# **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}
```

## 1 Preparatory work

Loading packages.

```
op-bible.opm
12 \_load[vlna] % single-letter prepositions and splitting hyphen managed specially in Czech
13 \_load[mte] % micro typographical extensions
14
15 \_namespace{opb}
```

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

Fonts.

```
op-bible.opm
42 \_fontfam[lm]
43 \_fontfam[Heros]
                        % fonts for notes
44 \_isfile{f-biblon.opm}\_iftrue
    \_fontfam[biblon]
                        % fonts for Bible text
46 \_else
47
    \_let\Biblon=\LMfonts
48 \_fi
50 \ fontdef\.bookfont{\ setfontsize{at19.pt}\ bf}
51 \_fontdef\.chapfont{\_setfontsize{at13.pt}\_bf}
52 \_fontdef\.markfont{\_setfontsize{at7pt}\_rm}
^{54} \ensuremath{\local{headfont{\.Biblon\_setfontsize{at10pt}\_rm}}
55 \_nsprivate \Biblon;
```

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

65 \_let\.printwarn=\_opwarning

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

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

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

## 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  $\langle a-mark \rangle$  (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 TFX memory.
- 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
108 \_def\.processbooks {\_par
109
      \.checknochapbooks
       \ useit{\ ea\.processbooksA \printedbooks} {}
110
111
      \_useit{\_ea\.processbooksB \printedbooks} {}
112 }
   \_def\.processbooksA #1 {%
113
       \_if\_relax#1\_relax \_else \_sxdef{pbook!#1}{}\_ea\.processbooksA \_fi
114
115 }
116 \_def\.processbooksB #1 {%
      \_if\_relax#1\_relax \_else
117
118
          \ edef\amark{#1}
          \ensuremath{\ensuremath{\text{cs}\{f!\#1\}}}
119
          \_edef\.btit{\_cs{btit!#1}}
120
          \ begingroup
121
             \_edef\.currbook{#1}
             \.newbook{#1}
123
             \_wterm{** \_cs{btit!#1} {#1} **}
             \_cs{bex!#1}
125
126
             \_isfile{\introfile}\_iftrue \.printintro
             \_else \.printwarn{File with introduction text \introfile\_space not found}\_fi
127
              \.CommentedBook{#1}
128 %
             \_isfile{\fmtfile}\_iftrue \_input{\fmtfile}
129
             \_else \.printwarn{File with format info \fmtfile\_space not found}\_fi
130
             \_isfile{\notesfile}\_iftrue \_input{\notesfile}
131
             \_else \.printwarn{File with notes \notesfile\_space not found}\_fi
132
             \_cs{bpr!#1}
             \.bibleinput{\txsfile}
134
             \_cs{bpo!#1}
135
136
          \_endgroup
137
          \_ea \.processbooksB
138
139 }
140 \_nspublic \processbooks;
```

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

```
op-bible.opm
```

```
146 \_def\.newbook#1{\_vfil\_supereject

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

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

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

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

151 \_par\_nobreak\_medskip

152 }
```

\.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
161 \_def\.setheadline#1{\_global\_headline={\.headfont
162
     \ ifodd\ pageno
         \rline{\text{hss}}%
163
164
         \_hfil \_the\_pageno\_hfil
         165
         \_kern-\.lrmargin
166
167
     \ else
         \_kern-\.lrmargin
168
         \_hbox to\.lrmargin{\_bf#1 \_firstmark\_hss}%
169
         \_hfil \_the\_pageno\_hfil
170
171
         \label{lap{\hss\_it\bibname}%}
     \_fi
172
173
     }
174 }
  \_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

188 \_def\.checknochapbooks {%

189 \_ifx\nochapbooks\_undefined

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

191 \_def\nochapbooks{}%

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

193 }
```

### 3 Book titles

The macro \BookTile  $\langle a\text{-}mark \rangle$   $\langle b\text{-}mark \rangle$  { $\langle title \rangle$ } declares titles of each Bible books. The  $\langle a\text{-}mark \rangle$  is an actual book mark used in printed text. The  $\langle b\text{-}mark \rangle$  can be used in file names as \bmark. The mapping is done here: \def\btit! $\langle a\text{-}mark \rangle$ { $\langle title \rangle$ }, \def\f! $\langle a\text{-}mark \rangle$ { $\langle b\text{-}mark \rangle$ }.

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  $\langle a\text{-}mark \rangle$ .

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

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

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

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

225

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

### 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

246 \_def\.newaction#1#2{%

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

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

249 }
```

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} \rangle {\langle text\rangle} \rangle {\langle text\rangle} \rangle \rangle text\rangle \rangle \rangle \rangle text\rangle \rangle \rangle \rangle text\rangle \rangle \rangle

If  $\langle text \rangle$  does not exist then  $\langle fail \rangle$  is processed. It can report failed  $\langle text \rangle$  by the \.text macro.

```
op-bible.opm
 262 \_def\.replpre#1#2#3{%
                                            263
                                            \ else
264
  265
                                                                 \_ifx^##2^\_def\.text{#2}#3% <fail>
 266
                                                                                   \_else \.replsave ##1#1{#2}##2\_end \_fi
 268
                                                              ጉ%
                                                                  \_def\.replsave##1#2\_end{\_def\.buff{##1}}%
  269
 270
                                                               \ensuremath{\mbox{\sc lower}}\ensuremath{\mbox{\sc lower}}\ensuremath}\ensuremath{\mbox{\sc lower}}\ensuremath{\mbox{\sc lower}}\ensuremath}\ensuremath{\mbox{\sc lower}}\ensuremath{\mbox{\sc lower}}\ensuremath}\ensuremath{\mbox{\sc lower}}\ensuremath}\ensuremath{\mbox{\sc lower}}\ensuremath}\ensuremath{\mbox{\sc lower}}\ensuremath}\ensuremath{\mbox{\sc lower}}\ensuremath}\ensuremath{\mbox{\sc lower}}\ensuremath}\ensu
 271
 272 }
```

#### 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{\constant} \text{gentovref}\rangle\right\} expands to  $\langle full\text{-}vref \rangle$ .

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

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

```
op-bible.opm
```

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

305 \_def\.transformword#1{%

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

307 \_else #1\_fi

308 }
```

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  $\ensuremath{\mbox{Note}<\mbox{gen-vref}>} \langle space \rangle \ \{\langle word \rangle\}=\{\langle pword \rangle\} \ \langle text \rangle \ \mbox{par If} \ \langle pword \rangle$  is given then it 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 \nextww are undefined. \Note does exactly following:

- Calculates \(\langle full-vref \rangle \) using \(\cdot \).gentovref \(\langle \langle genv-ref \rangle \rangle \) and svese it to \(\cdot \).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  $\langle note-num \rangle$ .
- 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! \( note-num \rangle \) as \( \lambda full-vref \rangle \) re-calculated by \renum.
- 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 \.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
354 \_newcount\.notenum
355 \_def\.Note #1 #2{%
     \_edef\.fullvref{\.gentovref{#1}}%
356
     \_ea\.isversezero\.fullvref\_iftrue
357
        \ ea\.NoteB
358
359
     \ else
        \ incr\.notenum
360
       \_edef\.fullvrefm{\_ea\.renumvref\.fullvref\_relax}%
361
        \_def\.tmp{#1}\.sedef{notepre!\_the\.notenum}{\_ea\.renumlabel\.fullvrefm\_relax}%
362
363
        \_ifx\.nextww\_undefined
          {\_def\.printwarn##1{}\_xdef\.tword{\.transformword{#2}}}%
364
        \_else \_xdef\.tword{\.nextww}\_fi
365
        \= \. NoteA={}. NoteA={}}%
366
367
368
  \ensuremath{\mbox{\mbox{def}}\.} NoteA=#1#2% #2 separated by \par\ or \par\:
369
370
371 {%
372
     \_sdef{notetext!\_the\.notenum}{\_ignorespaces#2}%
     \.sedef{noteref!\_the\.notenum}{\.fullvrefm}%
373
374
     \_ifx\.nextww\_undefined
375
        376
377
        \_sdef{pword!\_the\.notenum\_ea}\_ea{\.nextwwA}%
       \_let\.nextww=\_undefined \_let\.nextwwA=\_undefined
378
379
     380
381 }
382 \_def\.addNote#1#2#3{%
383
     \_ifx^#3^% \.tword is empty
384
        \ else
385
386
        387
388 }
389 %\_outer\_def\Note{\.Note} % 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

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

399

400 {%

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

402 }

403 \_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

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

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

418 }

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

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

421 }
```

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

436 \_def\.notefail#1{%

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

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

439 }
```

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.

```
op-bible.opm
446 \_def\.prevtmpb{}
447 \_def\.doNote#1#2{%
     \_edef\.tmpb{\_cs{notepre!#1}}%
448
     449
450
     \.noteinsert{%
        {\_bf \_ifx\.prevtmpb\.tmpb \_else \.tmpb \_enskip \_glet\.prevtmpb=\.tmpb \_fi
451
452
         \.trymakedest{n:\_cs{noteref!#1}}%
         \_ea\_ifx \_csname pword!#1\_endcsname \_empty
453
                  \_else \_ea\_ea\_ea\_upcasefirst \_csname pword!#1\_endcsname. \_fi}%
454
        \ cs{notetext!#1}}%
455
     {\notecolor#2}%
456
457 }
458 \_def\_printfnotemark{}
459 \_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 by \.upcasefirst. You can say \let\.upcasefirts=\relax if you don't want this feature.

```
op-bible.opm
469 \_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
482 \_let\.notelog=\_wlog
```

## 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. \fmtadd \{\langle gen\text{-}vref\rangle\}\{\langle what\rangle\}\ adds \langle what\rangle to \.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

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

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

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

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

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

502 \_def\.fmtwarn{\.printwarn{\.printwarn{\.string\fmtins: \.currverse: The text "\_unexpanded\_ea{\.text}" not found}}

503

504 \_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
513 \ newdimen\.centermargin \.centermargin=4em
^{514} \ensuremath{ \ \ \ } def\.begcenter{\_par \_ifnum\_lastpenalty<10000 \_medskip \_fi
       \ bgroup
515
       \_def\.centeringmode{y}
516
       \_parindent=0pt
517
       \_leftskip=\.centermargin plus1fill
518
519
       \_rightskip=\_leftskip
520 }
521 \_def\.endcenter{\_par
       \_ifx\.centeringmode\_undefined
522
          \.printwarn{\_noexpand\endcenter ignored: no \_noexpand\begcenter precedes}
523
       \_else \_egroup \_medskip \_fi
524
525 }
526 \_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 \processverse  $\langle full\text{-}vref\rangle\langle space\rangle\langle verse\text{-}text\rangle$ \ end is repeatedly processed.

op-bible.opm

```
^{539} \ensuremath{\lower.processline\#1{\lower.processverse \ensuremath{\lower.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 \( full-vref \),
- defines \.buff as \langle verse-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 553 \\_newcount\.chapnum 554 \\_def\.processverse #1 #2\\_end{% \ edef\.currverse{#1}% \.preparechapverse #1 556 557 \\_let\.prelinkV=\.currversenum 558 559 \\_ifx\.verseto\\_empty \\_csname alist!#1\\_endcsname \\_else \\_fornum \.versefrom..\.verseto \\_do{\\_csname alist!\.currbook/\.currchapnum:##1\\_endcsname}% 560 561 \\_ifnum\.currchapnum=\.chapnum \\_else 562 \\_let\.prelinkC=\.currchapnum \.chapnum=\.currchapnum\\_relax \.printchap \\_fi 563 564 565 } \\_def\.preparechapverse #1/#2:#3 {\\_def\.currchapnum{#2}% 566 567 \\_def\.verseto{}% \.isdivisin #3-\\_iftrue \.defversefromto #3\\_end 568 569 \\_else \\_def\.currversenum{#3}\\_let\.currversetext=\.currversenum  $\fi$ 570

```
571 }
572 \_def\.defversefromto #1-#2\_end{%
573 \_def\.versefrom{#1}\_def\.verseto{#2}%
574 \_def\.currversenum{#1}\_def\.currversetext{#1--#2}}
```

\.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
585 \_def\.printverse{%
                \.fmtprebuff % material accumulated by \fmtpre
586
587
                \_ifnum\.currversenum=1 \.printbeforefirst \_fi
                \_quitvmode \_mark{\.currchapnum:\.currversetext}%
588
589
                 \_ifx\.verseto\_empty \.trymakedest{v:\.currverse}%
                \_else \_fornum \.versefrom..\.verseto \_do{%
590
591
                           \_wlog{xxxxx v:\.currbook/\.currchapnum:##1}\.trymakedest{v:\.currbook/\.currchapnum:##1}}%
                 \ fi
592
593
                 \_raise5pt\_hbox{\_unless\_ifnum\.currversenum=1 \.markfont\.currversetext\_fi}%
                 \.prebuff\.buff \_space
594
595 }
596 \_def\.printchap{\_bigskip}
597
598
        \_def\.printbeforefirst{%
                 \_par\_nobreak \_medskip
599
                 \.printchapnote
600
                \c top {\c vtop vtop {\c vto
601
                                                           \_hbox{\_setfontsize{at50pt}\_bf\LiRed\_the\.chapnum}}
602
603
                \ dp0=0pt
604
                \_tmpdim=\.lrmargin
                \_advance\_tmpdim by4pt
605
                 \_ifnum\_the\.chapnum>9 \_advance\_tmpdim by19pt \_fi
606
607
                \_ifodd\_trycs{ch!\.currbook/\_the\.chapnum}{0}
                        \_moveright\_tmpdim \_line{\_hss\_box0}
608
                 \_else \_moveleft\_tmpdim \_box0 \_fi
609
610
                \_nobreak \_vskip-\_medskipamount
611
                 \_nobreak \_nointerlineskip \_noindent
612 }
613 \_def\.printchapnote{%
614
                 \_ifcsname chapnote!\.currbook/\_the\.chapnum:0\_endcsname
                        {\_leftskip=\_parindent plus1fill \_rightskip=\_leftskip
615
616
                           \_noindent\_it \_cs{chapnote!\.currbook/\_the\.chapnum:0}\_par}
                        \ medskip
617
                \fi
618
619 }
```

### 8 Bible references

```
We prepare temporary macros first.

\.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

631 \_def\.isspacein #1 #2\_iftrue{\_isempty{#2}\_iffalse}
632 \_def\.iscolonin #1:#2\_iftrue{\_isempty{#2}\_iffalse}
633 \_def\.isdivisin #1-#2\_iftrue{\_isempty{#2}\_iffalse}
```

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 ~
```

- $\bullet$  \.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  $\langle from \rangle \langle to \rangle$  format is given
- \.ltextN ... the  $\langle to \rangle$  part from the  $\langle from \rangle \langle to \rangle$  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 \.linktext.

```
op-bible.opm
656 \_def\.linktext{\.ltextP\.ltextB\.ltextC\.ltextV\.ltextS\.ltextF\.ltextN}
657 \_def\.bref #1>{\_let\.brefA}{\.brefA}"\}#1>}
658 \_def\.brefA"#1"{\_def\.ltextP{#1}%
              \_isnextchar{ }{\_addto\.ltextP{~}\_afterassignment\.brefB\_let\.next= }%
659
                    {\cline{K}}_{\cline{K}}_{\cline{K}}_{\cline{K}}}
660
661 }
662 \ def\.brefB #1>{% #1 is link-spec
              \_def\.ltextB{}\_def\.ltextC{}\_def\.ltextF{}\_def\.ltextN{}%
663
              \.isspacein #1 \_iftrue
664
665
                           \.iscolonin #1:\_iftrue \.brefBookChapterVerse #1>%
                           \_else \.brefBookChapter #1>\_fi
666
667
              \_else \.iscolonin #1:\_iftrue \.brefChapterVerse #1>%
668
              \_else \.brefVerse #1>%
              \fi
669
              \_def\.linkpre{v}%
670
671
              \_isnextchar n{\_def\.linkpre{n}\.brefC}%
672
                    {\_isnextchar g{\_def\.linkpre{g}\.brefC}%
                           {\_isnextchar a{\_def\.linkpre{a}\.brefC}%
673
674
                                   {\c isnextchar i{\_def\.linkpre{i}\.brefC}{\.brefD}}}%
675 }
676 \_def\.brefC{\_afterassignment\.brefD \_let\.next= }
677
678 \_def\.brefBookChapterVerse #1 #2:#3>{\_def\.ltextB{#1~}\.brefChapterVerse #2:#3>}
679 \_def\.brefBookChapter #1 #2>{\_def\.ltextB{#1~}%
680
                \_isinlist\nochapbooks{ #1 }\_iftrue
                        \_def\.ltextC{}\_let\.ltextCin=\.ltextnCin \_afterfi{\.brefVerse #2>}%
681
                \_else \_afterfi{\.brefChapter #2>}\_fi}
682
683 \_def\.brefChapterVerse #1:#2>{\_def\.ltextC{#1:}\.brefVerse #2>}
684 \ def\.brefVerse #1>{%
              \.isdivisin #1-\_iftrue \.brefFromTo #1>%
              \_else \.versedef#1\_relax\_fi
686
687 }
688 \_def\.brefChapter #1>{%
              \.isdivisin #1-\_iftrue \.brefFromTo #1>\_let\.ltextC=\.ltextV
689
              \ensuremath{\ }\ensuremath{\ }\ens
690
              \_def\.ltextV{}\_def\.ltextS{}%
691
692 }
693 \ 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  $\.$  This is done by the  $\.$ versedef  $\langle verse \rangle$  relax macro.

```
op-bible.opm
701 \_def\.versedef {\_afterassignment\.versedefB \_tmpnum=0}
702 \_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
709 \_def\.brefD{%
      710
711
      \_if a\.linkpre \_ifx\.ltextV\_empty \_else \_edef\.ltextC{\.ltextV:}\_def\.ltextV{}\_fi\_fi
      \_edef\.linkfspec{\_ea\.ltextBin\.ltextB~/\_ea\.ltextCin\.ltextC:/\_ea\.ltextVin\.ltextV:/}%
712
      \.brefL
713
714 }
715 \_def\.ltextBin #1-#2/{\_ifx^#1^\.prelinkB \_else #1\_immediateassignment\_def\.prelinkB{#1}\_fi/}
716 \_def\.ltextCin #1:#2/{\infx^#1^\cdot}.prelinkC \_else #1\_immediateassignment\_def\.prelinkC{#1}\_fi:}
717 \_def\.ltextVin #1:#2/{\_ifx^#1^\.prelinkV \_else #1\_immediateassignment\_def\.prelinkV{#1}\_fi}
718 \_def\.ltextnCin #1:#2/{\.prelinkC:\_immediateassignment\_let\.ltextCin=\.ltextsCin}
719 \_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.

```
729 \_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
737 \_newtoks\.everybref
738 \_def\.oncebref{}
739 \_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:  $\langle book\rangle/$ .

\.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
760 \_def\.brefL{%
               \_edef\.linkfspecm{\_ea\.renumvref\.linkfspec\_relax}%
761
              \_ifx\.linkfspec\.linkfspecm \_else
762
                     \_ea\_ea\_ea\.renumlinktext \_ea\.linkfspec \_ea\_relax \.linkfspecm \_relax
763
764
                     \_let\.linkfspec=\.linkfspecm
              \ fi
765
              \_ifx\.ltextV\_empty \_ifx\.ltextC\_empty \_else \_ea\.linkfspecone \.linkfspec\_end \_fi\_fi
766
767
              \_if a\.linkpre\_relax \_ea\.linkfspecarticle \.linkfspec\_end \_fi
              \_if i\.linkpre\_relax \_ea\.linkfspecintro \.linkfspec\_end \_fi
768
              \.linklog{\.sspace <\_unexpanded\_ea{\.linkspec}>\.linkpost = [\.linkpre:\.linkfspec]%
769
                                 {\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\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\co
770
771
              \.ensuredest \.createlink
772 }
773 \_def\.linkfspecone #1:#2\_end {\_def\.linkfspec{#1:1}\_def\.prelinkV{1}}
774 \_def\.linkfspecarticle \#1/\#2:\#3\_end {\_def\.linkfspec{\#1/\#2}}
775 \_def\.linkfspecintro \#1/\#2\_end {\_def\.linkfspec{\#1/}}
776
777 \_def\.renumlinktext #1/#2:#3\_relax #4/#5:#6\_relax{%
               \_ifx\.ltextC\_empty \_else \_def\.ltextC{#5:}\_fi
778
              \ensuremath{\tt \_def}\.ltextV{\#6}\%
779
              \_ifx\.ltextN\_empty \_else
780
                     \_ifx\.ltextF\.ltextDD
781
                               \_isinlist\.ltextN{:}\_iftrue
                                     \_ifcsname rn!\tmark!#1/\.ltextN\_endcsname \_edef\.ltextN{\_cs{rn!\tmark!#1/\.ltextN}}\_fi
783
                              \end{constraint} $$ \end{constraint} $$ \operatorname{ltextN-\#3\relax}_{fi} $$
784
785
                     \_else \_let\.tmp=\_ignoreit % \.ltextN is a list of verses, for example 7,9,13
                               \_ea\_foreach\.ltextN,\_do ##1,{\_edef\.tmp{\.tmp,\_the\_numexpr#6+##1-#3}}%
786
787
                               \_let\.ltextN=\.tmp
                      \ fi
788
              \_fi
789
790 }
       \_def\.ltextDD{--}
791
792
793 \_def\.sspace{\_space\_space\_space\_space}
794 \_def\.linkpost{\_if v\.linkpre \_else \.linkpre\_fi \_space}
```

\tracinglinks and \notracinglinks are defined here.

```
op-bible.opm

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

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

802 \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

814 \_def\.createlink{{%

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

816 \_ea\.isprintedbook\.linkfspec \_iftrue

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

818 \_else {\Blue\.linktext}\_fi}\%

819 }

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

821 \_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{ $\langle link \rangle : \langle full\text{-}vref \rangle$ }{} to the special file \jobname.xrf. And the macro \pg saves immediatelly \sdef{pg:}\langle link \rangle : \langle full\runef \rangle \rangle ???} to this file. This .xrf file is read before standard .ref file. All link destinations save \.Xdest{\langle full\runef \rangle} to the .ref file. The macro \.Xdest does nothing if \pg:\langle link \rangle : \langle full\runef \rangle is not defined (from .rfx file). Otherwise, it is defined as a correct pageno. This result is used in the \pg macro. If \langle link \rangle : \langle full\runef \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 create correct hyperlinks and page numbers.

```
op-bible.opm
841 \_newwrite\.xrf
842 \_immediate\_openout\.xrf=\_jobname.xrf
844
845 \_def\.ensuredest{\_immediate\_write\.xrf{\_string\_sdef{\.linkpre:\.linkfspec}{}}}
846 \_refdecl{
       \_isfile{\_jobname.xrf}\_iftrue \_input{\_jobname.xrf}\_fi^^J
847
       \_def\.Xdest#1{\_ifcsname pg:#1\_endcsname \_sxdef{pg:#1}{\_ea\_usesecond\_currpage}\_fi}^^J
848
       \_def\.mypage{\_ea\_usesecond\_currpage}
849
850 }
851 \ def\.trvmakedest#1{%
       \_ifcsname #1\_endcsname \_dest[#1]\_ea\_glet\_csname #1\_endcsname \_undefined \_fi
852
       \ensuremath{\ }\ \_ewref\.Xdest{{#1}}%
853
```

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

862 \_def\.pg{%

863 \_ifcsname pg:\.linkfspec\_endcsname

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

865 \_else {\Red ??}\_fi

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

867 }

868 \_nspublic \pg ;
```

## 9 Language variants

```
op-bible.opm

880 \_newcount\.numvariants

881 \_def\.variants{\_tmpnum=0 \_afterassignment\.variantsA \.numvariants}

882 \_def\.variantsA{%

883 \_ifnum\_tmpnum<\.numvariants

884 \_advance\_tmpnum by1

885 \_afterfi{\.variantsB{\_the\_tmpnum}}%

886 \_fi

887 }
```

```
888 \ def\.variantsB#1#2{%
    \_else \_sxdef{var!#1}{#2}%
890
891
    \ fi
892
    \.variantsA
893 }
894 \_nspublic \variants ;
```

 $\def \v! \langle tmark-B \rangle! \langle phrase-A \rangle \{ \langle phrase-B \rangle \} \def \v! \langle tmark-C \rangle! \langle phrase-A \rangle \{ \langle phrase-C \rangle \} \ etc. \ Empty pa$ rameter 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{ $\langle number \rangle$ }{ $\langle param \rangle$ } does real work and it defines (roughly sepaking):

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

op-bible.opm

```
911 \_def\.vdef#1{\_def\.tmp{#1}%
     \_ifcsname v!\_trycs{var!2}{}!\.tmp\_endcsname
912
        913
914
     \_tmpnum=1 \_ea\.vdefA
915 }
916 \_def\.vdefA{%
     \_ifnum\_tmpnum<\.numvariants
917
918
       \ advance\ tmpnum by1
       \_afterfi{\.vdefB{\_the\_tmpnum}}%
919
920
921 }
  \_def\.vdefB#1#2{\_def\.tmpa{}%
     923
     \_ifx\.tmpa\_empty
924
       925
          \_unless \_ifcsname v!\_cs{var!#1}!\.tmp\_endcsname
926
            927
       \fi
928
929
       \_ea\.vdefA
     \_else \_errmessage{\_string\vdef: too few parameters. To be read again: \_string#2}%
930
931
       \_ea\.tmpa
932
933 }
934 \_def\.prevcs #1#2{\_ifnum#1=2 #2\_else \_cs{v!\_cs{var!\_the\_numexpr#1-1\_relax}!#2}\_fi}
935
936 \_nspublic \vdef ;
```

 $\xspace x/\langle phrase \rangle$  expands to  $\xspace x/\langle phrase \rangle$  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  $\t expands to (t-markA)$  (used in the  $\t expands macro$ ), then the  $\t expands to (t-markA)$ ! (phrase) is not defined and the  $\xspace$  macro expands to the  $\xspace$  directly.

 $\xspace x = \frac{\langle phrase \rangle}{\langle phrase \rangle}$  and prints warning, if  $\xspace x = \frac{\langle phrase \rangle}{\langle phrase \rangle}$ 

op-bible.opm

```
949 \_def\.x/#1/{\_trycs{v!\tmark!#1}{\.xA#1/}}
950 \_def\.xA#1/{#1\_ifx\tmarkA\_undefined \_else \_ifx\tmarkA\tmarkA \_else
      \.printwarn{\_string\x/#1/ -- this phrase is undefined by \_csstring\\vdef}\%
951
952
      \fi
953 }
954 \_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
   \_outer\_def\.ww{%
967
       \_ifx\.varnum\_undefined \.setvarnum \_fi
969
      \_tmpnum=0
```

```
\ ifx\.nextww\ undefined \ ea\.wwA
970
971
      \_else \.printwarn{Only single \_csstring\\ww must be before \_csstring\\Note}%
          \_ea\.wwB \_fi
972
973 }
974 \_def\.wwA#1#2 {\_advance\_tmpnum by1
975
      \_ifx\.nextwwA\_empty \_let\.nextwwA=\.nextww \_else \_ea \.redefwwA #2\_end \_fi
976
977
      \_ifnum\.varnum=\_tmpnum \_ifnum\_tmpnum<\.numvariants \_ea\_ea\_ea \.wwB \_fi
978
      \ensuremath{\ } \_else \_ea \.wwA \_fi
979 }
980 \_def\.wwB#1 {\_advance\_tmpnum by1
      \_ifnum\_tmpnum<\.numvariants \_ea\.wwB \_fi
981
982 }
983 \_def\.redefwwA =#1\_end{\_def\.nextwwA{#1}}
985 \_nspublic \ww ;
```

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.

```
op-bible.opm
1000 \_newtoks\.switchD
 1001 \_def\.switch {\_let\.switchN=\.switchA \.unsetouter \.switchN}
 \label{longle} $$1002 \leq \label{longle} $$1002 \leq \label{longle}.
                          1003
 1004
                          \_else \_foreach #1,\_do ##1,{\_def\tmp{##1}\.switchC}%
                          \ fi
 1005
                          \_futurelet\.next\.switchB
 1006
 1007 }
 1008 \_def\.switchB{\_ifx\.next\_bgroup \.unsetouter \_ea\.switchN \_else \.setouter \_fi}
 1009 \_long\_def\.switchI #1#2{\_futurelet\.next\.switchB}
 1010 \_def\.switchC{\_ifx\tmp\tmark \_the\.switchD \_fi}
 1011 \_def\.unsetouter{\_slet{ww}{_relax}\_slet{Note}{_relax}}
 \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
 1013 \_let\.iww=\.ww
                                                                            % backup of outer ww
 1014 \_let\.iNote=\.Note % backup of outer Note
1016 \_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
1024 \_def\.setvarnum{\_gdef\.varnum{0}%
1025
      \_ifnum\.numvariants=0 \_gdef\.varnum{1}\_wlog{There is only single language variant (1)}%
1026
1027
         \ tmpnum=0
         \_loop
1029
           \_advance\_tmpnum by1
1030
           \_ea\_ifx \_csname var!\_the\_tmpnum\_endcsname \tmark \_xdef\.varnum{\_the\_tmpnum}\_fi
1031
           \_ifnum\_tmpnum<\.numvariants \_repeat
         \_ifnum \.varnum=0 \_errmessage{\_noexpand\tmark isn't set, \_noexpand\.setvarnum failded}%
1032
1033
         \_else \_wlog{Language variant set by \_string\tmark{\tmark} (\.varnum)}\_fi
1034
1035 }
\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
1049 \ 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}%
1053 \_nspublic \renum ;
```

## Inserting notes to the page

1050

1051 1052 }

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

```
op-bible.opm
1062 \_newinsert \.noteins
1063 \_skip\.noteins=\_bigskipamount % noterule height
1064 \_count\.noteins=500
                                      % two columns
1065 \_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
   \ def\.noteinsert #1{\ insert\.noteins{%
1079
       \.noteset
       \_vbox to\_ht\_strutbox{}\_nobreak \_vskip-\_baselineskip
1080
      #1\_unskip\_par \_nobreak \_vskip-\_baselineskip
1081
       1082
1083
1084 }}
1085 \_def\.noteset{\Heros\cond \_scalemain \_typoscale[800/800] % Heros condensed 80%
1086
       \Black \ nobreak
       \_widowpenalty=20 \_clubpenalty=20
1087
1088
       \_leftskip=0pt \_rightskip=0pt \_parfillskip=0pt plus1fill
      \ parindent=0pt
1089
      \_lineskiplimit=-3pt
1090
      \_hsize=.5\_hsize \_advance\_hsize by-1em\_relax % two columns
1091
1092
      \_everypar{}
1093 }
```

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 OpTFX for splitting to two columns is used. We need to set \\_Ncols, \\_dimen0 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
1114 \_addto\_pagecontents{%
1115
       \_ifvoid\.noteins \_else
1116
          \_vskip\_skip\.noteins \noterule
1117
          \_setbox\.noteins=\_vbox{\_penalty0 \_unvbox\.noteins \_vfil}
1118
          \_splittopskip=12pt
          \_setbox0=\_vsplit\.noteins toOpt % adding \splittopskip to \.noteins
1119
1120
          \_dimenO=.5\_ht\.noteins \_setbox6=\_box\.noteins
1121
1122
          \_vskip\_splittopskip
1123
          \_balancecolumns
1124
       \_unless\_ifvoid\.botins \_unvbox\.botins
1125
1126
       \_else \_vskip Opt plus1filll minus8pt \_fi
1127 }
1128 \_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

1140 \_newinsert\.botins

1141 \_def\.botinsert{\_setbox0=\_vbox\_bgroup}

1142 \_def\.endbot{\_par\_egroup}

1143 \__insert\.botins{\_splittopskip=0pt \_penalty100}

1144 \_hrule height0pt \_nobreak\_medskip\_bigskip \_unvbox0

1145 \_}%

1146 \_
1147 \_skip\.botins=\_zoskip % no space added when a topinsert is present

1148 \_count\.botins=1000 % magnification factor (1 to 1)

1149 \_dimen\.botins=\_maxdimen % no limit per page
```

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

```
op-bible.opm
1162 \_def\.putImage #1 #2#3[#4]#5(#6)#7{% chap:verse {Title} [label] (params) {image-file.pdf}
       \_edef\.fullvref{\.gentovref{#1}}%
1163
1164
       \_edef\.fullvrefm{\_ea\.renumvref\.fullvref\_relax}%
       1165
1166 }
1167 \_def\.doImage #1[#2](#3)#4{% {Title}[label](params){image-file.pdf}
1168
       \.botinsert
          \.botTitle{#1}[#2]%
1169
1170
          \_kern3pt \_nobreak
         \hox{\picw=\hsize #3\inspic{#4}}%
1171
       \.endbot
1172
1173 }
1174 \_def\.botTitle#1[#2]{\_hbox{\.captionfont
       \fine $$ \int x^{\#2^{-1}} else \. botDest{\#1}[\#2] \_fi
       \_rlap{\Grey \_vrule height1.2em depth.5em width\_hsize}\White\_kern12pt #1}%
1176
1178 \ picdir={images/}
1179 \_def\.botDest#1[#2]{\_label[#2]\_wlabel{#1}}
1180
1181 \_nspublic \putImage ;
```

\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 \.newaction{ $\langle full-vref \rangle$ }{\doArticle{ $\langle title \rangle$ }[ $\langle label \rangle$ ]( $\langle params \rangle$ )}.

```
op-bible.opm

1205 \_newcount\.articlenum

1206 \_def\.putArticle #1 #2#3[#4]#5(#6){% chap:verse {Title} [number] (params)

1207 \_edef\.fullvref{\.gentovref{#1}}%

1208 \_edef\.fullvrefm{\_ea\.renumvref\.fullvref\_relax}%

1209 \_ea\.newaction\_ea{\.fullvrefm}{\.doArticle{#2}[#4](#6)}%

1210 }

1211 \_nspublic \putArticle ;
```

The \.doArticle  $\{\langle Title \rangle\}$  [ $\langle label \rangle$ ] ( $\langle params \rangle$ ) inserts the article to one or more pages by \.botinsert...\.endbot. The Article is printed to two columns per page, all collumns of the article is completely balanced. First,

the whole text is saved to the \box0 with given column size and the number of pages is calculated in \\_tmpnum. Then the number of columns \\_Ncols is 2 times the number of calculated pages. The height of each two-columns part of the article is \dimen0. Finally we do re-boxing the output of \\_balancecolumns in order to reach individual columns and create pairs of them by \fornum loop. These pairs are completed to blocks with LightGrey background. These blocks divided by \break are inserted into \.botinsert.

```
op-bible.opm
             \_def\.doArticle#1[#2](#3){% {Title}[number](params)
                       \_incr\.articlenum
1228
                       \.botinsert
1229
                                  \_def\.botDest##1[##2]{\.trymakedest{a:\.currbook/##2}}
                                 \_parindent=12pt \_iindent=\_parindent
1231
1232
                                  \_setbox0=\_vbox{\_hsize=.458\_hsize \_emergencystretch=1em
1233
                                            \_hbadness=6000 \_baselineskip=\_dimexpr\_baselineskip plus1pt
                                           \_def\Article[##1]{\_endinput}
1234
1235
                                           \_penalty0
                                           \_long\_def\.searcharticle##1\Article[#2]{}
1236
1237
                                           \_ea\.searcharticle \_input \articlefile \_relax}
                                  \ splittopskip=12pt
1238
                                  \_setbox1=\_vsplit0 to0pt % adding \splittopskip
                                 \_tmpdim=\_vsize \_advance\_tmpdim by-24pt % \.botTitle height plus above/below skips
1240
1241
                                  \_ifdim 2\_tmpdim > \_ht0 \_tmpnum=1
                                 \_else
1242
                                           \mbox{tmpnum=\.roundexpr{\ph{1.333\,vsize}+0.999} % number of 2/3 pages}
1243
1244
                                  \ fi
                                 \_multiply\_tmpnum by2 % number of columns
1245
                                 \_edef\_Ncols{\_the\_tmpnum}
1246
                                 1247
                                  \_tmpdim=\_ht0 \_advance\_tmpdim by1.2\_baselineskip
1249
                                  \_setbox0=\_vbox{\_unvbox0 \_global\_setbox2=\_lastbox}
1250
                                 1251
                                               \_fornum 1..\_Ncols \_do {\_unskip \_global\_setbox1##1=\_lastbox}}
1252
1253
                                               \_fornumstep -2: \_Ncols..1 \_do {
                                                            \_hrule heightOpt\_kern5pt\_nobreak\_vfill
1254
                                                            \_ifnum\_Ncols=##1 \.botTitle{#1}[#2]\_else \.botTitle{}[]\_fi
1255
                                                            \_kern3pt \_nobreak
1256
                                                             \_hbox to\_hsize{%
1257
                                                                       \_rlap{\LightGrey \_vrule height\_tmpdim depth6pt width\_hsize}%
1258
                                                                      \_kern\_parindent
1260
                                                                      \begin{tabular}{ll} \beg
1261
                                                                       \_kern\_parindent
1262
1263
                                                            \ break
1264
                                              7
                       \.endbot
1265
1266 }
1267 \ def\.roundexpr#1{\ ea\ ea\.roundexprA\ expr{#1}\ relax}
\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
```

## 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

1279 \_def\.putCite #1 #2{% chap:verse {text}}

1280 \_edef\.fullvref{\.gentovref{#1}}%

1281 \_edef\.fullvrefm{\_ea\.renumvref\.fullvref\_relax}%

1282 \_ea\.newaction\_ea{\.fullvrefm}{\.dotopCite{#2}}%

1283 }

1284 \_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\}{\.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

```
1296 \ newcount\.citenum
 1297 \_def\.dotopCite #1{%
                               \ topinsert
 1298
                               \_typosize[12/16]\_bi
 1299
 1300
                              \_incr\.citenum
                              \_ifodd \_trycs{ct!\_the\.citenum}{0}\_relax
 1301
 1302
                                               \_leftskip=.3\_hsize plus1fil \_parfillskip=0pt
 1303
 1304
                                              \_rlap{\_hskip\_hsize \_kern-\_leftskip \_copy\.rqqbox}\_hfill
                              \_else
 1305
                                                \_let\quotedby=\.quotedbyright
 1306
                                                \_rightskip=.3\_hsize plus 1fil
 1307
                                                \nnoindent \l1lap{\_copy\.lqqbox}%
                              \ fi
 1309
 1310
                              {\.printCite{#1}\_unskip}\_par
 1311
                               \_ewref\_sxdef{{ct!\_the\.citenum}{\_string\.mypage}}%
                                 \vskip-.3\baselineskip
 1312 %
 1313
                              \ensuremath{\mbox{\sc loss}} endinsert
1314 }
 \arraycolor \arr
1316 \_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

1326 \_newbox\.lqqbox

1327 \_newbox\.rqqbox

1328 \_setbox\.lqqbox=\_hbox{\_lower3pt\_hbox{\_setfontsize{at70pt}\_bf\LiRed_,}}

1329 \_setbox\.rqqbox=\_hbox{\_kern2pt\_lower38pt\_hbox{\_setfontsize{at70pt}\_bf\LiRed_,}}

1330 \_ht\.lqqbox=0pt \_dp\.lqqbox=0pt

1331 \_ht\.rqqbox=0pt \_dp\.rqqbox=0pt

1332

1333 \_def\quotedby{\_par}

1334 \_def\,quotedbyright#1{%}

1335 \_unskip\_nobreak\_hfill\_penalty0\_hskip2em

1336 \_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  $\alpha$  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
\label{locality} $$1350 \leq \frac{1350}{c!}.$$ is $$1350 \.$$ is $$1350 \.$$
1351 \_def\.insertCite #1#2{\_def\.citelabel{#1}%
      \_ifx\_left#2\.insertCiteleft
1352
      \ else \ ifx#2\ right\.insertCiteright\ else
1353
         \_errmessage{\_noexpand\insertCite#1: \_noexpand\left or \_noexpand\right expected}%
1354
      \ fi\ fi
1355
1356 }
1357 \_def\.insertCiteleft {%
1358
      \_ifnum\.citepg=1 \.printwarn{\_noexpand\.insertCite\.citelabel: \_noexpand\.swapCites activated}\_fi
      1359
1360
      \_else \.insertCitelr \_left \_fi
1361 }
1362 \ def\.insertCiteright{%
      \_ifodd \_numexpr\_trycs{cp!\_the\.articlenum!\.citelabel}{0}+\.citepg\_relax
1363
      \.insertCitelr \_right \_fi
1364
1365 }
\_ewref\_sxdef{{cp!\_the\.articlenum!\.citelabel}{\_string\.mypage}}%
1367
1368
1369
      \_advance\_hsize by\_parindent
1370
      \_typosize[12/16]\_bi\Grey
1371
          \_ifx#1\_left
```

```
1372
             \_rightskip=\_parindent plus1fil \_leftskip=0pt
1373
1374
             1375
                \_medskip \_noindent
               \_llap{\_copy\.lqqbox}\_ignorespaces
1376
1377
               \.printCite{\_cs{c!\_the\.articlenum!\.citelabel}}\_medskip}%
1378
             1379
               \_vrule height\_ht0 width\_hsize}\_box0}%
1380
          \_else
             \_leftskip=\_parindent plus1fil
1381
             \_parfillskip=0pt
1382
             \_setbox0\_vbox{%
1383
                \_medskip \_noindent
               1385
               \_ignorespaces \.printCite{\_cs{c!\_the\.articlenum!\.citelabel}}\_medskip}%
1387
             \_rlap{\_rlap{\White \_vrule height\_ht0 width\_hsize}\_box0}%
          \ fi
1388
1389
      \_vskip6pt
1390 }}}
1391 \_def\.swapCites{\_def\.citepg{1}}
1392 \_def\.citepg{0}
1393
1394 \_nspublic \Cite \insertCite ;
```

Insertions into the intro text

```
op-bible.opm
1402 %% TBN page 236
1403
1404 \_newcount\.shapenum
1405 \_newdimen\.ii \_newdimen\.w
1406 \_def\.oblom #1 od #2 odsadit #3 {\_par \.ii=#1 \.w=\_hsize
              \_ifdim\.ii>\_zo \_advance\.w by-\.ii
1407
1408
              \_else \_advance\.w by\.ii \.ii=\_zo \_fi
1409
              \.shapenum=1 \_tmpnum=0 \_def\.shapelist{}
              1410
                     \_advance\.shapenum by1 \_repeat
1411
1412
              \_loop \_edef\.shapelist{\.shapelist\.ii\.w}%
                     \_advance\_tmpnum by1 \_ifnum\_tmpnum<#3 \_repeat
1413
              \_advance\.shapenum by#3 \_edef\.shapelist{\.shapelist\_zo\_hsize}
1414
              \.doshape}
1416 \_def\.doshape{\_parshape \.shapenum \.shapelist}
1417 \_newcount\.globpar
\label{likelihood} $$1418 \_ifx\_partokenset \_undefined \_def\.partoken{\par} \_else \_def\.partoken{\par} \_fine \_else \_def\.partokenset \_nudefine \_else \_def\.partokenset \_nudefine \_else 
1420 \_def\.shapepar{\_prevgraf=\.globpar \_parshape\.shapenum\.shapelist
              \_endgraf \_global\.globpar=\_prevgraf
1421
              \_ifnum \_prevgraf>\.shapenum \_ea\_let\.partoken=\_endgraf \_fi
1422
1423 }
1424
1425 \_def\.Citehereleft #1 (#2) #3{{
1426
              \ par
1427
                               \_rightskip=\_parindent plus1fil \_leftskip=0pt
1428
                               1429
                                     \_typosize[12/16]\_bi\Grey
1430
                                    1431
                                    \_medskip \_noindent
1432
                                    \_llap{\_copy\.lqqbox}\_ignorespaces
1433
                                    \.printCite{#3}\_medskip}}%
1434
1435
              \_tmpdim=\_ht0 \_advance\_tmpdim by\_baselineskip
1436
              \_xdef\.lines{\_the\_numexpr \_number\_tmpdim / \_number\_baselineskip \_relax}%
1437
              \_nointerlineskip\_vbox toOpt{\_kern#1\_baselineskip #2
1438
                               \_hbox{\_rlap{\White
                                     \_kern-3mm\_vrule height\_ht0 width.5\_hsize}\_box0}%
1439
1440
              \_vss}}
              \_tmpdim=\_hsize \_advance\_tmpdim by-2\_leftskip
1441
              \.oblom {.5\_tmpdim} od #1 odsadit {\.lines}
1442
1443 }
1444 \_def\.Citehereright #1 (#2) #3{{
1445
              \_par
```

```
\_def\quotedby{\_par\_parfillskip=0pt \_hfill}
1446
                                                       \_leftskip=\_parindent plus1fill \_rightskip=0pt
1447
                                                       1448
                                                                   <page-header> typosize [12/16] \_bi\Grey
1450
                                                                 \_hsize=.5\_hsize
1451
                                                                  \_vskip\_medskipamount \_rlap{\_kern\_hsize\_copy\.rqqbox}\_vskip-\_medskipamount
1452
                                                                 \verb|\.printCite{\_noindent\_ignorespaces#3}\_medskip}|%
                          \_tmpdim=\_ht0 \_advance\_tmpdim by\_baselineskip
1453
1454
                          \_xdef\.lines{\_the\_numexpr \_number\_tmpdim / \_number\_baselineskip \_relax}%
                          \verb|\nointerlineskip|_vbox toOpt{\kern#1\\_baselineskip #2}
1455
                                             \_hbox to\_hsize{\_hss
1456
                                                        \_llap{\White \_vrule height\_ht0 width.5\_hsize \_kern-3mm}%
1457
                                                        \_llap{\_box0}}
1459
                          \_tmpdim=\_hsize \_advance\_tmpdim by-2\_leftskip
1460
1461
                          \.oblom {-.5\_tmpdim} od #1 odsadit {\.lines}
1462 }
1463
1465
1466 \ nspublic \Citehere ;
1467
1468 \_def\.insertBot #1#2[#3]#4(#5)#6{% {Title} [label] (params) {data}
1469
                                    \.botTitle{#1}[#3]%
1470
                                     \_kern3pt \_nobreak
1471
1472
                                    \_vbox{\_picwidth=\_hsize #5 #6}%
                          \.endbot
1473
1474 }
1475 \_def\.putBot #1 #2#3[#4]#5(#6)#7{% chap:verse {Title} [label] (params) {image-file.pdf}
                          \_edef\.fullvref{\.gentovref{#1}}%
1476
                          \_edef\.fullvrefm{\_ea\.renumvref\.fullvref\_relax}%
1477
                          \end{array} $$ \end{array} $$ \end{array} = \end{array} $$ \end{array} $$\end{array} $$ \end{array} $$\end{array} $$\end{arr
1478
1479 }
1480
1481 \_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}%
1482
                                                                             \ensuremath{\verb|\do{\#\#1}.tmpa|}\ensuremath{\verb|\do{\#\#1}.tmpa|}\ensuremath{\verb|\do{\#\#1}.tmpa|}\ensuremath{\verb|\do{\#\#1}.tmpa|}\ensuremath{\verb|\do{\#\#1}.tmpa|}\ensuremath{\verb|\do{\#\#1}.tmpa|}\ensuremath{\verb|\do{\#\#1}.tmpa|}\ensuremath{\verb|\do{\#\#1}.tmpa|}\ensuremath{\verb|\do{\#\#1}.tmpa|}\ensuremath{\verb|\do{\#\#1}.tmpa|}\ensuremath{\verb|\do{\#\#1}.tmpa|}\ensuremath{\verb|\do{\#\#1}.tmpa|}\ensuremath{\verb|\do{\#\#1}.tmpa|}\ensuremath{\do{\#\#1}.tmpa|}\ensuremath{\do{\#\#1}.tmpa|}\ensuremath{\do{\#\#1}.tmpa|}\ensuremath{\do{\#\#1}.tmpa|}\ensuremath{\do{\#\#1}.tmpa|}\ensuremath{\do{\#4}.tmpa|}\ensuremath{\do{\#4}.tmpa|}\ensuremath{\do{\#4}.tmpa|}\ensuremath{\do{\#4}.tmpa|}\ensuremath{\do{\#4}.tmpa|}\ensuremath{\do{\#4}.tmpa|}\ensuremath{\do{\#4}.tmpa|}\ensuremath{\do{\#4}.tmpa|}\ensuremath{\do{\#4}.tmpa|}\ensuremath{\do{\#4}.tmpa|}\ensuremath{\do{\#4}.tmpa|}\ensuremath{\do{\#4}.tmpa|}\ensuremath{\do{\#4}.tmpa|}\ensuremath{\do{\#4}.tmpa|}\ensuremath{\do{\#4}.tmpa|}\ensuremath{\do{\#4}.tmpa|}\ensuremath{\do{\#4}.tmpa|}\ensuremath{\do{\#4}.tmpa|}\ensuremath{\do{\#4}.tmpa|}\ensuremath{\do{\#4}.tmpa|}\ensuremath{\do{\#4}.tmpa|}\ensuremath{\do{\#4}.tmpa|}\ensuremath{\do{\#4}.tmpa|}\ensuremath{\do{\#4}.tmpa|}\ensuremath{\do{\#4}.tmpa|}\ensuremath{\do{\#4}.tmpa|}\ensuremath{\do{\#4}.tmpa|}\ensuremath{\do{\#4}.tmpa|}\ensuremath{\do{\#4}.tmpa|}\ensuremath{\do{\#4}.tmpa|}\ensuremath{\do{\#4}.tmpa|}\ensuremath{\do{\#4}.tmpa|}\ensuremath{\do{\#4}.tmpa|}\ensuremath{\do{\#4}.tmpa|}\ensuremath{\do{\#4}.tmpa|}\ensuremath{\do{\#4}.tmpa|}\ensuremath{\do{\#4}.tmpa|}\ensuremath{\do{\#4}.tmpa|}\ensuremath{\do{\#4}.tmpa|}\ensuremath{\do{\#4}.tmpa|}\ensuremath{\do{\#4}.tmpa|}\ensuremath{\do{\#4}.tmpa|}\ensuremath{\do{\#4}.tmpa|}\ensuremath{\do{\#4}.tmpa|}\ensuremath{\do{\#4}.tmpa|}\ensuremath{\do{\#4}.tmpa|}\ensuremath{\do{\#4}.tmpa|}\ensuremath{\do{\#4}.tmpa|}\ensuremath{\do{\#4}.tmpa|}\ensuremath{\do{\#4}.tmpa|}\ensuremath{\do{\#4}.tmpa|}\ensuremath{\do{\#4}.tmpa|}\ensuremath{\do{\#4}.tmpa|}\ensuremath{\do{\#4}.tmpa|}\ensuremath{\do{\#4}.tmpa|}\ensuremath{\do{\#4}.tmpa|}\ensuremath{\do{\#4}.tmpa|}\ensuremath{\do{\#4}.tmpa|}\ensuremath{\do{\#4}.tmpa
1483
1484 }
1485 \_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.

```
1494 \_def\.printintro{%
1495         \.begblock
1496         \_dest[i:\.currbook/]
1497         \.chaptit{\_mtext{intro}}%
1498         \_input{\introfile}
1499         \.endblock
1500 }
```

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
1508 \_newcount\.blocklevel % nesting level of blocks
1509 \_def\.begblock{\_par\_bgroup
        \_advance\.blocklevel by1 \_advance\_leftskip by\_iindent \_rightskip=\_leftskip
1510
1511
        \end{array} $$ \operatorname{seq}_{ea}.Xblock_{ea}(\end{array} B_{\end{array}} B_{\end{array}} B_{\end{array}} $$
1512
        \_nobreak \_medskip
1514 }
1515 \_def\.endblock{\_par\_nobreak\_medskip
        \end{array} $$ \operatorname{a}_{\operatorname{a}}.Xblock_ea{\_ea{\_the\_blocklevel}} E{\_the\_pdflastypos}} $$
1516
1517
        \_medskip \_egroup
1518 }
1519 \_refdecl{%
        \_def\.Xblock#1#2#3{\_ifnum#1=1 \_edef\.tmp{frm:\_ea\_ignoresecond\_currpage}^^J
1520
```

```
\_unless\_ifcsname \.tmp \_endcsname \_sxdef{\.tmp}{}\_fi^^J
1521
                          \sc {\tmp}{\cs{\tmp}#2{#3}}\_fi}
1522
1523 }
1524 \_newdimen\.frtop \_newdimen\.frbottom % positions of top and bottom text on the pages
1525 \_def\.frcolor{.93 g } % light grey -- color of blocks.
1526 \_pgbackground={%
1527
                   \_slet{_opb_tmp}{frm:\_the\_gpageno}
                   \_ifx\.tmp\_undefined \_def\.tmp{}\_fi
1528
1529
                  \.frtop=\_dimexpr \_pdfpageheight-\_voffset+\_smallskipamount\_relax
                  \verb|\.frbottom=\_dimexpr\_pdfpageheight-\_voffset-\_vsize-\_medskipamount\_relax|
1530
                  \_ifx\.frnext y \_edef\.tmp{B{\_number\.frtop}\.tmp}\_global\_let\.frnext n\_fi
1531
                  \_ea\.printframes \.tmp B{0}E{\_number\.frbottom}
1532
                  \_ifx\.frameslist\_empty \_else
1533
                   1534
1535 }
1536 \ensuremath{\mbox{\mbox{\mbox{$1$}}} 1536 \ensuremath{\mbox{\mbox{\mbox{$1$}}} 1536 \ensuremath{\mbox{\mbox{\mbox{$1$}}}} 1536 \ensuremath{\mbox{\mbox{$1$}}} 153
                  1537
1538
                   \_ifx^#2^\_else \_global\_let\.frnext=y \_let\.printframes=\_relax \_fi
                  \_ea\.printframes\_fi
1539
1540 }
1541 \ def\.frameslist{}
1542 \_def\.printframe #1#2#3#4{\_edef\.frameslist{\.frameslist
                     \p{#1} \p{#2} \p{#3} \p{#4} re f }%
1543
1544 }
```

### 13 Outline

```
op-bible.opm
1552 \_newdimen\.colsep
1553 \.colsep=10pt
1554
1555 \_def\.Outline{
1556
       \_medskip
1557 %
        \filbreak
       \.chaptit{\_mtext{outline}}%
1558
1559
       \_everylist={\_ifcase\_ilevel \_or \_style I \_or \_style A \_or \_style n \_fi}
       \_sdef{_item:A}{\_strut\_uppercase\_ea{\_athe\_itemnum}. }
1560
       \_sdef{_item:I}{\_strut\_uppercase\_ea{\_romannumeral\_itemnum}. }
1561
1562
       \_hsize=.5\_hsize \_advance\_hsize by-\.colsep
       \_emergencystretch=40pt
1563
1564
       \_leftskip=0pt \_rightskip=0pt
1565 }
1566 \ensuremath{\lower.rightnote#1{\par}}
       \_setbox0=\_hbox{\_kern\_hsize \_kern\.colsep
1567
1568
                          \_vtop{\_leftskip=0pt \_kern0pt\_noindent\_strut\_it#1}}
       \_ht0=0pt \_dp0=0pt \_box0 \_nointerlineskip
1569
1570 }
1571 \_nspublic \Outline \rightnote;
```

# 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
1585 \ def\.normalchapnumbers{
                                          \_margins/2 a2 (25,25,20,20)mm
 1586
 1587
                                         \.lrmargin=0pt
                                          \_setbox0=\_box\.lqqbox \_setbox0=\_box\.rqqbox
 1588
 1589
                                         \_def\.printbeforefirst{%
                                                           \_nobreak\_medskip
 1590
 1591
                                                          \.printchapnote
                                                          1592
                                                           \_noindent \_llap{\_vbox to0pt
 1593
                                                                           {\ensuremath{\cline{at23pt}\ensuremath{\cline{at23pt}\ensuremath{\cline{at23pt}\ensuremath{\cline{at23pt}\ensuremath{\cline{at23pt}\ensuremath{\cline{at23pt}\ensuremath{\cline{at23pt}\ensuremath{\cline{at23pt}\ensuremath{\cline{at23pt}\ensuremath{\cline{at23pt}\ensuremath{\cline{at23pt}\ensuremath{\cline{at23pt}\ensuremath{\cline{at23pt}\ensuremath{\cline{at23pt}\ensuremath{\cline{at23pt}\ensuremath{\cline{at23pt}\ensuremath{\cline{at23pt}\ensuremath{\cline{at23pt}\ensuremath{\cline{at23pt}\ensuremath{\cline{at23pt}\ensuremath{\cline{at23pt}\ensuremath{\cline{at23pt}\ensuremath{\cline{at23pt}\ensuremath{\cline{at23pt}\ensuremath{\cline{at23pt}\ensuremath{\cline{at23pt}\ensuremath{\cline{at23pt}\ensuremath{\cline{at23pt}\ensuremath{\cline{at23pt}\ensuremath{\cline{at23pt}\ensuremath{\cline{at23pt}\ensuremath{\cline{at23pt}\ensuremath{\cline{at23pt}\ensuremath{\cline{at23pt}\ensuremath{\cline{at23pt}\ensuremath{\cline{at23pt}\ensuremath{\cline{at23pt}\ensuremath{\cline{at23pt}\ensuremath{\cline{at23pt}\ensuremath{\cline{at23pt}\ensuremath{\cline{at23pt}\ensuremath{\cline{at23pt}\ensuremath{\cline{at23pt}\ensuremath{\cline{at23pt}\ensuremath{\cline{at23pt}\ensuremath{\cline{at23pt}\ensuremath{\cline{at23pt}\ensuremath{\cline{at23pt}\ensuremath{\cline{at23pt}\ensuremath{\cline{at23pt}\ensuremath{\cline{at23pt}\ensuremath{\cline{at23pt}\ensuremath{\cline{at23pt}\ensuremath{\cline{at23pt}\ensuremath{\cline{at23pt}\ensuremath{\cline{at23pt}\ensuremath{\cline{at23pt}\ensuremath{\cline{at23pt}\ensuremath{\cline{at23pt}\ensuremath{\cline{at23pt}\ensuremath{\cline{at23pt}\ensuremath{\cline{at23pt}\ensuremath{\cline{at23pt}\ensuremath{\cline{at23pt}\ensuremath{\cline{at23pt}\ensuremath{\cline{at23pt}\ensuremath{\cline{at23pt}\ensuremath{\cline{at23pt}\ensuremath{\cline{at23pt}\ensuremath{\cline{at23pt}\ensuremath{\cline{at23pt}\ensuremath{\cline{at23pt}\ensuremath{\cline{at23pt}\ensuremath{\cline{at23pt}\ensuremath{\cline{at23pt}\ensuremath{\cline{at23pt}\ensuremath{\cline{at23pt}\ensuremath{\cline{at23pt}\ensuremath{\cl
 1594
 1595
 1596 }
 1597 \_nspublic \normalchapnumbers ;
```

## 15 Checking syntax

```
op-bible.opm
1605 \_def\.checksyntax#1 {%
                   \_let\processbooks=\_relax
                   1607
1608
                           \_begingroup
1609
                                    \_the\.syntaxmacros
                                    \_wterm{^^J** checking file: #1 **^^J}
1610
1611
                                    \_input{#1}
1612
                                   \ vfil\ break
                           \_endgroup
1613
                   \_ea\.checksyntax \_fi
1614
1615 }
1616
1617 \_newtoks\.syntaxmacros
1618 {\_catcode`<=13
1619 \_global\.syntaxmacros={
1620 \_def<#1>{\_bgroup
1621
                   \_message{checking \_unexpanded{<#1>}}%
1622
                   \_ifx\_relax#1\_relax \_errmessage{empty link}\.nobref\_else \_afterfi{\.checkbref#1>\.bref#1>}\_fi
                   \_glet\.linkpre=\.linkpre \_glet\.linkfspec=\.linkfspec
1623
1624
                   \_egroup
1625 }
1626 \_def\.checkbref#1#2>{%
1627
                   \verb|\| isinlist{.#1#2}{<} \\ | iftrue | errmessage{duplicated | string<}|.nobref| | else | els
1628
                    \_ifx"#1\.checkbrefQ #1#2>\_else \.checkbrefD #1#2>\_fi\_fi
1629 }
1630 \_def\.checkbrefQ "#1"#2#3>{\.checkbrefD #2#3>}
1631 \_def\.checkbrefD #1>{%
                          \. isinlist{.#1}{ }\_iftrue\. checkbrefS#1>\_else\. checkbrefN#1>\_fi
1632
1633 }
1634 \_def\.checkbrefS #1 #2>{\.checkbrefN#2>}
1635 \_def\.checkbrefN #1>{%
                   \ensuremath{\mbox{\mbox{def}\.}}tmpb{#1}
1636
                   \_ifx\.tmpb\_empty \_errmessage{missing link data}\.nobref\_else
                           1638
1639
                           1640
                           \_ifdim\_wd0>0pt \_errmessage{nonnumeric link data}\.nobref\_fi
1641
1642
1643 }
1644 \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
1645 \_def\.currbook{}
1646 \_def\.prelinkB{BK}
1647 \_def\.prelinkC{BK}
1648 \_def\.prelinkV{0}
1649 \_def\nochapbooks{BK}
1650 \_let\<=<
1651
1652 \ensuremath{\def\x/\#1/{\def\.tmpb{\#1}}\%}
                   1653
                    \_else \_isinlist\.tmp<\_iftrue \.badx
1654
                   1656 }
1657 \_def\.badx{\_errmessage{unclosed \_string\x/.../}}
1658
1659 \_def\Article[#1]{}
1660 \_def\Cite #1 {\_par\_noindent{\_bf Cite: }}
1661 \_def\insertCite #1#2{}
1663 \_def\putArticle #1 #2[#3]#4(#5){}
1664 \_def\putCite #1:#2 {\_par\_noindent{\_bf Cite: }}
1665 \_def\putBot #1 #2[#3]#4(#5){\_vbox}
1667 \ def\c[#1/#2]#3{#3}
1669 \_long\_ea\_def\_csname Note\_endcsname #1 #2#3%
1670
                   1671
```

```
1672 }}
1673 \_nspublic \checksyntax ;
```

### 16 TODO macros

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

```
op-bible.opm
1684
     \_nobreak
1685 }
1686 \ensuremath{\mbox{\mbox{$\sim$}}} 1686 \ensuremath{\mbox{\mbox{\mbox{$\sim$}}}} 1686 \ensuremath{\mbox{$\sim$}}
1687
1688 \_nspublic \chaptit;
1690 \_sdef{_mt:intro:en}{Introduction}
                                  \ sdef{ mt:outline:en}{Outline}
1691 \_sdef{_mt:intro:cs}{Úvod}
                                  \_sdef{_mt:outline:cs}{Osnova}
1692
1693 \_def\dopsat{{\Red !!! DOPSAT !!! }}
1694
1695 \_def\.bibleinput#1 {\_bgroup
1696
     1697
      \_input{#1}%
1698
     \_egroup
1699 }
1700 \_let\FormatedBook=\_ignoreit % for backward compatibility
```

Active character < used for references.

```
op-bible.opm
1707 \_outer\_def\Note{\.Note}
1708
1709 \_def\_afterload{\_adef<{\.bref}}
1710 \_afterload
1711
1712 \_endnamespace
```

### 17 Index

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