
64 \_def \.sedef #1{\_ea\_edef \_csname#1\_endcsname}
```

2 The main loop over Bible books

The \processbooks macro does two loops over all \printedbooks. The \printedbooks list can or cannot be finalized by a space. The first loop body sets \pbook! $\langle a\text{-}mark \rangle$ used for hyperlinks. The second loop body does:

- Defines \bmark as $\langle b\text{-}mark \rangle$ (a mark of the book used in file names).
- Defines $\mbox{\sc damark}$ as $\mbox{\sc } (an actual mark of the book used in the text and maybe in the filenames).$
- Defines \.btit as the book title.
- Prints title of the book to the terminal and to the log.
- Calls $\NewBook{\langle a-mark \rangle}$
- Calls $\langle a-mark \rangle$ in order to set something extra.
- Inputs introduction file.
- Inputs format definition file.

- Inputs notes file.
- Calls \bpr! $\langle a\text{-}mark \rangle$ in order to print a preface of the book,
- Inputs txs file with original text of the Bible using \.bibleinput, i.e. prints the text.
- Calls \bpo! $\langle a\text{-}mark \rangle$ in order to print a closing text of the book.

```
op-bible.opm
92 \_def\.processbooks {\_par
      \.checknochapbooks
93
94
      \_ea\.processbooksA \printedbooks\_ignoreit. {}
95
      \_ea\.processbooksB \printedbooks\_ignoreit. {}
96 }
97 \def\.processbooksA #1 {%
      \_if\_relax#1\_relax \_else \_sxdef{pbook!#1}{}\_ea\.processbooksA \_fi
98
99 }
100 \def\.processbooksB #1 {%
      \_if\_relax#1\_relax \_else
101
         \ edef\amark{#1}
102
103
         \ensuremath{\ensuremath{\text{cs\{f!#1\}}}}
         \ensuremath{\ensuremath{\text{cs}\{\text{btit}!\#1\}}}
104
105
         \_begingroup
106
            \.NewBook{#1}
            \_wterm{** \_cs{btit!#1} {#1} **}
107
            \_cs{bex!#1}
108
            \_isfile{\introfile}\_iftrue
109
               \.begblock
110
               \_dest[i:\.currbook/]
111
               \.chaptit{\_mtext{intro}}%
               \ input{\introfile}
113
               \.endblock
114
            \_fi
115
            \.CommentedBook{#1}
116
117
            \_isfile{\fmtfile}\_iftrue \_input{\fmtfile}
            \_else \.printwarn{File with format info \fmtfile\_space not found}\_fi
118
119
            \_isfile{\notesfile}\_iftrue \_input{\notesfile}
            \_else \.printwarn{File with notes \notesfile\_space not found}\_fi
120
121
            \_cs{bpr!#1}
            \.bibleinput{\txsfile}
122
            \_cs{bpo!#1}
124
         \_endgroup
125
         \_ea \.processbooksB
126
127 }
\_ifodd\_pageno
129
130
          \rlap{\_it\bibname\_hss}%
          \  \fil \ \t \pageno\t \fil
131
          132
133
          \_kern-\.lrmargin
134
135
          \_kern-\.lrmargin
          \_hbox to\.lrmargin{\_bf#1 \_firstmark\_hss}%
136
137
          \_hfil \_the\_pageno\_hfil
138
          \label{lap{\hss\_it\bibname}%}
139
      \fi
      }
140
141 }
142 \_nspublic \processbooks ;
```

\.NewBook $\{\langle a\text{-}mark\rangle\}$ ejects previous page, prepeares header and prints the book title.

```
op-bible.opm

148 \_def\.NewBook#1{\_vfil\_supereject}

149 \_edef\.currbook{#1}\_let\.prelinkB=\.currbook\.chapnum=0

150 \_def\.prelinkC{0}\_def\.prelinkV{0}

151 \_global\_headline={\_hfil\_ea\.setheadline\_ea{\.btit}}

152 \_line{\_hss\.bookfont\.btit\_hss}

153 \_par\_nobreak\_medskip

154 }
```

Text block with grey background splittable to more pages ised for introduction text, see OpTeX trick 0031.

op-bible.opm

```
161 \ newcount\.blocklevel % nesting level of blocks
162 \_def\.begblock{\_par\_bgroup
              \_advance\.blocklevel by1 \_advance\_leftskip by\_iindent \_rightskip=\_leftskip
163
164
165
              \_pdfsavepos \_ea\_wref\_ea\.Xblock\_ea{\_ea{\_the\.blocklevel}B{\_the\_pdflastypos}}
166
              \_nobreak \_medskip
167 }
      \_def\.endblock{\_par\_nobreak\_medskip
168
169
              \_pdfsavepos \_ea\_wref\_ea\.Xblock\_ea{\_ea{\_the\.blocklevel}E{\_the\_pdflastypos}}
170
              \_medskip \_egroup
171 }
172 \_refdecl{%
              \_def\.Xblock#1#2#3{\_ifnum#1=1 \_edef\.tmp{frm:\_ea\_ignoresecond\_currpage}^^J
173
                    174
                    \sc {\tmp}{\cs{\tmp}}\
175
176 }
177 \_newdimen\.frtop \_newdimen\.frbottom % positions of top and bottom text on the pages
178 \ensuremath{ \ \ \ } % light grey -- color of blocks.
179 \_pgbackground={%
              \_slet{tmp}{frm:\_the\_pageno}
181
             \_ifx\.tmp\_undefined \_def\.tmp{}\_fi
             \.frtop=\_dimexpr \_pdfpageheight-\_voffset+\_smallskipamount\_relax
             \.frbottom=\_dimexpr\_pdfpageheight-\_voffset-\_vsize-\_medskipamount\_relax
183
              \_ifx\.frnext y \_edef\.tmp{B{\_number\.frtop}\.tmp}\_global\_let\.frnext n\_fi
184
             \_ea\.printframes \.tmp B{0}E{\_number\.frbottom}
185
              \_ifx\.frameslist\_empty \_else
186
187
             \_pdfliteral{q \.frcolor 1 0 0 1 0 \_bp{-\_pdfpageheight} cm \.frameslist Q}\_fi
188 }
189 \ensuremath{\mbox{\mbox{\mbox{$189$}}} \ensuremath{\mbox{\mbox{\mbox{$4$}}} = 0 \ensuremath{\mbox{\mbox{$4$}}} = 0 \ensuremath{\mbox{\mbox{\mbox{$4$}}} = 0 \ensuremath{\mbox{\mbox{$4$}}} = 0 \ensuremath{\mbox{$4$}} = 0 \
              190
              \_ifx^#2^\_else \_global\_let\.frnext=y \_let\.printframes=\_relax \_fi
191
192
              \ ea\.printframes\ fi
193 }
194 \ def\.frameslist{}
195 \_def\.printframe #1#2#3#4{\_edef\.frameslist{\.frameslist
196
                \phi_bp\{\#1\} \phi_bp\{\#2\} \phi_bp\{\#3\} \phi_bp\{\#4\} \prince{1.5}
197 }
```

We want <Fm 4> to be a link to Fm/1:4 because it is a single-chapter book. Compare <Gn 4> which is a link to Gn/4:1. There is a list of single-chapter books \nochapbooks. User must define it. The marks of these single-chapter books are separated by spaces here. The first and the last space are added to the \nochapbooks macro because we need them in \brefBookChapter.

```
op-bible.opm

208 \_def\.checknochapbooks {%

209 \_ifx\nochapbooks\_undefined

210 \.printwarn{\_noexpand\nochapbooks (boks without chapters) undefined.}%

211 \_def\nochapbooks{}%

212 \_else \_edef\nochapbooks{\_space\nochapbooks\_space}\_fi

213 }

214 \aha
```

Note that each book of the Bible is processed in the group. It means that all data from notes, formats etc. are stored in the memory only temporary for processing single book. After the Book is finalized, the TEX memory is freed.

3 Book titles

The macro \BookTile $\langle b\text{-}mark \rangle$ $\langle a\text{-}mark \rangle$ { $\langle title \rangle$ } declares titles of each Bible books. The $\langle b\text{-}mark \rangle$ is a book mark used in file names and $\langle a\text{-}mark \rangle$ is an actual book mark used in printed text.

The mapping is done here: $\def \dot (a-mark) \{ \langle title \rangle \}$, $\def \dot (a-mark) \{ \langle b-mark \rangle \}$.

The macro is defined as **\outer** because we don't want to see obscure errors due to missing a space after $\langle b\text{-}mark \rangle$ or $\langle a\text{-}mark \rangle$.

```
op-bible.opm 236 \_outer\_def\.BookTitle #1 #2 #3{\_sxdef{btit!#2}{#3}\_sxdef{f!#2}{#1}}
```

The \BookException $\langle a\text{-}mark \rangle$ { $\langle code \rangle$ } macro adds the $\langle code \rangle$ to the \bex! $\langle a\text{-}mark \rangle$ macro. It is used in\.processbooks loop in the group before files are read. You can redefine some filenames or something

more special here.

Macros \BookPre and \BookPost are defined similarly.

```
op-bible.opm

246 \_long\_def\.myaddto#1#2{\_ifcsname#1\_endcsname

247 \_gobal\_ea\_addto\_csname#1\_endcsname{#2}\_else \_global\_sdef{#1}{#2}\_fi}

248 \_outer\_long\_def\.BookException #1 #2{\.myaddto{bex!#1}{#2}}

249 \_outer\_long\_def\.BookPre #1 #2{\.myaddto{bpr!#1}{#2}}

250 \_outer\_long\_def\.BookPost #1 #2{\.myaddto{bpo!#1}{#2}}

251 \_nspublic \Booktitle \BookException \BookPre \BookPost;

253 \_tracingall \_nspublic \BookPosti; }
```

4 Actions

We create the output in two steps. First step: the data from $\$ note etc. are read and saved to the T_EX memory. For each such data element the "action" is registered to a list of actions of the given verse. Each Bible verse has its list of actions. The second step: the Bible verses are read from a .txs file and all appropriate actions (registered to this verse) are processed before the verse text is printed. These actions can modify the selected parts of the verse text.

 $\verb|\alist!| \langle full\text{-}vref \rangle \text{ is the list of actions associated with the verse } \langle full\text{-}vref \rangle. \text{ The } \langle full\text{-}vref \rangle \text{ is full reference to the verse in the format } \langle book\text{-}mark \rangle / \langle chapter\text{-}num \rangle : \langle verse\text{-}num \rangle$

 $\mbox{\ensuremath{$\backslash$}} \mbox{\ensuremath{$\langle$}} \mbox{\ensuremath{$action$-body$}{\rangle}} \mbox{\ensuremath{$allocates$}} \mbox{\ensuremath{new}} \mbox{\ensuremath{$action$-body$}{\rangle}} \mbox{\ensuremath{$allocates$}} \mbox{\ensuremath{$action$-body$}{\rangle}}.$

```
op-bible.opm

274 \_def\newaction#1#2{%

275 \_unless\_ifcsname alist!#1\_endcsname \_sdef{alist!#1}{}\_fi

276 \_ea\_addto\_csname alist!#1\_endcsname{#2}%

277 }
```

A typical "action" is \replyre. The actions are processed for each Bible verse when the verse text is saved to the \buff macro. The \buff macro is processed after all actions of given verse are done. \replyre{\langle prefix\} {\langle text\} \replyre{\langle text\} \replyre{\langle text\} \rightarrow \langle prefix\} \rightarrow \langle text\} in \buff macro. If the \langle text\ is empty then \langle prefix\} \rightarrow \rightarrow first in \r

If $\langle text \rangle$ does not exist then $\langle fail \rangle$ is processed. The $\langle fail \rangle$ macro can use \text where $\langle text \rangle$ is saved.

```
op-bible.opm
 290 \_def\replpre#1#2#3{%
                                               291
  292
 293
                                                                    \ensuremath{\ }\ensuremath{\ }\ens
                                                                                        \frac{1}{2} 43\% < 611
  294
                                                                                         \_else \replsave ##1#1{#2}##2\_end \_fi
  295
 296
  297
                                                                    \end{\end{\def \buff{##1}}}
                                                                    \_ea\replpredo\buff#2\_end
 298
 299
 300 }
```

5 The \Note macro

The first parameter of the \Note macro is $\langle gen\text{-}vref \rangle$. It is generalized reference to the Bible verse. It can be $\langle chapter\text{-}num \rangle$: $\langle verse \rangle$ (the $\langle book\text{-}mark \rangle$ is appended from \CommentedBook token list) or $\langle chapter\text{-}num \rangle$: $\langle verse\text{-}from \rangle - \langle verse\text{-}to \rangle$ (only $\langle verse\text{-}from \rangle$ is used for generating $\langle gen\text{-}vref \rangle$. \\gentypersetgentry=f\rangle \text{\constrained} \tex

```
op-bible.opm
314 \_newtoks\.CommentedBook
315 \def\gentovref#1{\the\.CommentedBook/\gentovrefA#1-\end}
316 \def\gentovrefA#1-#2\end{#1}
317
318 \_nspublic \CommentedBook ;
```

\renumref $\langle full\text{-}vref\rangle$ _relax does re-calculating of $\langle full\text{-}vref\rangle$ using \renum data.

```
op-bible.opm
324 \_def\renumvref #1/#2\_relax{#1/\_trycs{rn!\tmark!#1/#2}{#2}}
```

The $\langle word \rangle$ given as a parameter of the \Note macro (see bellow) is used as a word phrase which should be be searched in the given verse text. This parameter $\langle word \rangle$ is transformed first by expansion of \transformword{\langle word \rangle} to the \langle tword \rangle variant and the \langle tword \rangle is actually used for searching. The \transformword{\langle word \rangle} expands to the variant of the \langle word \rangle declared by \vdef. If not declared then it expands to the \langle word \rangle itself, i.e \langle tword \rangle is equal to \langle word \rangle in this case.

```
op-bible.opm

335 \_def\transformword#1{%

336 \_ifcsname v!\tmark!#1\_endcsname \_lastnamedcs

337 \_else #1\_fi

338 }
```

\Note $\langle gen\text{-}vref \rangle$ $\langle space \rangle$ $\{\langle word \rangle\}$ $\langle text \rangle$ \par transforms $\langle word \rangle$ to the $\langle tword \rangle$ (see above), saves $\langle text \rangle$ and activates replace-action of $\langle tword \rangle$ to \doNote $\{\langle note\text{-}num \rangle\}$ $\{\langle tword \rangle\}$ in given verse.

There is an alternative syntax \Note $\langle gen\text{-}vref \rangle$ $\langle space \rangle$ $\{\langle word \rangle\}$ = $\{\langle pword \rangle\}$ $\langle text \rangle$ \par If $\langle pword \rangle$ is given then is is printed in the note instead $\langle tword \rangle$. More precisely: transformed $\langle word \rangle$ is used for searching (and it is kept in the verse unchanged) but $\langle pword \rangle$ is printed in the note.

The \ww can precede \Note. If it is true then the $\langle word \rangle$ is prepared in \nextww and $\langle pword \rangle$ is in \nextwwA. Otherwise, the macros \nextww and \nextwwA are undefined. \Note does exactly following:

- Allocates new $\langle note\text{-}num \rangle$,
- Transforms $\langle gen\text{-}vref \rangle$ to $\langle full\text{-}vref \rangle$ using \gentovref.
- Modifies \(\langle full-vref\) if \renum was declared using \renumvref and saves the result to \fullvrefm.
- Use \nextww and \nextwwA as $\langle tword \rangle$ and $\langle pword \rangle$ if they are defined.
- Otherwise transforms $\langle word \rangle$ to $\langle tword \rangle$ by \transformword.
- Reads $\langle pword \rangle$ (word to be printed in the note) if the alternative syntax with $=\{\langle pword \rangle\}$ is used. Else $\langle pword \rangle$ is equal to $\langle tword \rangle$.
- Defines \notetext! $\langle note-num \rangle$ as $\langle text \rangle$.
- Defines \noteref! $\langle note-num \rangle$ as $\langle full-vref \rangle$.
- Defines \notepre! $\langle note-num \rangle$ as numeric part of modified $\langle full\text{-}vref \rangle$ and calculates $\langle from \rangle \langle to \rangle$ part (if exists in $\langle gen\text{-}vref \rangle$) using \renumlabel macro. This is printed prefix of the \Note.
- Defines \pword! $\langle note-num \rangle$ as $\langle pword \rangle$,
- Does

```
op-bible.opm
376 \_newcount\notenum
               \_outer\_def\Note #1 #2{%
                                     \_edef\fullvref{\gentovref{#1}}%
378
                                 \_ea\isversezero\fullvref\_iftrue
379
                                                \ensuremath{\texttt{\ensuremath{\texttt{Lea}}}\ensuremath{\texttt{NoteB}}}
380
                                  \ else
381
                                                   \ incr\notenum
                                                 \_edef\fullvrefm{\_ea\renumvref\fullvref\_relax}%
383
                                                 \_def\tmp{#1}\.sedef{notepre!\_the\notenum}{\_ea\renumlabel\fullvrefm\_relax}%
384
385
                                                 \ ifx\nextww\ undefined
                                                                 {\ensuremath{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\crine{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\crine{\
386
387
                                                  \_else \_xdef\tword{\nextww}\_fi
                                                 \ afterfi{\ isnextchar={\NoteA}{\NoteA={}}}%
388
389
390 }
                  \ensuremath{\mbox{ }}\ensuremath{\mbox{ }}\ensure
391
392
393 {%
                                  \_sdef{notetext!\_the\notenum}{\_ignorespaces#2}%
394
                                  \.sedef{noteref!\_the\notenum}{\fullvrefm}%
395
396
                                  \ ifx\nextww\ undefined
                                                \ '' fix^*1^\sdef{pword!\the\notenum}_ea}\_ea{\tword}\_else \_sdef{pword!\the\notenum}_{#1}\_fi
397
                                   \ else
398
                                                  \ sdef{pword!\ the\notenum\ ea}\ ea{\nextwwA}%
399
                                                 \_let\nextww=\_undefined \_let\nextwwA=\_undefined
400
401
402
                                  403 }
404 \_def\addNote#1#2#3{%
```

```
\ ifx^#3^% \tword is empty
405
      406
407
       408
409
410 }
411 \_def\NoteB #1% #1 separated by \par or \_par
412
413 {%
    \_sdef{!chapnote:\fullvref}{\_ignorespaces#1}%
414
415 }
416 \_def\isversezero#1/#2:#3\_iftrue{\_ifnum #3=0 }
```

\renumlabel \langle full-vref \\ _relax expands to the numeric part of \langle full-vref \rangle and appends the $--\langle to \rangle$ part if the \tmp macro is in the format \langle chapter \rangle : \langle from \rangle -\langle to \rangle . The \langle to \rangle part is re-calculated in order to the the number of verses between \langle from \rangle and \langle to \rangle be kept. If the \langle to \rangle part is in the format \langle chapter \rangle : \langle verse \rangle then it is unchanged. The \rangle renumlabel macro must be expandable, so we cannot use \isinlist and we prepare special expandable macros \isidivis and \iscolon.

```
op-bible.opm

429 \_def\renumlabel#1/#2\_relax{#2%

430 \_ea\isdivis\tmp-\_iffalse\_else --\_ea\renumlabelA\tmp\_relax#2\_relax \_fi

431 }

432 \_def\renumlabelA#1:#2-#3\_relax#4:#5\_relax{%

433 \iscolon#3:\_iffalse \_the\_numexpr#5+#3-#2\_relax \_else #3\_fi

434 }

435 \_def\isdivis#1-#2\_iffalse{\_ifx^#2^}

436 \_def\iscolon#1:#2\_iffalse{\_ifx^*#2^}
```

The \Note text is processed and printed in the second step, when the .txs file is read. Actions are assigned to each verse and they are run before the appropriate verse is printed. And \Note action says:

```
\replpre{\doNote{<note-num>}}{<tword>}{\notefail{<note-num>}}
```

It means that the $\langle tword \rangle$ is searched in the verse text and replaced by $\doNote{\langle note-num \rangle}{\langle tword \rangle}$. If $\langle tword \rangle$ is not found then $\doNote{\langle note-num \rangle}{\langle note-num \rangle}$ prints warning about it and $\doNote{\langle note-num \rangle}{\langle note-num \rangle}$ is prefixed before the verse text.

```
op-bible.opm

451 \_def\notefail#1{%

452 \.printwarn{\_csstring\\Note: \.currverse: The text "\_unexpanded\_ea{\text}" not found}%

453 \replpre{\doNote{#1}}{}{}% \Note is registered with the beginning of the verse

454 }
```

And the $\donote{\langle note-num\rangle}$ prints the real note text in the second step, when the verse text from \buff is processed.

```
op-bible.opm
461 \_def\prevtmpb{}
462 \_def\doNote#1#2{%
                              \_edef\tmpb{\_cs{notepre!#1}}%
463
                             464
465
                              \noteinsert{%
                                            {\_bf \_ifx\prevtmpb\tmpb \_else \tmpb \_enskip \_glet\prevtmpb=\tmpb \_fi
466
                                                 \trymakedest{n:\_cs{noteref!#1}}%
468
                                                \_ea\_ifx \_csname pword!#1\_endcsname \_empty
469
                                                                                             \end{area} $$ \end{area} \end{area} \end{area} \end{area} \end{area} $$ \end{area} $
470
                                           \ cs{notetext!#1}}%
471
                             {\.notecolor#2}%
472 }
473 \_def\_printfnotemark{}
474 \_def\_textindent#1{\_noindent}
```

The phrase $\{\langle word \rangle\}$ used in notes must be exactly the same as the word used in the .txs text. But we want to capitalize the first letter of the $\langle word \rangle$ when printing. You can say \let\upcasefirts=\relax if you don't want this feature.

```
op-bible.opm
483 \_def\upcasefirst #1{\_uppercase{#1}}
```

Because there is asynchronous processing of the \Note text, we have a problem when an error occurs here. We cannot reference to appropriate line where the \Note is written. So, we print the parameters of processed \Note to the log file. The user can look into this file and the last printed \Note parameters

here refers probably to the \Note where the reason of the error is.

The logging is done by $\notelog{\langle text \rangle}$. It is \wlog by default but you can set it to \ignoreit or \wterm .

```
op-bible.opm
```

6 Inserting data from format files

\fmtpre $\{\langle gen\text{-}vref\rangle\}\{\langle what\rangle\}\$ adds $\langle what\rangle$ to \fmtprebuff, i.e. at the beginning of the verse.

 $\frac{dd} {\langle gen\text{-}vref\rangle} {\langle what\rangle} adds \langle what\rangle to \mathbf{buff}$, i.e. at the end of the verse.

\fmtins $\{\langle gen\text{-}vref\rangle\}\{\langle text\rangle\}\{\langle what\rangle\}\$ inserts $\langle what\rangle$ after $\langle text\rangle$ in the verse. If $\langle text\rangle$ is not found then $\langle what\rangle$ is inserted like \fmtpre does it

All these commands allocate new action using \newaction.

```
op-bible.opm

511 \_let\FormatedBook=\.CommentedBook

512 \_def\fmtpre#1#2{\newaction{\gentovref{#1}}{\_addto\fmtprebuff{#2}}}

513 \_def\fmtadd#1#2{\newaction{\gentovref{#1}}{\_addto\buff{#2}}}

514 \_def\fmtins#1#2#3{\newaction{\gentovref{#1}}{\replpre{\fmtafter{#3}}{\#2}{\fmtfail{#3}}}}

515 \_def\fmtafter#1#2{#2#1}

516 \_def\fmtfail#1{\fmtwarn\_addto\fmtprebuff{#1}}

517 \_def\fmtwarn{\.printwarn{\_string\fmtins: \.currverse: The text "\_unexpanded\_ea{\text}" not found}}
```

\begcenter starts the centering mode. It opens a group and does setting. User must use paired \endcenter in order to close this group. The \centeringmode status is checked by \encenter because curious error (about # character) should be occur without this checking.

```
526 \ newdimen\centermargin \centermargin=4em
527 \ensuremath{\ \ \ } def\begcenter{\_par \_ifnum\_lastpenalty<10000 \_medskip \_fi
       \ bgroup
528
       \_def\centeringmode{y}
529
530
       \_parindent=0pt
531
       \_leftskip=\centermargin plus1fill
532
       \_rightskip=\_leftskip
533 }
534 \_def\endcenter{\_par
       \_ifx\centeringmode\_undefined
535
536
          \.printwarn{\_noexpand\endcenter ignored: no \_noexpand\begcenter precedes}
       \_else \_egroup \_medskip \_fi
537
538 }
```

7 Printing verses from .txs files

When Bible text is processed then book mark is saved to \.currbook and each input line is separated to the $\langle chapter-num \rangle$: $\langle verse-num \rangle$ and $\langle verse-text \rangle$.

The \processverse $\langle full\text{-}vref\rangle\langle space\rangle\langle verse\text{-}text\rangle\setminus$ end is repeatedly processed.

```
op-bible.opm
550 \_eoldef\processline#1{\processverse \.currbook/#1\_end}
```

\processverse $\langle full\text{-}vref\rangle\langle space\rangle\langle verse\text{-}text\rangle$ _end does

- defines \.currverse as \langle full-vref \rangle,
- prepares \.currversenum, \.currversetext, \.currchapnum from \langle full-vref \rangle,
- defines \buff as $\langle verse\text{-}text \rangle$,
- processes all actions from \alist!\langle full-vref \rangle,
- if \.currchapnum changed, prints new chapter by \printchap
- prints verse from \buff using \printverse

```
op-bible.opm

564 \_newcount\.chapnum

565 \_def\processverse #1 #2\_end{%

566 \_edef\.currverse{#1}%

567 \preparechapverse #1

568 \_let\.prelinkV=\.currversenum

569 \_def\buff{#2}\_def\fmtprebuff{}\_def\prebuff{}%

570 \_ifx\verseto\_empty \_csname alist!#1\_endcsname \_else
```

```
\_fornum \versefrom..\verseto \_do{\_csname alist!\.currbook/\.currchapnum:##1\_endcsname}%
571
     \fi
572
     \ ifnum\.currchapnum=\.chapnum \ else
573
         \_let\.prelinkC=\.currchapnum \.chapnum=\.currchapnum\_relax \printchap \_fi
574
575
     \printverse
576 }
\_def\verseto{}%
578
579
     \isdivisin #3-\_iftrue \defversefromto #3\_end
     \_else \_def\.currversenum{#3}\_let\.currversetext=\.currversenum
580
581
582 }
   \ def\versefrom{#1}\ def\verseto{#2}%
584
     \ensuremath{\ \ \ }\ensuremath{\ \ \ \ \ \ \ \ \ \ \ \ \ \ }
585
```

\printverse prints verse from \.currversenum and (possibly changed) \buff. It prints the single raised verse number first.

\printchap prints beginning of the new chapter. \printbeforefirst is a macro which is executed just before first verse of the chapter, after all material from \fmtpre is executed. I.e after printing a chapter name (if declared by \fmtpre).

```
op-bible.opm
596 \_def\printverse{%
      \fmtprebuff % material accumulated by \fmtpre
597
      \_ifnum\.currversenum=1 \printbeforefirst \_fi
598
      \_quitvmode \_mark{\.currchapnum:\.currversetext}%
599
      \_ifx\verseto\_empty \trymakedest{v:\.currverse}%
601
      \_else \_fornum \versefrom..\verseto \_do{%
602
           \_wlog{xxxxx v:\.currbook/\.currchapnum:##1}\trymakedest{v:\.currbook/\.currchapnum:##1}}%
603
      \_raise5pt\_hbox{\_unless\_ifnum\.currversenum=1 \.markfont\.currversetext\_fi}%
604
605
      \prebuff\buff \_space
606 }
   \_def\printchap{\bigskip}
607
608
609 \_def\printbeforefirst{%
      \_par\_nobreak \_medskip
610
611
      \_setbox0=\_vtop{\_kern-1.5ex \_ewref\_sxdef{{ch!\.currbook/\_the\.chapnum}{\_string\mypage}}
612
                        \_hbox{\_setfontsize{at50pt}\_bf\LiRed\_the\.chapnum}}
613
614
      \_dp0=0pt
      \tmpdim=\.lrmargin
615
616
      \_advance\tmpdim by4pt
      \_ifnum\_the\.chapnum>9 \_advance\tmpdim by19pt \_fi
617
      \_ifodd\trycs{ch!\.currbook/\_the\.chapnum}{0}
618
         \_moveright\tmpdim \_line{\_hss\_box0}
619
620
      \_else \_moveleft\tmpdim \_box0 \_fi
      \_nobreak \_vskip-\_medskipamount
621
      \_nobreak \_nointerlineskip \_noindent
622
623 }
624 \ def\printchapnote{%
      \_ifcsname !chapnote:\.currbook/\_the\.chapnum:0\_endcsname
625
          {\ leftskip=\ parindent plus1fill \ rightskip=\ leftskip
626
           \_noindent\_it \_cs{!chapnote:\.currbook/\_the\.chapnum:0}\_par}
627
          \ medskip
628
629
      \fi
630 }
```

8 Bible references

```
We prepare temporary macros first. 
\isspacein \langle text \rangle \_iftrue is true if \langle text \rangle includes a space. 
\iscolonin \langle text \rangle:\_iftrue is true if \langle text \rangle includes a colon. 
\isdivisin \langle text \rangle-\_iftrue is true if \langle text \rangle includes a divis. 

\begin{array}{c} 642 \ \text{def} \simeq 1 & 2 \ \text{iffrue} = 1 & 2 \ \text{iffalse} \\ 643 \ \text{def} \simeq 1 & 2 \ \text{iffrue} = 1 & 2 \ \text{iffalse} \\ 644 \ \text{def} \simeq 1 & 2 \ \text{iffrue} = 1 & 2 \ \text{iffalse} \\ 644 \ \text{def} \simeq 1 & 2 \ \text{iffrue} = 1 & 2 \ \text{iffalse} \\ 644 \ \text{def} \simeq 1 & 2 \ \text{iffrue} = 1 & 2 \ \text{iffalse} \\ 644 \ \text{def} \simeq 1 & 2 \ \text{iffalse} \\ 644 \ \text{def} \simeq 1 & 2 \ \text{iffalse} \\ 644 \ \text{def} \simeq 1 & 2 \ \text{iffalse} \\ 644 \ \text{def} \simeq 1 & 2 \ \text{iffalse} \\ 644 \ \text{def} \simeq 1 & 2 \ \text{iffalse} \\ 644 \ \text{def} \simeq 1 & 2 \ \text{iffalse} \\ 644 \ \text{def} \simeq 1 & 2 \ \text{iffalse} \\ 644 \ \text{def} \simeq 1 & 2 \ \text{iffalse} \\ 645 \ \text{def} \simeq 1 & 2 \ \text{iffalse} \\ 646 \ \text{def} \simeq 1 & 2 \ \text{iffalse} \\ 647 \ \text{def} \simeq 1 & 2 \ \text{iffalse} \\ 648 \ \text{def} \simeq 1 & 2 \ \text{iffalse} \\ 649 \ \text{def} \simeq 1 & 2 \ \text{iffalse} \\ 640 \ \text{def} \simeq 1 & 2 \ \text{iffalse} \\ 640 \ \text{def} \simeq 1 & 2 \ \text{iffalse} \\ 641 \ \text{def} \simeq 1 & 2 \ \text{iffalse} \\ 642 \ \text{def} \simeq 1 & 2 \ \text{iffalse} \\ 643 \ \text{def} \simeq 1 & 2 \ \text{iffalse} \\ 644 \ \text{def} \simeq 1 & 2 \ \text{def} \simeq 1 & 2 \ \text{def} \simeq 1 \\ 642 \ \text{def} \simeq 1 & 2 \ \text{def} \simeq 1 \\ 642 \ \text{def} \simeq 1 & 2 \ \text{def} \simeq 1 \\ 642 \ \text{def} \simeq 1 & 2 \ \text{def} \simeq 1 \\ 642 \ \text{def} \simeq 1 & 2 \ \text{def} \simeq 1 \\ 642 \ \text{def} \simeq 1 & 2 \ \text{def} \simeq 1 \\ 642 \ \text{def} \simeq 1 & 2 \ \text{def} \simeq 1 \\ 642 \ \text{def} \simeq 1 & 2 \ \text{def} \simeq 1 \\ 642 \ \text{def} \simeq 1 \\ 64
```

The \lt will be set to active as character equivalent to the macro \bref $\langle text \rangle \gt$. This macro does all job with the hyperlinks. Fist of all, it scans the parts of the $\langle text \rangle$ and saves them to

```
\ltextP ... the text before a link specification (given in "...")
\ltextB ... the book mark followed by ~
\ltextC ... the chapter number followed by :
\ltextV ... the verse number
\ltextS ... sub-verse identifier (a if there is a verse 4a)
\ltextF ... the -- if the ⟨from⟩-⟨to⟩ format is given
\ltextN ... the ⟨to⟩ part from the ⟨from⟩-⟨to⟩ format.
```

All these macros above can be empty if the appropriate part of the scanned $\langle text \rangle$ is missing. The \linkpre macro includes v if it is verse link, includes n if it is note link and g if it is gloss link. These macros will be converted due to \renum data (if needed) and printed by \linktext.

```
op-bible.opm
667 \_def\linktext{\ltextP\ltextB\ltextC\ltextV\ltextS\ltextF\ltextN}
\label{linkspec} $$ \def\pref{1}_{isnextchar}{\pref{1}}_isnextchar}{\pref{1}}_isnextchar} $$
669 \_def\brefA"#1"{\_def\ltextP{#1}%
             670
                    {\c {\c } \c {\c } 
671
672 }
673 \_def\brefB #1>{% #1 is link-spec
              675
             \isspacein #1 \_iftrue
676
                           \iscolonin #1:\_iftrue \brefBookChapterVerse #1>%
                           \ else \brefBookChapter #1>\ fi
677
678
             \_else \iscolonin #1:\_iftrue \brefChapterVerse #1>%
             \_else \brefVerse #1>%
679
             \ fi\ fi
680
681
              \_def\linkpre{v}%
              \_isnextchar n{\_def\linkpre{n}\brefC}%
682
                    {\_isnextchar g{\_def\linkpre{g}\brefC}%
683
                          {\c }_{\c }
684
                                   {\c is next char i {\c def\linkpre{i}\brefC}{\c def}}} %
685
686 }
687 \_def\brefC{\_afterassignment\brefD \_let\next= }
688
689 \_def\brefBookChapterVerse #1 #2:#3>{\_def\ltextB{#1~}\brefChapterVerse #2:#3>}
690 \_def\brefBookChapter #1 #2>{\_def\ltextB{#1~}%
                \_isinlist\nochapbooks{ #1 }\_iftrue
691
                         \_def\ltextC{}\_let\ltextCin=\ltextnCin \_afterfi{\brefVerse #2>}%
692
                \_else \_afterfi{\brefChapter #2>}\_fi}
693
694 \_def\brefChapterVerse #1:#2>{\_def\ltextC{#1:}\brefVerse #2>}
695 \_def\brefVerse #1>{%
              \isdivisin #1-\_iftrue \brefFromTo #1>%
696
697
              \_else \versedef#1\_relax\_fi
698 }
699 \_def\brefChapter #1>{%
             \isdivisin #1-\_iftrue \brefFromTo #1>\_let\ltextC=\ltextV
700
              \_else \_def\ltextC{#1}\_fi
701
              702
704 \_def\brefFromTo #1-#2>{\versedef#1\_relax\_def\ltextF{--}\_def\ltextN{#2}}
```

Because the verse number can be in the format 11b, we need to separate the numeric part of this and save it to \ltextV and the rest is saved to \ltextS. This is done by the \versedef \langle verse \\relax macro.

```
op-bible.opm
712 \_def\versedef {\_afterassignment\versedefB \tmpnum=0}
713 \_def\versedefB #1\_relax{\_edef\ltextV{\_the\tmpnum}\_def\ltextS{#1}}
```

Now, we create $\label{linkfspec}$ from scanned data. It is $\langle full\text{-}vref\rangle$ used for hyperlinks. We must manage all situations of incomplete links.

```
op-bible.opm

720 \_def\brefD{%

721 \_ifnum 0\ltextV=0 \_def\ltextV{}\_fi

722 \_if a\linkpre \_ifx\ltextV\_empty \_else \_edef\ltextC{\ltextV:}\_def\ltextV{}\_fi\_fi

723 \_edef\linkfspec{\_ea\ltextBin\ltextB-\\_ea\ltextCin\ltextC:\\_ea\ltextVin\ltextV:/}%

724 \brefL
```

```
725 }
726 \_def\ltextBin #1~#2/{\_ifx^#1^\.prelinkB \_else #1\_immediateassignment\_def\.prelinkB{#1}\_fi/}
727 \_def\ltextCin #1:#2/{\_ifx^#1^\.prelinkC \_else #1\_immediateassignment\_def\.prelinkC{#1}\_fi:}
728 \_def\ltextVin #1:#2/{\_ifx^#1^\.prelinkV \_else #1\_immediateassignment\_def\.prelinkV{#1}\_fi}
729 \_def\ltextnCin #1:#2/{\.prelinkC:\_immediateassignment\_let\ltextCin=\ltextSCin}
730 \_let\ltextSCin=\ltextCin
```

 $\.$ prelinkB is $\langle book\text{-}mark \rangle$ of last referenced book. $\.$ prelinkC is $\langle chapter\text{-}num \rangle$ of last referenced chapter. They are used if the reference is not full. They are initialized at the beginning of books and chapters and they are changed locally in the $\.$ Note text. If the < is used then they are re-initialized.

```
740 \_def\<{\_let\.prelinkB=\.currbook \_let\.prelinkC=\.currchapnum \_let\.prelinkV=\.currversenum \bref}
```

\oncebref includes an additional macros which have to be processed in the single link, for example \reduceref. The \everybref token list includes macros which have to be applied for all links.

```
op-bible.opm
748 \_newtoks\everybref
749 \_def\oncebref{}
```

Macro \brefL recalculates \linkfspec and \linktext due to \renum data and creates the link \linkpre:\linkfspec with the text \linktext.

 $\mbox{\colored}\\mbox{\colored}\\mbox{\colored}\\mbox{\colored}\\mbox{\colored}\\mbox{\colored}\\mbox{\colored}\\mbox{\colored}\\mbox{\colored}\\mbox{\colored}\\mbox{\colored}\\mbox{\colored}\\mbox{\colored}\\mbox{\colored}\mbox{\colored}\\mbox{\colored}\\mbox{\colored}\\mbox{\colored}\\mbox{\colored}\\mbox{\colored}\\mbox{\colored}\\mbox{\colored}\\mbox{\colored}\\mbox{\colored}\\mbox{\colored}\\mbox{\colored}\\mbox{\colored}\\mbox{\colored}\\mbox{\colored}\\mbox{\colored}\\mbox{\colored}\mbox{\colored}\\mbox{\colored}\\mbox{\colored}\mbox{\$

The \linkfspecone solves situation when chapter is given but no verse number: we must set the verse number to 1.

If the link destination is article, then the $\langle full\text{-}vref\rangle$ has reduced format $\langle book\rangle/\langle chapter\rangle$. If the link destination is itroduction then the $\langle full\text{-}vref\rangle$ has more reduced format: $\langle book\rangle/$.

\linklog $\{\langle text \rangle\}$ macro prints logging info of the link in the format

```
<\langle link\text{-}spec \rangle> = [\langle full\text{-}vref \rangle] \{\langle printed\text{-}link \rangle\}
```

\linklog is \wlog by default and when \tracinglinks is set. It is \ignreit when \notracinglinks is set. You can set it to \wterm if you want.

```
op-bible.opm
770 \_def\brefL{%
                       \_edef\linkfspecm{\_ea\renumvref\linkfspec\_relax}%
771
772
                       \_ifx\linkfspec\linkfspecm \_else
773
                                  \_ea\_ea\_ea\_renumlinktext \_ea\linkfspec \_ea\_relax \linkfspecm \_relax
                                  \_let\linkfspec=\linkfspecm
774
775
                       \ fi
                       \ ifx\ltextV\ empty \ ifx\ltextC\ empty \ else \ ea\linkfspecone \linkfspec\ end \ fi\ fi
776
                       \_if a\linkpre\_relax \_ea\linkfspecarticle \linkfspec\_end \_fi
777
                       \_if i\linkpre\_relax \_ea\linkfspecintro \linkfspec\_end \_fi
778
                       \linklog{\sspace <\unexpanded\_ea{\linkspec}>\linkpost = [\linkpre:\linkfspec]%
779
                                                    {\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{
780
781
                       \ensuredest \createlink
782 }
783 \_def\linkfspecone #1:#2\_end {\_def\linkfspec{#1:1}\_def\.prelinkV{1}}
784 \_def\linkfspecarticle #1/#2:#3\_end {\_def\linkfspec{#1/#2}}
785 \_def\linkfspecintro #1/#2\_end {\_def\linkfspec{#1/}}
786
787 \ def\renumlinktext #1/#2:#3\ relax #4/#5:#6\ relax{%
                       \_ifx\ltextC\_empty \_else \_def\ltextC{#5:}\_fi
788
                       \ def\ltextV{#6}%
789
                       \_ifx\ltextN\_empty \_else
790
                                  \_ifx\ltextF\ltextDD
791
792
                                                \_isinlist\ltextN{:}\_iftrue
                                                           \_ifcsname rn!\tmark!#1/\ltextN\_endcsname \_edef\ltextN{\_cs{rn!\tmark!#1/\ltextN}}\_fi
793
                                                \_else \_edef\ltextN{\_the\_numexpr#6+\ltextN-#3\_relax}\_fi
794
795
                                  \_else \_let\tmp=\_ignoreit % \ltextN is a list of verses, for example 7,9,13
                                                 \end{array} \end{array} $$ \end{array}. $$ \
796
                                                \_let\ltextN=\tmp
797
                                  \ fi
798
799
800 }
            \ def\ltextDD{--}
801
802
803 \_def\sspace{\_space\_space\_space}
804 \_def\linkpost{\_if v\linkpre \_else \linkpre\_fi \_space}
```

\tracinglinks and \notracinglinks are defined here.

```
op-bible.opm
810 \_def\tracinglinks{\_let\linklog=\wlog}
811 \_def\notracinglinks{\_let\linklog=\ignoreit}
812 \tracinglinks
```

\createlink creates link only if it refers to the place of printed book because we don't want to see many warnings about unreferenced links when we try to print only selected books. It creates link \linkpre:\linkfspec with the text \linktext

The link is created only if the book is to be printed, i.e. the $\pbook!\langle book \rangle$ is defined. The link is created always if a user declared \tracingallrefs .

```
op-bible.opm

824 \_def\createlink{{%

825 \_ifx\brefH\_empty \_let\linktext=\ltextP\_fi

826 \_ea\isprintedbook\linkfspec \_iftrue

827 \_link[\linkpre:\linkfspec]{\Blue}{\linktext}\%

828 \_else {\Blue\linktext}\_fi}\%

829 }

830 \_def\isprintedbook #1/#2\_iftrue{\_ifcsname pbook!#1\_endcsname}

831 \_def\tracingouterlinks{\_def\isprintedbook ##1\_iftrue{\_iftrue}}
```

We don't create destinations for all verses, notes etc. but only for those which are referenced. The macro \ensuredest is called from \createlink and it saves immediatelly \sdef{\lambda ink}: \lambda full-vref\rangle}{\lambda ink} \text{ to the special file \jobname.xrf. And the macro \pg saves immediatelly \sdef{\pg:\lambda ink}: \lambda full-vref\rangle}{\lambda ink} \frac{\lambda ink}{\lambda ink} \text{ ink} \cdots \lambda f\rangle \lambda ink \lambda i

```
op-bible.opm
851 \_newwrite\xrf
852 \_immediate\_openout\xrf=\_jobname.xrf
853 \_openref
854
855 \_def\ensuredest{\_immediate\_write\xrf{\_string\_sdef{\linkpre:\linkfspec}{}}}
856 \_refdecl{
      \_isfile{\_jobname.xrf}\_iftrue \_input{\_jobname.xrf}\_fi^^J
857
      \_def\Xdest#1{\_ifcsname pg:#1\_endcsname \_sxdef{pg:#1}{\_ea\_usesecond\_currpage}\_fi}^^J
859
      \_def\mypage{\_ea\_usesecond\_currpage}
860 }
861 \_def\trymakedest#1{%
862
      \_ifcsname #1\_endcsname \_dest[#1]\_ea\_glet\_csname #1\_endcsname \_undefined \_fi
863
      \ensuremath{\ }\
864 }
```

The \pg macro should be used after <...>, i.e. the \linkpre and \linkfspec are defined. We use them. And the page number is saved to the \pg: $\langle link \rangle$: $\langle full-vref \rangle$ macro in the second T_FX run.

```
op-bible.opm

872 \_def\pg{%

873 \_ifcsname pg:\linkfspec\_endcsname

874 {\_edef\linktext{\_cs{pg:\linkfspec}}\_let\brefH=\_relax \createlink}%

875 \_else {\Red ??}\_fi

876 \_immediate\_write\xrf{\_string\_sdef{pg:\linkfspec}{??}}%

877 }
```

9 Language variants

```
op-bible.opm
888 \_newcount\numvariants
889 \_def\variants{\tmpnum=0 \_afterassignment\variantsA \numvariants}
890 \_def\variantsA{%
891 \_ifnum\tmpnum<\numvariants
```

```
\ advance\tmpnum bv1
892
                                                                                                                                                                                                             \arrange Lambda = Lambda Lam
   893
894
   895
   896
                                                                             \_def\variantsB#1#2{%
                                                                                                                                                   \_ifnum#1=1 \_gdef\tmarkA{#2}\_sxdef{var!1}{#2}%
   897
   898
                                                                                                                                               \ensuremath{\ }\ensuremath{\ }\ens
                                                                                                                                               \_fi
   899
   900
                                                                                                                                           \variantsA
901 }
```

 $\def\v!\langle tmark-B\rangle!\langle phrase-A\rangle\{\langle phrase-B\rangle\}\$ \def\v! $\langle tmark-C\rangle!\langle phrase-A\rangle\{\langle phrase-C\rangle\}\$ etc. Empty parameter is interpreted as undefined data. The internal macro \vdefB implements the error message if there is too few parameters of \vdef and we were read next \vdef. The \.sedef used in the \vdefB{\(number\)}{\(param\)}\) does real work and it defines (rougly sepaking):

```
If \langle param \rangle is " \def \v!\langle tmark \rangle!\langle phrase-A \rangle {\langle previous\ param \rangle} else \def \v!\langle tmark \rangle!\langle phrase-A \rangle {\langle param \rangle}
```

op-bible.opm

```
918 \_def\vdef#1{\_def\tmp{#1}%
                         \_ifcsname v!\_trycs{var!2}{}!\tmp\_endcsname
                                       \.printwarn{\_noexpand\vdef used secondly for phrase {\tmp}, ignored}\_fi
920
921
                         \tmpnum=1 \_ea\vdefA
922 }
           \_def\vdefA{%
923
924
                         \_ifnum\tmpnum<\numvariants
                                    \_advance\tmpnum by1
925
                                   \ensuremath{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\crine{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\cline{\c
 926
927
 928 }
            929
                         \  \in \frac{\pi^2}{\det \pi^2}\right.
930
931
                        \ ifx\tmpa\ empty
                                    \  \in \frac{\pi^{2^{-1}}}{\pi^{2^{-1}}}
 932
                                              \_unless \_ifcsname v!\_cs{var!#1}!\tmp\_endcsname
 933
                                                         934
                                   \fi
 935
                                    \ ea\vdefA
936
                          \_else \_errmessage{\_string\vdef: too few parameters. To be read again: \_string#2}%
 937
938
                                   \_ea\tmpa
939
940 }
941 \_def\prevcs #1#2{\_ifnum#1=2 #2\_else \_cs{v!\_cs{var!\_the\_numexpr#1-1\_relax}!#2}\_fi}
```

 $\x/\langle phrase \rangle$ expands to $\v!\langle tmark \rangle!\langle phrase \rangle$ if such control sequence is defined else it expands simply to $\langle phrase \rangle$ using \xA . The $\langle tmark \rangle$ is actual value of the \tmark macro.

Note that if $\t x$ expands to $\langle t\text{-}markA \rangle$ (used in the $\t x$ macro), then the $\t x$! $\langle phrase \rangle$ is not defined and the $\t x$ macro expands to the $\langle phrase \rangle$ directly.

 $\xspace \langle phrase \rangle$ expands to $\xspace \langle phrase \rangle$ and prints warning, if $\xspace \xspace \xspace$

op-bible.opm

```
954 \_def\x/#1/{\_trycs{v!\tmark!#1}{\xA#1/}}
955 \_def\xA#1/{#1\_ifx\tmarkA\_undefined \_else \_ifx\tmark\tmarkA \_else
956 \_printwarn{\_string\x/#1/ -- this phrase is undefined by \_csstring\vdef}%
957 \_fi\_fi
958 }
```

\ww { $\langle phrase-A \rangle$ } { $\langle phrase-B \rangle$ } ... has the same number of parameters as \vdef. They are separated by spaces. Each parameter can be in the "single form", i.e. { $\langle phrase-A \rangle$ } or in the "extended form", i.e. { $\langle phrase-A \rangle$ } ={ $\langle printed-A \rangle$ }. The macro searchs the correct phrase (given by the \varnum) and saves it to the \nextww. The \nextwwA is set to \nextww if there is single form of the parameter else \nextwwA is $\langle printed-A \rangle$ part of the parameter in the extended form. These macros are used in the next \Note where they are re-set to \undefined meaning.

```
op-bible.opm
```

```
971 \_outer\_def\ww{%

972 \_ifx\varnum\_undefined \setvarnum \_fi

973 \tmpnum=0
```

```
\ ifx\nextww\ undefined \ ea\wwA
974
      \_else \.printwarn{Only single \_csstring\\ww must be before \_csstring\\Note}%
975
          \_ea\wwB \_fi
976
977 }
  \_def\wwA#1#2 {\_advance\tmpnum by1
978
979
      \_ifx\nextwwA\_empty \_let\nextwwA=\nextww \_else \_ea \redefwwA #2\_end \_fi
980
      \_ifnum\varnum=\tmpnum \_ifnum\tmpnum<\numvariants \_ea\_ea\_ea \wwB \_fi
981
982
      983 }
984 \_def\wwB#1 {\_advance\tmpnum by1
      \_ifnum\tmpnum<\numvariants \_ea\wwB \_fi
985
986 }
987 \_def\redefwwA =#1\_end{\_def\nextwwA{#1}}
```

The \switch macro reads a pair of parameters using \switchA and processes the list of variants in \foreach loop. If an element from the list is equal with \tmark then the #2 (saved in \switchD token list) is run and next parameter pairs are read by \switchN, i.e. they are ignored.

The \Note and \ww are defined as \outer in order to better diagnose mistakes with number of parameters of \ww or missig empty line after \Note text. But we want to skip such objects in \switch parameters. This is the reason why we run \unsetouter before the \switch parameter is read and we run \setouter in order to return to the normal setting.

```
1002 \ newtoks\switchD
1003 \_def\switch {\_let\switchN=\switchA \unsetouter \switchN}
\label{longle} $$1004 \leq \c 4.009\c 4
                             \_else \_foreach #1,\_do ##1,{\_def\tmp{##1}\switchC}%
1006
1007
                            \fi
1008
                            \_futurelet\next\switchB
1009 }
1010 \_def\switchB{\_ifx\next\_bgroup \unsetouter \_ea\switchN \_else \setouter \_fi}
1011 \_long\_def\switchI #1#2{\_futurelet\next\switchB}
1012 \_def\switchC{\_ifx\tmp\tmark \_the\switchD \_fi}
1013 \ def\unsetouter{\ slet{ww}{relax}\ slet{Note}{relax}}
\label{local_set_ww} $$1014 \end{set_ww}_{iww}_slet{Note}_{iNote}$$
1015 \_let\iww=\ww
                                                                                     % backup of outer ww
1016 \_let\iNote=\Note % backup of outer Note
```

\setvarnum sets the \varnum as the position number of the current language variant due to the value of \tmark. The \variants declaration must precede.

```
op-bible.opm
    \_def\setvarnum{\_gdef\varnum{0}%
       \_ifnum\numvariants=0 \_gdef\varnum{1}\_wlog{There is only single language variant (1)}%
1025
1026
       \_else
1027
          \tmpnum=0
          \_loop
1028
             \_advance\tmpnum by1
1029
             \_ea\_ifx \_csname var!\_the\tmpnum\_endcsname \tmark \_xdef\varnum{\_the\tmpnum}\_fi
1030
1031
             \_ifnum\tmpnum<\numvariants \_repeat
          \_ifnum \varnum=0 \_errmessage{\_noexpand\tmark isn't set, \_noexpand\setvarnum failded}%
1032
          \_else \_wlog{Language variant set by \_string\tmark{\tmark} (\varnum)}\_fi
1033
1034
       \_fi
1035 }
```

```
\renum \langle book-mark \rangle \langle chapter-num \rangle: \langle verse-num \rangle = \langle t-mark \rangle \langle chap-num \rangle: \langle from \rangle -\langle to \rangle \text{does} \\
\def \rn! \langle t-mark \rangle! \langle from \rangle \rangle chap-num \rangle: \langle from +1 \rangle \rangle \rangle from +2 \rangle \rangle \rangle from +2 \rangle \rangle \rangle from \rangle fr
```

10 Inserting notes to the page

We declare new insert \noteins used in the \output routine.

The \noteinsert $\{\langle text \rangle\}$ inserts its parameter to the \noteins. We open the \insert and set basic parameters using \noteset. Then the empty box with strut height is inserted in vertical mode (in order to consecutive notes have good baselineskip between them). Then the $\langle text \rangle$ is printed and the paragraph is finalized. The empty box with strut depth is appended after the paragraph (in order to the same reason). Final \penalty0 allows breaking between notes.

```
op-bible.opm
    \_def\noteinsert #1{\_insert\noteins{%
1077
1078
       \noteset
       \_vbox to\_ht\_strutbox{}\_nobreak \_vskip-\_baselineskip
1079
       #1\_unskip\_par \_nobreak \_vskip-\_baselineskip
1080
1081
       \_hbox{\_lower\_dp\_strutbox\_vbox{}}
1082
1083 }}
1084 \ def\noteset{\Heros\cond \ scalemain \ typoscale[800/800] % Heros condensed 80%
1085
       \Black \_nobreak
       \_widowpenalty=20 \_clubpenalty=20
1086
       \_leftskip=0pt \_rightskip=0pt \_parfillskip=0pt plus1fill
1087
       \_parindent=0pt
1088
       \_lineskiplimit=-3pt
       \_hsize=.5\_hsize \_advance\_hsize by-1em\_relax % two columns
1090
1091
       \_everypar{}
1092 }
```

We add macros for inserting two columns of notes from \noteins into the page. First, we add \noterule with the space given by \skip\noteins. The \noteins material is prefixed by \penalty0 (in order to allow the next \vsplit operation) and the \vfil is added (in order to the case when the second column is smaller than the first one). The \splittopskip is set and first \vsplit toOpt adds skip given by \splittopskip to the \noteins. The _balancecolumns from OpTeX for splitting to two columns is used. We need to set _Ncols, _dimenO and _box6 before running _balancecolumns. We need to insert \vskip\splittopskip because _balancecolumns supposes that the typesetting point resides at the first baseline of the columns.

The final \vskip does "raggedbottom". We need to add 1fill1 in order to suppress the \vfill from the \end algorithm. We add minus6pt because the height of two columns can be by half-line higher than the insertion algorithm excepts (in the case with odd lines before splitting to the two columns).

```
op-bible.opm
1113 \_addto\_pagecontents{%
1114
       \_ifvoid\noteins \_else
           \ vskip\ skip\noteins \noterule
1115
1116
           \_setbox\noteins=\_vbox{\_penalty0 \_unvbox\noteins \_vfil}
           \_splittopskip=12pt
1117
           \_setbox0=\_vsplit\noteins toOpt % adding \splittopskip to \noteins
1118
1119
           \ def\ Ncols{2}
1120
           \_dimen0=.5\_ht\noteins \_setbox6=\_box\noteins
1121
           \ vskip\ splittopskip
           \_balancecolumns
1122
       \ fi
1123
1124
       \_unless\_ifvoid\botins \_unvbox\botins
1125
       \_else \_vskip Opt plus1filll minus8pt \_fi
1126 }
1127 \_def \noterule {\_kern-3pt {\Black \_hrule width\_hsize}\_kern 2.6pt }
```

11 Inserting images and articles to the page

\botins is analogue insert as _topins but the material is inserted to the bottom of the page. The material is created by \botinsert...\endbot pair of control sequences. We use it for inserting images and articles to the page.

op-bible.opm

```
1139 \_newinsert\botins

1140 \_def\botinsert{\_setbox0=\_vbox\_bgroup}

1141 \_def\endbot{\_par\_egroup}

1142 \_insert\botins{\_splittopskip=0pt \_penalty100}

1143 \_hrule height0pt \_nobreak\_medskip\_bigskip \_unvbox0

1144 \}%

1145 \}

1146 \_skip\botins=\_zoskip % no space added when a topinsert is present

1147 \_count\botins=1000 % magnification factor (1 to 1)

1148 \_dimen\botins=\_maxdimen % no limit per page
```

\putImage $\langle chatper \rangle$: $\langle verse \rangle$ { $\langle title \rangle$ } [$\langle label \rangle$] ($\langle params \rangle$) { $\langle image\text{-}file \rangle$ } inserts the given image to the page where the begining of the verse given by $\langle chapter \rangle$: $\langle verse \rangle$ exists. We register a new action by \newaction{ $\langle full\text{-}vref \rangle$ }{\doImage{ $\langle title \rangle}$ }[$\langle label \rangle$] ($\langle params \rangle$) { $\langle image\text{-}file \rangle$ }}. The \doImage puts the image by \botinsert...\endisert pair. The \botTitle{ $\langle title \rangle$ }[$\langle label \rangle$] prints the title of the image (or article or watever is put to the bottom of the page) and inserts the destination of hyperlink based on the $\langle label \rangle$, if the $\langle label \rangle$ isn't empty.

```
op-bible.opm
\_edef\fullvref{\gentovref{#1}}%
1162
                                                  \_edef\fullvrefm{\_ea\renumvref\fullvref\_relax}%
 1163
                                                  \ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ens
 1164
 1165
 1166 \ensuremath{\mbox{\mbox{\mbox{$1$}}}\ensuremath{\mbox{\mbox{$4$}}}\ensuremath{\mbox{\mbox{$4$}}}\ensuremath{\mbox{$4$}}\ensuremath{\mbox{$4$}}\ensuremath{\mbox{$4$}}\ensuremath{\mbox{$4$}}\ensuremath{\mbox{$4$}}\ensuremath{\mbox{$4$}}\ensuremath{\mbox{$4$}}\ensuremath{\mbox{$4$}}\ensuremath{\mbox{$4$}}\ensuremath{\mbox{$4$}}\ensuremath{\mbox{$4$}}\ensuremath{\mbox{$4$}}\ensuremath{\mbox{$4$}}\ensuremath{\mbox{$4$}}\ensuremath{\mbox{$4$}}\ensuremath{\mbox{$4$}}\ensuremath{\mbox{$4$}}\ensuremath{\mbox{$4$}}\ensuremath{\mbox{$4$}}\ensuremath{\mbox{$4$}}\ensuremath{\mbox{$4$}}\ensuremath{\mbox{$4$}}\ensuremath{\mbox{$4$}}\ensuremath{\mbox{$4$}}\ensuremath{\mbox{$4$}}\ensuremath{\mbox{$4$}}\ensuremath{\mbox{$4$}}\ensuremath{\mbox{$4$}}\ensuremath{\mbox{$4$}}\ensuremath{\mbox{$4$}}\ensuremath{\mbox{$4$}}\ensuremath{\mbox{$4$}}\ensuremath{\mbox{$4$}}\ensuremath{\mbox{$4$}}\ensuremath{\mbox{$4$}}\ensuremath{\mbox{$4$}}\ensuremath{\mbox{$4$}}\ensuremath{\mbox{$4$}}\ensuremath{\mbox{$4$}}\ensuremath{\mbox{$4$}}\ensuremath{\mbox{$4$}}\ensuremath{\mbox{$4$}}\ensuremath{\mbox{$4$}}\ensuremath{\mbox{$4$}}\ensuremath{\mbox{$4$}}\ensuremath{\mbox{$4$}}\ensuremath{\mbox{$4$}}\ensuremath{\mbox{$4$}}\ensuremath{\mbox{$4$}}\ensuremath{\mbox{$4$}}\ensuremath{\mbox{$4$}}\ensuremath{\mbox{$4$}}\ensuremath{\mbox{$4$}}\ensuremath{\mbox{$4$}}\ensuremath{\mbox{$4$}}\ensuremath{\mbox{$4$}}\ensuremath{\mbox{$4$}}\ensuremath{\mbox{$4$}}\ensuremath{\mbox{$4$}}\ensuremath{\mbox{$4$}}\ensuremath{\mbox{$4$}}\ensuremath{\mbox{$4$}}\ensuremath{\mbox{$4$}}\ensuremath{\mbox{$4$}}\ensuremath{\mbox{$4$}}\ensuremath{\mbox{$4$}}\ensuremath{\mbox{$4$}}\ensuremath{\mbox{$4$}}\ensuremath{\mbox{$4$}}\ensuremath{\mbox{$4$}}\ensuremath{\mbox{$4$}}\ensuremath{\mbox{$4$}}\ensuremath{\mbox{$4$}}\ensuremath{\mbox{$4$}}\ensuremath{\mbox{$4$}}\ensuremath{\mbox{$4$}}\ensuremath{\mbox{$4$}}\ensuremath{\mbox{$4$}}\ensuremath{\mbox{$4$}}\ensuremath{\mbox{$4$}}\ensuremath{\mbox{$4$}}\ensuremath{\mbox{$4$}}\ensuremath{\mbox{$4$}}\ensuremath{\mbox{$4$}}\ensuremath
 1167
                                                                    \botTitle{#1}[#2]%
 1168
 1169
                                                                      \ kern3pt \ nobreak
 1170
                                                                     \_hbox{\picw=\hsize #3\inspic{#4}}%
                                                  \endbot
 1171
 1172 }
 1173 \_def\botTitle#1[#2]{\_hbox{\.captionfont
                                                  \  \in \frac{\#2^{2}}{else \botDest{\#1}[\#2]\fi}
 1174
                                                  \_rlap{\Grey \_vrule height1.2em depth.5em width\_hsize}\White\_kern12pt #1}%
 1175
 1176 }
 1177 \_picdir={images/}
 1178 \_def\botDest#1[#2]{\_label[#2]\_wlabel{#1}}
```

\putArticle $\langle chapter \rangle$: $\langle verse \rangle$ { $\langle title \rangle$ } [$\langle label \rangle$] ($\langle params \rangle$) inserts an article given in the file articles-*.tex signed by \Article [$\langle label \rangle$]. The article starts at the page where $\langle chapter \rangle$: $\langle verse \rangle$ is or at the next page. The article is in two-columns style and it is divided to k two-columns parts each of them is inserted at the bottom of the next page.

We calculate the number of pages used for article text by following rules. All the two-columns parts have the same height. If there are more than one such a part, the height does not exceeds 2/3 of the page. But single two-column part can be higher.

\putArticle registers \doArticle using \newaction. \doArticle is run at the beginning of given verse and creates an \botisert. The insert material is breakable at its beginig and between each two-column boxes created by the \balancecolumn macro.

We register a new action by $\ensuremath{\mbox{hewaction}} {\ensuremath{\mbox{full-vref}}} {\ensuremath{\mbox{doArticle}} {\ensuremath{\mbox{title}}} {\ensuremath{\mbox{label}}} {\ensuremath{\mbox{(}\mbox{params})}}.$

```
op-bible.opm

1202 \_newcount\articlenum

1203 \_def\putArticle #1 #2#3[#4]#5(#6){% chap:verse {Title} [number] (params)

1204 \_edef\fullvref{\gentovref{#1}}%

1205 \_edef\fullvrefm{\_ea\renumvref\fullvref\_relax}%

1206 \_ea\newaction\_ea{\fullvrefm}{\doArticle{#2}[#4](#6)}%

1207 }
```

The $\delta (Title) [(label)] (\langle params \rangle)$ inserts the article to one or more pages by $\delta (Title) [(label)] (\langle params \rangle)$ inserts the article to one or more pages by $\delta (Title) [(label)] (\langle params \rangle)$ inserts the article is completely balanced. First, the whole text is saved to the $\delta (Title) (Title)$

op-bible.opm

```
1223 \_def\doArticle#1[#2](#3){% {Title}[number](params)
                         \_incr\articlenum
                         \botinsert
1225
                                     \_def\botDest##1[##2]{\trymakedest{a:\.currbook/##2}}
                                   \_parindent=12pt \_iindent=\_parindent
1227
                                    \_setbox0=\_vbox{\_hsize=.458\_hsize \_emergencystretch=1em
1228
1229
                                              \_hbadness=6000 \_baselineskip=\_dimexpr\_baselineskip plus1pt
                                              \_def\Article[##1]{\_endinput}
1230
1231
                                              \_penalty0
                                              \_long\_def\searcharticle##1\Article[#2]{}
1232
                                              \_ea\searcharticle \_input \articlefile \_relax}
1233
1234
                                    \_splittopskip=12pt
                                    \_setbox1=\_vsplit0 to0pt % adding \splittopskip
                                   \tmpdim=\_vsize \_advance\tmpdim by-24pt % \botTitle height plus above/below skips
1236
                                   \_ifdim 2\tmpdim > \_ht0 \tmpnum=1
1238
                                   \_else
                                             \label{local-problem} $$ \mathbf \rho^{\ p}_{1.333}_vsize}+0.999 % number of 2/3 pages $$
1239
                                    \_fi
1240
                                    \_multiply\tmpnum by2 % number of columns
1241
1242
                                   \_edef\_Ncols{\_the\tmpnum}
                                   \_dimen0=\_expr{1/\_Ncols}\_ht0 \_setbox6=\_box0 % height of each two-columns part
1243
                                    \_setbox0=\_vbox{\_balancecolumns}
1244
                                   \tmpdim=\_ht0 \_advance\tmpdim by1.2\_baselineskip
1245
                                    \_setbox0=\_vbox{\_unvbox0 \_global\_setbox2=\_lastbox}
                                   \scalebox0=\hbox{\unhbox2}
1247
                                                  \_fornum 1..\_Ncols \_do {\_unskip \_global\_setbox1##1=\_lastbox}}
1248
1249
                                                  \_fornumstep -2: \_Ncols..1 \_do {
                                                                \_hrule heightOpt\_kern5pt\_nobreak\_vfill
1250
                                                                \_ifnum\_Ncols=##1 \botTitle{#1}[#2]\_else \botTitle{}[]\_fi
1251
                                                                \_kern3pt \_nobreak
1252
                                                                \_hbox to\_hsize{%
                                                                          \_rlap{\LightGrey \_vrule height\tmpdim depth6pt width\_hsize}%
1254
                                                                          \_kern\_parindent
                                                                          \begin{tabular}{ll} \beg
1256
                                                                          \_kern\_parindent
1258
1259
                                                                \ break
1260
                                                }
                         \endbot
1261
1262 }
1263 \_def\roundexpr#1{\_ea\_ea\_ea\roundexprA\_expr{#1}\_relax}
\label{local_local_local_local_local_local_local} $$1264 \end{$$\clim_def} $$1264 \end{$$\clim_def} $$1264 \end{$$\clim_def} $$1264 \end{$$\clim_def} $$1264 \end{$$\clim_def} $$1264 \end{$\clim_def} $$1264 \end{$$\clim_def} $$1264 \end{$\clim_def} $$1264 \end{$$\clim_def} $$1264 \end{$\clim_def} $$12
```

12 Inserting citations to the page

\putCite $\langle gen\text{-}vref \rangle$ {\langle text}\rangle creates a citation $\langle text \rangle$ inserted to the top of the page where the verse $\langle gen\text{-}vref \rangle$ is. We regiter a new action by \newaction{\langle full-vref \rangle} {\langle dotopCite{\langle text}}}.

```
op-bible.opm

1275 \_def\putCite #1 #2{% chap:verse {text}}

1276 \_edef\fullvref{\gentovref{#1}}%

1277 \_edef\fullvrefm{\_ea\renumvref\fullvref\_relax}%

1278 \_ea\newaction\_ea{\fullvrefm}{\dotopCite{#2}}%

1279 }
```

\dotopCite $\{\langle text \rangle\}$ creates the citation text by \topinsert...\endinsert form plain TeX. We distinguish two cases: the citation on a left page and the citation on a right page. We sawe the page position using _ewref to the .ref file as \sxdef{ct!}\langle citenum\}-{\mypage} and we know the page position in the second TeX run and use it in the \ifodd condition. The typesetting parameters differ in "left" and "right" case.

```
op-bible.opm

1291 \_newcount\citenum

1292 \_def\dotopCite #1{%

1293 \_topinsert

1294 \_typosize[12/16]\_bi

1295 \_incr\citenum

1296 \_ifodd \_trycs{ct!\_the\citenum}{0}\_relax

1297 \_leftskip=.3\_hsize plus1fil \_parfillskip=0pt
```

```
\ noindent
1298
1299
            \_rlap{\_hskip\_hsize \_kern-\_leftskip \_copy\rqqbox}\_hfill
        \ else
1300
1301
            \_let\quotedby=\quotedbyright
            \_rightskip=.3\_hsize plus 1fil
1302
1303
            \_noindent \_llap{\_copy\lqqbox}%
        \ fi
1304
        {\printCite{#1}\_unskip}\_par
1305
1306
        \_ewref\sxdef{{ct!\_the\citenum}{\_string\mypage}}%
        \vskip-.3\baselineskip
1307 %
1308
        \ endinsert
1309 }
^{1310} \ensuremath{\mbox{ left}printCite#1{\pdfliteral{2 Tr .15 w .9 g}#1\pdfliteral{0 Tr 0 w 0 g}}
```

The \lqbox and \rqbox include the graphical marks for quotations. First one is used at the left pages, second one at the right pages.

The macro $\quotedby{\langle author\rangle}$ puts the author of the quatation to the next line. The macro \quotedbyright (which is used at left pages) prints the $\langle author\rangle$ at the last line if there is sufficient space.

```
op-bible.opm

1320 \_newbox\lqqbox

1321 \_newbox\rqqbox

1322 \_setbox\lqqbox=\_hbox{\_lower3pt\_hbox{\_setfontsize{at70pt}\_bf\LiRed_"}}

1323 \_setbox\rqqbox=\_hbox{\_kern2pt\_lower38pt\_hbox{\_setfontsize{at70pt}\_bf\LiRed"}}

1324 \_ht\lqqbox=0pt \_dp\lqqbox=0pt

1325 \_ht\rqqbox=0pt \_dp\rqqbox=0pt

1326

1327 \_def\quotedby{\_par}

1328 \_def\quotedbyright#1{%

1329 \_unskip\_nobreak\_hfill\_penalty0\_hskip2em

1330 \_null\_nobreak\_hskip\_iindent\_hbox{#1}}
```

The following macros Cite, \insertCite and \swapCites are used for insertion of citations to the two-cloumn printed articles. The $\Cite\langle label\rangle\{\langle text\rangle\}\$ simply saves the $\langle text\rangle$ to the macro $\cite\langle label\rangle \langle feft-or-right\rangle$ inserts the citation declared by $\Cite\langle label\rangle$ to the text using α to the variant $\ensuremath{\machemoutleth}$ and α is processed or ignored. This depends on the parity of the current page, which is restored from .ref file and saved to the macro $\cite{\machemoutleth}$ article-num $\ensuremath{\machemoutleth}$! α depends on the parity of the current page, which is restored from .ref file and saved to the macro $\cite{\machemoutleth}$ article-num $\ensuremath{\machemoutleth}$! α depends on the parity of the current page, which is restored from .ref file and saved to the macro $\cite{\machemoutleth}$ to the macro $\cite{\machemoutleth}$ to the current page, which is restored from .ref file and saved to the macro

```
op-bible.opm
1344 \setminus def\Cite #1#2{\sdef\{c!\the\articlenum!#1\}{#2}}
1345 \_def\insertCite #1#2{\_def\citelabel{#1}%
                                \_ifx\left#2\insertCiteleft
1346
                                \_else \_ifx#2\right\insertCiteright\_else
1347
                                           \verb|\colored| = $$\operatorname{\sum_{noexpand}} $$ \operatorname{\sum_{noexpand}} $$ expected} % $$
1348
                                \ fi\ fi
1350 }
1351 \_def\insertCiteleft {%
                                \_ifnum\citepg=1 \.printwarn{\_noexpand\insertCite\citelabel: \_noexpand\swapCites activated}\_fi
1352
                                \_ifodd \_numexpr\_trycs{cp!\_the\articlenum!\citelabel}{0}+\citepg\_relax
1353
1354
                                \_else \insertCitelr \_left \_fi
1355 }
                 \_def\insertCiteright{%
1356
                                \_ifodd \_numexpr\_trycs{cp!\_the\articlenum!\citelabel}{0}+\citepg\_relax
1357
                               \insertCitelr \_right \_fi
1358
1359 }
\verb|\colored| = $$\sum_{\text{cp!}_{\text{cnum!}}}{\colored} % $$ \colored| $$\colored| = $$\sum_{\text{colored}} {\colored| } % $$\colored| $$\colored| = $$\colored| =
1361
1362
                               \_vskip6pt
                                \_advance\_hsize by\_parindent
1363
                                \_typosize[12/16]\_bi\Grey
1364
                                                  \_ifx#1\_left
1365
                                                                  1366
                                                                  \_rightskip=\_parindent plus1fil \_leftskip=0pt
                                                                  \scalebox0\scalebox0\scalebox0\scalebox0\scalebox0\scalebox0\scalebox0\scalebox0\scalebox0\scalebox0\scalebox0\scalebox0\scalebox0\scalebox0\scalebox0\scalebox0\scalebox0\scalebox0\scalebox0\scalebox0\scalebox0\scalebox0\scalebox0\scalebox0\scalebox0\scalebox0\scalebox0\scalebox0\scalebox0\scalebox0\scalebox0\scalebox0\scalebox0\scalebox0\scalebox0\scalebox0\scalebox0\scalebox0\scalebox0\scalebox0\scalebox0\scalebox0\scalebox0\scalebox0\scalebox0\scalebox0\scalebox0\scalebox0\scalebox0\scalebox0\scalebox0\scalebox0\scalebox0\scalebox0\scalebox0\scalebox0\scalebox0\scalebox0\scalebox0\scalebox0\scalebox0\scalebox0\scalebox0\scalebox0\scalebox0\scalebox0\scalebox0\scalebox0\scalebox0\scalebox0\scalebox0\scalebox0\scalebox0\scalebox0\scalebox0\scalebox0\scalebox0\scalebox0\scalebox0\scalebox0\scalebox0\scalebox0\scalebox0\scalebox0\scalebox0\scalebox0\scalebox0\scalebox0\scalebox0\scalebox0\scalebox0\scalebox0\scalebox0\scalebox0\scalebox0\scalebox0\scalebox0\scalebox0\scalebox0\scalebox0\scalebox0\scalebox0\scalebox0\scalebox0\scalebox0\scalebox0\scalebox0\scalebox0\scalebox0\scalebox0\scalebox0\scalebox0\scalebox0\scalebox0\scalebox0\scalebox0\scalebox0\scalebox0\scalebox0\scalebox0\scalebox0\scalebox0\scalebox0\scalebox0\scalebox0\scalebox0\scalebox0\scalebox0\scalebox0\scalebox0\scalebox0\scalebox0\scalebox0\scalebox0\scalebox0\scalebox0\scalebox0\scalebox0\scalebox0\scalebox0\scalebox0\scalebox0\scalebox0\scalebox0\scalebox0\scalebox0\scalebox0\scalebox0\scalebox0\scalebox0\scalebox0\scalebox0\scalebox0\scalebox0\scalebox0\scalebox0\scalebox0\scalebox0\scalebox0\scalebox0\scalebox0\scalebox0\scalebox0\scalebox0\scalebox0\scalebox0\scalebox0\scalebox0\scalebox0\scalebox0\scalebox0\scalebox0\scalebox0\scalebox0\scalebox0\scalebox0\scalebox0\scalebox0\scalebox0\scalebox0\scalebox0\scalebox0\scalebox0\scalebox0\scalebox0\scalebox0\scalebox0\scalebox0\scalebox0\scalebox0\scalebox0\scalebox0\scalebox0\scalebox0\scalebox0\scalebox0\scalebox0\scalebox0\scalebox0\scalebox0\scalebox0\scalebox0\scalebox0\scalebox0\sca
1368
                                                                               \_medskip \_noindent
                                                                              \_llap{\_copy\lqqbox}\_ignorespaces
1370
1371
                                                                               \printCite{\_cs{c!\_the\articlenum!\citelabel}}\_medskip}%
1372
                                                                  \_vrule height\_ht0 width\_hsize}\_box0}%
1373
```

```
\ else
1374
                \_leftskip=\_parindent plus1fil
1375
                \_parfillskip=0pt
1376
                \_setbox0\_vbox{%
1378
                   \_medskip \_noindent
                   \_rlap{\_hskip\_hsize\_kern-\_parindent\_copy\rqqbox}\_hfill
1379
1380
                   \_ignorespaces \printCite{\_cs{c!\_the\articlenum!\citelabel}}\_medskip}%
                \_rlap{\_rlap{\White \_vrule height\_ht0 width\_hsize}\_box0}%
1381
1382
             \ fi
       \_vskip6pt
1383
1384 }}}
1385
1386 \_def\swapCites{\_def\citepg{1}}
1387 \_def\citepg{0}
```

Insertions into the intro text

op-bible.opm

```
1395 %% TBN page 236
1396
1397 \_newcount\shapenum
1398 \_newdimen\ii \_newdimen\w
1399 \_def\oblom #1 od #2 odsadit #3 {\_par \ii=#1 \w=\_hsize
              \_ifdim\ii>\_zo \_advance\w by-\ii
1400
              \_else \_advance\w by\ii \ii=\_zo \_fi
1401
             \shapenum=1 \tmpnum=0 \_def\shapelist{}
1402
              \_loop \_ifnum\shapenum<#2 \_edef\shapelist{\shapelist\_zo\_hsize}%
1403
                    \_advance\shapenum by1 \_repeat
1404
              \_loop \_edef\shapelist{\shapelist\ii\w}%
1405
                    \_advance\tmpnum by1 \_ifnum\tmpnum<#3 \_repeat
              \_advance\shapenum by#3 \_edef\shapelist{\shapelist\_zo\_hsize}
1407
1409 \_def\doshape{\_parshape \shapenum \shapelist}
1410 \_newcount\globpar
1411 \_ifx\_partokenset \_undefined \_def\partoken{\par} \_else \_def\partoken{\_par} \_fi
\label{loglobal} $$1412 \end{\end} \end{\end} $$1412 \end{\end} \end{\end} $$1412 
\_endgraf \_global\globpar=\_prevgraf
1414
              \_ifnum \_prevgraf>\shapenum \_ea\_let\partoken=\_endgraf \_fi
1415
1416 }
1418 \_def\Citehereleft #1 (#2) #3{{
1419
             \_par
1420
                             \_def\quotedby{\_par\_hfill}
                             \_rightskip=\_parindent plus1fil \_leftskip=0pt
1421
1422
                             \_typosize[12/16]\_bi\Grey
1423
                                   1424
                                   \_medskip \_noindent
1425
                                   \_llap{\_copy\lqqbox}\_ignorespaces
                                   \printCite{#3}\_medskip}}%
1427
1428
             \tmpdim=\_ht0 \_advance\tmpdim by\_baselineskip
1429
             \_xdef\lines{\_the\_numexpr \_number\tmpdim / \_number\_baselineskip \_relax}%
             \_nointerlineskip\_vbox toOpt{\_kern#1\_baselineskip #2
1430
1431
                             \_hbox{\_rlap{\White
                                   \ kern-3mm\ vrule height\ ht0 width.5\ hsize}\ box0}%
1432
1433
              \tmpdim=\_hsize \_advance\tmpdim by-2\_leftskip
1434
             \omegable \oblom {.5\tmpdim} od #1 odsadit {\lines}
1435
1436 }
1437 \_def\Citehereright #1 (#2) #3{{
1438
                             \_def\quotedby{\_par\_parfillskip=0pt \_hfill}
1439
                             \_leftskip=\_parindent plus1fill \_rightskip=0pt
1440
                             1441
                                   <page-header> typosize [12/16] \_bi\Grey
1442
                                   \ hsize=.5\ hsize
1443
                                   \_vskip\_medskipamount \_rlap{\_kern\_hsize\_copy\rqqbox}\_vskip-\_medskipamount
1444
                                   \printCite{\_noindent\_ignorespaces#3}\_medskip}}%
1445
1446
             \label{lines} $$ \sum_{\substack{n \in \mathbb{N}_{numexpr \in \mathbb{N}}} } \sum_{\substack{n \in \mathbb{N}_{numexpr \in \mathbb{N}}} } $$
1447
```

```
\_nointerlineskip\_vbox to0pt{\_kern#1\_baselineskip #2
1448
             \_hbox to\_hsize{\_hss
1449
                \_llap{\White \_vrule height\_ht0 width.5\_hsize \_kern-3mm}%
1450
                \label{lap{\box0}} \
       \_vss}}
1452
       \tmpdim=\_hsize \_advance\tmpdim by-2\_leftskip
1453
1454
       \sigma {-.5<page-header> od #1 odsadit {\lines}
1455 }
1456
    \_def\Citehere{\_par \_ifodd\pageno \_ea\Citehereright \_else \_ea\Citehereleft \_fi}
1457
1458
1459 \_def\insertBot #1#2[#3]#4(#5)#6{% {Title} [label] (params) {data}
1460
          \botTitle{#1}[#3]%
1461
          \_kern3pt \_nobreak
1463
          \_vbox{\_picwidth=\_hsize #5 #6}%
1464
1465 }
1466 \_def\putBot #1 #2#3[#4]#5(#6)#7{% chap:verse {Title} [label] (params) {image-file.pdf}
1467
       \_edef\fullvref{\gentovref{#1}}%
       \_edef\fullvrefm{\_ea\renumvref\fullvref\_relax}%
1468
       \end{align*} $$ \operatorname{\end}_{ea}(fullvrefm}_{insertBot}_{#2}[#4](#6)_{#7}}% $$
1469
1470 }
1471
1472 \_def\c[#1/#2]#3{% text podel krivky: \c[init-rotace/repetice]{text}
       \pdfsave\pdfrotate{#1}\rlap{\edef\tmpb{#3}\_replstring\tmpb{}{{ }}\_def\tmpa{#2}%
1473
1474
                      \_ea\_foreach\tmpb\_do{##1\tmpa}}\_pdfrestore \_kern10mm
1475 }
```

13 Outline

```
op-bible.opm
1483 \_newdimen\colsep
1484 \colsep=10pt
1485
1486 \_def\Outline{
       \ medskip
1487
1488 %
        \filbreak
       \.chaptit{\ mtext{outline}}%
1489
1490
       \_everylist={\_ifcase\_ilevel \_or \_style I \_or \_style A \_or \_style n \_fi}
1491
       \_sdef{_item:A}{\_strut\_uppercase\_ea{\_athe\_itemnum}. }
1492
       \_sdef{_item:I}{\_strut\_uppercase\_ea{\_romannumeral\_itemnum}. }
       \_hsize=.5\_hsize \_advance\_hsize by-\colsep
1493
       \_emergencystretch=40pt
1494
1495
       \_leftskip=0pt \_rightskip=0pt
1496 }
1497
   \_def\rightnote#1{\_par
       \_setbox0=\_hbox{\_kern\_hsize \_kern\colsep
1498
1499
                         \_vtop{\_leftskip=0pt \_kern0pt\_noindent\_strut\_it#1}}
       \t 0=0pt _dp0=0pt _box0 _nointerlineskip
1500
1501 }
```

14 Typesetting variants

By default, chapter numbers are in the outer margin and quotes characters too. The \normalchapnums macro moves chater numbers to the left side in the first paragraph, cquotes characters are removed and outer margins are reduced because there is no material in them.

```
op-bible.opm
1515 \_def\normalchapnumbers{
       \_margins/2 a2 (25,25,20,20)mm
1516
       \.lrmargin=0pt
1517
1518
       \_setbox0=\_box\lqqbox \_setbox0=\_box\rqqbox
       \ def\printbeforefirst{%
1519
1520
           \_nobreak\_medskip
1521
          \printchapnote
1522
          \_hangindent=\_parindent \_hangafter=-2
          \_noindent \_llap{\_vbox toOpt
```

15 Checking syntax

```
op-bible.opm
1534 \_def\checksyntax#1 {%
                     \_let\processbooks=\_relax
                     \_ifx\_relax#1\_relax \_else
1536
                              \_begingroup
1538
                                        \_the\syntaxmacros
                                        \_wterm{^^J** checking file: #1 **^^J}
1539
1540
                                        \_input{#1}
                                       \_vfil\_break
1541
1542
                               \_endgroup
1543
                     \ ea\checksyntax \ fi
1544 }
1545 \ def\fileend{}
1547 \_newtoks\syntaxmacros
1548 {\_catcode`<=13
1549 \_global\syntaxmacros={
1550 \_def<#1>{\_bgroup
                      1552
                     \_ifx\_relax#1\_relax \_errmessage{empty link}\nobref\_else \_afterfi{\checkbref#1>\bref#1>}\_fi
1553
                     \_glet\linkpre=\linkpre \_glet\linkfspec=\linkfspec
1554
                     \ egroup
1555 }
1556 \ def\checkbref#1#2>{%
                     1558
                      \_ifx"#1\checkbrefQ #1#2>\_else \checkbrefD #1#2>\_fi\_fi
1559 }
_{1560} \ensuremath{\mbox{\mbox{\mbox{$1560$}}}\ensuremath{\mbox{\mbox{\mbox{$1560$}}}\ensuremath{\mbox{\mbox{$2$}}}\ensuremath{\mbox{\mbox{$3$}}\ensuremath{\mbox{$1560$}}\ensuremath{\mbox{$2$}}\ensuremath{\mbox{$3$}}\ensuremath{\mbox{$3$}}\ensuremath{\mbox{$3$}}\ensuremath{\mbox{$3$}}\ensuremath{\mbox{$3$}}\ensuremath{\mbox{$3$}}\ensuremath{\mbox{$3$}}\ensuremath{\mbox{$3$}}\ensuremath{\mbox{$3$}}\ensuremath{\mbox{$3$}}\ensuremath{\mbox{$3$}}\ensuremath{\mbox{$3$}}\ensuremath{\mbox{$3$}}\ensuremath{\mbox{$3$}}\ensuremath{\mbox{$3$}}\ensuremath{\mbox{$3$}}\ensuremath{\mbox{$3$}}\ensuremath{\mbox{$3$}}\ensuremath{\mbox{$3$}}\ensuremath{\mbox{$3$}}\ensuremath{\mbox{$3$}}\ensuremath{\mbox{$3$}}\ensuremath{\mbox{$3$}}\ensuremath{\mbox{$3$}}\ensuremath{\mbox{$3$}}\ensuremath{\mbox{$3$}}\ensuremath{\mbox{$3$}}\ensuremath{\mbox{$3$}}\ensuremath{\mbox{$3$}}\ensuremath{\mbox{$3$}}\ensuremath{\mbox{$3$}}\ensuremath{\mbox{$3$}}\ensuremath{\mbox{$3$}}\ensuremath{\mbox{$3$}}\ensuremath{\mbox{$3$}}\ensuremath{\mbox{$3$}}\ensuremath{\mbox{$3$}}\ensuremath{\mbox{$3$}}\ensuremath{\mbox{$3$}}\ensuremath{\mbox{$3$}}\ensuremath{\mbox{$3$}}\ensuremath{\mbox{$3$}}\ensuremath{\mbox{$3$}}\ensuremath{\mbox{$3$}}\ensuremath{\mbox{$3$}}\ensuremath{\mbox{$3$}}\ensuremath{\mbox{$3$}}\ensuremath{\mbox{$3$}}\ensuremath{\mbox{$3$}}\ensuremath{\mbox{$3$}}\ensuremath{\mbox{$3$}}\ensuremath{\mbox{$3$}}\ensuremath{\mbox{$3$}}\ensuremath{\mbox{$3$}}\ensuremath{\mbox{$3$}}\ensuremath{\mbox{$3$}}\ensuremath{\mbox{$3$}}\ensuremath{\mbox{$3$}}\ensuremath{\mbox{$3$}}\ensuremath{\mbox{$3$}}\ensuremath{\mbox{$3$}}\ensuremath{\mbox{$3$}}\ensuremath{\mbox{$3$}}\ensuremath{\mbox{$3$}}\ensuremath{\mbox{$3$}}\ensuremath{\mbox{$3$}}\ensuremath{\mbox{$3$}}\ensuremath{\mbox{$3$}}\ensuremath{\mbox{$3$}}\ensuremath{\mbox{$3$}}\ensuremath{\mbox{$3$}}\ensuremath{\mbox{$3$}}\ensuremath{\mbox{$3$}}\ensuremath{\mbox{$3$}}\ensuremath{\mbox{$3$}}\ensuremath{\mbox{$3$}}\ensuremath{\mbox{$3$}}\ensuremath{\mbox{$3$}}\ensuremath{\mbox{$3$}}\ensuremath{\mbox{$3$}}\ensuremat
1561 \_def\checkbrefD #1>{%
                              \. 11_{.} 
1563 }
1564 \_def\checkbrefS #1 #2>{\checkbrefN#2>}
1565 \_def\checkbrefN #1>{%
                     \ensuremath{\mbellet} \ensuremath{\mbellet
                     \_ifx\tmpb\_empty \_errmessage{missing link data}\nobref\_else
1567
                               \_replstring\tmpb{:}{}\_replstring\tmpb{-}{}\_replstring\tmpb{_}{}%
                               1569
                               \sp \ \_setbox0=\_hbox{\tmpnum=0\tmpb\relax}%
1570
1571
                              \_ifdim\wd0>0pt \_errmessage{nonnumeric link data}\nobref\_fi
1572
1573 }
1574 \end{$$\end{$\end{\end}$}} $$
1575 \_def\.currbook{}
1576 \_def\.prelinkB{BK}
1577 \_def\.prelinkC{BK}
1578 \_def\.prelinkV{0}
1579 \_def\nochapbooks{BK}
1580 \_let\<=<
1581
1583 \ensuremath{\def\x/\#1/{\def\tmpb{\#1}}\%}
                     \_else \_isinlist\tmp<\_iftrue \badx
1585
                      \_else \_isinlist\tmp\enditems\_iftrue \badx \_else \orix/#1/\_fi\_fi
1587 }
1588 \_def\badx{\_errmessage{unclosed \_string\x/.../}}
1590 \_def\Article[#1]{}
1591 \_def\Cite #1 {\_par\_noindent{\_bf Cite: }}
1592 \_def\insertCite #1#2{}
1594 \_def\putArticle #1 #2[#3]#4(#5){}
```

16 TODO macros

The temporary macros are here. I plan to rewrite them.

```
op-bible.opm
1613 \ \end{10} \end{10} \ \end{10} \end{10} \ \end{10} \end
1615 }
1616 \_def\schaptit#1{\_bigskip\.chaptit{#1}\_medskip}
1617
1618 \_nspublic \chaptit ;
1619
                                                                                                                                                                                                              \_sdef{_mt:outline:en}{Outline}
1620 \_sdef{_mt:intro:en}{Introduction}
1621 \_sdef{_mt:intro:cs}{Úvod}
                                                                                                                                                                                                               \_sdef{_mt:outline:cs}{Osnova}
1622
1623 \_def\dopsat{{\Red !!! DOPSAT !!! }}
1624
1625 \_def\.bibleinput#1 {\_bgroup
                                    \_catcode`##=13 \_bgroup\_lccode`~=`## \_lowercase{\_egroup\_let~}=\processline
1626
                                    \_input{#1}%
1627
1628
                                    \_egroup
1629 }
 1630
1631 \_def\bibname{}
```

Active character < used for references.

```
op-bible.opm

1637 \_def\_afterload{\_adef<{\bref}}

1638 \_afterload

1639

1640 \_endnamespace
```