# **OP-Bible** – Technical Documentation

The code of the op-bible.opm macro file is described here.

```
op-bible.opm
3 \_codedecl \processbooks {OpBible: macros for creating annotated Bible}
4
5 \_message{This is OP-Bible, version 0.01, Aug 2022}
```

### 1 Preparatory work

Loading packages.

```
op-bible.opm

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

15 \_load[mte]  % micro typographical extensions

16

17 \_namespace{opb}
```

Basic settings of T<sub>F</sub>X parameters.

Fonts.

Auxiliary macros. \.printwarn  $\{\langle text \rangle\}$  prints warning. \.sedef  $\{\langle name \rangle\} \{\langle body \rangle\}$  is expanded \sdef. \.myaddto  $\{\langle macro-name \rangle\} \{\langle text \rangle\}$  adds  $\langle text \rangle$  to  $\langle macro-name \rangle$  globally. Moeower it defines the undefined macro by \sdef. $\langle macro-name \rangle\} \{\langle text \rangle\}$ .

```
op-bible.opm

67 \_let\.printwarn=\_opwarning

68 \_def \.sedef #1{\_ea\_edef \_csname#1\_endcsname}

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

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

We prepare expandable if-macros:

```
\.isspacein \langle text \ \_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.

op-bible.opm

79 \_def\.isspacein #1 #2\_iftrue{\_isempty{#2}\_iffalse}
80 \_def\.iscolonin #1:#2\_iftrue{\_isempty{#2}\_iffalse}
81 \_def\.isdivisin #1-#2\_iftrue{\_isempty{#2}\_iffalse}
```

### 2 The main loop over Bible books

The \processbooks macro does two loops over all marks in \printedbooks. The macro \printedbooks is a list of  $\langle a\text{-}marks \rangle$  of Bible books separated by spaces and it must be defined in the main file. The \\_useit trick is used here in order we want to add  $\langle space \rangle$ {} at the end of the expanded \printedbooks. The first loop body sets \pbook!  $\langle a\text{-}mark \rangle$  used for hyperlinks. The second loop body does:

- Defines \amark as  $\langle a\text{-}mark \rangle$  (an actual mark of the book used in the text).
- Defines \bmark as  $\langle b\text{-}mark \rangle$  (a mark of the book used in file names).
- Defines \.btit as the book title.
- Saves  $\langle a\text{-}mark \rangle$  to the \.currbook macro.
- Calls \.newbook{ $\langle a\text{-}mark \rangle$ }
- Prints title of the book to the terminal and to the log.
- Calls \bex!<a-mark> in order to apply the \BookException data.
- Inputs introduction file if it exists. The real \input and formatin of the introduction text is done by the \.printintro macro.
- Inputs format definition file if it exists. Information is saved to the TEX memory.
- $\bullet$  Inputs notes file if it exists. The notes are saved to the TeX memory.
- Calls \bpr!<a-mark> in order to apply the \BookPre data.
- Inputs txs file with original text of the Bible using \.bibleinput, i.e. prints the text from txs file with notes from the TFX memory.
- Calls \bpo!<a-mark> in order to apply \BookPost data.

Note that the macros \introfile, \fmtfile, and \notesfile give the location of aprropriate files and these macros must be defined by the user in the main file.

Note2: 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.

```
op-bible.opm
121 \_def\.processbooks {\_par
      \_ifx\tmark\_undefined \_def\tmark{none}\_fi
122
      \.checknochapbooks
123
      \_useit{\_ea\.processbooksA \printedbooks} {}
124
      \_useit{\_ea\.processbooksB \printedbooks} {}
125
126 }
127
   \ def\.processbooksA #1 {%
128
      129 }
130 \_def\.processbooksB #1 {%
      \_if\_relax#1\_relax \_else
131
         \_edef\amark{#1}
132
         \ensuremath{\ensuremath{\text{cs}\{f!\#1\}}}
133
         \ensuremath{\ \ \ }
134
135
         \_begingroup
            \_edef\.currbook{#1}
137
            \.newbook{#1}
            \_wterm{** \_cs{btit!#1} {#1} (\string\tmark: \tmark) **}
138
            \_cs{bex!#1}
139
            \_isfile{\introfile}\_iftrue \.printintro
140
            \_else \.printwarn{File with introduction text \introfile\_space not found}\_fi
141
142 %
             \.CommentedBook{#1}
143
            \_isfile{\fmtfile}\_iftrue \_input{\fmtfile}
            \_else \.printwarn{File with format info \fmtfile\_space not found}\_fi
144
            \_isfile{\notesfile}\_iftrue \_input{\notesfile}
            \_else \.printwarn{File with notes \notesfile\_space not found}\_fi
146
```

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

op-bible.opm

161 \\_def\.newbook#1{\\_vfil\\_supereject}

162 \\_let\.prelinkB=\.currbook \.chapnum=0

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

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

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

166 \\_par\\_nobreak\\_medskip

167 }

\.setheadline $\{\langle book\text{-}title\rangle\}$  sets \\_headline. It is re-set for each new book by \.newbook.

The **\bibname** can be defined by user as a name of the translating variant of the Bible. If it is not defined then it is empty by default.

```
op-bible.opm
176 \ensuremath{\mbox{\mbox{\mbox{$\sim$}}} def\ensuremath{\mbox{\mbox{\mbox{$\sim$}}} setheadline#1{\ensuremath{\mbox{\mbox{$\sim$}}} global\ensuremath{\mbox{\mbox{$\sim$}}} headline={\ensuremath{\mbox{$\sim$}}} .headfont
177
          \_ifodd\_pageno
                \r \sum_{i=1}^{i} \frac{hss}{%}
178
                \_hfil \_the\_pageno\_hfil
179
180
                \_hbox to\.lrmargin{\_hss\_bf#1\_ifx^\_botmark^\_else\_space \_botmark\_fi}%
                \ kern-\.lrmargin
181
182
                \ kern-\.lrmargin
183
                \_hbox to\.lrmargin{\_bf#1 \_firstmark\_hss}%
184
                \_hfil \_the\_pageno\_hfil
185
186
                \label{lap{\hss\_it\bibname}%}
187
188
189 }
190 \_def\bibname{}
```

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. The \.checknochapbooks macro does it, moreower, it checks if the \nochapbooks is defined. If not, it prints warning.

```
op-bible.opm

203 \_def\.checknochapbooks {%

204 \_ifx\nochapbooks\undefined

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

206 \_def\nochapbooks{}%

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

208 }
```

#### 3 Book titles

The macro \BookTile \langle a-mark \langle \langle b-mark \rangle \langle title \rangle \rangle b \rangle tark \rangle \text{ded-mark} \rangle \text{ded-mark} \rangle \text{can be used in file names as \bmark. The mapping is done here: \\def\btit! \langle a-mark \rangle \langle title \rangle \rangle, \\def\frac{f!}{a-mark} \langle \langle b-mark \rangle \langle \text{b-mark} \rangle \langle b-mark \rangle \langle \rangle b-mark \rangle \langle \rangle \text{b-mark} \rangle \langle \rangle b-mark \rangle \langle \rangle \rangle b-mark \rangle \langle \rangle b-mark \rangle \langle \rangle b-mark \rangle \langle \rangle b-mark \rangle \langle \rangle \rangle b-mark \rangle \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
225 \_outer\_def\.BookTitle #1 #2 #3{\_sxdef{btit!#1}{#3}\_sxdef{f!#1}{#2}}
```

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  $\langle a\text{-}mark \rangle$  { $\langle code \rangle$ } and \BookPost  $\langle a\text{-}mark \rangle$  { $\langle code \rangle$ } are defined similarly. They add  $\langle code \rangle$  to the \bpr! $\langle a\text{-}mark \rangle$  and to the \bpo! $\langle a\text{-}mark \rangle$  macros repectively.

```
op-bible.opm

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

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

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

240

241 \_nspublic \BookTitle \BookException \BookPre \BookPost;
```

The  $\chapterPre{\langle code \rangle}$  and  $\chapterPost{\langle code \rangle}$  inserts  $\langle code \rangle$  before each chapter and after each chapter. The  $\langle data \rangle$  are the same for each chapter, it does not vary depending on the Book or Chapter number.

```
op-bible.opm

249 \_long\_def\.ChapterPre #1{\_def\.chapbefore{#1}}

250 \_long\_def\.ChapterPost #1{\_def\.chapafter{#1}}

251

252 %\_outer\_def\ChapterPre {\.ChapterPre}

253 %\_outer\_def\ChapterPost {\.ChapterPost} % be done at the end of this file
```

#### 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.

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

\.newaction{ $\langle full\text{-}vref\rangle$ }{ $\langle action\text{-}body\rangle$ } allocates new action.

```
op-bible.opm
273 \_def\.newaction#1#2{%
274 \_unless\_ifcsname alist!#1\_endcsname \_sdef{alist!#1}{}\_fi
275 \_ea\_addto\_csname alist!#1\_endcsname{#2}%
276 }
```

A typical "action" is \.replpre. 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. \.replpre{\langle prefix\rangle} {\langle text\rangle} {\langle text\rangle} {\langle text\rangle} \rangle {\langle text\rangle} \ra

```
op-bible.opm
  \_def\.replpre#1#2#3{%
      290
291
      \ else
        \_def\.replpredo##1#2##2\_end{%
292
           \  \in \ \_ifx\_end##2\_end \_def\.text{#2}#3% <fail>
293
294
           \ensuremath{\ } \_else \.replsave ##1#1{#2}##2\_end \_fi
295
296
        \end{\end{\def}.puff{##1}}% \end{\end{\end{\end{\def}.puff{##1}}}
297
        \_ea\.replpredo\.buff#2\_end
298
299 }
```

\.replpost{ $\langle text \rangle$ }{ $\langle fail \rangle$ } searches  $\langle text \rangle$  in \.buff and adds  $\langle post \rangle$  after the  $\langle text \rangle$ . If the  $\langle text \rangle$  is not found then  $\langle fail \rangle$  is executed. The \.replpost is used by \fmtins because we want to insert the  $\langle post \rangle$  material directly.

```
309 \_def\.replpost#1#2#3{%
310 \_def\.replpostdo##1#1##2\_end{%
311 \_ifx\_end##2\_end \_def\.text{#1}#3% <fail>
312 \_else \.replsave ##1#1#2#2\_end \_fi
313 }%
314 \_def\.replsave##1#1\_end{\_def\.buff{##1}}%
315 \_ea\.replpostdo\.buff#1\_end
316 }
```

#### 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 the \.currbook macro) 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  $\langle gen\text{-}vref \rangle$ .\.\text{\center-output} \text{\substack} \text{\su

```
op-bible.opm
331 \_def\.gentovref#1{\.currbook/\.gentovrefA#1-\end}
332 \_def\.gentovrefA#1-#2\end{#1}
```

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

op-bible.opm

```
339 \_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

350 \_def\.transformword#1{%

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

352 \_else #1\_fi

353 }
```

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

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:

- Calculates  $\langle full\text{-}vref\rangle$  using \.gentovref{ $\langle genv\text{-}ref\rangle$ } and svese it to \.fullvref.
- If the verse number of  $\langle full\text{-}vref\rangle$  is zero, we want to insert the note-text before the chapter. This is one by the \.NoteB macro.
- Allocates new  $\langle note-num \rangle$ , i.e. \.notenum is  $\langle note-num \rangle$ .
- Modifies  $\langle full\text{-}vref \rangle$  if \renum was declared using \.renumvref and saves the result to \.fullvrefm.
- Uses \.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) by \.NoteA if the alternative syntax with ={ $\langle pword \rangle$ } is used. Else  $\langle pword \rangle$  is equal to  $\langle tword \rangle$ . Use it only if \.nextww is undefined.
- Defines \notetext!  $\langle note-num \rangle$  as  $\langle text \rangle$ .
- Defines  $\noteref! \langle note-num \rangle$  as  $\langle full-vref \rangle$  re-calllated by  $\noteref!$
- Defines \notepre!  $\langle note-num \rangle$  as numeric part of modified  $\langle full-vref \rangle$ . and calculates  $\langle from \rangle \langle to \rangle$  part (if exists in  $\langle gen-vref \rangle$ ) using \.renumlabel macro. This is printed prefix of the \Note.
- Defines \pword!  $\langle note-num \rangle$  as  $\langle pword \rangle$ ,
- Does \.newaction{ $\langle full\text{-}vref\rangle$ }{\.replpre{\.doNote} $\langle note\text{-}num\rangle$ }} { $\langle tword\rangle$ }{\.notefail{ $\langle note\text{-}num\rangle$ }}}.

This is done by  $\land AddNote\{\langle full\text{-}vref\rangle\}\{\langle note\text{-}num\rangle\}\{\langle tword\rangle\}.$ 

Note that \Note is defined as \outer in order to report correctly typical mistakes with missing empty line the text of a previous \Note.

```
op-bible.opm
399 \_newcount\.notenum
                       \_def\.Note #1 #2{%
 400
                                                \_edef\.fullvref{\.gentovref{#1}}%
401
                                               \_ea\.isversezero\.fullvref\_iftrue
 402
                                                                  \ ea\.NoteB
 403
                                                \_else
  404
                                                                    \ incr\.notenum
 405
 406
                                                                  \verb|\end{frame} $$ \end{frame} \end{frame} $$ \end{
                                                                  407
```

```
\ ifx\.nextww\ undefined
408
          {\_def\.printwarn##1{}\_xdef\.tword{\.transformword{#2}}}%
409
        \_else \_xdef\.tword{\.nextww}\_fi
410
        \ensuremath{\lower14}_{\ensuremath{\lower14}}\
411
412
413 }
414 \ensuremath{ \ \ } MoteA=#1#2% #2 separated by \par or \_par:
415
416 {%
     \_sdef{notetext!\_the\.notenum}{\_ignorespaces#2}%
417
     \.sedef{noteref!\_the\.notenum}{\.fullvrefm}%
418
     \ ifx\.nextww\ undefined
419
        \_ifx^#1^\_sdef{pword!\_the\.notenum\_ea}\_ea{\.tword}\_else \_sdef{pword!\_the\.notenum}{#1}\_fi
420
421
     \ else
422
        \_sdef{pword!\_the\.notenum\_ea}\_ea{\.nextwwA}%
423
        \_let\.nextww=\_undefined \_let\.nextwwA=\_undefined
     \ fi
424
425
     \.reducetword
     426
427 }
428 \_def\.addNote#1#2#3{%
     \_ifx^#3^% \.tword is empty
429
        430
431
        \_ea \.isdivisin\.tmp-\_iftrue
          432
433
        \ else
434
          \. newaction{#1}{\_addto\. prebuff{\. doCNote{#2}{}}}%
        \ fi
435
436
     \_else
        437
438
439 }
440 \ outer \ will be done at the end of this macro file
```

The \.NoteB  $\langle text \rangle$  \par does not register any action to the verse but defines \chapnote!  $\langle full\text{-}vref \rangle$  as the  $\langle text \rangle$ . This chapter note will be printed before the chapter starts.

```
op-bible.opm

449 \_def\.NoteB #1% #1 separated by \par or \_par

450

451 {%

452 \_sdef{chapnote!\.fullvref}{\_ignorespaces#1}%

453 }

454 \_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 \.renumlabel macro must be expandable, so we cannot use \isinlist and we prepare special expandable macros \.isdivisin and \.iscolonin.

```
op-bible.opm

467 \_def\.renumlabel#1/#2\_relax{#2%

468 \_ea\.isdivisin\.tmp-\_iftrue --\_ea\.renumlabelA\.tmp\_relax#2\_relax \_fi

469 }

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

471 \.iscolonin#3:\_iftrue #3\_else \_the\_numexpr#5+#3-#2\_relax \_fi

472 }
```

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  $\.notefail{\langle note-num \rangle}$  prints warning about it and  $\.doNote{\langle note-num \rangle}{\}}$  is prefixed before the verse text.

```
op-bible.opm

487 \_def\.notefail#1{%

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

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

490 }
```

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

The  $\langle chapter \rangle$ :  $\langle verse \rangle$  is printed from \notepre! only if it differs from previous one, i.e. from \notepre\notepre. The  $\langle pword \rangle$  is printed with uppercase first letter by \underline{uppercase} and with appended dot, but the dot is not printed if the  $\langle pword \rangle$  ends by ? or !.

op-bible.opm 502 \\_def\.prevnotepre{} 503 \\_def\.doNote#1#2{% \\_edef\.tmpb{\\_cs{notepre!#1}}% 505 506 507 {\\_bf \\_ifx\.prevnotepre\.tmpb \\_else \.tmpb \\_enskip \\_glet\.prevnotepre=\.tmpb \\_fi \.trymakedest{n:\ cs{noteref!#1}}% 508 \\_edef\.tmpb{\\_csname pword!#1\\_endcsname}% 509 \\_ifx\.tmpb\\_empty \\_else 510 511 \\_addto\.tmpb{.}\.punctpword \\_ea\.upcasefirst \.tmpb\\_space 512 \\_fi }% end of \bf 514 \\_cs{notetext!#1}}% 515 516 {\notecolor#2}% 517 } 518 \\_def\\_printfnotemark{} 519 \ def\ textindent#1{\ noindent}

The  $\langle pword \rangle$  is typically all lowercase. But we want to capitalize the first letter of the  $\langle pword \rangle$  when printing by \underline{\text{upcasefirst}}. You can say \let\underline{\text{upcasefirst}} elax if you don't want this feature.

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

The dot is added to  $\langle pword \rangle$  when it is printed. But if  $\langle pword \rangle$  ends by ! or ? then the added dot is uggly. We have to correct it in the \.punctpword macro. Note that  $\langle pword \rangle$  is saved to \.tmpb.

```
op-bible.opm 537 \_def\.punctpword{\_replstring\.tmpb{!.}{!}\_replstring\.tmpb{?.}{?}}
```

```
548 \ def\.doCNote #1{%
      \_edef\.tmpb{\_csname pword!#1\_endcsname}%
549
      \ ifx\.tmpb\ empty \ else
550
          \_addto\.tmpb{.}\.punctpword
          552
553
          \_ea\_addto \_ea\.Cnotetext \_ea{\.tmpb}%
      \_fi
554
      555
556 }
   \ def\.printCnote{%
557
      \_ifx\.Cnotetext\_empty \_else
558
         \.noteinsert{%
559
            {\_bf \_ea\.nobook\.currverse\_relax \.trymakedest{n:\.currverse}} \.Cnotetext
560
         }%
561
562
      \fi
563 }
564 \ensuremath{\mbox{\mbox{\mbox{$\sim$}}} def\ensuremath{\mbox{\mbox{$\sim$}}} 1/\#2\ensuremath{\mbox{\mbox{$\sim$}}} elax \ensuremath{\mbox{\mbox{$\ll$}}} % only chapter:verse is printed
```

\.reducetword does nothing by default. But \megrednotes re-defines it, so all \Notes are referenced to the beginning of the verse and nothing is searched. The \Notes with the same verse are merged in this case using \.doCNote.

```
op-bible.opm

573 \_def\.reducetword{}

574 \_def\.mergednotes{\_def\.reducetword{\_def\.tword{}}}

575 \_nspublic \mergednotes ;
```

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  $\w$  by default but you can set it to  $\i$  wterm.

```
op-bible.opm
588 \_let\.notelog=\_wlog
```

## 6 Inserting data from format files

```
\fmtpre \{\langle gen-vref\}\{\langle khat\}\} adds \langle what\\rangle to \.fmtprebuff, i.e. at the beginning of the verse. \fmtdd \{\langle gen-vref\}\{\langle khat\}\} adds \langle what\\rangle to \.buff, i.e. at the end of the verse. \fmtins \{\langle gen-vref\}\{\langle text\}\}\{\langle what\}\} 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

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

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

605 \_def\.fmtins#1#2#3{\.newaction{\.gentovref{#1}}{\.replpost{#2}{#3}{\.fmtfail{#3}}}}

606 \_def\.fmtfail#1{\.fmtwarn\_addto\.fmtprebuff{#1}}

607 \_def\.fmtwarn{\.printwarn{\_string\fmtins: \.currverse: The text "\.text" not found}}

608 \_nspublic \fmtpre \fmtadd \fmtins;
```

\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.

```
op-bible.opm
 618 \_newdimen\.centermargin \.centermargin=4em
^{619} \ensuremath{\mbox{\mbox{\mbox{$\sim$}}} \ensuremath{\mbox{\mbox{\mbox{$\sim$}}}} \ensuremath{\mbox{\mbox{$\sim$}}} \ensuremath{\mbox{\mbox{$\sim$}}} \ensuremath{\mbox{\mbox{$\sim$}}} \ensuremath{\mbox{\mbox{$\sim$}}} \ensuremath{\mbox{\mbox{$\sim$}}} \ensuremath{\mbox{\mbox{$\sim$}}} \ensuremath{\mbox{\mbox{$\sim$}}} \ensuremath{\mbox{$\sim$}} \ensuremath{\mbox{\mbox{$\sim$}}} \ensuremath{\mbox{\mbox{$\sim$}}} \ensuremath{\mbox{\mbox{$\sim$}}} \ensuremath{\mbox{\mbox{$\sim$}}} \ensuremath{\mbox{\mbox{$\sim$}}} \ensuremath{\mbox{\mbox{$\sim$}}} \ensuremath{\mbox{\mbox{$\sim$}}} \ensuremath{\mbox{\mbox{$\sim$}}} \ensuremath{\mbox{$\sim$}} \ensuremath{\mbox{\mbox{$\sim$}}} \ensuremath{\mbox{\mbox{$\sim$}}} \ensuremath{\mbox{\mbox{$\sim$}}} \ensuremath{\mbox{\mbox{$\sim$}}} \ensuremath{\mbox{\mbox{$\sim$}}} \ensuremath{\mbox{\mbox{$\sim$}}} \ensuremath{\mbox{\mbox{$\sim$}}} \ensuremath{\mbox{$\sim$}} \ensuremath{\mbox{$\sim$}} \ensuremath{\mbox{$\sim$}} \ensuremath{\mbox{$\sim$}}} \ensuremath{\mbox{\mbox{$\sim$}}} \ensuremath{\mbox{\
 620
                                       \ bgroup
                                      \_def\.centeringmode{y}
 621
 622
                                       \_parindent=0pt
 623
                                       \_leftskip=\.centermargin plus1fill
                                        \_rightskip=\_leftskip
 624
 625 }
 626 \_def\.endcenter{\_par
                                       \_ifx\.centeringmode\_undefined
 627
                                                       \.printwarn{\_noexpand\endcenter ignored: no \_noexpand\begcenter precedes}
 628
  629
                                       \_else \_egroup \_medskip \_fi
 630 }
 631 \_nspublic \begcenter \endcenter;
```

# 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 \.processline  $\langle chapter \rangle$ :  $\langle verse \rangle \langle space \rangle \langle verse-text \rangle$ ^J is repeatedly processed.

```
op-bible.opm
644 \_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 \rangle,
- processes all actions from \alist!\langle full-vref \rangle,
- if \.currchapnum changed, prints \.chapafter (for previous chapter) and \.chapbefore (for new chapter).
- prints verse from \.buff using \.printverse

op-bible.opm

```
659 \ newcount\.chapnum
660 \_def\.processverse #1 #2\_end{%
     \_edef\.currverse{#1}%
661
662
     \.preparechapverse #1
     \_let\.prelinkV=\.currversenum
663
     664
665
     \_fornum \.versefrom..\.verseto \_do{\_csname alist!\.currbook/\.currchapnum:##1\_endcsname}%
666
667
     \_fi
     \_ifnum\.currchapnum=\.chapnum \_else
668
         \_ifnum\.chapnum>1 \.chapafter \_fi
669
         \_let\.prelinkC=\.currchapnum \.chapnum=\.currchapnum\_relax
670
671
         \.chapbefore \ fi
672
     \.printverse
673 }
674 \_def\.preparechapverse #1/#2:#3 {\_def\.currchapnum{#2}%
     \_def\.verseto{}%
675
     \.isdivisin #3-\_iftrue \.defversefromto #3\_end
676
     \_else \_def\.currversenum{#3}\_let\.currversetext=\.currversenum
677
678
679 }
   \_def\.defversefromto #1-#2\_end{%
680
     681
     \_def\.currversenum{#1}\_def\.currversetext{#1--#2}}
682
```

```
690 \_def\.prepareversetext{}
691 \_def\.cnvtext#1#2{\_addto\.prepareversetext{\_replstring\.buff{#1}{#2}}}
692 \_nspublic \cnvtext ;
```

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

\.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
703 \_def\.printverse{%
      \.fmtprebuff % material accumulated by \fmtpre
      \_ifnum\.currversenum=1 \.printbeforefirst \_fi
705
706
      \_quitvmode \_mark{\.currchapnum:\.currversetext}%
707
      \_ifx\.verseto\_empty \.trymakedest{v:\.currverse}%
      \_else \_fornum \.versefrom..\.verseto \_do{%
708
709
          \_wlog{xxxxx v:\.currbook/\.currchapnum:##1}\.trymakedest{v:\.currbook/\.currchapnum:##1}}%
710
      711
      \.prepareversetext
712
713
      \.prebuff\.printCnote\.buff \_space
714 }
715 \_def\.printbeforefirst{%
716
      \_par\_nobreak \_medskip
717
      \.printchapnote
      \_setbox0=\_vtop{\_kern-1.5ex \_ewref\_sxdef{{ch!\.currbook/\_the\.chapnum}{\_string\.mypage}}
718
                       \ hbox{\ setfontsize{at50pt}\ bf\LiRed\ the\.chapnum}}
719
      \_dp0=0pt
720
      \_tmpdim=\.lrmargin
721
      \advance\tmpdim by4pt
722
      \_ifnum\_the\.chapnum>9 \_advance\_tmpdim by19pt \_fi
723
      \_ifodd\_trycs{ch!\.currbook/\_the\.chapnum}{0}
724
         \_moveright\_tmpdim \_line{\_hss\_box0}
725
      \_else \_moveleft\_tmpdim \_box0 \_fi
726
      \_nobreak \_vskip-\_medskipamount
727
      \_nobreak \_nointerlineskip \_noindent
728
729 }
730 \ def\.printchapnote{%
      \_ifcsname chapnote!\.currbook/\_the\.chapnum:0\_endcsname
731
         {\_leftskip=\_parindent plus1fill \_rightskip=\_leftskip
732
733
          \_noindent\_it \_cs{chapnote!\.currbook/\_the\.chapnum:0}\_par}
         \ medskip
734
```

```
735 \_fi
736 }
```

\.chapbefore is processed before each chapter. \.chapafter is processad after each chapetr. User can define values by \ChapterPre and \ChapterPost macros.

```
op-bible.opm
743 \_def\.chapbefore{\_bigskip} \_def\.chapafter{}
```

#### 8 Bible references

The  $\lt$  will be set to active as character equivalent to the macro  $\backslash$ .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 \lambda.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 \lambda.linktext.

```
op-bible.opm
771 \_def\.linktext{\.ltextP\.ltextB\.ltextC\.ltextV\.ltextS\.ltextF\.ltextN}
772 \_def\.bref #1>{\_let\.brefA""}#1>}
773 \_def\.brefA"#1"{\_def\.ltextP{#1}%
                      \ isnextchar{ }{\_addto\.ltextP{~}\_afterassignment\.brefB\_let\.next= }%
774
                                {\_isnextchar{_}{\_def\.brefH{}\_afterassignment\.brefB\_let\.next= }{\.brefB}}%
775
776 }
           \ensuremath{\mbox{def}\.} brefB #1>{% #1 is link-spec
                     \end{constraint} $$\\end{constraint} \end{constraint} $$\\end{constraint} $$\end{constraint} $$\\end{constraint} $$\end{constraint} $$\end
778
779
                      \.isspacein #1 \_iftrue
                                          \.iscolonin #1:\_iftrue \.brefBookChapterVerse #1>%
780
                                          \_else \.brefBookChapter #1>\_fi
781
782
                      \_else \.iscolonin #1:\_iftrue \.brefChapterVerse #1>%
                     \ else \.brefVerse #1>%
783
                     \fi
784
                     \_def\.linkpre{v}%
785
                      \_isnextchar n{\_def\.linkpre{n}\.brefC}%
786
                                {\_isnextchar g{\_def\.linkpre{g}\.brefC}%
787
                                          {\_isnextchar a{\_def\.linkpre{a}\.brefC}%
788
                                                       {\c isnextchar i {\c def \c linkpre{i} \c brefC}{\c brefD}}} %
789
790 }
791 \_def\.brefC{\_afterassignment\.brefD \_let\.next= }
792
793 \_def\.brefBookChapterVerse #1 #2:#3>{\_def\.ltextB{#1~}\.brefChapterVerse #2:#3>}
794 \_def\.brefBookChapter #1 #2>{\_def\.ltextB{#1~}%
                         \_isinlist\nochapbooks{ #1 }\_iftrue
795
                                      \_def\.ltextC{}\_let\.ltextCin=\.ltextnCin \_afterfi{\.brefVerse #2>}%
796
                         \_else \_afterfi{\.brefChapter #2>}\_fi}
797
798 \_def\.brefChapterVerse #1:#2>{\_def\.ltextC{#1:}\.brefVerse #2>}
799
          \_def\.brefVerse #1>{%
                       \.isdivisin #1-\_iftrue \.brefFromTo #1>%
800
                     \_else \.versedef#1\_relax\_fi
801
802 }
          \ def\.brefChapter #1>{%
803
                      \.isdivisin #1-\_iftrue \.brefFromTo #1>\_let\.ltextC=\.ltextV
804
                      \ else \ def\.ltextC{#1}\ fi
805
                     \end{area} $$ \end{area} \end{area} $$ \en
806
807 }
808 \_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 \\rmacro.

```
816 \_def\.versedeff {\_afterassignment\.versedefB \_tmpnum=0}
817 \_def\.versedefB #1\_relax{\_edef\.ltextV{\_the\_tmpnum}\_def\.ltextS{#1}}
```

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

op-bible.opm

824 \\_def\.brefD{%

825 \\_ifnum 0\.ltextV=0 \\_def\.ltextV\}\\_fi

826 \\_if a\.linkpre \\_ifx\.ltextV\\_empty \\_else \\_edef\.ltextC\.ltextV:}\\_def\.ltextV\}\\_fi\\_fi

827 \\_edef\.linkfspec\\_ea\.ltextBin\.ltextB-\/\_ea\.ltextCin\.ltextC:\/\_ea\.ltextVin\.ltextV:\}%

828 \\_brefL

829 }

830 \\_def\.ltextBin #1~#2/\\_ifx^#1^\.prelinkB \\_else #1\\_immediateassignment\\_def\.prelinkB\\#1\\_fi\}

831 \\_def\.ltextCin #1:#2/\\_ifx^#1^\.prelinkC \\_else #1\\_immediateassignment\\_def\.prelinkC\\\#1\\_fi\}

832 \\_def\.ltextVin #1:#2/\\_ifx^#1^\.prelinkV \\_else #1\\_immediateassignment\\_def\.prelinkV\\\#1\\_fi\}

833 \\_def\.ltextCin #1:#2/\\_ifx^#1^\.prelinkC:\\_immediateassignment\\_let\.ltextCin=\.ltextCin\}

84 \\_let\.ltextCin=\.ltextCin

\.prelinkB is \langle book-mark \rangle of last referenced book. \.prelinkC is \langle chapter-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.

```
op-bible.opm
844 \_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
852 \_newtoks\.everybref
853 \_def\.oncebref{}
854 \_nspublic \everybref;
```

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

 $\. renumlinktext \langle full-vref-ori\rangle \_ relax \langle full-vref-modified\rangle \_ relax does re-calculation of the parts of the \.linktext macro.$ 

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:  $\langle book\rangle/\langle chapter\rangle$ .

If the book mark is declared by \vdef then the printed version of the book mark is transformed depending on the current \tmark. This is done by the the \.newlinkB macro.

\.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 878 \\_def\.brefL{% \\_edef\.linkfspecm{\\_ea\.renumvref\.linkfspec\\_relax}% \\_ifx\.linkfspec\.linkfspecm \\_else 880 \\_ea\\_ea\\_ea\.renumlinktext \\_ea\.linkfspec \\_ea\\_relax \.linkfspecm \\_relax 881 \\_let\.linkfspec=\.linkfspecm 882 883 \\_ifx\.ltextV\\_empty \\_ifx\.ltextC\\_empty \\_else \\_ea\.linkfspecone \.linkfspec\\_end \\_fi\\_fi 884 885 \\_if a\.linkpre\\_relax \\_ea\.linkfspecarticle \.linkfspec\\_end \\_fi 886 \\_if i\.linkfpre\\_relax \\_ea\.linkfspecintro \.linkfspec\\_end \\_fi \\_ifx \.ltextB\\_empty \\_else \\_ea \.newltextB \.ltextB \\_fi 887 888 \.linklog{\.sspace <\\_unexpanded\\_ea{\.linkspec}>\.linkpost = [\.linkpre:\.linkfspec]% {\\_ifx\.brefH\\_empty \.ltextP \\_else \.linktext\\_fi}}% 889 \.ensuredest \.createlink 890 891 } 892 \\_def\.linkfspecone #1:#2\\_end {\\_def\.linkfspec{#1:1}\\_def\.prelinkV{1}} 893 \\_def\.linkfspecarticle #1/#2:#3\\_end {\\_def\.linkfspec{#1/#2}} 894 \\_def\.linkfspecintro #1/#2\\_end {\\_def\.linkfspec{#1/}} 895 896 \\_def\.renumlinktext #1/#2:#3\\_relax #4/#5:#6\\_relax{% \\_ifx\.ltextC\\_empty \\_else \\_def\.ltextC{#5:}\\_fi

```
\ def\.ltextV{#6}%
898
      \_ifx\.ltextN\_empty \_else
899
         \_ifx\.ltextF\.ltextDD
900
              \ isinlist\.ltextN{:}\ iftrue
901
                \_ifcsname rn!\tmark!#1/\.ltextN\_endcsname \_edef\.ltextN{\_cs{rn!\tmark!#1/\.ltextN}}%
902
903
             904
         \_else \_let\.tmp=\_ignoreit % \.ltextN is a list of verses, for example 7,9,13
905
906
              \_ea\_foreach\.ltextN,\_do ##1,{\_edef\.tmp{\.tmp,\_the\_numexpr#6+##1-#3}}%
             \_let\.ltextN=\.tmp
907
         \ fi
908
909
910 }
911 \_def\.ltextDD{--}
913 \_def\.newltextB \#1^{\ensuremath{\columnwd}} \#1^{\ensuremath{\columnwd}} \#1^{\ensuremath{\columnwd}}
914
915 \_def\.sspace\\_space\\_space\\_space\}
916 \_def\.linkpost{\_if v\.linkpre \_else \.linkpre\_fi \_space}
```

\tracinglinks and \notracinglinks are defined here.

```
op-bible.opm

922 \_def\tracinglinks{\_let\.linklog=\_wlog}

923 \_def\notracinglinks{\_let\.linklog=\_ignoreit}

924 \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! \langle book!

```
op-bible.opm

935 \_def\.createlink{{%

936 \_ifx\.brefH\_empty \_let\.linktext=\.ltextP\_fi

937 \_ea\.isprintedbook\.linkfspec \_iftrue

938 \_link[\.linkpre:\.linkfspec]{\_ilinkcolor}{\.linktext}%

939 \_else {\_ilinkcolor\.linktext}\_fi}%

940 }

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

942 \_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} to the special file \jobname.xrf. And the macro \pg saves immediatelly \sdef{pg:\lambda ink}:\lambda full-vref\rangle}{\lambda verset} to this file. This .xrf file is read before standard .ref file. All link destinations save \.Xdest{\lambda full-vref\rangle} to the .ref file. The macro \.Xdest does nothing if \pg:\lambda ink\rangle:\lambda full-vref\rangle is not defined (from .xrf file). Otherwise, it is defined as a correct pageno. This result is used in the \pg macro. If \lambda ink\rangle:\lambda full-vref\rangle is not defined, no link destination is crated. First TeX run creates .ref and .xrf files and does not create any hyperlink destinations. Second TeX run uses data from these files and creates correct hyperlinks and page numbers.

```
op-bible.opm
962 \_newwrite\.xrf
963 \_immediate\_openout\.xrf=\_jobname.xrf
965
966 \_def\.ensuredest{\_immediate\_write\.xrf{\_string\_sdef{\.linkpre:\.linkfspec}{}}}
967 \_refdecl{
       \_isfile{\_jobname.xrf}\_iftrue \_input{\_jobname.xrf}\_fi^^J
968
969
       \_def\.Xdest#1{\_ifcsname pg:#1\_endcsname \_sxdef{pg:#1}{\_ea\_usesecond\_currpage}\_fi}^^J
       \_def\.mypage{\_ea\_usesecond\_currpage}
970
971 }
972 \ def\.trymakedest#1{%
       \_ifcsname #1\_endcsname \_dest[#1]\_ea\_glet\_csname #1\_endcsname \_undefined \_fi
973
      \_ewref\.Xdest{{#1}}%
974
```

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 TeX run.

op-bible.opm

```
983 \_def\.pg{%

984 \_ifcsname pg:\.linkpre:\.linkfspec\_endcsname

985 {\_edef\.linktext{\_cs{pg:\.linkpre:\.linkfspec}}\_let\.brefH=\_relax \.createlink}%

986 \_else {\Red ??}\_fi

987 \_immediate\_write\.xrf{\_string\_sdef{pg:\.linkpre:\.linkfspec}{???}}%

988 }

989 \_nspublic \pg ;
```

### 9 Language variants

 $\begin{tabular}{ll} $$ \operatorname{number-of-variants} & {\langle tmark-A \rangle} & {\langle tmark-B \rangle} & {\langle tmark-C \rangle} & \dots \\ & \operatorname{numvariants} & \operatorname{number-of-variants} & \operatorname{does} \operatorname{def}\operatorname{tmarkA}{\langle tmark-A \rangle} & \operatorname{def}\operatorname{var}!1{\langle tmarkA \rangle} & \operatorname{def}\operatorname{var}!2{\langle tmark-B \rangle} & \operatorname{def}\operatorname{var}!3{\langle tmark-C \rangle} & \text{etc.} \\ \end{tabular}$ 

```
op-bible.opm
1001 \_newcount\.numvariants
  1002 \_def\.variants{\_tmpnum=0 \_afterassignment\.variantsA \.numvariants}
  1003 \_def\.variantsA{%
  1004
                                            \_ifnum\_tmpnum<\.numvariants
                                                              \_advance\_tmpnum by1
  1005
                                                            \footnote{Maintenance} \cline{Maintenance} \
  1006
  1007
                                           \_fi
  1008 }
  1009 \_def\.variantsB#1#2{%
                                           1010
  1011
                                           \ensuremath{\ }\ \_else \_sxdef{var!#1}{#2}%
                                            \_fi
  1012
  1013
                                           \.variantsA
  1014 }
 1015 \_nspublic \variants ;
```

```
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 1032 \ def\.vdef#1{\ def\.tmp{#1}% 1033 \\_ifcsname v!\\_trycs{var!2}{}!\.tmp\\_endcsname \.printwarn{\\_noexpand\vdef used secondly for phrase {\.tmp}, ignored}\\_fi 1034 1035 \\_tmpnum=1 \\_ea\.vdefA 1036 } 1037 \ def\.vdefA{% \\_ifnum\\_tmpnum<\.numvariants 1038 \ advance\ tmpnum by1 1039 1040 \\_afterfi{\.vdefB{\\_the\\_tmpnum}}% 1041 1042 } 1043 \\_def\.vdefB#1#2{\\_def\.tmpa{}% 1045 \\_ifx\.tmpa\\_empty  $\ \in \frac{\pi^{2^{-1}}}{\pi^{2^{-1}}}$ 1046 \\_unless \\_ifcsname v!\\_cs{var!#1}!\.tmp\\_endcsname 1047 1048  $\fi$ 1049 \ ea\.vdefA 1050 \\_else \\_errmessage{\\_string\vdef: too few parameters. To be read again: \\_string#2}% 1051 1052  $\ensuremath{\ }$ \_ea\.tmpa 1053 1054 } \\_def\.prevcs #1#2{\\_ifnum#1=2 #2\\_else \\_cs{v!\\_cs{var!\\_the\\_numexpr#1-1\\_relax}!#2}\\_fi} 1056 1057 \\_nspublic \vdef ;

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

Note that if  $\t expands to \langle t\text{-}markA \rangle$  (used in the  $\t expands to the <math>\t expands to the \langle phrase \rangle$  directly.

 $\xspace \xspace \xsp$ 

```
op-bible.opm

1070 \_def\.x/#1/{\_trycs{v!\tmark!#1}{\.xA#1/}}

1071 \_def\.xA#1/{#1\_ifx\tmarkA\_undefined \_else \_ifx\tmarkA \_else

1072 \.printwarn{\_string\x/#1/ -- this phrase is undefined by \_csstring\vdef}%

1073 \_fi\_fi

1074 }

1075 \_nspublic \x ;
```

\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
1088 \_def\.ww{%
                            \ ifx\.varnum\ undefined \.setvarnum \ fi
1089
1090
                             \ tmpnum=0
                             \ ifx\.nextww\ undefined \ ea\.wwA
1091
                             \_else \.printwarn{Only single \_csstring\\ww must be before \_csstring\\Note}%
1092
1093
                                            \_ea\.wwB \_fi
1094 }
1095 \ensuremath{\mbox{\mbox{\mbox{$1$}}} 1095 \ensuremath{\mbox{\mbox{\mbox{$-$}}} def\ensuremath{\mbox{\mbox{$-$}}}.wwA#1#2 {\ensuremath{\mbox{\mbox{$-$}}} advance\ensuremath{\mbox{$-$}} tmpnum by1
1096
                             \_ifx\.nextwwA\_empty \_let\.nextwwA=\.nextww \_else \_ea \.redefwwA #2\_end \_fi
1097
                             \_ifnum\.varnum=\_tmpnum \_ifnum\_tmpnum<\.numvariants \_ea\_ea\_ea \.wwB \_fi
1098
1099
                             \_else \_ea \.wwA \_fi
1100 }
1101 \_def\.wwB#1 {\_advance\_tmpnum by1
1102
                            \_ifnum\_tmpnum<\.numvariants \_ea\.wwB \_fi
1103 }
\label{local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_loc
1105
1106 % \_outer\_def\ww{\.ww} % will be done at the end of this macro file
```

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 and more macros are defined as \outer in order to better diagnose mistakes with their parameters. But we want to skip such objects in \switch parameters. This is the reason why we set \\_suppressoutererror=1 during the \switch is processed.

```
op-bible.opm
1120 \_newtoks\.switchD
1121 \_def\.switch {\_let\.switchN=\.switchA \_suppressoutererror=1 \.switchN}
\label{longle} $$1122 \leq \label{longle} $$1122 \leq \label{longle}.switch = {\#2\leq \label{longle}.switch} $$
        \_ifx\_relax#1\_relax \_the\.switchD
1123
        \_else \_foreach #1,\_do ##1,{\_def\tmp{##1}\.switchC}%
1124
1125
        \ fi
        \_futurelet\.next\.switchB
1126
1127 }
\label{likelike} $$1128 \end{switchB}_{ifx}.next\_bgroup \end{switchN \_else \_suppressoutererror=0 \_fi}
1129 \_long\_def\.switchI #1#2{\_futurelet\.next\.switchB}
1130 \_def\.switchC{\_ifx\tmp\tmark \_the\.switchD \_fi}
1131
1132 \_nspublic \switch;
```

\.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

1140 \_def\.setvarnum{\_gdef\.varnum{0}%

1141 \_ifnum\.numvariants=0 \_gdef\.varnum{1}\_wlog{There is only single language variant (1)}%

1142 \_else
```

```
\_tmpnum=0
1143
1144
         \ loop
            \ advance\ tmpnum by1
1145
            \_ea\_ifx \_csname var!\_the\_tmpnum\_endcsname \tmark \_xdef\.varnum{\_the\_tmpnum}\_fi
1147
           \_ifnum\_tmpnum<\.numvariants \_repeat
         \_ifnum \.varnum=0 \_errmessage{\_noexpand\tmark isn't set, \_noexpand\.setvarnum failded}%
1148
1149
         \_else \_wlog{Language variant set by \_string\tmark{\tmark} (\.varnum)}\_fi
1150
1151 }
\def \rn!<t-mark>!<full-vref>{<chap-num>:<from>}
    \def \rn!<t-mark>!<full-vref+1>{<chap-num>:<from+1>}
    \def \rn!<t-mark>!<full-vref+2>{<chap-num>:<from+2>}
    ... etc.
    \def \rn!<t-mark>!<full-vref+n>{<chap-num>:<to>}
                                                                                   op-bible.opm
1165 \_def\.renum #1 #2:#3 = #4 #5:#6-#7 {%
      \_tmpnum=#3\_relax
      \_fornum #6..#7 \_do {\_sxdef{rn!#4!#1/#2:\_the\_tmpnum}{#5:##1}\_incr\_tmpnum}%
1167
1168 }
1169 \ nspublic \renum :
```

### 10 Inserting notes to the page

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

```
op-bible.opm

1178 \_newinsert \.noteins

1179 \_skip\.noteins=\_bigskipamount  % noterule height

1180 \_count\.noteins=500  % two columns

1181 \_dimen\.noteins=\_maxdimen  % full page of notes allowed
```

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
1194 \_def\.noteinsert #1{\_insert\.noteins{%
       \.noteset
1195
1196
       \_vbox to\_ht\_strutbox{}\_nobreak \_vskip-\_baselineskip
       #1\_unskip\_par \_nobreak \_vskip-\_baselineskip
1197
1198
       \_hbox{\_lower\_dp\_strutbox\_vbox{}}
       \_penalty0
1199
1200 }}
1201 \_def\.noteset{\Heros\cond \_scalemain \_typoscale[800/800] % Heros condensed 80%
       \Black \ nobreak
1202
1203
       \_widowpenalty=20 \_clubpenalty=20
       \_leftskip=0pt \_rightskip=0pt \_parfillskip=0pt plus1fill
1204
       \_parindent=0pt
1205
       \ lineskiplimit=-3pt
1206
1207
       \_hsize=.5\_hsize \_advance\_hsize by-1em\_relax % two columns
1208
       \_everypar{}
```

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
    \_addto\_pagecontents{%
        \ ifvoid\.noteins \ else
1231
1232
           \_vskip\_skip\.noteins \noterule
           \_setbox\.noteins=\_vbox{\_penalty0 \_unvbox\.noteins \_vfil}
1233
1234
           \_splittopskip=12pt
1235
           \_setbox0=\_vsplit\.noteins toOpt % adding \splittopskip to \.noteins
           \ensuremath{\texttt{def}}\_\ensuremath{\texttt{Ncols}\{2\}}
1236
1237
           \_dimen0=.5\_ht\.noteins \_setbox6=\_box\.noteins
           \_vskip\_splittopskip
1238
1239
           \ balancecolumns
1240
        \ fi
        \_unless\_ifvoid\.botins \_unvbox\.botins
1241
        \_else \_vskip Opt plus1filll minus8pt \_fi
1242
1244 \_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

1256 \_newinsert\.botins

1257 \_def\.botinsert{\_setbox0=\_vbox\_bgroup}

1258 \_def\.endbot{\_par\_egroup}

1259 \__insert\.botins{\_splittopskip=0pt \_penalty100}

1260 \_hrule height0pt \_nobreak\_medskip\_bigskip \_unvbox0

1261 }%

1262 }

1263 \_skip\.botins=\_zoskip % no space added when a topinsert is present

1264 \_count\.botins=1000 % magnification factor (1 to 1)

1265 \_dimen\.botins=\_maxdimen % no limit per page
```

\putImage \langle chatper\rangle: \langle verse \rangle \langle title \rangle \rangle (label) \rangle (label) \rangle (label) \rangle (verse) \rangle verse \rangle \rangle \rangle (label) \rangle (label) \rangle (label) \rangle (label) \rangle (label) \rangle (label) \rangle verse \rangle verse \rangle (label) \rangle (label) \rangle verse \rangle verse \rangle (label) \rangle (label) \rangle verse \rangle verse \rangle \rangle verse \rangle verse \rangle verse \rangle verse \rangle \rangle verse \rangle verse \rangle verse \rangle verse \rangle \rangle verse \rangle verse \rangle verse \rangle verse \rangle \rangle verse \rangle verse \rangle verse \rangle verse \rangle \

```
op-bible.opm
                \_def\.putImage #1 #2#3[#4]#5(#6)#7{% chap:verse {Title} [label] (params) {image-file.pdf}
1278
1279
                            \_edef\.fullvref{\.gentovref{#1}}%
                            \_edef\.fullvrefm{\_ea\.renumvref\.fullvref\_relax}%
1280
                            \end{array} \end
1281
1282 }
1283 \ def\.doImage #1[#2](#3)#4{% {Title}[label](params){image-file.pdf}
                            \.botinsert
                                        \.botTitle{#1}[#2]%
1285
                                        \_kern3pt \_nobreak
                                       \hox{\picw=\hsize #3\inspic{#4}}%
1287
1288
1289 }
              \_def\.botTitle#1[#2]{\_hbox{\.captionfont
1290
                            1291
                            \_rlap{\Grey \_vrule height1.2em depth.5em width\_hsize}\White\_kern12pt #1}%
1292
1293 }
1294 \ picdir={images/}
1295 \ensuremath{\mbox{\mbox{$\setminus$}}} 1295 \ensuremath{\mbox{$\setminus$}} 1295 \ensuremath{\mbox{\mbox{$\setminus$}}} 1295 \ensuremath{\mbox{$\setminus$}}
1296
1297 \_nspublic \putImage ;
```

\putArticle \( \chinor{chapter} \: \langle verse \rangle \{\langle title \rangle \} \[ \langle label \rangle \] (\( \langle params \rangle \)) inserts an article given in the file articles-\*.tex signed by \( \text{Article} \[ \langle label \rangle \]. The article starts at the page where \( \chinor{chapter} \: \langle verse \rangle \) 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 \.newaction{ $\langle full-vref \rangle$ }{\.doArticle{ $\langle title \rangle$ }[ $\langle label \rangle$ ]( $\langle params \rangle$ )}.

```
op-bible.opm

1321 \_newcount\.articlenum

1322 \_def\.putArticle #1 #2#3[#4]#5(#6){% chap:verse {Title} [number] (params)

1323 \_edef\.fullvref{\.gentovref{#1}}%

1324 \_edef\.fullvrefm{\_ea\.renumvref\.fullvref\_relax}%

1325 \_ea\.newaction\_ea{\.fullvrefm}{\.doArticle{#2}[#4](#6)}%

1326 }

1327 \_nspublic \putArticle ;
```

The  $\dots$  ( $\dots$ ) [( $\dots$ )] (( $\dots$ )] inserts the article to one or more pages by the pair  $\begin{align*}{l} \begin{align*}{l} \$ 

```
op-bible.opm
1344 \_def\.doArticle#1[#2](#3){% {Title}[number](params)
1345
      \_incr\.articlenum
      \.botinsert
1346
         \_def\.botDest##1[##2]{\.trymakedest{a:\.currbook/##2}}
1347
         \_parindent=12pt \_iindent=\_parindent
1348
         \sc 0=\sc 458\_hsize \_emergencystretch=1em
1349
            \_hbadness=6000 \_baselineskip=\_dimexpr\_baselineskip plus1pt
1350
1351
            \_def\Article[##1]{\_endinput}
            \_penalty0
1352
            \_long\_def\.searcharticle##1\Article[#2]{}
1353
1354
            \_ea\.searcharticle \_input \articlefile \_relax}
         \_splittopskip=12pt
1355
         \_setbox1=\_vsplit0 to0pt % adding \splittopskip
1356
         \_tmpdim=\_vsize \_advance\_tmpdim by-24pt % \.botTitle height plus above/below skips
1357
         1358
         \ else
1359
1360
            \ fi
1361
         \_multiply\_tmpnum by2 % number of columns
1362
1363
         \_edef\_Ncols{\_the\_tmpnum}
         \_dimen0=\_expr{1/\_Ncols}\_ht0 \_setbox6=\_box0 % height of each two-columns part
1364
         \_setbox0=\_vbox{\_balancecolumns}
1365
         \_tmpdim=\_ht0 \_advance\_tmpdim by1.2\_baselineskip
1366
         \_setbox0=\_vbox{\_unvbox0 \_global\_setbox2=\_lastbox}
1367
         \scalebox0=\hbox{\unhbox2}
1368
             \_fornum 1..\_Ncols \_do {\_unskip \_global\_setbox1##1=\_lastbox}}
1369
             \_fornumstep -2: \_Ncols..1 \_do {
1370
                \_hrule heightOpt\_kern5pt\_nobreak\_vfill
1371
1372
                1373
                \_kern3pt \_nobreak
1374
                \ hbox to\ hsize{%
                   \_rlap{\LightGrey \_vrule height\_tmpdim depth6pt width\_hsize}%
1375
                   \_kern\_parindent
1376
1377
                    \ \ box1##1\_hss\_box1\_the\_numexpr##1-1
                   \_kern\_parindent
1378
1379
1380
                 \_break
             }
1381
      \.endbot
```

```
1383 }
1384 \_def\.roundexpr#1{\_ea\_ea\_ea\.roundexprA\_expr{#1}\_relax}
1385 \_def\.roundexprA#1.#2\_relax{\_ifnum#1=0 0\_else #1\_fi}
```

## 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{ $\langle full\text{-}vref \rangle$ }{\dotopCite{ $\langle text \rangle$ }}.

```
op-bible.opm

1396 \_def\.putCite #1 #2{% chap:verse {text}}

1397 \_edef\.fullvref{\.gentovref{#1}}%

1398 \_edef\.fullvrefm{\_ea\.renumvref\.fullvref\_relax}%

1399 \_ea\.newaction\_ea{\.fullvrefm}{\.dotopCite{#2}}%

1400 }

1401 \_nspublic \putCite ;
```

\.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!\citenum\}{\lambda}.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
1413 \_newcount\.citenum
1414 \_def\.dotopCite #1{%
1415
       \_topinsert
      \_typosize[12/16]\_bi
1416
1417
      \ incr\.citenum
      \_ifodd \_trycs{ct!\_the\.citenum}{0}\_relax
1418
          \_leftskip=.3\_hsize plus1fil \_parfillskip=0pt
1419
          \_rlap{\_hskip\_hsize \_kern-\_leftskip \_copy\.rqqbox}\_hfill
1421
1422
1423
          \_let\quotedby=\.quotedbyright
1424
          \_rightskip=.3\_hsize plus 1fil
1425
          \_noindent \_llap{\_copy\.lqqbox}%
1426
1427
      {\.printCite{#1}\_unskip}\_par
       \_ewref\_sxdef{{ct!\_the\.citenum}{\_string\.mypage}}%
1428
1429 %
       \vskip-.3\baselineskip
      \_endinsert
1430
1431 }
1433 \_def\.printCite#1{{\Grey#1}}
```

The \.lqqbox and \.rqqbox 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

1443 \_newbox\.lqqbox

1444 \_newbox\.rqqbox

1445 \_setbox\.lqqbox=\_hbox{\_lower3pt\_hbox{\_setfontsize{at70pt}\_bf\LiRed_,}}

1446 \_setbox\.rqqbox=\_hbox{\_kern2pt\_lower38pt\_hbox{\_setfontsize{at70pt}\_bf\LiRed_,}}

1447 \_ht\.lqqbox=0pt \_dp\.lqqbox=0pt

1448 \_ht\.rqqbox=0pt \_dp\.rqqbox=0pt

1449

1450 \_def\quotedby{\_par}

1451 \_def\.quotedbyright#1{%}

1452 \_unskip\_nobreak\_hfill\_penalty0\_hskip2em

1453 \_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  $\alpha$  to the variant  $\end{left}$  and  $\alpha$  is processed or ignored. This depends on the parity of the current page, which is restored from .ref file and saved to the macro  $\cite{cp!}\langle article-num\rangle!\langle label\rangle$ .

op-bible.opm

```
1467 \ def\.Cite #1#2{\ sdef{c!\ the\.articlenum!#1}{#2}}
1468 \_def\.insertCite #1#2{\_def\.citelabel{#1}%
                \_ifx\_left#2\.insertCiteleft
1469
                \_else \_ifx#2\_right\.insertCiteright\_else
1470
                       \_errmessage{\_noexpand\insertCite#1: \_noexpand\left or \_noexpand\right expected}%
1471
1472
                \fi
1473 }
1474 \_def\.insertCiteleft {%
1475
                \_ifnum\.citepg=1 \.printwarn{\_noexpand\.insertCite\.citelabel: \_noexpand\.swapCites activated}\_fi
                \_ifodd \_numexpr\_trycs{cp!\_the\.articlenum!\.citelabel}{0}+\.citepg\_relax
1476
                \_else \.insertCitelr \_left \_fi
1477
1478 }
         \_def\.insertCiteright{%
1479
                \_ifodd \_numexpr\_trycs{cp!\_the\.articlenum!\.citelabel}{0}+\.citepg\_relax
1480
1481
                \.insertCitelr \_right \_fi
1482 }
        \_def\.insertCitelr#1{\_unskip\_vadjust{\_vbox{%
1483
1484
                \_ewref\_sxdef{{cp!\_the\.articlenum!\.citelabel}{\_string\.mypage}}%
1485
                \ vskip6pt
1486
                \_advance\_hsize by\_parindent
                \_typosize[12/16]\_bi\Grey
1487
                          \_ifx#1\_left
1488
                                  1489
                                  \_rightskip=\_parindent plus1fil \_leftskip=0pt
1490
                                  \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
1491
                                         \_medskip \_noindent
1492
                                         \_llap{\_copy\.lqqbox}\_ignorespaces
1493
                                        1494
                                  \_hbox{\_kern-\_parindent\_rlap{\White
1495
                                        \_vrule height\_ht0 width\_hsize}\_box0}%
1496
1497
                                  \_leftskip=\_parindent plus1fil
1498
                                  \_parfillskip=0pt
                                  \_setbox0\_vbox{%
1500
                                         \_medskip \_noindent
1502
                                         \_rlap{\_hskip\_hsize\_kern-\_parindent\_copy\.rqqbox}\_hfill
1503
                                         \_ignorespaces \.printCite{\_cs{c!\_the\.articlenum!\.citelabel}}\_medskip}%
1504
                                  \_rlap{\rlap{\White \_vrule height\_ht0 width\_hsize}\_box0}%
                           \ fi
1505
1506
                \_vskip6pt
1507 }}}
1508 \_def\.swapCites{\_def\.citepg{1}}
1509 \_def\.citepg{0}
1511 \_nspublic \Cite \insertCite ;
```

#### Insertions into the intro text

op-bible.opm

```
1519 %% TBN page 236
1520
1521 \_newcount\.shapenum
1522 \_newdimen\.ii \_newdimen\.w
1523 \_def\.oblom #1 od #2 odsadit #3 {\_par \.ii=#1 \.w=\_hsize
       \_ifdim\.ii>\_zo \_advance\.w by-\.ii
1524
       \ else \ advance\.w by\.ii \.ii=\ zo \ fi
1525
       \.shapenum=1 \_tmpnum=0 \_def\.shapelist{}
1526
       \_loop \_ifnum\.shapenum<#2 \_edef\.shapelist{\.shapelist\_zo\_hsize}%
1527
          \_advance\.shapenum by1 \_repeat
1528
       \_loop \_edef\.shapelist{\.shapelist\.ii\.w}%
1529
1530
          \_advance\_tmpnum by1 \_ifnum\_tmpnum<#3 \_repeat
1531
       \_advance\.shapenum by#3 \_edef\.shapelist{\.shapelist\_zo\_hsize}
       \.doshape}
1532
1533 \_def\.doshape{\_parshape \.shapenum \.shapelist}
1534 \_newcount\.globpar
1535 \_ifx\_partokenset \_undefined \_def\.partoken{\par} \_else \_def\.partoken{\_par} \_fi
\label{loss} $$ \end{\sum_{global\.globpar=0 \ ea\_def\.partoken(\_ifhmode\.shapepar\_fi)}} $$
1537 \_def\.shapepar{\_prevgraf=\.globpar \_parshape\.shapenum\.shapelist
       \_endgraf \_global\.globpar=\_prevgraf
1538
1539
       \_ifnum \_prevgraf>\.shapenum \_ea\_let\.partoken=\_endgraf \_fi
1540 }
```

```
1541
           \_def\.Citehereleft #1 (#2) #3{{
1543
                   \_par
                                         1544
                                         \_rightskip=\_parindent plus1fil \_leftskip=0pt
1545
1546
                                         \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
1547
                                                 \t 12/16 \t 5
                                                 \_hsize=.5\_hsize
1548
1549
                                                 \_medskip \_noindent
                                                 \_llap{\_copy\.lqqbox}\_ignorespaces
1550
                                                 \.printCite{#3}\_medskip}}%
1551
                   \_tmpdim=\_ht0 \_advance\_tmpdim by\_baselineskip
1552
                   \_xdef\.lines{\_the\_numexpr \_number\_tmpdim / \_number\_baselineskip \_relax}%
1553
                   \verb|\nointerlineskip|_vbox toOpt{\end{toOpt}_kern#1\end{to}_baselineskip #2}
1554
                                         \_hbox{\_rlap{\White
1555
                                                 \_kern-3mm\_vrule height\_ht0 width.5\_hsize}\_box0}%
1556
                   \_vss}}
1557
1558
                   \t \ _tmpdim=\_hsize \_advance\_tmpdim by-2\_leftskip
                   \.oblom {.5\_tmpdim} od #1 odsadit {\.lines}
1559
1560 }
1561 \_def\.Citehereright #1 (#2) #3{{
1562
                                         \end{area} $$ \end{area} \end{area} $$ \en
1563
1564
                                         \_leftskip=\_parindent plus1fill \_rightskip=0pt
                                         1565
                                                 \_typosize[12/16]\_bi\Grey
1566
1567
                                                 \_hsize=.5\_hsize
                                                 \_vskip\_medskipamount \_rlap{\_kern\_hsize\_copy\.rqqbox}\_vskip-\_medskipamount
1568
                                                 \verb|\.printCite{\_noindent\_ignorespaces#3}\_medskip}|%
1569
                   \_tmpdim=\_ht0 \_advance\_tmpdim by\_baselineskip
1570
                   \label{lines} $$ \sum_{\substack{numexpr \\ number\\ tmpdim / number\\ baselineskip \\ relax} % $$
1571
                   \verb|\nointerlineskip|_vbox toOpt{\end{toOpt}_kern#1\end{to}_baselineskip #2}
1572
                                 \_hbox to\_hsize{\_hss
1573
                                         \_llap{\White \_vrule height\_ht0 width.5\_hsize \_kern-3mm}%
1574
1575
                                         \_llap{\_box0}}
1576
                   \ vss}}
1577
                   \_tmpdim=\_hsize \_advance\_tmpdim by-2\_leftskip
1578
                   \.oblom {-.5\_tmpdim} od #1 odsadit {\.lines}
1579 }
1583 \_nspublic \Citehere;
1584
1585 \_def\.insertBot #1#2[#3]#4(#5)#6{% {Title} [label] (params) {data}
                   \.botinsert
1586
1587
                            \.botTitle{#1}[#3]%
                            \_kern3pt \_nobreak
1588
1589
                           \_vbox{\_picwidth=\_hsize #5 #6}%
                    \.endbot
1590
1591 }
1592 \_def\.putBot #1 #2#3[#4]#5(#6)#7{% chap:verse {Title} [label] (params) {image-file.pdf}
                   \_edef\.fullvref{\.gentovref{#1}}%
                   \_edef\.fullvrefm{\_ea\.renumvref\.fullvref\_relax}%
1594
                   \ensuremath{\ensurem1} \_ea\.newaction\_ea{\.fullvrefm}{\.insertBot{#2}[#4](#6){#7}}%
1595
1596 }
1597
1598 \_def\.c[#1/#2]#3{% text podel krivky: \c[init-rotace/repetice]{text}
                   1599
1600
                                                         \_ea\_foreach\.tmpb\_do{##1\.tmpa}}\_pdfrestore \_kern10mm
1601 }
1603 \_nspublic \insertBot \putBot \c ;
```

\.printintro macro (by default) prints the itroduction of th book from the \introfile, prints the title "Introduction" (depending on the current language and puts all introduction text between \.begblock and \.endblock.

```
op-bible.opm
```

```
\.begblock
1613
           \_dest[i:\.currbook/]
1614
1615
           \.chaptit{\_mtext{intro}}%
           \ input{\introfile}
        \.endblock
1617
1618 }
```

Text block with grey background splittable to more pages is between \.begblock and \.endblock macros. It is used for introduction text. See also OpTeX trick 0031.

op-bible.opm

```
1626 \_newcount\.blocklevel % nesting level of blocks
1627 \_def\.begblock{\_par\_bgroup
               \_advance\.blocklevel by1 \_advance\_leftskip by\_iindent \_rightskip=\_leftskip
               \ medskip
1629
1630
               \_pdfsavepos \_ea\_wref\_ea\.Xblock\_ea{\_ea{\_the\.blocklevel}B{\_the\_pdflastypos}}
1631
               \_nobreak \_medskip
1632 }
1633 \endblock{\par\nobreak\medskip}
               \_pdfsavepos \_ea\_wref\_ea\.Xblock\_ea{\_ea{\_the\.blocklevel}E{\_the\_pdflastypos}}
1634
1635
               \_medskip \_egroup
1636 }
1637 \_refdecl{%
               \_def\.Xblock#1#2#3{\_ifnum#1=1 \_edef\.tmp{frm:\_ea\_ignoresecond\_currpage}^^J
1638
                     \_unless\_ifcsname \.tmp \_endcsname \_sxdef{\.tmp}{}\_fi^^J
                     \sc {\tmp}{\cs{\tmp}}$
1640
1641 }
1642 \_newdimen\.frtop \_newdimen\.frbottom % positions of top and bottom text on the pages
1643 \_def\.frcolor{.93 g } % light grey -- color of blocks.
1644 \_pgbackground={%
               \_slet{_opb_tmp}{frm:\_the\_gpageno}
1645
               \_ifx\.tmp\_undefined \_def\.tmp{}\_fi
1646
               \.frtop=\_dimexpr \_pdfpageheight-\_voffset+\_smallskipamount\_relax
1647
               \.frbottom=\_dimexpr\_pdfpageheight-\_voffset-\_vsize-\_medskipamount\_relax
               \_ifx\.frnext y \_edef\.tmp{B{\_number\.frtop}\.tmp}\_global\_let\.frnext n\_fi
1649
1650
               \_ea\.printframes \.tmp B{0}E{\_number\.frbottom}
               \_ifx\.frameslist\_empty \_else
1651
               1652
1653 }
1654 \ensuremath{\mbox{\mbox{\mbox{$1$}}} = 0 \ensuremath{\mbox{\mbox{\mbox{$4$}}} = 0 \ensuremath{\mbox{\mbox{$4$}}} = 0 \ensuremath{\mbox{$4$}} = 0 \ensuremath{\mbox{\mbox{$4$}}} = 0 \ensuremath{\mbox{$4$}} = 0 \ensuremath{\mbox{$4$}} = 0 \ensuremath{\mbox{\mbox{$4$}}} = 0 \ensuremath{\mbox{
1655
               \.printframe {\n}{{3sp}_{\xhsize}_{\ifnum#1=-1 \number\.frtop\_else#1\_fi sp-#3sp}}
               1656
               \_ea\.printframes\_fi
1658 }
1659 \_def\.frameslist{}
1660 \_def\.printframe #1#2#3#4{\_edef\.frameslist{\.frameslist
1661
                 \protect\ \_bp{#1} \_bp{#2} \_bp{#3} \_bp{#4} re f }%
1662 }
```

#### Outline 13

op-bible.opm 1670 \\_newdimen\.colsep 1671 \.colsep=10pt 1672 1673 \\_def\.Outline{ \ medskip 1674 \filbreak \.chaptit{\\_mtext{outline}}% 1676 \\_everylist={\\_ifcase\\_ilevel \\_or \\_style I \\_or \\_style A \\_or \\_style n \\_fi} 1677 1678 \\_sdef{\_item:A}{\\_strut\\_uppercase\\_ea{\\_athe\\_itemnum}. } 1679 \\_sdef{\_item:I}{\\_strut\\_uppercase\\_ea{\\_romannumeral\\_itemnum}. } 1680 \\_hsize=.5\\_hsize \\_advance\\_hsize by-\.colsep \\_emergencystretch=40pt 1681 1682 \\_leftskip=0pt \\_rightskip=0pt 1683 } \\_def\.rightnote#1{\\_par 1684 \\_setbox0=\\_hbox{\\_kern\\_hsize \\_kern\.colsep 1685 \\_vtop{\\_leftskip=0pt \\_kern0pt\\_noindent\\_strut\\_it#1}} 1687  $\t 0=0pt \down 0=0pt \box0 \nointerlineskip$ 

```
1688 }
1689 \_nspublic \Outline \rightnote ;
```

## 14 Typesetting variants

By default, chapter numbers are in the outer margin and quotes characters too. The \normalchapnumbers 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
1703 \_def\.normalchapnumbers{
1704
        \_margins/2 a4 (25,25,20,20)mm
       \.lrmargin=0pt
1705
1706
        \_setbox0=\_box\.lqqbox \_setbox0=\_box\.rqqbox
       \_def\.printbeforefirst{%
1707
           \_nobreak\_medskip
           \.printchapnote
1709
           \_hangindent=\_parindent \_hangafter=-2
           \_noindent \_llap{\_vbox toOpt
1711
              \ \ {\_kern-8pt\_hbox{\_setfontsize{at23pt}\_bf\Red\_the\.chapnum\_kern5pt}\_vss}}%
1712
1713
1714 }
1715 \_nspublic \normalchapnumbers;
```

## 15 Checking syntax

```
op-bible.opm
1723 \_def\.checksyntax#1 {%
      \ let\processbooks=\ relax
1724
1725
      \_ifx\_relax#1\_relax \_else
         \_begingroup
1726
            \_the\.syntaxmacros
            \_wterm{^^J** checking file: #1 **^^J}
1728
            \_input{#1}
1730
           \_vfil\_break
1731
         \_endgroup
1732
      \_ea\.checksyntax \_fi
1733 }
1734
1735 \ newtoks\.syntaxmacros
1736 {\_catcode`<=13
1737 \_global\.syntaxmacros={
1738 \_def<#1>{\_bgroup
      \_message{checking \_unexpanded{<#1>}}%
1739
      \_ifx\_relax#1\_relax \_errmessage{empty link}\.nobref\_else \_afterfi{\.checkbref#1>\.bref#1>}\_fi
1740
1741
      \_glet\.linkpre=\.linkpre \_glet\.linkfspec=\.linkfspec
1742
      \_egroup
1743 }
1744 \_def\.checkbref#1#2>{%
      \_isinlist{.#1#2}{<}\_iftrue \_errmessage{duplicated \_string<}\.nobref\_else
      \_ifx"#1\.checkbrefQ #1#2>\_else \.checkbrefD #1#2>\_fi\_fi
1746
1747 }
1748 \_def\.checkbrefQ "#1"#2#3>{\.checkbrefD #2#3>}
1749 \_def\.checkbrefD #1>{%
         1750
1751 }
1752 \_def\.checkbrefS #1 #2>{\.checkbrefN#2>}
1753 \_def\.checkbrefN #1>{%
      \ensuremath{\ } \_def\.tmpb{#1}
      \_ifx\.tmpb\_empty \_errmessage{missing link data}\.nobref\_else
1755
         1757
         \scalebox0=\hbox{\tmpnum=0\.tmpb\_relax}%
1758
         \_ifdim\_wd0>0pt \_errmessage{nonnumeric link data}\.nobref\_fi
1759
1760
1761 }
1762 \_def\.nobref{\_def\.bref##1>{{\Red\_string<##1>}}}
1763 \_def\.currbook{}
```

```
1764 \ def\.prelinkB{BK}
1765 \_def\.prelinkC{BK}
1766 \_def\.prelinkV{0}
1767 \_def\nochapbooks{BK}
1768 \_let\<=<
1770 \_def\x/#1/{\_def\.tmpb{#1}%
      1771
1772
      \_else \_isinlist\.tmp<\_iftrue \.badx
      1773
1774 }
1775 \_def\.badx{\_errmessage{unclosed \_string\x/.../}}
1777 \_def\Article[#1]{}
1778 \_def\Cite #1 {\_par\_noindent{\_bf Cite: }}
1779 \_def\insertCite #1#2{}
1780
1781 \_def\putArticle #1 #2[#3]#4(#5){}
1782 \_def\putCite #1:#2 {\_par\_noindent{\_bf Cite: }}
1783 \_def\putBot #1 #2[#3]#4(#5){\_vbox}
1784
1785 \_def\c[#1/#2]#3{#3}
1786
1787 \_long\_ea\_def\_csname Note\_endcsname #1 #2#3%
1788
1789
      {\_par \_let\.nextww\_undefined \_noindent{\_bf Note #1:} #3\_par}
1790 }}
1791 \_nspublic \checksyntax ;
```

#### 16 TODO macros

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

```
op-bible.opm
1801
1802 \_def\.quotationmarks#1#2{%
                   \. cnvtext{"}{\. doquotmark}%
1803
                   \_def\.doquotmark {\_futurelet\.next\.doquotmarkA}%
1804
1805
                   \_def\.doquotmarkA {%
                          \_let\.doquotmarkB=#1\relax
1806
1807
                          \_ea\_ifx\_space\.next \_let\.doquotmarkB=#2\_fi
                           \_ifx\_space\.next \_let\.doquotmarkB=#2\_fi
1808
1809
                           \_ifx\_endgraf\.next \_let\.doquotmarkB=#2\_fi
                          \_ifx\_endcenter\.next \_let\.doquotmarkB=#2\_fi
1810
                          \. ifx.\.next \_let\.doquotmarkB=#2\_fi
1811
                          \_ifx,\.next __let\.doquotmarkB=#2\_fi
1812
1813
                          \.doquotmarkB}%
1814 }
1815 \_nspublic \quotationmarks ;
1816
1817 \ensuremath{\clim{1817} \ensuremath{\clim{1817}
1818
                   \_nobreak
1819 }
1821
1822 \_nspublic \chaptit \schaptit ;
1823
1824 \_sdef{_mt:intro:en}{Introduction}
                                                                                                                \_sdef{_mt:outline:en}{Outline}
1825 \_sdef{_mt:intro:cs}{Úvod}
                                                                                                                \_sdef{_mt:outline:cs}{Osnova}
1826
1827 \_def\dopsat{{\Red !!! DOPSAT !!! }}
1828
1829 \_def\.bibleinput#1 {\_bgroup
                   \_catcode`##=13 \_bgroup\_lccode`~=`## \_lowercase{\_egroup\_let~}=\.processline
1830
                   \_input{#1}%
1831
1832
                   \_egroup
1835 \_let\CommentedBook=\_ignoreit % for backward compatibility
```

```
1841 \_outer\_def\Note {\.Note}
1842 \_outer\_def\ww {\.ww}
1843 \_outer\_def\ChapterPre {\.ChapterPre}
1844 \_outer\_def\ChapterPost {\.ChapterPost}
1845
1846 \_def\_afterload{\_adef<{\.bref}}
1847 \_afterload
1848
1849 \_endnamespace</pre>
```

## 17 Index

$\backslash$ .AddNote $5$	\endcenter 8	\notepre! 5, 7
\alist! 4,8	\.ensuredest 12	\noteref! 5
\amark 2	\everybref 11	\noterule 15
\Article 16	\f! 3	\.noteset 15
\.begblock 20-21	\fmtfile 2	\notesfile 2
\begcenter 8	\fmtins 4,8	\notetext! 5
\bex! 2-3	\fmtpre 8-9	\notracinglinks 11-12
\.bibleinput 2	\.fmtprebuff 8	\.numvariants 13
\bibname 3	\ftmadd 8	\.oncebref 11
\bmark 2-3	\.fullvref 5	\pbook! 2
\BookException 2-3	\.fullvrefm 5	\pg 12
\BookPost 2-3	\.gentovref 5	\.prebuff 7
\BookPre 2-3	\introfile 2, 20	\.prelinkB 11
\BookTile 3	\.iscolonin 2, 6	\.prelinkC 11
\.botins 16	\.isdivisin 2, 6	\.prevnotepre 7
\.botims 16 \.botimsert 16-17	\.isspacein 1	\.printbeforefirst 9
\.botimsert 10 17	\.linkfspec 11-12	\.printCnote 7
\.botTitle 16	\.linkfspecone 11	\printedbooks 2
\bpo! 2-3	\.linklog 11	\.printintro 20
\bpr! 2-3	\.linkpre 10, 12	\.printlntlo 20
\.bref 10	\.linktext 10-11	\.printwarn 1
\.brefBookChapter 3	\.ltextB 10	\processbooks 2-3
\.brefL 11	\.ltextB 10 \.ltextC 10	\.processline 8
\.btit 2	\.ltextC 10	\.processverse 8
\btit! 3	\.ltextr 10 \.ltextN 10	\.punctpword 7
\.buff 4, 7-9	\.ltextN 10	\putArticle 16-17
	\.ltextF 10 \.ltextS 10	=
\centeringmode 8	\.ltextV 10	\putImage 16
\.chapafter 10	• • • • • • • •	\pword! 5 \reduceref 11
\.chapbefore 10	\megrednotes 7	·
\.checknochapbooks 3	\.myaddto 1	\renum 5, 10-11, 15
\.Cnotetext 7	\.newaction 4-5, 8, 16-17	\.renumlabel 5-6
\createlink 12	\.newbook 2-3	\.renumlinktext 11
(	\.newlinkB 11	\.renumvref 5
\.currbook 2, 5, 8	\nextww 5, 14	\.replpost 4
\.currchapnum 8	\.nextww 5	\.replpre 4
\.currverse 8	\nextwwA 5, 14	\.sedef 1, 13
\.currversenum 8-9	\.nextwwA 5	\.setheadline 3
\.currversetext 8	\nochapbooks 3	\.setvarnum 14
\.doArticle 17	\Note 4-8, 14	\switch 14
\.doCNote 7	\.NoteB 5-6	\.switchA 14
\.doImage 16	\.notefail 6	\.switchD 14
\.doNote 5-7	\.noteins 15	\.switchN 14
\encenter 8	\.noteinsert 15	\tmark 14
\.endblock 20-21	\.notelog 8	\tracinglinks 12
\.endbot $16-17$	\.notenum 5	\.transformword 5

\.upcasefirst 7	\vdef 13	\x 14
\v! 14	\.vdefB 13	\xA 14
$\ \ \ \ 13-14$	\.versedef 10	$\.$ Xdest $12$
\.varnum 14	\ww 5, 14	