XヨムTĘX-ja パッケージ

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1 はじめに

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これは $X_{T}IAT_{E}X$ で和文組版を行う実験的なパッケージである。

1.1 使い方

本パッケージは XHATEX 上で動作する。

\usepackge で読み込む。

 $\verb|\usepackage[|\langle options \rangle|] {\tt \{xelatexja\}}$

オプションは以下の通り。

- tate:文書全体を縦組みにする。
- jascale=〈fpexpr〉:和文フォントスケールを指定する。
- jfm=⟨name⟩: JFM を指定する。

本パッケージは $X_{\Xi}T_{E}X$ の「文字間トークン自動挿入機能」を独占的に利用する。これらを利用する他のパッケージとは共存できない。

2 expl3 インターフェイス

2.1 組方向

 $\label{limit} $$ \begin{array}{ll} \xltj_if_tate_document:TF {$\langle true\ code \rangle$} & \\ \xltj_if_tate_document:TF & \\ \end{array}$$$

文書全体が縦組かどうかの条件式。

\xltj_if_tate_text_p: * \xltj_if_tate_text:TF {\langle true code \rangle} {\xltj_if_tate_text: TF * \xltj_if_tate_text: TF * \xlty \xltj_if_tate_text: TF * \xlty \xltj_if_tate_text: TF * \xlty \xltj_if_tate_text: TF * \xlty \xl

2.2 フォント

\xltj_get_jascale: * \xltj_get_jascale:

和文フォントスケール値を取得する。

\l_xltj_zw_dim
\zw

和文文字サイズ。

2.3 文字クラス

 $\verb|\xltj_class_new_kanji:n \xltj_class_new_kanji:n \aligned \{\langle class\rangle\}|$

和文文字クラスを新規に作成する。

 $\verb|\xltj_class_new_alpha:n \xltj_class_new_alpha:n \(\langle class\rangle)|$

欧文文字クラスを新規に作成する。

\newXeTeXintercharclass で作成した文字クラスを和文文字クラスとして定義する。

 $\xilingtrians_new_alpha:nn \xilingtrians_new_alpha:nn {$\langle class \rangle$} {\langle integer \rangle$}$

\newXeTeXintercharclass で作成した文字クラスを欧文文字クラスとして定義する。

kanji/default alpha/default boundary ignored 定義済み文字クラス。

kanji/default デフォルトの和文文字クラス。

alpha/default デフォルトの欧文文字クラス。

boundary 文字境界。

ignored 無視される文字。

\xltj_char_set_class:nn

 $\x|tj_char_set_class:nn {\langle charcode \rangle} {\langle class \rangle}$

文字コードが〈charcode〉の文字の文字クラスを〈class〉に設定する。

 $\verb|\x|tj_char_set_class_range:nnn| & |\x|tj_char_set_class_range:nnn| & |\charcode_1\rangle & |\charcode_2\rangle & |\cha$

文字コードが $\langle charcode_1 \rangle$ から $\langle charcode_2 \rangle$ の文字の文字クラスを $\langle class \rangle$ に設定する。

\xltj_class_update:

\xltj_class_update:

文字クラス設定を更新する。

2.4 組版パラメーター

\xltj_set_kanjiskip:n

 $\xline xltj_set_kanjiskip:n {\langle t1 \rangle}$

和文間空白 (kanjiskip) を⟨tl⟩ に設定する。

 $\xline \xline \xline$

\xltj_get_kanjiskip:

kanjiskip を取得する。

\xltj_set_xkanjiskip:n

 $\xline xkanjiskip:n {\langle t1 \rangle}$

和欧文間空白(xkanjiskip)を $\langle tl \rangle$ に設定する。

\xltj_get_xkanjiskip: *

\xltj_get_xkanjiskip:

xkanjiskip を取得する。

2.4.1 グルー・カーン

\xltj_jfm_set_glue:nnn
\xltj_jfm_set_kern:nnn

 $\xspace{0.2cm} $$ \xltj_jfm_set_glue:nnn {$\langle class_1 \rangle$} {\langle class_2 \rangle$} {\langle glue \rangle$} \\ \xltj_jfm_set_kern:nnn {$\langle class_1 \rangle$} {\langle class_2 \rangle$} {\langle kern \rangle$}$

和文文字クラス間に挿入するグルー・カーンを設定する。 $\langle glue \rangle$ および $\langle kern \rangle$ は挿入時に評価される。グルーとカーンを同時に設定することはできず、後から設定した方で上書きされる。

和文文字クラス間に挿入するグルー・カーンを削除する。

2.4.2 文字幅調整

```
 \begin{tabular}{ll} $$ \x tj_jfm_set_precharwd:nn & \x tj_jfm_set_precharwd:nn & \x tj_jfm_set_postcharwd:nn & \x ttj_jfm_set_postcharwd:nn & \x ttj_jfm
```

和文文字クラスの文字幅調整を設定する。例えば全角の括弧類・句読点類を半角で組むために -0.5\zw を設定する。

和文文字クラスの文字幅調整を削除する。

2.4.3 禁則ペナルティ

和文文字クラス〈class〉の行頭・行末禁則ペナルティーを〈intexpr〉に設定する。

和文文字クラス〈class〉の行頭・行末禁則ペナルティー削除する。

2.4.4 和欧文間空白挿入設定

\xltj_jfm_set_xspmode:nn

 $\x|tj_jfm_set_xspmode:nn {\langle class \rangle} {\langle xspmode \rangle}$

文字クラス $\langle class \rangle$ の前後に和欧文間空白の挿入を許可するかどうかを設定する。 $\langle xspmode \rangle$ に指定できる値は以下の

inhibit 文字の前後とも和欧文間空白の挿入を許可しない。

preonly 文字の前のみ和欧文間空白の挿入を許可し、後ろには許可しない。

postonly 文字の後ろのみ和欧文間空白の挿入を許可し、前には許可しない。

allow 文字の前後とも和欧文間空白の挿入を許可する。(デフォルト)

2.5 ボックス

```
\xltj_box_yjabaselineshift:n
                                                                                                                                                                                               \verb|\xltj_box_yjabaselineshift:n {|\langle box\ function \rangle|}|
                             \xltj_box_tjabaselineshift:n
                                                                                                                                                   ボックスを和文ベースライン補正して挿入する。
\xltj_yoko_in_tate_hbox:n
                                                                                                                                                  \verb|\xltj_yoko_in_tate_hbox:n {|} \langle contents \rangle \}|
                             \xltj_yoko_in_tate_hbox_to_wd:nn
                                                                                                                                                                                                                     \xlin_{yoko_in\_tate\_hbox\_to\_wd:nn} {\langle dimexpr \rangle} {\langle contents \rangle}
                                                                                                                                                                                                                         \xltj_yoko_in_tate_hbox_to_zero:n {\langle contents \rangle}
                             \xltj_yoko_in_tate_hbox_to_zero:n
                             \xltj_yoko_in_tate_hbox_set:Nn
                                                                                                                                                                                                                \xltj_yoko_in_tate_hbox_set:Nn \langle box \ \{\contents\}
                             \xltj_yoko_in_tate_hbox_set:cn
                             \xltj_yoko_in_tate_hbox_gset:Nn
                             \xltj_yoko_in_tate_hbox_gset:cn
                            \xltj_yoko_in_tate_hbox_set_to_wd:Nnn
                                                                                                                                                                                                                                                    \xline 
                             \xltj_yoko_in_tate_hbox_set_to_wd:cnn
                                                                                                                                                                                                                                                    \{\langle contents \rangle\}
                             \xltj_yoko_in_tate_hbox_gset_to_wd:Nnn
                             \xltj_yoko_in_tate_hbox_gset_to_wd:cnn
                                                                                                                                                                                                                                                               \verb|\xltj_yoko_in_tate_hbox_overlap_center:n \{|\langle contents|\rangle\}|
                             \xltj_yoko_in_tate_hbox_overlap_center:n
                                                                                                                                                                                                                                                         \verb|\xltj_yoko_in_tate_hbox_overlap_right:n \{|\langle contents|\rangle|\}|
                             \xltj_yoko_in_tate_hbox_overlap_right:n
                             \xltj_yoko_in_tate_hbox_overlap_left:n
                                                                                                                                                                                                                                                    \xltj_yoko_in_tate_hbox_overlap_left:n {\langle contents \rangle}
                                                                                                                                                  \verb|\xltj_yoko_in_tate_vbox:n \{|\langle contents|\rangle\}|
\xltj_yoko_in_tate_vbox:n
                             \xltj_yoko_in_tate_vbox_to_ht:nn
                                                                                                                                                                                                                    \xilingtriangleright = \xilingtriangleright
                             \xltj_yoko_in_tate_vbox_to_zero:n
                                                                                                                                                                                                                          \xltj_yoko_in_tate_vbox_to_zero:n {\langle contents \rangle}
                             \xltj_yoko_in_tate_vbox_set:Nn
                                                                                                                                                                                                               \time \tim
                             \xltj_yoko_in_tate_vbox_set:cn
                             \xltj_yoko_in_tate_vbox_gset:Nn
                             \xltj_yoko_in_tate_vbox_gset:cn
```

```
\xline 
                    \xltj_yoko_in_tate_vbox_set_to_ht:Nnn
                    \xltj_yoko_in_tate_vbox_set_to_ht:cnn
                                                                                                                                                                             \{\langle contents \rangle\}
                    \xltj_yoko_in_tate_vbox_gset_to_ht:Nnn
                    \xltj_yoko_in_tate_vbox_gset_to_ht:cnn
                                                                                                       \time \sum_{i=1}^{\infty} \{contents\}
\xltj_tate_in_yoko_hbox:n
                                                                                                                                                       \xltj_tate_in_yoko_hbox_to_wd:nn {\langle dimexpr \rangle} {\langle contents \rangle}
                    \xltj_tate_in_yoko_hbox_to_wd:nn
                                                                                                                                                          \xitj_tate_in_yoko_hbox_to_zero:n {(contents)}
                    \xltj_tate_in_yoko_hbox_to_zero:n
                                                                                                                                                   \time \tim
                    \xltj_tate_in_yoko_hbox_set:Nn
                    \xltj_tate_in_yoko_hbox_set:cn
                    \xltj_tate_in_yoko_hbox_gset:Nn
                    \xltj_tate_in_yoko_hbox_gset:cn
                    \xltj_tate_in_yoko_hbox_set_to_wd:Nnn
                                                                                                                                                                             \xilingty x = in_yoko_hbox_set_to_wd:Nnn \xilingty \{ \xilingty \} 
                    \xltj_tate_in_yoko_hbox_set_to_wd:cnn
                                                                                                                                                                             \{\langle contents \rangle\}
                    \xltj_tate_in_yoko_hbox_gset_to_wd:Nnn
                    \xltj_tate_in_yoko_hbox_gset_to_wd:cnn
                    \xltj_tate_in_yoko_hbox_overlap_center:n
                                                                                                                                                                                     \x|tj_tate_in_yoko_hbox_overlap_center:n {(contents)}
                    \xltj_tate_in_yoko_hbox_overlap_right:n
                                                                                                                                                                                \xltj_tate_in_yoko_hbox_overlap_right:n {(contents)}
                    \xltj_tate_in_yoko_hbox_overlap_left:n
                                                                                                                                                                             \xltj_tate_in_yoko_hbox_overlap_left:n {(contents)}
\xltj_tate_in_yoko_vbox:n
                                                                                                       \time \sum_{i=1}^{\infty} \{contents\}
                                                                                                                                                       \time = \sum_{i=1}^{n} yoko_vbox_to_ht:nn {\langle dimexpr \rangle} {\langle contents \rangle}
                    \xltj_tate_in_yoko_vbox_to_ht:nn
                    \xltj_tate_in_yoko_vbox_to_zero:n
                                                                                                                                                          \xltj_tate_in_yoko_vbox_to_zero:n \{\langle contents \rangle\}
                    \xltj_tate_in_yoko_vbox_set:Nn
                                                                                                                                                   \x|tj_tate_in_yoko_vbox_set:Nn \langle box \rangle \{\langle contents \rangle\}
                    \xltj_tate_in_yoko_vbox_set:cn
                    \xltj_tate_in_yoko_vbox_gset:Nn
                    \xltj_tate_in_yoko_vbox_gset:cn
```

```
\xltj_tate_in_yoko_vbox_set_to_ht:Nnn \xltj_tate_in_yoko_vbox_set_to_ht:nnn \xltj_tate_in_yoko_vbox_gset_to_ht:Nnn \xltj_tate_in_yoko_vbox_gset_to_ht:nnn \xltj_tate_in_yoko_vbox_gset_to_ht:nnn \xltj_tate_in_yoko_vbox_gset_to_ht:nnn \xltj_tate_in_yoko_vbox_gset_to_ht:nnn \xltj_tate_in_yoko_vbox_set_to_ht:Nnn \xltj_tate_in_yoko_vbox_set
```

3 実装

1 \langle*package\rangle
2 \langle @@=xltj \rangle

```
XfTfX が必要。
                              3 \msg_new:nnn { xelatexja } { needs-xetex }
                                 { XeLaTeX-ja~needs~XeTeX. }
                              5 \sys_if_engine_xetex:F
                                    \msg_critical:nn { xelatexja } { needs-xetex }
                              依存パッケージの読込。
                              9 \RequirePackage{13keys2e,xparse}
                                  変数
                            3.1
                           文書全体が縦組かどうかを表す変数。
\g__xltj_tate_document_bool
                              10 \bool_new:N \g__xltj_tate_document_bool
                            (End definition for \g__xltj_tate_document_bool.)
   \l__xltj_tate_text_bool 現在の組方向が縦組かどうかを表す変数。
                              11 \bool_new:N \l__xltj_tate_text_bool
                            (End\ definition\ for\ \l_xltj\_tate\_text\_bool.)
       \g__xltj_jascale_fp 和文フォントスケール値。
                              12 \fp_new:N \g__xltj_jascale_fp
                              ^{13} fp_gset:Nn g_xltj_jascale_fp { 1 }
                            (End\ definition\ for\ \g_xltj_jascale_fp.)
            \1_xltj_zw_dim 和文フォント全角寸法。
                            14 \dim_new:N \l_xltj_zw_dim
                              15 \cs_new_eq:NN \zw \l_xltj_zw_dim
                            (End definition for \l_xltj_zw_dim and \zw. These functions are documented on page 3.)
     \1__xltj_kanjiskip_tl 和文文字間に挿入するグルー。
                              16 \tl_new:N \l__xltj_kanjiskip_tl
                              17 \tl_set:Nn \l__xltj_kanjiskip_tl { 0.0pt plus 0.4pt minus 0.5pt }
                            (End definition for \l__xltj_kanjiskip_tl.)
```

```
\l__xltj_xkanjiskip_tl 和欧文間に挿入するグルー。
                               18 \tl_new:N \l_xltj_xkanjiskip_tl
                               19 \tl_set:Nn \l__xltj_xkanjiskip_tl { 0.25\l_xltj_zw_dim plus 1.0pt minus 1.0pt }
                              (End\ definition\ for\ \l_xltj_xkanjiskip_tl.)
       \g__xltj_jfm_name_tl
                               20 \tl_new:N \g__xltj_jfm_name_tl
                              (End definition for \g__xltj_jfm_name_tl.)
\l__xltj_yjabaselineshift_tl それぞれ横組み・縦組みでの和文ベースラインの補正値。(u)pIFTFX とは異なり欧文では
\l__xltj_tjabaselineshift_tl なく和文に対して補正を行う。正の値が設定されている場合、和文のベースラインを指定
                              値だけ行送り方向に移動する。
                               21 \tl_new:N \l__xltj_yjabaselineshift_tl
                               22 \tl_new:N \l__xltj_tjabaselineshift_tl
                               23 \tl_set:Nn \l__xltj_yjabaselineshift_tl { 0\l_xltj_zw_dim }
                               ^{24} \tl_set:Nn \l_xltj_tjabaselineshift_tl { -0.38\l_xltj_zw_dim }
                              (\mathit{End \ definition \ for \ } \ l\_xltj\_yjabaselineshift\_tl.\ \mathit{and \ } \ l\_xltj\_tjabaselineshift\_tl.)
            \l_xltj_tmpa_tl 一時変数。
                             25 \tl_new:N \l__xltj_tmpa_tl
            \l__xltj_tmpb_tl
                               26 \tl_new:N \l__xltj_tmpb_tl
           \l__xltj_tmpa_dim
                               27 \dim_new:N \l__xltj_tmpa_dim
                               28 \seq_new:N \l__xltj_tmpa_seq
                              (End\ definition\ for\ \verb|\l_x|tj_tmpa_tl|,\ \verb|\l_x|tj_tmpb_tl|,\ and\ \verb|\l_x|tj_tmpa_dim|.)
                              3.2 ヘルパー関数
                               29 \cs_new:Npn \__xltj_swap_dim:NN #1#2
                               30
                                   {
                                     \dim_set_eq:NN \l__xltj_tmpa_dim #1
                               31
                                     \dim_set_eq:NN #1 #2
                               32
                                     \dim_set_eq:NN #2 \l__xltj_tmpa_dim
                               33
                               34
                              3.3 オプション
                               35 \keys_define:nn { xelatexja }
                               36
                                     tate .bool_gset:N = \g__xltj_tate_document_bool,
                                      jascale .fp_gset:N = \g__xltj_jascale_fp,
                                      jfm .tl_gset:N = \g__xltj_jfm_name_tl,
                               41 \keys_set:nn { xelatexja } { jfm = standard }
                               42 \ProcessKeysOptions { xelatexja }
                              3.4
                                   組方向
```

43 \bool_set_eq:NN \l__xltj_tate_text_bool \g__xltj_tate_document_bool

```
文書全体が縦組かどうかの条件式。
\xltj_if_tate_document_p:
                             44 \prg_new_conditional:Npnn \xltj_if_tate_document: { p, T, F, TF }
\xltj_if_tate_document: TF
                             45
                                 {
                                    \bool_if:NTF \g__xltj_tate_document_bool
                             46
                                     { \prg_return_true: } { \prg_return_false: }
                             47
                             48
                           (End definition for \xltj_if_tate_document:TF. This function is documented on page 3.)
                          現在の組方向が縦組かどうかの条件式。
   \xltj_if_tate_text_p:
                             49 \prg_new_conditional:Npnn \xltj_if_tate_text: { p, T, F, TF }
   \xltj_if_tate_text:TF
                             50
                             51
                                   \bool_if:NTF \l__xltj_tate_text_bool
                                     { \prg_return_true: } { \prg_return_false: }
                             52
                             53
                           (End definition for \xltj_if_tate_text:TF. This function is documented on page 3.)
                                  フォント
                           3.5
                             54 \dim_new:N \l_xltj_em_dim
                             55 \tl_new:N \l__xltj_yoko_kanji_font_tl
                             56 \tl_new:N \l__xltj_tate_kanji_font_tl
                             57 \tl_new:N \l__xltj_alpha_font_tl
                             58 \cs_new:Npn \xltj_set_yoko_kanji_font:n #1
                                 { \tl_set:Nn \l__xltj_yoko_kanji_font_tl {#1} }
                             60 \cs_new:Npn \xltj_set_tate_kanji_font:n #1
                                 { \tl_set:Nn \l__xltj_tate_kanji_font_tl {#1} }
                             62 \cs_new:Npn \xltj_set_alpha_font:n #1
                                 { \tl_set:Nn \l__xltj_alpha_font_tl {#1} }
                             64 \cs_generate_variant:Nn \xltj_set_yoko_kanji_font:n { x }
                             65 \cs_generate_variant:Nn \xltj_set_tate_kanji_font:n { x }
                             66 \cs_generate_variant:Nn \xltj_set_alpha_font:n { x }
       \xltj_get_jascale: 和文フォントスケール値を取得する。
                             67 \cs_new:Npn \xltj_get_jascale:
                                 { \fp_use:N \g__xltj_jascale_fp }
                           (End definition for \xltj_get_jascale:. This function is documented on page 3.)
                             69 \hook_gput_code:nnn { selectfont } { . }
                             70
                             71
                                    \dim_set:Nn \l_xltj_zw_dim
                                     { \fp_to_dim:n { \g__xltj_jascale_fp * \f@size } }
                                    \dim_set:Nn \l_xltj_em_dim { 1em }
                             73
                                    \xltj_set_yoko_kanji_font:x
                             74
                                        \exp_not:N \__xltj_select_yoko_kanji_font:nnnn
                                          { \l_xltj_kanji_family_tl }
                             77
                                          { \f@series } { \f@shape } { \f@size }
                             78
                                     }
                             79
                                   \xltj_set_tate_kanji_font:x
                             80
                             81
                                        \exp_not:N \__xltj_select_tate_kanji_font:nnnn
                             82
```

```
{ \l__xltj_kanji_family_tl }
83
             { \f0series } { \f0shape } { \f0size }
84
85
      \xltj_set_alpha_font:x { \tex_the:D \tex_font:D }
86
和文フォントエンコーディング。横組みは JY4、縦組みは JT4。
88 \str_const:Nn \c_xltj_yoko_encoding_str { JY4 }
89 \str_const:Nn \c_xltj_tate_encoding_str { JT4 }
90 \prop_new:N \g__xltj_kanji_family_prop
91 \prop_new:N \g__xltj_kanji_shape_prop
92 \tl_new:N \l__xltj_kanji_family_tl
  \cs_new:Npn \xltj_declare_kanji_family:nn #1#2
       \prop_gput:Nnn \g__xltj_kanji_family_prop {#1} {#2}
97 \cs_generate_variant:Nn \xltj_declare_kanji_family:nn { xn }
  \cs_new:Npn \xltj_declare_kanji_shape:nnnn #1#2#3#4
99
       \prop_gput:Nnn \g__xltj_kanji_shape_prop { #1 / #2 / #3 } {#4}
100
  \cs_generate_variant:Nn \xltj_declare_kanji_shape:nnnn { xxxx }
  \cs_new:Npn \xltj_set_kanji_family:n #1
104
    {
       \tl_set:Nx \l__xltj_kanji_family_tl {#1}
105
106
  \cs_generate_variant:Nn \xltj_set_kanji_family:n { x }
107
   cs_new:Npn \__xltj_select_yoko_kanji_font:nnnn #1#2#3#4
108
109
       \__xltj_select_kanji_font:nnnnn
         { \c_xltj_yoko_encoding_str } {#1} {#2} {#3} {#4} {}
       \xltj_set_yoko_kanji_font:x { \tex_the:D \tex_font:D }
    }
  \cs_new:Npn \__xltj_select_tate_kanji_font:nnnn #1#2#3#4
114
         _xltj_select_kanji_font:nnnnn
116
         { \c_xltj_tate_encoding_str } {#1} {#2} {#3} {#4} { vertical }
       \xltj_set_tate_kanji_font:x { \tex_the:D \tex_font:D }
118
119
  \cs_new:Npn \__xltj_select_kanji_font:nnnnnn #1#2#3#4#5#6
120
       \exp_args:Nc \__xltj_select_kanji_font:Nnnnnn
         { #1/#2/#3/#4/#5 } {#2} {#3} {#4} {#5} {#6}
    }
124
  \cs_new:Npn \__xltj_select_kanji_font:Nnnnnn #1#2#3#4#5#6
125
126
       \cs_if_exist:NF #1
127
128
           \__xltj_select_kanji_font_new:Nnnnnn
             #1 {#2} {#3} {#4} {#5} {#6}
130
131
```

```
132
      #1
    }
  \cs_new:Npn \__xltj_select_kanji_font_new:Nnnnnn #1#2#3#4#5#6
134
135
       \dim_set:Nn \l__xltj_tmpa_dim
         { \fp_to_dim:n { #5 * \g__xltj_jascale_fp } }
       \seq_clear:N \l__xltj_tmpa_seq
138
       \seq_put_right:Nn \l__xltj_tmpa_seq { #2/#3/#4 }
139
       \tl_if_eq:nnF {#4} { n }
140
        { \left\{ \sum_{i=1}^{n} \frac{1}{x_i} \right\} }
141
       \tl_if_eq:nnF {#3} { m }
142
        { \left\{ \sum_{i=1}^{n} \frac{1}{n} \right\} }
143
       \tl_if_eq:nnF {#2} { mc }
144
        { \seq_put_right: Nn \l__xltj_tmpa_seq { mc/m/n } }
145
       \seq_map_inline:Nn \l__xltj_tmpa_seq
146
           \__xltj_select_kanji_font_new_try:NnnnT #1
149
             {##1} { \l__xltj_tmpa_dim } {#6}
             {
               \tl_if_eq:nnF { #2/#3/#4 } {##1}
                   \msg_warning:nnxx { xelatexja } { kanji-shape-instead }
                     { #2/#3/#4 } {##1}
154
155
               \seq_map_break:n { \use_none:n }
156
        }
160
           \msg_error:nnx { xelatexja } { kanji-shape-undefined }
             { #2/#3/#4 }
161
           \cs_gset_eq:NN #1 \nullfont
162
163
164
165
  \msg_new:nnn { xelatexja } { kanji-shape-instead }
    { Kanji~shape~'#1'~undefined.~using '#2'~instead. }
166
  \msg_new:nnn { xelatexja } { kanji-shape-undefined }
    { Kanji~shape~'#1'~undefined. }
  \prg_new_conditional:Npnn \__xltj_select_kanji_font_new_try:Nnnn #1#2#3#4
169
    { T }
170
    {
171
       \prop_get:NnNTF \g__xltj_kanji_shape_prop {#2}
         \l__xltj_tmpa_tl
173
174
           \tl_if_empty:nF {#4}
175
176
            {
               \tl_if_in:NnTF \l__xltj_tmpa_tl { : }
177
                 178
                 { \t = \{ tl\_put\_right: Nn \t = xltj\_tmpa\_tl { : #4 } }
179
180
           \exp_args:NNV
181
             \__xltj_new_kanji_font:Nnn #1 \l__xltj_tmpa_tl {#3}
182
183
           \prg_return_true:
```

```
\prg_return_false:
                     186
                     187
                     188
                        \cs_new:Npn \__xltj_new_kanji_font:Nnn #1#2#3
                            \tex_global:D \tex_font:D #1 = "#2" ~ at ~ #3 \scan_stop:
                          }
                     192
                    3.5.1 フォント設定
                    明朝(mc)とゴシック(gt)ファミリーを定義する。
                     193 \xltj_declare_kanji_family:nn { mc } {}
                     194 \xltj_declare_kanji_family:nn { gt } {}
                     195 \xltj_declare_kanji_shape:nnnn { mc } { m } { n }
                          { [HaranoAjiMincho-Regular.otf]:+fwid }
                     197 \xltj_declare_kanji_shape:nnnn { gt } { m } { n }
                          { [HaranoAjiGothic-Medium.otf]:+fwid }
                     199 \xltj_declare_kanji_shape:nnnn { mc } { b } { n }
                          { [HaranoAjiGothic-Medium.otf]:+fwid }
                     201 \xltj_declare_kanji_shape:nnnn { gt } { b } { n }
                          { [HaranoAjiGothic-Medium.otf]:+fwid }
                     203 \xltj_declare_kanji_shape:nnnn { mc } { bx } { n }
                          { [HaranoAjiGothic-Medium.otf]:+fwid }
                     205 \xltj_declare_kanji_shape:nnnn { gt } { bx } { n }
                          { [HaranoAjiGothic-Medium.otf]:+fwid }
                     207 \xltj_set_kanji_family:n { mc }
                    3.6
                           文字クラス
                    文字間トークン挿入機能の有効化
                     208 \tex_XeTeXinterchartokenstate:D = 1 ~
\g__xltj_class_seq 文字クラス一覧。
                     209 \seq_new:N \g__xltj_class_seq
                    (End definition for \g__xltj_class_seq.)
                        \msg_new:nnnn { xelatexja } { class-exists }
                          { Class~'#1'~has~already~been~declared. }
                            There-already-exists-a-class-declaration-with-this-name.\\
                     213
                            Please~use~a~different~name~for~your~class.
                     214
                     215
                          }
\__xltj_class_new:n 新しい文字クラスを定義する。
                     216 \cs_new:Npn \__xltj_class_new:n #1
                     217
                            \seq_if_in:NnTF \g__xltj_class_seq {#1}
                                \msg_error:nnn { xelatexja } { class-exists } {#1}
```

```
}
                                        {
                                           \exp_args:Nc
                              223
                                             \newXeTeXintercharclass
                              224
                                             { c__xltj_class_#1_int }
                              225
                                           \seq_gput_right:Nn \g__xltj_class_seq {#1}
                              226
                              227
                                    }
                              228
                             (End\ definition\ for\ \verb|\__xltj_class_new:n.|)
    \__xltj_class_new:nn 文字クラスを定義する。
                              229 \cs_new:Npn \__xltj_class_new:nn #1#2
                                      \seq_if_in:NnTF \g__xltj_class_seq {#1}
                                           \msg_error:nnn { xelatexja } { class-exists } {#1}
                                        }
                              234
                              235
                                           \int_const:cn
                              236
                                             { c__xltj_class_#1_int }
                              237
                              238
                                             {#2}
                                           \seq_gput_right:Nn \g__xltj_class_seq {#1}
                              239
                                    }
                             (End\ definition\ for\ \verb|\__xltj_class_new:nn.|)
     \__xltj_class_use:n
                              242 \cs_new:Npn \__xltj_class_use:n #1
                              243
                                      \int_use:c
                              244
                                        { c__xltj_class_#1_int }
                              245
                              246
                             (End definition for \__xltj_class_use:n.)
\g__xltj_class_kanji_seq
                              \g__xltj_class_alpha_seq
                              248 \seq_new:N \g__xltj_class_alpha_seq
                             (\mathit{End \ definition \ for \ \ \ } g\_xltj\_class\_kanji\_seq \ \mathit{and \ \ } g\_xltj\_class\_alpha\_seq.)
                            和文・欧文文字クラスを新規に作成する。
\xltj_class_new_kanji:n
                              249 \cs_new:Npn \xltj_class_new_kanji:n #1
\xltj_class_new_alpha:n
                              250
                                      \__xltj_class_new:n {#1}
                                      \seq_gput_right: Nn \g__xltj_class_kanji_seq {#1}
                                   }
                              254 \cs_new:Npn \xltj_class_new_alpha:n #1
                              255
                                      \__xltj_class_new:n {#1}
                              256
                                      \ensuremath{\verb|seq_gput_right||} \ensuremath{\verb|seq_x||} tj_class_alpha_seq \ensuremath{|} \#1)
                              257
                              258
```

(End definition for \xltj_class_new_kanji:n and \xltj_class_new_alpha:n. These functions are documented on page 3.)

```
\xltj_class_new_kanji:nn
                             259 \cs_new:Npn \xltj_class_new_kanji:nn #1#2
\xltj_class_new_alpha:nn
                             260
                                    \_xltj_class_new:nn {#1} {#2}
                             261
                                    \seq_gput_right:Nn \g__xltj_class_kanji_seq {#1}
                             262
                                  }
                                \cs_new:Npn \xltj_class_new_alpha:nn #1#2
                                     __xltj_class_new:nn {#1} {#2}
                             266
                                    \seq_gput_right:Nn \g__xltj_class_alpha_seq {#1}
                             267
                             268
                            (End definition for \xltj_class_new_kanji:nn and \xltj_class_new_alpha:nn. These functions are
                            documented on page 3.)
           kanji/default
                             269 \xltj_class_new_kanji:n { kanji/default }
           alpha/default
                             _{\rm 270} \ \ alpha/default } { 0 }
                 boundary
                             _{271} \_xltj_class_new:nn { boundary } { 4095 }
                  ignored
                             272 \_xltj_class_new:nn { ignored } { 4096 }
                            (End definition for kanji/default and others. These functions are documented on page 4.)
 \xltj_char_set_class:nn
                             273 \cs_new:Npn \xltj_char_set_class:nn #1#2
                             274
                                    \tex_XeTeXcharclass:D \int_eval:n {#1} = \__xltj_class_use:n {#2} ~
                             275
                            (End definition for \xltj_char_set_class:nn. This function is documented on page 4.)
    \xltj_char_set_class_range:nnn
                             277 \cs_new:Npn \xltj_char_set_class_range:nnn #1#2#3
                                    \int_step_inline:nnn {#1} {#2}
                             279
                             280
                                        \xltj_char_set_class:nn {##1} {#3}
                             281
                             282
                             283
                            (End definition for \x1tj_char_set_class_range:nnn. This function is documented on page 4.)
                          文字クラス設定を更新する。
     \xltj_class_update:
                             284 \cs_new:Npn \xltj_class_update:
                                    \seq_map_inline: Nn \g__xltj_class_kanji_seq
                             287
                                        \seq_map_inline: Nn \g__xltj_class_kanji_seq
                             288
                             289
                                             \__xltj_interchar_gset:nnn {##1} {####1}
                             290
                                               { \_xltj_interchar_kanji_to_kanji:nn {##1} {####1} }
                             291
```

```
\seq_map_inline:Nn \g__xltj_class_alpha_seq
                               293
                                            {
                                               \__xltj_interchar_gset:nnn {##1} {###1}
                                                 { \__xltj_interchar_kanji_to_alpha:nn {##1} {####1} }
                                               \__xltj_interchar_gset:nnn {####1} {##1}
                                                 { \__xltj_interchar_alpha_to_kanji:nn {####1} {##1} }
                                            }
                                          \__xltj_interchar_gset:nnn {##1} { boundary }
                                            { \__xltj_interchar_kanji_to_boundary:n {##1} }
                                          \__xltj_interchar_gset:nnn { boundary } {##1}
                                            { \__xltj_interchar_boundary_to_kanji:n {##1} }
                               303
                               304
                                      \seq_map_inline:Nn \g__xltj_class_alpha_seq
                               305
                               306
                                          \__xltj_interchar_gset:nnn {##1} { boundary }
                               307
                                            { \__xltj_interchar_alpha_to_boundary:n {##1} }
                               308
                                          \__xltj_interchar_gset:nnn { boundary } {##1}
                                            { \__xltj_interchar_boundary_to_alpha:n {##1} }
                                        }
                               311
                                    }
                               312
                              (End definition for \xltj_class_update:. This function is documented on page 4.)
                             文字クラス間挿入トークンを設定する。
\__xltj_interchar_gset:nnn
                               313 \cs_new:Npn \__xltj_interchar_gset:nnn #1#2#3
                                    {
                               314
                                      \tex_global:D \tex_XeTeXinterchartoks:D
                               315
                                        \_xltj_class_use:n \ \{\#1\} \sim \_xltj_class_use:n \ \{\#2\} = \{\#3\}
                               316
                                    }
                               317
                              (End definition for \__xltj_interchar_gset:nnn.)
                             和文→和文に挿入するトークン。
  \_xltj_interchar_kanji_to_kanji:nn
                               318 \cs_new:Npn \__xltj_interchar_kanji_to_kanji:nn #1#2
                               319
                                      \__xltj_jfm_use_postcharwd:n {#1}
                               320
                                      \__xltj_jabaselineshift_end:
                               321
                                      \__xltj_jfm_use_postbreakpenalty:n {#1}
                               322
                                      \__xltj_jfm_use_prebreakpenalty:n {#2}
                                      \__xltj_jfm_use_glue_kern_or:nnn {#1} {#2}
                                        { \__xltj_glue:n { \l__xltj_kanjiskip_tl } }
                                      \__xltj_jabaselineshift_begin:
                               326
                                      \__xltj_jfm_use_precharwd:n {#2}
                               327
                                      \% \times \text{iow\_term:n} \{ K2K:~\#1->\#2 \}
                               328
                                      \scan_stop:
                               329
                               330
                              (End\ definition\ for\ \_xltj\_interchar\_kanji\_to\_kanji:nn.)
  \ xltj interchar alpha to kanji:nn 和文→欧文に挿入するトークン。
                               331 \cs_new:Npn \__xltj_interchar_kanji_to_alpha:nn #1#2
                               332
                               333
                                      \__xltj_jfm_use_postcharwd:n {#1}
```

}

```
334
                                     \__xltj_jabaselineshift_end:
                                     \__xltj_jfm_use_postbreakpenalty:n {#1}
                              335
                                     \__xltj_jfm_use_glue_kern_or:nnn {#1} { kanji/default }
                              336
                                       {
                              337
                                          \__xltj_jfm_if_xspmode_inhibit:nnF {#1} {#2}
                              338
                                            { \__xltj_glue:n { \l__xltj_xkanjiskip_tl } }
                              339
                                       }
                              340
                                     \__xltj_swich_alpha_font:
                              341
                                     % \iow_term:n { K2A:~#1->#2 }
                              342
                              343
                                     \scan_stop:
                              344
                             (End definition for \__xltj_interchar_alpha_to_kanji:nn.)
                             欧文→和文に挿入するトークン。
 \ xltj interchar kanji to alpha:nn
                                 \cs_new:Npn \__xltj_interchar_alpha_to_kanji:nn #1#2
                              347
                                     \__xltj_swich_kanji_font:
                                     \__xltj_jfm_use_prebreakpenalty:n {#2}
                              348
                                     \__xltj_jfm_use_glue_kern_or:nnn { kanji/default } {#2}
                              349
                              350
                                          \__xltj_jfm_if_xspmode_inhibit:nnF {#1} {#2}
                              351
                                            { \__xltj_glue:n { \l__xltj_xkanjiskip_tl } }
                              352
                              353
                                     \__xltj_jabaselineshift_begin:
                              354
                                     \__xltj_jfm_use_precharwd:n {#2}
                              355
                                     % \iow_term:n { A2K:~#1->#2 }
                                     \scan_stop:
                              357
                                   }
                              358
                             (End definition for \__xltj_interchar_kanji_to_alpha:nn.)
                            和文→境界に挿入するトークン。
\ xltj interchar kanji to boundary:n
                              359
                                 \cs_new:Npn \__xltj_interchar_kanji_to_boundary:n #1
                              360
                                      \__xltj_jfm_use_postcharwd:n {#1}
                                     \__xltj_jabaselineshift_end:
                                     \__xltj_jfm_use_postbreakpenalty:n {#1}
                              363
                                     \__xltj_swich_alpha_font:
                                     % \iow_term:n { K2B:~#1->boundary }
                              365
                                     \scan_stop:
                              366
                                     \peek_catcode_ignore_spaces:NTF \c_math_toggle_token
                              367
                              368
                                          \__xltj_jfm_use_glue_kern_or:nnn {#1} { kanji/default }
                              370
                                              \__xltj_jfm_if_xspmode_inhibit:nnF {#1} { kanji/default }
                                                { \__xltj_glue:n { \l__xltj_xkanjiskip_tl } }
                              373
                                       }
                              374
                              375
                                       ₹
                                            _xltj_lastnode_kanji:n {#1}
                              376
                              377
                                   }
                              378
                             (End definition for \__xltj_interchar_kanji_to_boundary:n.)
```

```
\_xltj_interchar_boundary_to_kanji:n 境界→和文に挿入するトークン。
                              379 \cs_new:Npn \__xltj_interchar_boundary_to_kanji:n #1
                              380
                                      \__xltj_lastnode_check:
                              381
                                      \__xltj_swich_kanji_font:
                              382
                                      \__xltj_jfm_use_prebreakpenalty:n {#1}
                              383
                                      \__xltj_lastnode_switch:nnn
                              384
                              385
                                          \__xltj_jfm_use_glue_kern_or:nnn { kanji/default } {#1}
                              386
                                              \__xltj_jfm_if_xspmode_inhibit:nnF { kanji/default } {#1}
                                                { \__xltj_glue:n { \l__xltj_xkanjiskip_tl } }
                              390
                                       }
                              391
                              392
                                          \__xltj_jfm_use_glue_kern_or:nnn
                              393
                                            { \g__xltj_lastnode_class_tl } {#1}
                              394
                                            { \__xltj_glue:n { \l__xltj_kanjiskip_tl } }
                              395
                                       }
                              396
                              397
                                          \__xltj_jfm_use_glue_kern_or:nnn
                                            { kanji/default } {#1}
                              400
                                              \__xltj_jfm_if_xspmode_inhibit:nnF
                              401
                                                { \g_xltj_lastnode_class_tl } {#1}
                              402
                                                { \__xltj_glue:n { \l__xltj_xkanjiskip_tl } }
                              403
                              404
                                       }
                              405
                                      \__xltj_jabaselineshift_begin:
                              406
                                      \__xltj_jfm_use_precharwd:n {#1}
                              407
                                      \__xltj_lastnode_clear:
                                     % \iow_term:n { B2K:~boundary->#1 }
                                     \scan_stop:
                                   }
                              411
                             (End definition for \__xltj_interchar_boundary_to_kanji:n.)
\_xltj_interchar_alpha_to_boundary:n
                            欧文→境界に挿入するトークン。
                              412 \cs_new:Npn \__xltj_interchar_alpha_to_boundary:n #1
                              413
                                      \__xltj_lastnode_alpha:n {#1}
                              414
                                     % \iow_term:n { A2B:~#1->boundary }
                              415
                                     \scan_stop:
                              416
                                   }
                              417
                             (\mathit{End \ definition \ for \ } \verb|\_xltj_interchar_alpha_to_boundary:n.)
\_xltj_interchar_boundary_to_alpha:n 境界→欧文に挿入するトークン。
                              418 \cs_new:Npn \__xltj_interchar_boundary_to_alpha:n #1
                                      \__xltj_lastnode_check:
                              420
                                     \__xltj_lastnode_switch:nnn
                              421
                                       {}
                              422
                                        {
                              423
```

```
{ \g__xltj_lastnode_class_tl } { kanji/default }
                             425
                                           {
                             426
                                                _xltj_jfm_if_xspmode_inhibit:nnF
                             427
                                               { \g__xltj_lastnode_class_tl } {#1}
                             428
                                               { \__xltj_glue:n { \l__xltj_xkanjiskip_tl } }
                             429
                                           }
                             430
                                      }
                             431
                                      {}
                             432
                             433
                                    \__xltj_lastnode_clear:
                                    % \iow_term:n { B2A:~boundary->#1 }
                             434
                             435
                                    \scan_stop:
                             436
                            (End definition for \__xltj_interchar_boundary_to_alpha:n.)
                                \cs_new:Npn \__xltj_swich_kanji_font:
                             438
                                    \xltj_if_tate_text:TF
                             439
                                      { \l__xltj_tate_kanji_font_tl }
                             440
                                       { \l__xltj_yoko_kanji_font_tl }
                             441
                             442
                                \cs_new:Npn \__xltj_swich_alpha_font:
                             443
                             444
                                  {
                                    \l__xltj_alpha_font_tl
                             445
                             447 \bool_new:N \l__xltj_lastnode_math_bool
                             448 \bool_new:N \g__xltj_lastnode_kanji_bool
                             449 \bool_new:N \g__xltj_lastnode_alpha_bool
                             450 \t \ \g_xltj_lastnode_class_tl
\__xltj_lastnode_kanji:n
                             451 \cs_new:Npn \__xltj_lastnode_kanji:n #1
\__xltj_lastnode_alpha:n
                             452
\__xltj_lastnode_clear:
                                    \verb|\bool_gset_true:N \g_xltj_lastnode_kanji_bool|
                             453
                                    \bool_gset_false:N \g__xltj_lastnode_alpha_bool
                             454
                                    \tl_gset:Nn \g__xltj_lastnode_class_tl {#1}
                             455
                                  }
                             456
                             457
                                \cs_new:Npn \__xltj_lastnode_alpha:n #1
                             458
                             459
                                    \bool_gset_false:N \g__xltj_lastnode_kanji_bool
                                    \bool_gset_true:N \g__xltj_lastnode_alpha_bool
                                    \tl_gset:Nn \g__xltj_lastnode_class_tl {#1}
                                  }
                                \cs_new:Npn \__xltj_lastnode_clear:
                             463
                             464
                                    \bool_gset_false:N \g__xltj_lastnode_kanji_bool
                             465
                                    \bool_gset_false:N \g__xltj_lastnode_alpha_bool
                             466
                             467
                            (End definition for \__xltj_lastnode_kanji:n, \__xltj_lastnode_alpha:n, and \__xltj_lastnode_-
                            clear:.)
\__xltj_lastnode_check:
```

__xltj_lastnode_switch:nnn

__xltj_jfm_use_glue_kern_or:nnn

```
468 \bool_new:N \l__xltj_lastpenalty_bool
 469 \int_new:N \l__xltj_lastpenalty_int
 470 \cs_new:Npn \__xltj_lastnode_check:
 471
直前の node が penalty node の時は一旦取り除いてから判定する。
        \bool_set_false:N \l__xltj_lastpenalty_bool
        \int_zero:N \l__xltj_lastpenalty_int
 473
        \int_while_do:nNnn { \tex_lastnodetype:D } = { 13 }
 474
          {
 475
             \verb|\bool_set_true:N \l__xltj_lastpenalty_bool|
 476
             \int_add:Nn \l__xltj_lastpenalty_int { \tex_lastpenalty:D }
 477
             \tex_unpenalty:D
 478
          }
 479
        \bool_set_false:N \l__xltj_lastnode_math_bool
 480
        \int_case:nn { \tex_lastnodetype:D }
 481
          {
 482
            { -1 }
 483
            {
 484
               \__xltj_lastnode_clear:
 485
 486
            {
               1 }
 487
               \_xltj_lastnode_clear:
            }
 490
            {
               2 }
 491
            {
 492
               \__xltj_lastnode_clear:
 493
 494
            { 10 }
 495
 496
               \__xltj_lastnode_clear:
 497
               \bool_set_true:N \l__xltj_lastnode_math_bool
            }
            { 11 }
               \__xltj_lastnode_clear:
 502
            }
 503
            { 12 }
 504
            {
 505
               \dim_compare:nNnF { \tex_lastkern:D } = { \c_zero_dim }
 506
 507
                   \__xltj_lastnode_clear:
 508
            }
          }
 511
取り除いた penalry node を戻す。
        \bool_if:NT \l__xltj_lastpenalty_bool
          { \tex_penalty:D \l__xltj_lastpenalty_int \scan_stop: }
 513
      }
 514
 515 \cs_new:Npn \__xltj_lastnode_switch:nnn #1#2#3
 516
        \bool_case_true:n
 517
```

```
{
                                 518
                                            { \l_xltj_lastnode_math_bool } {#1}
                                 519
                                            { \g__xltj_lastnode_kanji_bool } {#2}
                                            { \left\{ \g_xltj_lastnode_alpha_bool \right\} } { }
                                 521
                                 522
                                      }
                                 523
                                (End definition for \__xltj_lastnode_check: and \__xltj_lastnode_switch:nnn.)
        \ xltj jabaselineshift begin:
                                 \verb|\bool_new:N \l__xltj_jabaselineshift_bool| \\
\__xltj_jabaselineshift_end:
                                   \box_new:N \l__xltj_jabaselineshift_box
                                    \dim_new:N \l__xltj_jabaselineshift_dim
                                    \cs_new:Npn \__xltj_jabaselineshift_begin:
                                 527
                                 528
                                      {
                                        \dim_set:Nn \l__xltj_jabaselineshift_dim
                                 529
                                 530
                                            \xltj_if_tate_text:TF
                                 531
                                              { \l_xltj_tjabaselineshift_tl }
                                 532
                                              { \l_xltj_yjabaselineshift_tl }
                                          }
                                        \bool_set_false:N \l__xltj_jabaselineshift_bool
                                 535
                                 536
                                        \xltj_if_tate_text:T
                                          { \bool_set_true:N \l__xltj_jabaselineshift_bool }
                                 537
                                        \dim_compare:nNnF { \l__xltj_jabaselineshift_dim } = { \c_zero_dim }
                                 538
                                          { \bool_set_true:N \l__xltj_jabaselineshift_bool }
                                 539
                                        \bool_if:NT \l__xltj_jabaselineshift_bool
                                 540
                                 541
                                            \tex_hbox:D \c_group_begin_token
                                 542
                                 543
                                 544
                                    545
                                 546
                                        \bool_if:NT \l__xltj_jabaselineshift_bool
                                 547
                                 548
                                            \c_group_end_token
                                 549
                                            \box_set_to_last:N \l__xltj_jabaselineshift_box
                                 550
                                            \box_set_ht:Nn \l__xltj_jabaselineshift_box { 0.5\l_xltj_zw_dim }
                                 551
                                 552
                                            \box_set_dp:\n \l__xltj_jabaselineshift_box { 0.5\l_xltj_zw_dim }
                                 553
                                            \box_move_down:nn { \l__xltj_jabaselineshift_dim }
                                              { \box_use_drop:N \l__xltj_jabaselineshift_box }
                                             \__xltj_kern:n { \c_zero_dim }
                                 555
                                 556
                                      }
                                 557
                                (End\ definition\ for\ \_xltj\_jabaselineshift\_begin:\ and\ \_xltj\_jabaselineshift\_end:.)
                               3.6.1 JFM パラメータ
       \xltj_set_kanjiskip:n
                                 558 \cs_new:Npn \xltj_set_kanjiskip:n #1
                                 559
                                        \tl_set:Nx \l__xltj_kanjiskip_tl { \dim_eval:n {#1} }
                                 560
```

```
562 \cs_new:Npn \xltj_set_kanjiskip_lazy:n #1
                                                                                                  \label{local_local_local_local_local} $$ \tilde{\local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_lo
                                                                               565
                                                                            (End definition for \xltj_set_kanjiskip:n. This function is documented on page 4.)
               \xltj_get_kanjiskip:
                                                                                       \cs_new:Npn \xltj_get_kanjiskip:
                                                                                                  \skip_eval:n { \l__xltj_kanjiskip_tl }
                                                                            (End\ definition\ for\ \verb|\xltj_get_kanjiskip:.\ This\ function\ is\ documented\ on\ page\ \verb|\4.||)
          \xltj_set_xkanjiskip:n
                                                                               570 \cs_new:Npn \xltj_set_xkanjiskip:n #1
                                                                               571
                                                                                                  \tl_set:Nx \l__xltj_xkanjiskip_tl { \dim_eval:n {#1} }
                                                                               572
                                                                               573
                                                                                       \cs_new:Npn \xltj_set_xkanjiskip_lazy:n #1
                                                                               574
                                                                               575
                                                                                                  \tl_set:Nn \l__xltj_xkanjiskip_tl {#1}
                                                                               576
                                                                            (End definition for \xltj_set_xkanjiskip:n. This function is documented on page 4.)
             \xltj_get_xkanjiskip:
                                                                                      \cs_new:Npn \xltj_get_xkanjiskip:
                                                                                                 \skip_eval:n { \l__xltj_xkanjiskip_tl }
                                                                               581
                                                                            (End definition for \xltj_get_xkanjiskip:. This function is documented on page 4.)
               \_xltj_jfm_exp_args_param:Nnn
                                                                               582 \cs_new:Npn \__xltj_jfm_exp_args_param:Nnn #1#2#3
              \ xltj jfm exp args param:Nnnn
                                                                               583
                                                                                                  \exp_args:Nc #1 { l__xltj_jfm_#2_#3_tl }
                                                                               584
                                                                               585
                                                                                       \cs_new:Npn \__xltj_jfm_exp_args_param:Nnnn #1#2#3#4
                                                                               586
                                                                               587
                                                                                                  \exp_args:Nc #1 { l__xltj_jfm_#2_#3->#4_tl }
                                                                               588
                                                                                            }
                                                                            (End definition for \_xltj_jfm_exp_args_param:Nnn and \_xltj_jfm_exp_args_param:Nnnn.)
  \__xltj_jfm_set_param:nnn
\__xltj_jfm_set_param:nnnn
                                                                                      \cs_new:Npn \__xltj_jfm_set_param:nnn #1#2#3
                                                                               591
                                                                                                        _xltj_jfm_exp_args_param:Nnn
                                                                               592
                                                                                                        \_xltj_jfm_set_param:Nn {#1} {#2}
                                                                               593
                                                                                                             {#3}
                                                                               594
                                                                                            }
```

```
597
                                            _xltj_jfm_exp_args_param:Nnnn
                                  598
                                            \__xltj_jfm_set_param:Nn {#1} {#2} {#3}
                                  599
                                              {#4}
                                  600
                                       }
                                  601
                                     \cs_new:Npn \__xltj_jfm_set_param:Nn #1#2
                                  602
                                          \tl_if_exist:NF #1 { \tl_new:N #1 }
                                         \tl_set:Nn #1 {#2}
                                  605
                                (End definition for \_xltj_jfm_set_param:nnn and \_xltj_jfm_set_param:nnnn.)
\__xltj_jfm_clear_param:nn
\__xltj_jfm_clear_param:nnn
                                  607 \cs_new:Npn \__xltj_jfm_clear_param:nn #1#2
                                  608
                                  609
                                          \_{\tt xltj\_jfm\_exp\_args\_param:Nnn}
                                            \__xltj_jfm_clear_param:N {#1} {#2}
                                  610
                                  611
                                     \cs_new:Npn \__xltj_jfm_clear_param:nnn #1#2#3
                                  612
                                  613
                                          \__xltj_jfm_exp_args_param:Nnnn
                                  614
                                            \__xltj_jfm_clear_param:N {#1} {#2} {#3}
                                  615
                                     \cs_new:Npn \__xltj_jfm_clear_param:N #1
                                  618
                                          \tl_if_exist:NF #1 { \tl_clear:N #1 }
                                  619
                                  620
                                (End definition for \__xltj_jfm_clear_param:nn and \__xltj_jfm_clear_param:nnn.)
   \_xltj_jfm_if_exist_use_param:nnTF
                                     \cs_new:Npn \__xltj_jfm_if_exist_use_param:nnTF #1#2#3#4
   \ xltj jfm if exist use param:nnnTF
                                  621
                                  622
                                          \__xltj_jfm_exp_args_param:Nnn
                                  623
                                            \__xltj_jfm_if_exist_use_param:NTF {#1} {#2}
                                  624
                                              {#3} {#4}
                                  625
                                       }
                                  626
                                     \cs_new:Npn \__xltj_jfm_if_exist_use_param:nnnTF #1#2#3#4#5
                                          \__xltj_jfm_exp_args_param:Nnnn
                                  629
                                            \__xltj_jfm_if_exist_use_param:NTF {#1} {#2} {#3}
                                  630
                                              {#4} {#5}
                                  631
                                       }
                                  632
                                     \cs_new:Npn \__xltj_jfm_if_exist_use_param:NTF #1#2#3
                                  633
                                  634
                                          \tl_if_exist:NTF #1
                                  635
                                            { \tl_if_empty:NTF #1 {#3} { #1 #2 } }
                                  636
                                            {#3}
                                  637
                                (End\ definition\ for\ \ \ \_xltj\_jfm\_if\_exist\_use\_param:nnTF\ and\ \ \ \_xltj\_jfm\_if\_exist\_use\_param:nnnTF.)
```

\cs_new:Npn __xltj_jfm_set_param:nnnn #1#2#3#4

```
\__xltj_glue:n
                                 \label{local_cont} $$ \cs_new_eq:NN \__xltj_glue:n \skip_horizontal:n $$
                                (End definition for \_xltj_glue:n.)
               \__xltj_kern:n
                                 640 \cs_new:Npn \__xltj_kern:n #1
                                      { \tex_kern:D \dim_eval:n {#1} }
                                (End\ definition\ for\ \__xltj_kern:n.)
         \__xltj_vrule_zero: ゼロ幅(不可視)垂直罫線の挿入。
                                 642 \cs_new:Npn \__xltj_vrule_zero:
                                     { \tex_vrule:D width \c_zero_dim \scan_stop: }
                                (End\ definition\ for\ \verb|\__xltj_vrule_zero:|)
                                 644 \cs_new:Npn \__xltj_vrule:nnn #1#2#3
                                 645
                                        \tex_vrule:D
                                 646
                                           width \dim_eval:n {#1}
                                 647
                                          height \dim_eval:n {#2}
                                           depth \dim_eval:n {#3}
                                 650
                                        \scan_stop:
                                 651
           \__xltj_penalty:n ペナルティの挿入。
                                 652 \cs_new:Npn \__xltj_penalty:n #1
                                     { \tex_penalty:D \int_eval:n {#1} \exp_stop_f: }
                                (End\ definition\ for\ \_xltj_penalty:n.)
                                3.6.2 グルー・カーン
      \xltj_jfm_set_glue:nnn
                                 654 \cs_new:Npn \xltj_jfm_set_glue:nnn #1#2#3
      \xltj_jfm_set_kern:nnn
                                 655
                                         \_xltj_jfm_set_param:nnnn { glue_kern } {#1} {#2}
                                 656
                                           { \_xltj_glue:n {#3} }
                                 657
                                 658
                                 659 \cs_new:Npn \xltj_jfm_set_kern:nnn #1#2#3
                                         \__xltj_jfm_set_param:nnnn { glue_kern } {#1} {#2}
                                 661
                                           { \__xltj_kern:n {#3} }
                                 662
                                 663
                                (End definition for \xltj_jfm_set_glue:nnn and \xltj_jfm_set_kern:nnn. These functions are docu-
                                mented on page 4.)
\xltj_jfm_clear_glue_kern:nn
                                 664 \cs_new:Npn \xltj_jfm_clear_glue_kern:nn #1#2
                                        \__xltj_jfm_clear_param:nnn { glue_kern } {#1} {#2}
                                 666
                                 667
```

```
(End definition for \xltj_jfm_clear_glue_kern:nn. This function is documented on page 5.)
      \_xltj_jfm_use_glue_kern_or:nnn
                                    \cs_new:Npn \__xltj_jfm_use_glue_kern_or:nnn #1#2#3
                                 670
                                        \bool_if:NF \l__xltj_inhibitglue_bool
                                             673
                                        \bool_set_false:N \l__xltj_inhibitglue_bool
                                 674
                                 675
                                (End\ definition\ for\ \verb|\__xltj_jfm_use_glue_kern_or:nnn.|)
          \xltj_inhibitglue:
                                 676 \bool_new:N \l__xltj_inhibitglue_bool
                                 677 \cs_new:Npn \xltj_inhibitglue:
                                      { \bool_set_true:N \l__xltj_inhibitglue_bool }
                                (End definition for \xltj_inhibitglue:. This function is documented on page ??.)
                                3.6.3 文字幅調整
                               文字幅調整処理。
     \__xltj_jfm_precharwd:n
                                 679 \cs_new:Npn \__xltj_jfm_precharwd:n #1
    \__xltj_jfm_postcharwd:n
                                      { \__xltj_vrule_zero: \__xltj_kern:n {#1} }
                                 ^{681} \cs_new:Npn \__xltj_jfm_postcharwd:n #1
                                      { \__xltj_kern:n {#1} \__xltj_vrule_zero: }
                                (\mathit{End \ definition \ for \ } \_\mathtt{xltj\_jfm\_precharwd:n} \ \mathit{and \ } \_\mathtt{xltj\_jfm\_postcharwd:n}.)
                               文字幅調整を設定する。
  \xltj_jfm_set_precharwd:nn
                                 683 \cs_new:Npn \xltj_jfm_set_precharwd:nn #1#2
 \xltj_jfm_set_postcharwd:nn
                                 684
                                 685
                                        \_xltj_jfm_set_param:nnn { precharwd } {#1}
                                          { \__xltj_jfm_precharwd:n {#2} }
                                      }
                                    \cs_new:Npn \xltj_jfm_set_postcharwd:nn #1#2
                                 688
                                 689
                                          _xltj_jfm_set_param:nnn {    postcharwd } {#1}
                                 690
                                          { \ \ \ } { \__xltj_jfm_postcharwd:n {#2} }
                                 691
                                 692
                                (End definition for \xltj_jfm_set_precharwd:nn and \xltj_jfm_set_postcharwd:nn. These functions
                                are documented on page 5.)
                               文字幅調整の設定をクリアする。
 \xltj_jfm_clear_precharwd:n
                                 693 \cs_new:Npn \xltj_jfm_clear_precharwd:n #1
\xltj_jfm_clear_postcharwd:n
                                        \__xltj_jfm_clear_param:nn { precharwd } {#1}
                                 697 \cs_new:Npn \xltj_jfm_clear_postcharwd:n #1
                                 698
                                        \__xltj_jfm_clear_param:nn { postcharwd } {#1}
                                 699
```

```
(End definition for \xltj_jfm_clear_precharwd:n and \xltj_jfm_clear_postcharwd:n. These func-
                              tions are documented on page 5.)
                             文字幅調整が設定されていたら挿入する。
\__xltj_jfm_use_precharwd:n
                               701 \cs_new:Npn \__xltj_jfm_use_precharwd:n #1
\__xltj_jfm_use_postcharwd:n
                                    { \ \ \ }  { \__xltj_jfm_if_exist_use_param:nnTF { precharwd } {#1} {} }}
                               703 \cs_new:Npn \__xltj_jfm_use_postcharwd:n #1
                                    { \__xltj_jfm_if_exist_use_param:nnTF { postcharwd } {#1} {} {} }
                              (End definition for \__xltj_jfm_use_precharwd:n and \__xltj_jfm_use_postcharwd:n.)
                              3.6.4 禁則ペナルティ
      \verb|\xltj_jfm_set_prebreakpenalty:nn|
                              禁則ペナルティを設定する。
                               705 \cs_new:Npn \xltj_jfm_set_prebreakpenalty:nn #1#2
     \xltj_jfm_set_postbreakpenalty:nn
                               706
                                        _xltj_jfm_set_param:nnn { prebreakpenalty } {#1}
                               707
                                        { \__xltj_penalty:n {#2} }
                               708
                               709
                                  \cs_new:Npn \xltj_jfm_set_postbreakpenalty:nn #1#2
                               710
                               711
                                      \__xltj_jfm_set_param:nnn {    postbreakpenalty } {#1}
                                        { \__xltj_penalty:n {#2} }
                               713
                              functions are documented on page 5.)
     \xltj jfm clear prebreakpenalty:n
                              禁則をクリアする。
                               715 \cs_new:Npn \xltj_jfm_clear_prebreakpenalty:n #1
     \xltj_jfm_clear_postbreakpenalty:n
                               716
                                      \__xltj_jfm_clear_param:nn {    prebreakpenalty } {#1}
                               718
                               719 \cs_new:Npn \xltj_jfm_clear_postbreakpenalty:n #1
                               720
                                      \__xltj_jfm_clear_param:nn {    postbreakpenalty } {#1}
                               721
                              (End definition for \xltj_jfm_clear_prebreakpenalty:n and \xltj_jfm_clear_postbreakpenalty:n.
                              These functions are documented on page 5.)
                              禁則が設定されていたら禁則ペナルティを挿入する。
     \ xltj jfm use prebreakpenalty:n
                               723 \cs_new:Npn \__xltj_jfm_use_prebreakpenalty:n #1
     \ xltj jfm use postbreakpenalty:n
```

725 \cs_new:Npn __xltj_jfm_use_postbreakpenalty:n #1

{ __xltj_jfm_if_exist_use_param:nnTF { prebreakpenalty } {#1} {} {} } } $\$

{ __xltj_jfm_if_exist_use_param:nnTF { postbreakpenalty } {#1} {} } } {End definition for __xltj_jfm_use_prebreakpenalty:n and __xltj_jfm_use_postbreakpenalty:n.)

3.6.5 和欧文間空白挿入設定

```
\xltj_jfm_set_xspmode:nn
```

```
\cs_new:Npn \xltj_jfm_set_xspmode:nn #1#2
                             727
                             728
                             729
                                    \str_case:nnF {#2}
                                        { inhibit }
                                        { preonly }
                                        { \_xltj_jfm_set_param:nnn { xspmode } {#1} { 1 } }
                             734
                                        { postonly }
                             735
                                        { \_xltj_jfm_set_param:nnn { xspmode } {#1} { 2 } }
                             736
                                        { allow }
                                        { \__xltj_jfm_set_param:nnn { xspmode } {#1} { 3 } }
                             738
                             739
                                      { \msg_error:nnn { xelatexja } { unknown-xspmode } {#2} }
                             740
                             741
                                  }
                            (End definition for \xltj_jfm_set_xspmode:nn. This function is documented on page 5.)
                                \msg_new:nnnn { xelatexja } { unknown-xspmode }
                                  { Unknown~xspmode~'#1'.~Perhaps~a~misspelling?. }
                             743
                             745
                                    The~xspmode~used~not~known.~
                                    Allowed~values~are~'inhibit',~'preonly',~'postonly'~or~'allow'.
                             746
                             747
                                  }
\__xltj_jfm_use_xspmode:n
                             748 \cs_new:Npn \__xltj_jfm_use_xspmode:n #1
                                  { \_xltj_jfm_if_exist_use_param:nnTF { xspmode } {#1} {} { 3 } }
                            (End definition for \__xltj_jfm_use_xspmode:n.)
  \_xltj_jfm_if_xspmode_inhibit:nnF
                                \cs_new:Npn \__xltj_jfm_if_xspmode_preinhibit_p:n #1
                             750
                             751
                                    \int_case:nnF { \__xltj_jfm_use_xspmode:n {#1} }
                             752
                                        { 0 } { \c_true_bool }
                                        { 2 } { \c_true_bool }
                             755
                             756
                                      { \c_false_bool }
                             757
                                 }
                             758
                                \cs_new:Npn \__xltj_jfm_if_xspmode_postinhibit_p:n #1
                             759
                             760
                                    \int_case:nnF { \__xltj_jfm_use_xspmode:n {#1} }
                             761
                             762
                                        { 0 } { \c_true_bool }
                                        { 1 } { \c_true_bool }
                             764
                             765
                             766
                                      { \c_false_bool }
                             767
                             768 \cs_new:Npn \__xltj_jfm_if_xspmode_inhibit:nnF #1#2#3
```

```
769
                               \bool_lazy_or:nnF
                                { \__xltj_jfm_if_xspmode_postinhibit_p:n {#1} }
                                { \__xltj_jfm_if_xspmode_preinhibit_p:n {#2} }
                                {#3}
                        773
                            }
                        774
                       (End definition for \__xltj_jfm_if_xspmode_inhibit:nnF.)
                             ボックス
                       3.7
                       3.7.1 ボックス回転
                        775 \cs_set_eq:NN \__xltj_special:n \tex_special:D
                        776 \cs_new:Npn \__xltj_graphics_save:
                            { \__xltj_special:n { x:gsave } }
                        777
                        778 \cs_new:Npn \__xltj_graphics_restore:
                            { \__xltj_special:n { x:grestore } }
                        780 \cs_new:Npn \__xltj_graphics_rotate:n #1
                            { \__xltj_special:n { x:rotate~ #1 } }
                        782 \box_new:N \l__xltj_rotate_box
                        783 \dim_new:N \l__xltj_rotate_box_ht_dim
                        784 \dim_new:N \l__xltj_rotate_box_dp_dim
                        785 \dim_new:N \l__xltj_rotate_box_wd_dim
\ xltj rotate box tate in yoko:N ボックスを時計回りに90度回転する。回転後のボックス下端がベースラインになる。
                        786 \cs_new:Npn \__xltj_rotate_box_tate_in_yoko:N #1
                            {
                        787
                       元のボックスの寸法を取得する。
                               \dim_set:Nn \l__xltj_rotate_box_ht_dim { \box_ht:N #1 }
                        788
                               \dim_set:Nn \l__xltj_rotate_box_dp_dim { \box_dp:N #1 }
                        789
                              \dim_set:Nn \l__xltj_rotate_box_wd_dim { \box_wd:N #1 }
                       元のボックスの右端が回転後にベースラインに来るように位置調整する。
                               \hbox_set:Nn \l__xltj_rotate_box
                        791
                        792
                                  \tex_kern:D -\l__xltj_rotate_box_wd_dim
                                  \box_use_drop:N #1
                        794
                        795
                       ボックスを時計回りに90度回転する。
                               \hbox_set:Nn \l__xltj_rotate_box
                                {
                        797
                        798
                                  \__xltj_graphics_save:
                                  \__xltj_graphics_rotate:n { -90 }
                        799
                                  \box_use:N \l__xltj_rotate_box
                        800
                                   \__xltj_graphics_restore:
                        801
                        802
                       元のボックスの下端が左端になるように位置調整する。
                               \hbox_set:Nn \l__xltj_rotate_box
                        803
```

\tex_kern:D \l__xltj_rotate_box_dp_dim

804

```
\verb|\box_use:N \l__xltj_rotate_box|
                        806
                        807
                       ボックス寸法を調整する。
                               \box_set_ht:Nn \l__xltj_rotate_box
                                 { \l__xltj_rotate_box_wd_dim }
                               \box_set_dp:Nn \l__xltj_rotate_box { Opt }
                        810
                               \box_set_wd:Nn \l__xltj_rotate_box
                        811
                                 { \l_xltj_rotate_box_ht_dim + \l_xltj_rotate_box_dp_dim }
                        812
                               \box_set_eq_drop:NN #1 \l__xltj_rotate_box
                        813
                        814
                       (End\ definition\ for\ \_xltj\_rotate\_box\_tate\_in\_yoko:N.)
                       ボックスを反時計回りに90度回転する。回転後のボックス中央がベースラインになる。
\ xltj rotate box yoko in tate:N
                        815 \cs_new:Npn \__xltj_rotate_box_yoko_in_tate:N #1
                        816
                       元のボックスの寸法を取得する。
                               \dim_set:Nn \l__xltj_rotate_box_ht_dim { \box_ht:N #1 }
                        817
                               \dim_set:Nn \l__xltj_rotate_box_dp_dim { \box_dp:N #1 }
                        818
                               \dim_set:Nn \l__xltj_rotate_box_wd_dim { \box_wd:N #1 }
                        819
                       元のボックスの中央が回転後にベースラインに来るように位置調整する。
                               \hbox_set:Nn \l__xltj_rotate_box
                        820
                                 {
                        821
                                   \tex_kern:D -0.5\l__xltj_rotate_box_wd_dim
                        822
                                   \box_use_drop:N #1
                        823
                        824
                       ボックスを反時計回りに90度回転する。
                               \hbox_set:Nn \l__xltj_rotate_box
                        825
                        826
                                   \__xltj_graphics_save:
                        827
                                   \__xltj_graphics_rotate:n { 90 }
                        828
                                   \box_use:N \l__xltj_rotate_box
                        829
                                   \__xltj_graphics_restore:
                        830
                        831
                       元のボックスの上端が左端になるように位置調整する。
                               \hbox_set:Nn \l__xltj_rotate_box
                        832
                        833
                                   \tex_kern:D \l__xltj_rotate_box_ht_dim
                        834
                                   \box_use:N \l__xltj_rotate_box
                        835
                                 }
                        836
                       ボックス寸法を調整する。
                               \box_set_ht:Nn \l__xltj_rotate_box
                        837
                                 { 0.5\l_xltj_rotate_box_wd_dim }
                        838
                               \box_set_dp:Nn \l__xltj_rotate_box
                        839
                                 { 0.5\l_xltj_rotate_box_wd_dim }
                        841
                               \box_set_wd:Nn \l__xltj_rotate_box
```

{ \l_xltj_rotate_box_ht_dim + \l_xltj_rotate_box_dp_dim }

3.7.2 ボックスのベースライン補正

\xltj_box_yjabaselineshift:n
\xltj_box_tjabaselineshift:n

ボックスを和文ベースライン補正を適用して挿入する。水平モードでのみ利用できる。

```
845 \cs_new:Npn \xltj_box_yjabaselineshift:n #1
846 { \box_move_down:nn { \l__xltj_yjabaselineshift_tl } {#1} }
847 \cs_new:Npn \xltj_box_tjabaselineshift:n #1
848 { \box_move_down:nn { \l__xltj_tjabaselineshift_tl } {#1} }
```

(End definition for $\xltj_box_yjabaselineshift:n$ and $\xltj_box_tjabaselineshift:n$. These functions are documented on page 6 .)

3.7.3 縦組中の横組ボックス

縦組中に横組ボックスを配置する場合はボックスを反時計回りに 90 度回転する。

\xltj_yoko_in_tate_hbox:n

(End definition for \xltj_yoko_in_tate_hbox:n. This function is documented on page 6.)

\xltj_yoko_in_tate_hbox_to_wd:nn
\xltj_yoko_in_tate_hbox_to_zero:n

 $(End\ definition\ for\ \xltj_yoko_in_tate_hbox_to_wd:nn\ and\ \xltj_yoko_in_tate_hbox_to_zero:n.\ These\ functions\ are\ documented\ on\ page\ {\it 6}.)$

```
\xltj yoko in tate hbox set:Nn
       \xltj_yoko_in_tate_hbox_set:cn
                                  874 \cs_new:Npn \xltj_yoko_in_tate_hbox_set:Nn #1#2
                                  875
      \xltj yoko in tate hbox gset:Nn
                                            _xltj_yoko_in_tate_box:nnnn
                                  876
      \xltj_yoko_in_tate_hbox_gset:cn
                                            { \hbox_set:Nn #1 } { \hbox_set:Nn } {} {#2}
                                  877
                                  878
                                     \cs_new:Npn \xltj_yoko_in_tate_hbox_gset:Nn #1#2
                                  879
                                  880
                                  881
                                          \__xltj_yoko_in_tate_box:nnnn
                                  882
                                            { \hbox_gset:Nn #1 } { \hbox_set:Nn } {} {#2}
                                  884 \cs_generate_variant:Nn \xltj_yoko_in_tate_hbox_set:Nn { c }
                                     \cs_generate_variant:Nn \xltj_yoko_in_tate_hbox_gset:Nn { c }
                                 (End definition for \xltj_yoko_in_tate_hbox_set:Nn and \xltj_yoko_in_tate_hbox_gset:Nn. These
                                 functions are documented on page 6.)
  \xltj yoko in tate hbox set to wd:Nnn
                                     \cs_new:Npn \xltj_yoko_in_tate_hbox_set_to_wd:Nnn #1#2#3
  \xltj yoko in tate hbox set to wd:cnn
                                  886
                                  887
 \xltj yoko in tate hbox gset to wd:Nnn
                                          \__xltj_yoko_in_tate_box:nnnn
 \xltj yoko in tate hbox gset to wd:cnn
                                            { \hbox_set:Nn #1 } { \hbox_set_to_wd:Nnn } {{#2}} {#3}
                                     \cs_new:Npn \xltj_yoko_in_tate_hbox_gset_to_wd:Nnn #1#2#3
                                  891
                                  892
                                          \__xltj_yoko_in_tate_box:nnnn
                                  893
                                            { \hbox_gset:Nn #1 } { \hbox_set_to_wd:Nnn } {{#2}} {#3}
                                  894
                                  895
                                     \cs_generate_variant:Nn \xltj_yoko_in_tate_hbox_set_to_wd:Nn { c }
                                     \cs_generate_variant:Nn \xltj_yoko_in_tate_hbox_gset_to_wd:Nn { c }
                                 (End definition for \xltj_yoko_in_tate_hbox_set_to_wd:Nnn and \xltj_yoko_in_tate_hbox_gset_to_-
                                 wd:Nnn. These functions are documented on page 6.)
\xltj_yoko_in_tate_hbox_overlap_center:n
                                  898 \cs_new:Npn \xltj_yoko_in_tate_hbox_overlap_center:n #1
\xltj yoko in tate hbox overlap right:n
                                       { \xltj_yoko_in_tate_hbox_to_zero:n { \tex_hss:D #1 \tex_hss:D } }
 \xltj yoko in tate hbox overlap left:n
                                  900 \cs_new:Npn \xltj_yoko_in_tate_hbox_overlap_right:n #1
                                       { \xltj_yoko_in_tate_hbox_to_zero:n { \tex_hss:D #1 } }
                                     \cs_new:Npn \xltj_yoko_in_tate_hbox_overlap_left:n #1
                                       { \xltj_yoko_in_tate_hbox_to_zero:n { #1 \tex_hss:D } }
                                 (End\ definition\ for\ \verb|\xltj_yoko_in_tate_hbox_overlap_center:n,\ \verb|\xltj_yoko_in_tate_hbox_overlap_center:n|)|
                                 right:n, and \xltj_yoko_in_tate_hbox_overlap_left:n. These functions are documented on page 6.)
  \xltj_yoko_in_tate_vbox:n
                                     \cs_new:Npn \xltj_yoko_in_tate_vbox:n #1
                                  904
                                  905
                                            _xltj_yoko_in_tate_box:nnnn
                                  906
                                            { \hbox:n } { \vbox_set:Nn } {} {#1}
                                  907
```

(End definition for \xltj_yoko_in_tate_vbox:n. This function is documented on page 6.)

```
\xltj_yoko_in_tate_vbox_to_ht:nn
\xltj_yoko_in_tate_vbox_to_zero:n
```

```
909 \cs_new:Npn \xltj_yoko_in_tate_vbox_to_ht:nn #1#2
910
       \__xltj_yoko_in_tate_box:nnnn
911
         { \hbox:n } { \vbox_set_to_ht:Nnn } {{#1}} {#2}
912
913
   \cs_new:Npn \xltj_yoko_in_tate_vbox_to_zero:n #1
914
915
       \__xltj_yoko_in_tate_box:nnnn
916
917
         { \hbox:n } { \vbox_set_to_zero:Nn } {} {#1}
```

 $(End\ definition\ for\ \verb|\xltj_yoko_in_tate_vbox_to_ht:nn\ and\ \verb|\xltj_yoko_in_tate_vbox_to_zero:n.\ These$ functions are documented on page 6.)

\xltj yoko in tate vbox set:Nn \xltj yoko in tate vbox set:cn

\xltj yoko in tate vbox gset:Nn

\xltj_yoko_in_tate_vbox_gset:cn

```
\cs_new:Npn \xltj_yoko_in_tate_vbox_set:Nn #1#2
919
920
       \__xltj_yoko_in_tate_box:nnnn
921
         { \hbox_set:Nn #1 } { \vbox_set:Nn } {} {#2}
922
   \cs_new:Npn \xltj_yoko_in_tate_vbox_gset:Nn #1#2
924
925
926
        __xltj_yoko_in_tate_box:nnnn
         { \hbox_gset:Nn #1 } { \vbox_set:Nn } {} {#2}
927
928
929 \cs_generate_variant:Nn \xltj_yoko_in_tate_vbox_set:Nn { c }
  \cs_generate_variant:Nn \xltj_yoko_in_tate_vbox_gset:Nn { c }
```

 $(End\ definition\ for\ \verb|\xltj_yoko_in_tate_vbox_set:Nn\ and\ \verb|\xltj_yoko_in_tate_vbox_gset:Nn.\ These$ functions are documented on page 6.)

\xltj_yoko_in_tate_vbox_set_to_ht:Nnn \xltj yoko in tate vbox set to ht:cnn \xltj_yoko_in_tate_vbox_gset_to_ht:Nnn \xltj_yoko_in_tate_vbox_gset_to_ht:cnn

```
931 \cs_new:Npn \xltj_yoko_in_tate_vbox_set_to_ht:Nnn #1#2#3
       \__xltj_yoko_in_tate_box:nnnn
933
         { \hbox_set:Nn #1 } { \vbox_set_to_ht:Nnn } {{#2}} {#3}
934
935
  \cs_new:Npn \xltj_yoko_in_tate_vbox_gset_to_ht:Nnn #1#2#3
936
937
       \__xltj_yoko_in_tate_box:nnnn
938
         { \hbox_gset:Nn #1 } { \vbox_set_to_ht:Nnn } {{#2}} {#3}
941 \cs_generate_variant:Nn \xltj_yoko_in_tate_vbox_set_to_ht:Nn { c }
942 \cs_generate_variant:Nn \xltj_yoko_in_tate_vbox_gset_to_ht:Nnn { c }
```

(End definition for \xltj_yoko_in_tate_vbox_set_to_ht:Nnn and \xltj_yoko_in_tate_vbox_gset_to_ht:Nnn. These functions are documented on page 7.)

3.7.4 横組中の縦組ボックス

横組中に縦組ボックスを配置する場合はボックスを時計回りに 90 度回転する。

943 \cs_new:Npn __xltj_tate_in_yoko_box:nnnn #1#2#3#4

```
{
                                                                                       #1
                                                                      945
                                                                      946
                                                                                                 #2 \l__xltj_rotate_box #3
                                                                      947
                                                                                                      { \bool_set_false: N \l__xltj_tate_text_bool #4 }
                                                                      948
                                                                                                 \__xltj_rotate_box_tate_in_yoko:N \l__xltj_rotate_box
                                                                                                 \box_use_drop:N \l__xltj_rotate_box
                                                                      950
                                                                      951
                                                                                  }
                                                                      952
 \xltj_tate_in_yoko_hbox:n
                                                                             \cs_new:Npn \xltj_tate_in_yoko_hbox:n #1
                                                                      953
                                                                      954
                                                                                        \__xltj_tate_in_yoko_box:nnnn
                                                                      955
                                                                                            { \hbox:n } { \hbox_set:Nn } {} {#1}
                                                                    (End definition for \xltj_tate_in_yoko_hbox:n. This function is documented on page 7.)
         \xltj_tate_in_yoko_hbox_to_wd:nn
                                                                             \cs_new:Npn \xltj_tate_in_yoko_hbox_to_wd:nn #1#2
        \xltj tate in yoko hbox to zero:n
                                                                      959
                                                                                             _xltj_tate_in_yoko_box:nnnn
                                                                      960
                                                                                            { \hbox:n } { \hbox_set_to_wd:Nnn } {{#1}} {#2}
                                                                      961
                                                                      962
                                                                             \cs_new:Npn \xltj_tate_in_yoko_hbox_to_zero:n #1
                                                                      963
                                                                      964
                                                                                        \__xltj_tate_in_yoko_box:nnnn
                                                                      965
                                                                                            { \hbox:n } { \hbox_set_to_zero: Nn } {} {#1}
                                                                      966
                                                                    (End\ definition\ for\ \verb|\xltj_tate_in_yoko_hbox_to_wd:nn\ and\ \verb|\xltj_tate_in_yoko_hbox_to_zero:n.\ These\ definition\ for\ the 
                                                                   functions are documented on page 7.)
             \xltj_tate_in_yoko_hbox_set:Nn
                                                                      968 \cs_new:Npn \xltj_tate_in_yoko_hbox_set:Nn #1#2
             \xltj_tate_in_yoko_hbox_set:cn
                                                                      969
           \xltj_tate_in_yoko_hbox_gset:Nn
                                                                                       \__xltj_tate_in_yoko_box:nnnn
                                                                      970
           \xltj tate in yoko hbox gset:cn
                                                                                            { \hbox_set:Nn #1 } { \hbox_set:Nn } {} {#2}
                                                                      971
                                                                      972
                                                                             \cs_new:Npn \xltj_tate_in_yoko_hbox_gset:Nn #1#2
                                                                      973
                                                                      974
                                                                                       \__xltj_tate_in_yoko_box:nnnn
                                                                      975
                                                                                            { \hbox_gset:Nn #1 } { \hbox_set:Nn } {} {#2}
                                                                      976
                                                                      977
                                                                      978 \cs_generate_variant:Nn \xltj_tate_in_yoko_hbox_set:Nn { c }
                                                                      979 \cs_generate_variant:Nn \xltj_tate_in_yoko_hbox_gset:Nn { c }
                                                                    (End\ definition\ for\ \verb|\xltj_tate_in_yoko_hbox_set:Nn\ and\ \verb|\xltj_tate_in_yoko_hbox_gset:Nn.\ These
                                                                    functions are documented on page 7.)
 \xltj_tate_in_yoko_hbox_set_to_wd:Nnn
                                                                      980 \cs_new:Npn \xltj_tate_in_yoko_hbox_set_to_wd:Nnn #1#2#3
 \xltj_tate_in_yoko_hbox_set_to_wd:cnn
                                                                                  {
\xltj tate in yoko hbox gset to wd:Nnn
\xltj tate in yoko hbox gset to wd:cnn
```

```
{ \hbox_set:Nn #1 } { \hbox_set_to_wd:Nnn } {{#2}} {#3}
                                  983
                                       }
                                  984
                                     \cs_new:Npn \xltj_tate_in_yoko_hbox_gset_to_wd:Nnn #1#2#3
                                  985
                                  986
                                          \__xltj_tate_in_yoko_box:nnnn
                                  987
                                            { \hbox_gset:Nn #1 } { \hbox_set_to_wd:Nnn } {{#2}} {#3}
                                  988
                                     \cs_generate_variant:Nn \xltj_tate_in_yoko_hbox_set_to_wd:Nn { c }
                                     \cs_generate_variant:Nn \xltj_tate_in_yoko_hbox_gset_to_wd:Nn { c }
                                 (End definition for \xltj_tate_in_yoko_hbox_set_to_wd:Nnn and \xltj_tate_in_yoko_hbox_gset_to_-
                                 wd:Nnn. These functions are documented on page 7.)
\xltj tate in yoko hbox overlap center:n
                                  992 \cs_new:Npn \xltj_tate_in_yoko_hbox_overlap_center:n #1
\xltj_tate_in_yoko_hbox_overlap_right:n
                                       { \xltj_tate_in_yoko_hbox_to_zero:n { \tex_hss:D #1 \tex_hss:D } }
 \xltj tate in yoko hbox overlap left:n
                                  994 \cs_new:Npn \xltj_tate_in_yoko_hbox_overlap_right:n #1
                                       { \xltj_tate_in_yoko_hbox_to_zero:n { \tex_hss:D #1 } }
                                     \cs_new:Npn \xltj_tate_in_yoko_hbox_overlap_left:n #1
                                       { \xltj_tate_in_yoko_hbox_to_zero:n { #1 \tex_hss:D } }
                                 (End definition for \xltj tate in yoko hbox overlap center:n, \xltj tate in yoko hbox overlap -
                                 right:n, and \xltj_tate_in_yoko_hbox_overlap_left:n. These functions are documented on page 7.)
  \xltj_tate_in_yoko_vbox:n
                                     \cs_new:Npn \xltj_tate_in_yoko_vbox:n #1
                                          \__xltj_tate_in_yoko_box:nnnn
                                 1000
                                            { \hbox:n } { \vbox_set:Nn } {} {#1}
                                 (End definition for \xltj_tate_in_yoko_vbox:n. This function is documented on page 7.)
      \xltj tate in yoko vbox to ht:nn
                                     \cs_new:Npn \xltj_tate_in_yoko_vbox_to_ht:nn #1#2
     \xltj tate in yoko vbox to zero:n
                                          \__xltj_tate_in_yoko_box:nnnn
                                 1005
                                            { \hbox:n } { \vbox_set_to_ht:Nnn } {{#1}} {#2}
                                 1006
                                 1007
                                     \cs_new:Npn \xltj_tate_in_yoko_vbox_to_zero:n #1
                                 1008
                                 1009
                                            _xltj_tate_in_yoko_box:nnnn
                                 1010
                                            { \hbox:n } { \vbox_set_to_zero:Nn } {} {#1}
                                 1011
                                 1012
                                 (End\ definition\ for\ \ \ \ \ in\_yoko\_vbox\_to\_ht:nn\ \ and\ \ \ \ \ \ \ \ in\_yoko\_vbox\_to\_zero:n.\ \ These
                                 functions are documented on page 7.)
       \xltj_tate_in_yoko_vbox_set:Nn
                                     \cs_new:Npn \xltj_tate_in_yoko_vbox_set:Nn #1#2
       \xltj_tate_in_yoko_vbox_set:cn
                                 1013
                                 1014
      \xltj tate in yoko vbox gset:Nn
                                          \__xltj_tate_in_yoko_box:nnnn
                                 1015
      \xltj tate in yoko vbox gset:cn
                                            { \hbox_set:Nn #1 } { \vbox_set:Nn } {} {#2}
                                 1016
```

__xltj_tate_in_yoko_box:nnnn

```
}
1017
   \cs_new:Npn \xltj_tate_in_yoko_vbox_gset:Nn #1#2
1018
1019
          _xltj_tate_in_yoko_box:nnnn
1020
          { \hbox_gset:Nn #1 } { \vbox_set:Nn } {} {#2}
1021
1022
   \cs_generate_variant:Nn \xltj_tate_in_yoko_vbox_set:Nn { c }
1023
   \cs_generate_variant:Nn \xltj_tate_in_yoko_vbox_gset:Nn { c }
```

(End definition for \xltj_tate_in_yoko_vbox_set:Nn and \xltj_tate_in_yoko_vbox_gset:Nn. These functions are documented on page 7.)

\xltj_tate_in_yoko_vbox_set_to_ht:Nnn

\xltj_tate_in_yoko_vbox_set_to_ht:cnn \xltj tate in yoko vbox gset to ht:Nnn \xltj_tate_in_yoko_vbox_gset_to_ht:cnn

```
\cs_new:Npn \xltj_tate_in_yoko_vbox_set_to_ht:Nnn #1#2#3
1025
1026
       \__xltj_tate_in_yoko_box:nnnn
1027
          { \hbox_set:Nn #1 } { \vbox_set_to_ht:Nnn } {{#2}} {#3}
1028
1029
   \cs_new:Npn \xltj_tate_in_yoko_vbox_gset_to_ht:Nnn #1#2#3
1031
        \__xltj_tate_in_yoko_box:nnnn
1032
          { \hbox_gset:Nn #1 } { \vbox_set_to_ht:Nnn } {{#2}} {#3}
1033
1034
   \cs_generate_variant:Nn \xltj_tate_in_yoko_vbox_set_to_ht:Nnn { c }
1035
logs \cs_generate_variant:Nn \xltj_tate_in_yoko_vbox_gset_to_ht:Nnn { c }
```

(End definition for \xltj_tate_in_yoko_vbox_set_to_ht:Nnn and \xltj_tate_in_yoko_vbox_gset_to_ht: Nnn. These functions are documented on page 8.)

ページ出力 3.8

縦組み時のページ回転処理 3.8.1

縦組みにするためページの回転処理を行う。

IATEX では出力ルーチンで本文領域が \Coutputbox に構築された後 \Coutputpage が実 行されるので、\@outputpage のまえに \@outputbox を 90 度回転する処理を入れる。

```
\hook_gput_code:nnn { cmd/@outputpage/before } { ./rotate-page }
     { \__xltj_output_page_before: }
   \hook_gput_code:nnn { cmd/@outputpage/after } { ./rotate-page }
     { \__xltj_output_page_after: }
    \cs_set:Npn \__xltj_output_page_before:
1041
1042
        \bool_if:NT \g__xltj_tate_document_bool
1043
1044
\@outputbox を時計回りに 90 度回転する。
```

__xltj_rotate_box_tate_in_yoko:N \@outputbox

\textwidth と \textheight を入れ替える。

__xltj_swap_dim:NN \textwidth \textheight 1046

```
横組み状態で元の \@outputpage を実行する。
            \bool_set_false:N \l__xltj_tate_text_bool
1047
1048
1049
    \cs_set:Npn \__xltj_output_page_after:
1050
1051
        \bool_if:NT \g__xltj_tate_document_bool
1052
1053
縦組みに戻す。
            \bool_set_true:N \l__xltj_tate_text_bool
1054
\textwidth と \textheight をもとに戻す。
            \__xltj_swap_dim:NN \textwidth \textheight
\textwidth と \textheight を入れ替えた状態で \@colht が設定されているので、戻った
後もう一度設定しなおす。
            \dim_gset_eq:NN \@colht \textheight
1057
      }
1058
       トンボ
3.8.2
1059 \bool_new:N \g__xltj_tombow_bool
   \tl_new:N \g__xltj_tombow_color_tl
   \tl_new:N \g__xltj_tombow_banner_tl
    \tl_new:N \g__xltj_tombow_banner_font_tl
    \verb|\dim_new:N \ \g_xltj_tombow_thickness_dim|
    \verb|\dim_new:N \g__x|tj_tombow_length_dim|
   \dim_new:N \g__xltj_tombow_bleed_dim
   \verb|\dim_new:N \ \g_xltj_tombow_hoffset_dim|
    \dim_new:N \g__xltj_tombow_voffset_dim
    1068
1069
        tombow
                    .bool_gset:N = \g__xltj_tombow_bool,
1070
1071
        color
                    .tl_gset:N
                                 = \g__xltj_tombow_color_tl,
                                 = \g__xltj_tombow_banner_tl,
1072
        banner
                    .tl_gset:N
                                 = \g__xltj_tombow_banner_font_tl,
1073
        banner-font .tl_gset:N
                    . \label{eq:dim_gset:N} = \g_xltj_tombow_thickness_dim,
1074
        thickness
                                 = \g__xltj_tombow_length_dim,
        length
                    .dim_gset:N
1075
        bleed
                    .dim_gset:N
                                 = \g__xltj_tombow_bleed_dim,
1076
       hoffset
                    .dim_gset:N
                                 = \g__xltj_tombow_hoffset_dim,
1077
        voffset
                    .dim_gset:N = \g__xltj_tombow_voffset_dim,
1078
1079
    \keys_set:nn { xelatexja / tombow }
1081
      {
                    = false,
        tombow
1082
                    = \normalcolor,
        color
1083
                    = {},
        banner
1084
        banner-font = \usefont{TU}{lmtt}{m}{n}\fontsize{9}{9}\selectfont,
1085
                    = 0.1pt,
```

thickness

= 10mm

length

```
1088
                bleed
                                         = 3mm.
                                           = 1in,
                hoffset
 1089
                                           = 1in,
 1090
                voffset
 1091
        \NewDocumentCommand \xltjTombowSetup { m }
            { \keys_set:nn { xelatexja / tombow } {#1} }
     トンボの出力
       \cs_new:Npn \__xltj_output_tombow:
 1095
                \g__xltj_tombow_color_tl
 1096
線幅をセット
                \linethickness{\g__xltj_tombow_thickness_dim}
 1097
左上
                \put(0,\g_xltj_tombow_bleed_dim)
 1098
                     \{ (-1,0) \{ (-1,0) \{ (-1,0) \} \} \} 
                \put(0,\g__xltj_tombow_bleed_dim)
                    {\line(0,1){\g_xltj_tombow_length_dim}}
 1101
                \put(-\g__xltj_tombow_bleed_dim,0)
                    {\colored{\colored} \{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colore
                \put(-\g__xltj_tombow_bleed_dim,0)
 1104
                    1105
上
                \put(0.5\paperwidth,\g__xltj_tombow_bleed_dim)
 1106
                    {\line(-1,0){\g_xltj_tombow_length_dim}}
                \put(0.5\paperwidth,\g__xltj_tombow_bleed_dim)
 1108
                    {\line(0,1){\g_xltj_tombow_length_dim}}
 1109
                \put(0.5\paperwidth,\g_xltj_tombow_bleed_dim)
                    {\line(1,0){\g_xltj_tombow_length_dim}}
 1111
右上
                \put(\paperwidth,\g__xltj_tombow_bleed_dim)
                    {\line(1,0){\g_xltj_tombow_length_dim+\g_xltj_tombow_bleed_dim}}
                \put(\paperwidth,\g__xltj_tombow_bleed_dim)
 1114
                     {\line(0,1){\g_xltj_tombow_length_dim}}
 1115
                \put(\paperwidth+\g__xltj_tombow_bleed_dim,0)
 1116
                     {\line(1,0){\g_xltj_tombow_length_dim}}
 1117
                \put(\paperwidth+\g__xltj_tombow_bleed_dim,0)
 1118
                    \label{line(0,1)} $$ \{ \lim(0,1) \{ g_x \}_{t=0}^{dim} \} $$
 1119
左
                \put(-\g__xltj_tombow_bleed_dim,-0.5\paperheight)
                    {\line(0,-1){\g_xltj_tombow_length_dim}}
 1121
                \put(-\g__xltj_tombow_bleed_dim,-0.5\paperheight)
 1123
                    {\left(-1,0\right)}\left(g_xt_j_tombow_length_dim\right)}
                \put(-\g__xltj_tombow_bleed_dim,-0.5\paperheight)
 1124
                    {\line(0,1){\g__xltj_tombow_length_dim}}
右
                \put(\paperwidth+\g__xltj_tombow_bleed_dim,-0.5\paperheight)
 1126
                    {\line(0,-1){\g_xltj_tombow_length_dim}}
 1127
                \put(\paperwidth+\g__xltj_tombow_bleed_dim,-0.5\paperheight)
 1128
                    {\line(1,0){\g__xltj_tombow_length_dim}}
 1129
```

```
\put(\paperwidth+\g__xltj_tombow_bleed_dim,-0.5\paperheight)
1130
          {\line(0,1){\g_xltj_tombow_length_dim}}
左下
        \put(0,-\paperheight-\g__xltj_tombow_bleed_dim)
1132
          {\line(-1,0){\g_xltj_tombow_length_dim+\g_xltj_tombow_bleed_dim}}
        \put(0,-\paperheight-\g__xltj_tombow_bleed_dim)
1134
          {\left(0,-1\right)\left(g_x\right) \in \mathcal{S}_{\infty}}
1135
        \put(-\g__xltj_tombow_bleed_dim,-\paperheight)
1136
          {\line(-1,0){\g_xltj_tombow_length_dim}}
        \put(-\g__xltj_tombow_bleed_dim,-\paperheight)
1138
          {\line(0,-1){\g_xltj_tombow_length_dim+\g_xltj_tombow_bleed_dim}}
1139
下
        \put(0.5\paperwidth,-\paperheight-\g__xltj_tombow_bleed_dim)
1140
          {\cline(-1,0)\{\g_xltj_tombow_length_dim\}}\}
        \put(0.5\paperwidth,-\paperheight-\g_xltj_tombow_bleed_dim)
1142
          {\line(0,-1){\g_xltj_tombow_length_dim}}
1143
        \put(0.5\paperwidth,-\paperheight-\g_xltj_tombow_bleed_dim)
1144
          {\line(1,0){\g__xltj_tombow_length_dim}}
1145
右下
        \put(\paperwidth, -\paperheight-\g__xltj_tombow_bleed_dim)
1146
          {\line(1,0){\g_xltj_tombow_length_dim+\g_xltj_tombow_bleed_dim}}
1147
        \put(\paperwidth, -\paperheight-\g__xltj_tombow_bleed_dim)
1148
          {\line(0,-1){\g_xltj_tombow_length_dim}}
1149
        \put(\paperwidth+\g__xltj_tombow_bleed_dim,-\paperheight)
1150
          {\line(1,0){\g_xltj_tombow_length_dim}}
        \put(\paperwidth+\g__xltj_tombow_bleed_dim,-\paperheight)
          {\cline(0,-1)\{\cline{th_dim}+\cline{th_dim}+\cline{th_dim}\}}
バナ
        \put(5mm,\g__xltj_tombow_bleed_dim+4pt)
1154
          { \g_xltj_tombow_banner_font_tl \g_xltj_tombow_banner_tl }
     }
1156
 shipout/background フックでトンボを描画する。
   \hook_gput_code:nnn { shipout/background } { ./tombow }
1158
1159
        \bool_if:NT \g__xltj_tombow_bool
          { \__xltj_output_tombow: }
1160
1161
    \hook_gput_code:nnn { begindocument } { ./tombow }
1162
1163
        \bool_if:NT \g__xltj_tombow_bool
1164
1165
            \dim_gadd:Nn \tex_hoffset:D { \g__xltj_tombow_hoffset_dim }
1166
            \dim_gadd:Nn \tex_voffset:D { \g__xltj_tombow_voffset_dim }
1167
1168
      }
1169
      ユーティリティ関数
3.9
```

1170 \cs_new:Npn \xltj_int_to_kansuji:n #1

\xltj_int_to_kansuji:n

```
1171
       \int_compare:nNnF {#1} < { 0 }
           \exp_args:Nf
1174
           \tl_map_function:nN
1175
             { \int_eval:n {#1} }
1176
              \__xltj_int_to_kansuji_digit:n
1177
1178
     }
1179
   \cs_new:Npn \__xltj_int_to_kansuji_digit:n #1
1181
     {
       \int_case:nn {#1}
1182
         {
1183
           {0}{0}
1184
           {1}{-}
1185
           {2}{=
1186
           {3}{三
1187
           { 4 } { 四 }
1188
           {5}{五}
           { 6 } { 六 }
           {7}{七}
1191
           {8}{八}
1192
           {9}{九}
1193
         }
1194
1195
```

(End definition for \xltj_int_to_kansuji:n. This function is documented on page ??.)

3.10 pl PT_{PX} 2_{ϵ} 互換インターフェイス

```
\prg_new_conditional:Npnn \platex_if_direction_yoko: { p, T, F, TF }
1197
       \bool_if:NTF \l__xltj_tate_text_bool
         { \prg_return_false: }
         { \prg_return_true: }
     }
1201
   \prg_new_conditional:Npnn \platex_if_direction_tate: { p, T, F, TF }
1202
1203
       \bool_if:NTF \l__xltj_tate_text_bool
1204
         { \prg_return_true: }
1205
         { \prg_return_false: }
1206
1207
   \cs_new_eq:NN \IfDirectionYokoT
                                     \platex_if_direction_yoko:T
   \cs_new_eq:NN \IfDirectionYokoF
                                     \platex_if_direction_yoko:F
   \cs_new_eq:NN \IfDirectionYokoTF \platex_if_direction_yoko:TF
   \cs_new_eq:NN \IfDirectionTateT
                                     \platex_if_direction_tate:T
   \cs_new_eq:NN \IfDirectionTateF \platex_if_direction_tate:F
   \cs_new_eq:NN \IfDirectionTateTF \platex_if_direction_tate:TF
   \cs_new_eq:NN \setkanjiskip \xltj_set_kanjiskip:n
   \cs_new_eq:NN \getkanjiskip \xltj_get_kanjiskip:
   \cs_new_eq:NN \setxkanjiskip \xltj_set_xkanjiskip:n
1217 \cs_new_eq:NN \getxkanjiskip \xltj_get_xkanjiskip:
1218 \cs_new:Npn \mcdefault { mc }
```

```
1219 \cs_new:Npn \gtdefault { gt }
              \cs_new:Npn \kanjifamilydefault { \mcdefault }
              \NewDocumentCommand \mcfamily {}
                { \xltj_set_kanji_family:x { \mcdefault } }
              \NewDocumentCommand \gtfamily {}
                { \xltj_set_kanji_family:x { \gtdefault } }
              \DeclareTextFontCommand{\textmc}{\mcfamily}
              \DeclareTextFontCommand{\textgt}{\gtfamily}
              \cs_new_eq:NN \tokansuji \xltj_int_to_kansuji:n
          3.11
                  JFM ファイルの読み込み
           1228 \input{xltjfm-\g_xltj_jfm_name_tl.def}
           1229 (/package)
                  xltjext パッケージ
          3.12
           1230 (*xltjext)
\rensuji
           1231 \newskip\rensujiskip
           1232 \rensujiskip=0.25\l_xltj_zw_dim plus.25\l_xltj_zw_dim minus.25\l_xltj_zw_dim
          (End definition for \rensuji. This function is documented on page ??.)
\rensuji
              \NewDocumentCommand \rensuji { s O{c} m }
           1234
                   \mode_if_vertical:T { \mode_leave_vertical: }
           1235
                   \xltj_if_tate_text:TF
           1236
                    {
                       \skip_horizontal:n { \rensujiskip }
           1238
                       \IfBooleanF {#1}
           1239
           1240
                           \xltj_yoko_in_tate_hbox_set:Nn \l_tmpa_box {#3}
           1241
                           \dim_set:Nn \l_tmpa_dim
           1242
                             { \box_ht:N \l_tmpa_box + \box_dp:N \l_tmpa_box }
                           \hbox_set:Nn \l_tmpa_box
                             {
                               \str_case:nn {#2}
           1246
                                 {
           1247
                                   { c }
           1248
           1249
                                      \__xltj_vrule:nnn
           1250
                                        { \c_zero_dim }
           1251
                                        { 0.5\l_tmpa_dim }
           1252
                                        { 0.5\l_tmpa_dim }
           1253
                                   }
                                   { r }
           1256
                                      \__xltj_vrule:nnn
           1257
                                        { \c_zero_dim }
           1258
                                        { 0.5\l_xltj_zw_dim }
           1259
```

```
{ \l_tmpa_dim - 0.5\l_xltj_zw_dim }
         1260
                                    }
         1261
                                    { 1 }
         1262
                                    {
         1263
                                       \__xltj_vrule:nnn
         1264
                                         { \c_zero_dim }
          1265
                                         { \l_tmpa_dim - 0.5\l_xltj_zw_dim }
          1266
                                         { 0.5\1_xltj_zw_dim }
                                    }
                                 }
                             }
                           \xltj_box_tjabaselineshift:n
         1271
                             { \box_use_drop:N \l_tmpa_box }
         1273
                      \xltj_box_tjabaselineshift:n
         1274
                        {
         1275
                           \xltj_yoko_in_tate_hbox_to_wd:nn { 1\l_xltj_zw_dim }
          1276
          1277
                               \str_case:nn {#2}
                                  {
                                    { c } { \tex_hss:D #3 \tex_hss:D }
                                    { r } { \tex_hss:D #3 }
         1281
                                    { 1 } { #3 \tex_hss:D }
         1282
         1283
                             }
         1284
         1285
                       \skip_horizontal:n { \rensujiskip }
          1286
          1287
          1288
                       \hbox:n {#3}
                    }
         1290
         1292 \let\Rensuji\rensuji
         1293 \let\prensuji\rensuji
         (End definition for \rensuji. This function is documented on page ??.)
\Kanji
             \NewExpandableDocumentCommand \Kanji { m }
                  \xltj_int_to_kansuji:n { \use:c { c@#1 } }
         (End definition for \Kanji. This function is documented on page ??.)
\kanji
             \NewExpandableDocumentCommand \kanji { m }
         1298
         1299
                  \xltj_if_tate_text:TF
         1300
                    { \xltj_int_to_kansuji:n {#1} }
         1301
                    {#1}
         1302
         1303
         (End definition for \kanji. This function is documented on page ??.)
         1304 (/xltjext)
```

3.13 JFM ファイル

```
1305 (*jfm)
1306 (*standard)
1307 \xltj_set_kanjiskip_lazy:n { Opt plus .4pt minus .5pt }
1308 \xltj_set_xkanjiskip_lazy:n { .25\l_xltj_zw_dim plus1pt minus1pt }
 文字クラス
1309 \xltj_class_new_kanji:n { kanji/open }
1310 \xltj class new kanji:n { kanji/close }
1311 \xltj_class_new_kanji:n { kanji/middle }
1312 \xltj_class_new_kanji:n { kanji/fullstop }
1313 \xltj_class_new_kanji:n { kanji/nodiv }
1314 \xltj_class_new_kanji:n { kanji/noprebreak }
1315 \xltj_class_new_kanji:n { kanji/nopostbreak }
1316 \xltj_class_new_kanji:n { kanji/smallkana }
1317 \xltj_class_new_alpha:n { alpha/left }
1318 \xltj_class_new_alpha:n { alpha/right }
1319 \xltj_class_new_alpha:n { alpha/middle }
1320 \xltj_class_update:
  「Unicode Standard Annex #11 (UAX 11) East Asian Width」において、Fullwidth (F)、
Halfwidth (H)、Wide (W)、Ambiguous (A) と設定されている文字を和文文字とする。
1321 \xltj_char_set_class:nn { "00A1 } { kanji/default }
1322 \xltj_char_set_class:nn { "00A4 } { kanji/default }
1323 \xltj_char_set_class:nn { "00A7 } { kanji/default }
1324 \xltj_char_set_class:nn { "00A8 } { kanji/default }
1325 \xltj_char_set_class:nn { "00AA } { kanji/default }
1326 \xltj_char_set_class:nn { "00AD } { kanji/default }
1327 \xltj_char_set_class:nn { "OOAE } { kanji/default }
1328 \xltj_char_set_class:nn { "00B0 } { kanji/default }
1329 \xltj_char_set_class:nn { "00B1 } { kanji/default }
1330 \xltj char set class range:nnn { "00B2 } { "00B3 } { kanji/default }
1331 \xltj char set class:nn { "00B4 } { kanji/default }
1332 \xltj_char_set_class_range:nnn { "00B6 } { "00B7 } { kanji/default }
1333 \xltj_char_set_class:nn { "00B8 } { kanji/default }
1334 \xltj_char_set_class:nn { "00B9 } { kanji/default
1335 \xltj_char_set_class:nn { "00BA } { kanji/default }
1336 \xltj_char_set_class_range:nnn { "00BC } { "00BE } { kanji/default }
1337 \xltj_char_set_class:nn { "OOBF } { kanji/default }
1338 \xltj_char_set_class:nn { "00C6 } { kanji/default }
1339 \xltj_char_set_class:nn { "00D0 } { kanji/default }
1340 \xlti char set class:nn { "OOD7 } { kanji/default }
1341 \xltj char set class:nn { "00D8 } { kanji/default }
1342 \xltj_char_set_class_range:nnn { "00DE } { "00E1 } { kanji/default }
1343 \xltj_char_set_class:nn { "00E6 } { kanji/default }
1344 \xltj_char_set_class_range:nnn { "00E8 } { "00EA } { kanji/default }
1346 \xltj_char_set_class:nn { "00F0 } { kanji/default }
1347 \xltj_char_set_class_range:nnn { "00F2 } { "00F3 } { kanji/default }
1348 \xltj_char_set_class:nn { "00F7 } { kanji/default }
1349 \xltj_char_set_class_range:nnn { "00F8 } { "00FA } { kanji/default }
1350 \xltj_char_set_class:nn { "00FC } { kanji/default }
```

```
1351 \xltj_char_set_class:nn { "00FE } { kanji/default }
1352 \xltj_char_set_class:nn { "0101 } { kanji/default }
1353 \xltj_char_set_class:nn { "0111 } { kanji/default }
1354 \xltj_char_set_class:nn { "0113 } { kanji/default }
1355 \xltj_char_set_class:nn { "011B } { kanji/default }
1356 \xltj_char_set_class_range:nnn { "0126 } { "0127 } { kanji/default }
1357 \xltj_char_set_class:nn { "012B } { kanji/default }
1358 \xltj_char_set_class_range:nnn { "0131 } { "0133 } { kanji/default }
1359 \xltj_char_set_class:nn { "0138 } { kanji/default }
1360 \xltj_char_set_class_range:nnn { "013F } { "0142 } { kanji/default }
1361 \xltj_char_set_class:nn { "0144 } { kanji/default }
\mbox{\colored} \mbox{\color
1363 \xltj_char_set_class:nn { "014D } { kanji/default }
\mbox{\sc 1364} \mbox{\sc 13
1365 \xltj_char_set_class_range:nnn { "0166 } { "0167 } { kanji/default }
1366 \xltj_char_set_class:nn { "016B } { kanji/default }
1367 \xltj_char_set_class:nn { "01CE } { kanji/default }
1368 \xltj_char_set_class:nn { "01D0 } { kanji/default }
1369 \xltj_char_set_class:nn { "01D2 } { kanji/default }
1370 \xltj_char_set_class:nn { "01D4 } { kanji/default }
1371 \xltj_char_set_class:nn { "01D6 } { kanji/default }
1372 \xltj_char_set_class:nn { "01D8 } { kanji/default }
1373 \xltj_char_set_class:nn { "01DA } { kanji/default }
1374 \xltj_char_set_class:nn { "01DC } { kanji/default }
1375 \xltj_char_set_class:nn { "0251 } { kanji/default }
1376 \xltj_char_set_class:nn { "0261 } { kanji/default }
1377 \xltj_char_set_class:nn { "02C4 } { kanji/default }
1378 \xltj_char_set_class:nn { "02C7 } { kanji/default }
\xltj_char_set_class_range:nnn { "02C9 } { "02CB } { kanji/default }
1380 \xltj_char_set_class:nn { "02CD } { kanji/default }
1381 \xltj_char_set_class:nn { "02D0 } { kanji/default }
1382 \xltj_char_set_class_range:nnn { "02D8 } { "02DB } { kanji/default }
1383 \xltj_char_set_class:nn { "02DD } { kanji/default }
1384 \xltj_char_set_class:nn { "02DF } { kanji/default }
1385 \xltj_char_set_class_range:nnn { "0300 } { "036F } { kanji/default }
\mbox{\sc limits} $$1386 \times j_{\sc limits} = 1386 \mbox{\sc limits} $$1386 \times j_{\sc l
1387 \xltj_char_set_class_range:nnn { "03A3 } { "03A9 } { kanji/default }
1388 \xltj_char_set_class_range:nnn { "03B1 } { "03C1 } { kanji/default }
1389 \xltj_char_set_class_range:nnn { "03C3 } { "03C9 } { kanji/default }
1390 \xltj_char_set_class:nn { "0401 } { kanji/default }
1391 \xltj_char_set_class_range:nnn { "0410 } { "044F } { kanji/default }
1392 \xltj_char_set_class:nn { "0451 } { kanji/default }
1393 \xltj_char_set_class_range:nnn { "1100 } { "115F } { kanji/default }
 \label{limits} $$ \vec{j_char_set_class_range:nnn { "2013 } { "2015 } { kanji/default } $$
1396 \xltj_char_set_class:nn { "2016 } { kanji/default }
1397 \xltj_char_set_class:nn { "2018 } { kanji/default }
1398 \xltj_char_set_class:nn { "2019 } { kanji/default }
1399 \xltj_char_set_class:nn { "201C } { kanji/default }
1400 \xltj_char_set_class:nn { "201D } { kanji/default }
1401 \xltj_char_set_class_range:nnn { "2020 } { "2022 } { kanji/default }
1402 \xltj_char_set_class_range:nnn { "2024 } { "2027 } { kanji/default }
1403 \xltj_char_set_class:nn { "2030 } { kanji/default }
1404 \xltj_char_set_class_range:nnn { "2032 } { "2033 } { kanji/default }
```

```
1405 \xltj_char_set_class:nn { "2035 } { kanji/default }
1406 \xltj_char_set_class:nn { "203B } { kanji/default }
1407 \xltj_char_set_class:nn { "203E } { kanji/default }
1408 \xltj char set class:nn { "2074 } { kanji/default }
1409 \xltj_char_set_class:nn { "207F } { kanji/default }
1410 \xltj_char_set_class_range:nnn { "2081 } { "2084 } { kanji/default }
1411 \xltj_char_set_class:nn { "20A9 } { kanji/default }
1412 \xltj_char_set_class:nn { "20AC } { kanji/default }
1413 \xltj_char_set_class:nn { "2103 } { kanji/default }
1414 \xltj_char_set_class:nn { "2105 } { kanji/default }
1415 \xltj_char_set_class:nn { "2109 } { kanji/default }
1416 \xltj_char_set_class:nn { "2113 } { kanji/default }
\label{lambda} $$1417 \times t_c^2 = c_c^2 : nn { "2116 } { kanji/default }
1418 \xltj_char_set_class_range:nnn { "2121 } { "2122 } { kanji/default }
1419 \xltj_char_set_class:nn { "2126 } { kanji/default }
1420 \xltj_char_set_class:nn { "212B } { kanji/default }
1421 \xltj_char_set_class_range:nnn { "2153 } { "2154 } { kanji/default }
1422 \xltj_char_set_class_range:nnn { "215B } { "215E } { kanji/default }
\label{lambda} $$ xltj\_char\_set\_class\_range:nnn { "2160 } { "216B } { kanji/default } $$
1424 \xltj_char_set_class_range:nnn { "2170 } { "2179 } { kanji/default }
1425 \xltj_char_set_class:nn { "2189 } { kanji/default }
1428 \xltj_char_set_class_range:nnn { "21B8 } { "21B9 } { kanji/default }
1429 \xltj_char_set_class:nn { "21D2 } { kanji/default }
1430 \xltj_char_set_class:nn { "21D4 } { kanji/default }
1431 \xltj_char_set_class:nn { "21E7 } { kanji/default }
1432 \xltj_char_set_class:nn { "2200 } { kanji/default }
1433 \xltj_char_set_class_range:nnn { "2202 } { "2203 } { kanji/default }
1434 \xltj_char_set_class_range:nnn { "2207 } { "2208 } { kanji/default }
1435 \xltj_char_set_class:nn { "220B } { kanji/default }
1436 \xltj_char_set_class:nn { "220F } { kanji/default }
1437 \xltj_char_set_class:nn { "2211 } { kanji/default }
1438 \xltj_char_set_class:nn { "2215 } { kanji/default }
1439 \xltj_char_set_class:nn { "221A } { kanji/default }
1441 \xltj_char_set_class:nn { "2223 } { kanji/default }
1442 \xltj_char_set_class:nn { "2225 } { kanji/default }
1443 \xltj_char_set_class_range:nnn { "2227 } { "222C } { kanji/default }
1444 \xltj_char_set_class:nn { "222E } { kanji/default }
1445 \xltj_char_set_class_range:nnn { "2234 } { "2237 } { kanji/default }
1446 \xltj_char_set_class_range:nnn { "223C } { "223D } { kanji/default }
1447 \xltj_char_set_class:nn { "2248 } { kanji/default }
1448 \xltj_char_set_class:nn { "224C } { kanji/default }
1449 \xltj_char_set_class:nn { "2252 } { kanji/default }
1451 \xltj_char_set_class_range:nnn { "2264 } { "2267 } { kanji/default }
1452 \xltj_char_set_class_range:nnn { "226A } { "226B } { kanji/default }
1453 \xltj_char_set_class_range:nnn { "226E } { "226F } { kanji/default }
1455 \xltj_char_set_class_range:nnn { "2286 } { "2287 } { kanji/default }
1456 \xltj_char_set_class:nn { "2295 } { kanji/default }
1457 \xltj_char_set_class:nn { "2299 } { kanji/default }
1458 \xltj_char_set_class:nn { "22A5 } { kanji/default }
```

```
1459 \xltj_char_set_class:nn { "22BF } { kanji/default }
1460 \xltj_char_set_class:nn { "2312 } { kanji/default }
1461 \xltj_char_set_class_range:nnn { "231A } { "231B } { kanji/default }
1462 \xltj_char_set_class:nn { "2329 } { kanji/default }
1463 \xltj_char_set_class:nn { "232A } { kanji/default }
1464 \xltj_char_set_class_range:nnn { "23E9 } { "23EC } { kanji/default }
1465 \xltj_char_set_class:nn { "23F0 } { kanji/default }
1466 \xltj_char_set_class:nn { "23F3 } { kanji/default }
1468 \xltj_char_set_class_range:nnn { "249C } { "24E9 } { kanji/default }
1469 \xltj_char_set_class_range:nnn { "24EB } { "24FF } { kanji/default }
1471 \xltj_char_set_class_range:nnn { "2550 } { "2573 } { kanji/default }
1472 \xltj_char_set_class_range:nnn { "2580 } { "258F } { kanji/default }
1473 \xltj_char_set_class_range:nnn { "2592 } { "2595 } { kanji/default }
1474 \xltj_char_set_class_range:nnn { "25A0 } { "25A1 } { kanji/default }
1475 \xltj_char_set_class_range:nnn { "25A3 } { "25A9 } { kanji/default }
1476 \xltj_char_set_class_range:nnn { "25B2 } { "25B3 } { kanji/default }
1477 \xltj_char_set_class:nn { "25B6 } { kanji/default }
1478 \xltj_char_set_class:nn { "25B7 } { kanji/default }
1479 \xltj_char_set_class_range:nnn { "25BC } { "25BD } { kanji/default }
1480 \xltj_char_set_class:nn { "25C0 } { kanji/default }
1481 \xltj_char_set_class:nn { "25C1 } { kanji/default }
\mbox{\climate{thm:line}1482 \climate{thm:line}1482 \climate{thm:line}} \climate{thm:line} \climate{thm:li
1483 \xltj_char_set_class:nn { "25CB } { kanji/default }
1485 \xltj_char_set_class_range:nnn { "25E2 } { "25E5 } { kanji/default }
1486 \xltj_char_set_class:nn { "25EF } { kanji/default }
1487 \xltj_char_set_class_range:nnn { "25FD } { "25FE } { kanji/default }
1488 \xltj_char_set_class_range:nnn { "2605 } { "2606 } { kanji/default }
1489 \xltj_char_set_class:nn { "2609 } { kanji/default }
1490 \xltj_char_set_class_range:nnn { "260E } { "260F } { kanji/default }
1492 \xltj_char_set_class:nn { "261C } { kanji/default }
1493 \xltj_char_set_class:nn { "261E } { kanji/default }
1494 \xltj_char_set_class:nn { "2640 } { kanji/default }
1496 \xltj_char_set_class_range:nnn { "2648 } { "2653 } { kanji/default }
1497 \xltj_char_set_class_range:nnn { "2660 } { "2661 } { kanji/default }
1498 \xltj_char_set_class_range:nnn { "2663 } { "2665 } { kanji/default }
1499 \xltj_char_set_class_range:nnn { "2667 } { "266A } { kanji/default }
1500 \xltj_char_set_class_range:nnn { "266C } { "266D } { kanji/default }
1501 \xltj_char_set_class:nn { "266F } { kanji/default }
1502 \xltj_char_set_class:nn { "267F } { kanji/default }
1503 \xltj_char_set_class:nn { "2693 } { kanji/default }
1504 \xltj_char_set_class_range:nnn { "269E } { "269F } { kanji/default }
1505 \xltj_char_set_class:nn { "26A1 } { kanji/default }
1506 \xltj_char_set_class_range:nnn { "26AA } { "26AB } { kanji/default }
1507 \xltj_char_set_class_range:nnn { "26BD } { "26BE } { kanji/default }
1508 \xltj_char_set_class:nn { "26BF } { kanji/default }
1509 \xltj_char_set_class_range:nnn { "26C4 } { "26C5 } { kanji/default }
1510 \xltj_char_set_class_range:nnn { "26C6 } { "26CD } { kanji/default }
\xltj_char_set_class:nn { "26CE } { kanji/default }
1512 \xltj_char_set_class_range:nnn { "26CF } { "26D3 } { kanji/default }
```

```
1513 \xltj_char_set_class:nn { "26D4 } { kanji/default }
^{1514} \xltj\_char\_set\_class\_range:nnn { "26D5 } { "26E1 } { kanji/default }
1515 \xltj_char_set_class:nn { "26E3 } { kanji/default }
1516 \xltj_char_set_class_range:nnn { "26E8 } { "26E9 } { kanji/default }
1517 \xltj_char_set_class:nn { "26EA } { kanji/default }
1518 \xltj_char_set_class_range:nnn { "26EB } { "26F1 } { kanji/default }
\xltj_char_set_class_range:nnn { "26F2 } { "26F3 } { kanji/default }
1520 \xltj_char_set_class:nn { "26F4 } { kanji/default }
1521 \xltj_char_set_class:nn { "26F5 } { kanji/default }
1522 \xltj_char_set_class_range:nnn { "26F6 } { "26F9 } { kanji/default }
1523 \xltj_char_set_class:nn { "26FA } { kanji/default }
1524 \xltj_char_set_class_range:nnn { "26FB } { "26FC } { kanji/default }
1525 \xltj_char_set_class:nn { "26FD } { kanji/default }
1526 \xltj_char_set_class_range:nnn { "26FE } { "26FF } { kanji/default }
1527 \xltj_char_set_class:nn { "2705 } { kanji/default }
\xltj_char_set_class_range:nnn { "270A } { "270B } { kanji/default }
1529 \xltj_char_set_class:nn { "2728 } { kanji/default }
1530 \xltj_char_set_class:nn { "273D } { kanji/default }
\xltj_char_set_class:nn { "274C } { kanji/default }
1532 \xltj_char_set_class:nn { "274E } { kanji/default }
1533 \xltj_char_set_class_range:nnn { "2753 } { "2755 } { kanji/default }
1534 \xltj_char_set_class:nn { "2757 } { kanji/default }
\mbox{1535} \xltj\_char\_set\_class\_range:nnn { "2776 } { "277F } { kanji/default }
1536 \xltj_char_set_class_range:nnn { "2795 } { "2797 } { kanji/default }
1537 \xltj_char_set_class:nn { "27B0 } { kanji/default }
1538 \xltj_char_set_class:nn { "27BF } { kanji/default }
1539 \xltj_char_set_class_range:nnn { "2B1B } { "2B1C } { kanji/default }
1540 \xltj_char_set_class:nn { "2B50 } { kanji/default }
1541 \xltj_char_set_class:nn { "2B55 } { kanji/default }
\mbox{1542 }\mbox{\footnotesize} \mbox{\footnotesize} \mbox{\footnotes
\xltj_char_set_class_range:nnn { "2E80 } { "2E99 } { kanji/default }
1544 \xltj_char_set_class_range:nnn { "2E9B } { "2EF3 } { kanji/default }
1545 \xltj_char_set_class_range:nnn { "2F00 } { "2FD5 } { kanji/default }
1546 \xltj_char_set_class_range:nnn { "2FFO } { "2FFB } { kanji/default }
1547 \xltj_char_set_class:nn { "3000 } { kanji/default }
1548 \xltj_char_set_class_range:nnn { "3001 } { "3003 } { kanji/default }
1549 \xltj_char_set_class:nn { "3004 } { kanji/default }
1550 \xltj_char_set_class:nn { "3005 } { kanji/default
\xltj_char_set_class:nn { "3006 } { kanji/default
1552 \xltj_char_set_class:nn { "3007 } { kanji/default
1553 \xltj_char_set_class:nn { "3008 } { kanji/default }
1554 \xltj_char_set_class:nn { "3009 } { kanji/default }
1555 \xltj_char_set_class:nn { "300A } { kanji/default }
1556 \xltj_char_set_class:nn { "300B } { kanji/default }
1557 \xltj_char_set_class:nn { "300C } { kanji/default }
1558 \xltj_char_set_class:nn { "300D } { kanji/default }
1559 \xltj_char_set_class:nn { "300E } { kanji/default }
1560 \xltj_char_set_class:nn { "300F } { kanji/default }
1561 \xltj_char_set_class:nn { "3010 } { kanji/default }
1562 \xltj_char_set_class:nn { "3011 } { kanji/default }
1563 \xltj_char_set_class_range:nnn { "3012 } { "3013 } { kanji/default }
1564 \xltj_char_set_class:nn { "3014 } { kanji/default }
1565 \xltj_char_set_class:nn { "3015 } { kanji/default }
1566 \xltj_char_set_class:nn { "3016 } { kanji/default }
```

```
1567 \xltj_char_set_class:nn { "3017 } { kanji/default }
1568 \xltj_char_set_class:nn { "3018 } { kanji/default }
1569 \xltj_char_set_class:nn { "3019 } { kanji/default }
1570 \xltj char set class:nn { "301A } { kanji/default }
1571 \xltj_char_set_class:nn { "301B } { kanji/default }
1572 \xltj_char_set_class:nn { "301C } { kanji/default }
1573 \xltj_char_set_class:nn { "301D } { kanji/default }
1574 \xltj_char_set_class_range:nnn { "301E } { "301F } { kanji/default }
1575 \xltj_char_set_class:nn { "3020 } { kanji/default }
1576 \xltj_char_set_class_range:nnn { "3021 } { "3029 } { kanji/default }
\xltj_char_set_class_range:nnn { "302A } { "302D } { kanji/default }
\mbox{1578} \time \tim
1579 \xltj_char_set_class:nn { "3030 } { kanji/default }
1580 \xltj_char_set_class_range:nnn { "3031 } { "3035 } { kanji/default }
1581 \xltj_char_set_class_range:nnn { "3036 } { "3037 } { kanji/default }
1582 \xltj_char_set_class_range:nnn { "3038 } { "303A } { kanji/default }
1583 \xltj_char_set_class:nn { "303B } { kanji/default }
1584 \xltj_char_set_class:nn { "303C } { kanji/default }
1585 \xltj_char_set_class:nn { "303D } { kanji/default }
1586 \xltj_char_set_class:nn { "303E } { kanji/default }
1587 \xltj_char_set_class_range:nnn { "3041 } { "3096 } { kanji/default }
\mbox{1588} \tilde{\mbox{1588}} \tilde{\mbox
^{1589} \xltj\_char\_set\_class\_range:nnn { "309B } { "309C } { kanji/default }
1591 \xltj_char_set_class:nn { "309F } { kanji/default }
1592 \xltj_char_set_class:nn { "30A0 } { kanji/default }
1593 \xltj_char_set_class_range:nnn { "30A1 } { "30FA } { kanji/default }
1594 \xltj_char_set_class:nn { "30FB } { kanji/default }
1595 \xltj_char_set_class_range:nnn { "30FC } { "30FE } { kanji/default }
1596 \xltj_char_set_class:nn { "30FF } { kanji/default }
\xltj_char_set_class_range:nnn { "3105 } { "312F } { kanji/default }
1598 \xltj_char_set_class_range:nnn { "3131 } { "318E } { kanji/default }
\tt 1599 \xltj\_char\_set\_class\_range:nnn { "3190 } { "3191 } { kanji/default }
1600 \xltj_char_set_class_range:nnn { "3192 } { "3195 } { kanji/default }
1601 \xltj_char_set_class_range:nnn { "3196 } { "319F } { kanji/default }
1602 \xltj_char_set_class_range:nnn { "31A0 } { "31BF } { kanji/default }
1603 \xltj_char_set_class_range:nnn { "31C0 } { "31E3 } { kanji/default }
1604 \xltj_char_set_class_range:nnn { "31F0 } { "31FF } { kanji/default }
\xltj_char_set_class_range:nnn { "3200 } { "321E } { kanji/default }
1606 \xltj_char_set_class_range:nnn { "3220 } { "3229 } { kanji/default }
\xltj_char_set_class_range:nnn { "322A } { "3247 } { kanji/default }
\xltj_char_set_class_range:nnn { "3248 } { "324F } { kanji/default }
\xltj_char_set_class:nn { "3250 } { kanji/default }
\label{local_local_local_local_local} $$ \frac{1610 \times 1tj\_char\_set\_class\_range:nnn { "3251 } { "325F } { kanji/default } $$
\mbox{\em 1611} \xltj_char_set_class_range:nnn { "3260 } { "327F } { kanji/default }
1612 \xltj_char_set_class_range:nnn { "3280 } { "3289 } { kanji/default }
\xltj_char_set_class_range:nnn { "328A } { "32BO } { kanji/default }
1614 \xltj_char_set_class_range:nnn { "32B1 } { "32BF } { kanji/default }
1615 \xltj_char_set_class_range:nnn { "32C0 } { "32FF } { kanji/default }
1616 \xltj_char_set_class_range:nnn { "3300 } { "33FF } { kanji/default }
\xltj_char_set_class_range:nnn { "3400 } { "4DBF } { kanji/default }
\xltj_char_set_class_range:nnn { "4E00 } { "9FFC } { kanji/default }
\xltj_char_set_class_range:nnn { "9FFD } { "9FFF } { kanji/default }
\xltj_char_set_class_range:nnn { "A000 } { "A014 } { kanji/default }
```

```
\xltj_char_set_class:nn { "A015 } { kanji/default }
{\tt 1622 \xltj\_char\_set\_class\_range:nnn \{ "A016 \} \{ "A48C \} \{ kanji/default \} }
_{1623} \xltj_char_set_class_range:nnn { "A490 } { "A4C6 } { kanji/default }
1624 \xltj_char_set_class_range:nnn { "A960 } { "A97C } { kanji/default }
1625 \xltj_char_set_class_range:nnn { "ACOO } { "D7A3 } { kanji/default }
1626 \xltj_char_set_class_range:nnn { "E000 } { "F8FF } { kanji/default }
1627 \xltj_char_set_class_range:nnn { "F900 } { "FA6D } { kanji/default }
{\tt l628 \xltj\_char\_set\_class\_range:nnn \{ "FA6E \} \{ \xspace kanji/default \} }
\xltj_char_set_class_range:nnn { "FA70 } { "FAD9 } { kanji/default }
1630 \xltj_char_set_class_range:nnn { "FADA } { "FAFF } { kanji/default }
\xltj_char_set_class_range:nnn { "FEOO } { "FEOF } { kanji/default }
\xltj_char_set_class:nn { "FE17 } { kanji/default }
1634 \xltj_char_set_class:nn { "FE18 } { kanji/default
1635 \xltj_char_set_class:nn { "FE19 } { kanji/default
1636 \xltj_char_set_class:nn { "FE30 } { kanji/default }
\xltj_char_set_class_range:nnn { "FE31 } { "FE32 } { kanji/default }
_{1638} \ \tilde{like} \ \tilde{li
1639 \xltj_char_set_class:nn { "FE35 } { kanji/default }
1640 \xltj_char_set_class:nn { "FE36 } { kanji/default }
1641 \xltj_char_set_class:nn { "FE37 } { kanji/default }
1642 \xltj_char_set_class:nn { "FE38 } { kanji/default }
1643 \xltj_char_set_class:nn { "FE39 } { kanji/default }
1644 \xltj_char_set_class:nn { "FE3A } { kanji/default }
1645 \xltj_char_set_class:nn { "FE3B } { kanji/default }
1646 \xltj_char_set_class:nn { "FE3C } { kanji/default }
1647 \xltj_char_set_class:nn { "FE3D } { kanji/default }
1648 \xltj_char_set_class:nn { "FE3E } { kanji/default }
1649 \xltj_char_set_class:nn { "FE3F } { kanji/default }
1650 \xltj_char_set_class:nn { "FE40 } { kanji/default }
1651 \xltj_char_set_class:nn { "FE41 } { kanji/default }
1652 \xltj_char_set_class:nn { "FE42 } { kanji/default }
\xltj_char_set_class:nn { "FE43 } { kanji/default }
1654 \xltj_char_set_class:nn { "FE44 } { kanji/default }
less \xltj_char_set_class_range:nnn { "FE45 } { "FE46 } { kanji/default }
1656 \xltj_char_set_class:nn { "FE47 } { kanji/default }
1657 \xltj_char_set_class:nn { "FE48 } { kanji/default }
1658 \xltj_char_set_class_range:nnn { "FE49 } { "FE4C } { kanji/default }
1659 \xltj_char_set_class_range:nnn { "FE4D } { "FE4F } { kanji/default }
\xltj_char_set_class_range:nnn { "FE50 } { "FE52 } { kanji/default }
\xltj_char_set_class_range:nnn { "FE54 } { "FE57 } { kanji/default }
1662 \xltj_char_set_class:nn { "FE58 } { kanji/default }
1663 \xltj_char_set_class:nn { "FE59 } { kanji/default }
1664 \xltj_char_set_class:nn { "FE5A } { kanji/default }
1665 \xltj_char_set_class:nn { "FE5B } { kanji/default }
1666 \xltj_char_set_class:nn { "FE5C } { kanji/default }
1667 \xltj_char_set_class:nn { "FE5D } { kanji/default }
1668 \xltj_char_set_class:nn { "FE5E } { kanji/default }
1669 \xltj_char_set_class_range:nnn { "FE5F } { "FE61 } { kanji/default }
1670 \xltj_char_set_class:nn { "FE62 } { kanji/default }
1671 \xltj_char_set_class:nn { "FE63 } { kanji/default }
\xltj_char_set_class_range:nnn { "FE64 } { "FE66 } { kanji/default }
1673 \xltj_char_set_class:nn { "FE68 } { kanji/default }
1674 \xltj_char_set_class:nn { "FE69 } { kanji/default }
```

```
\xltj_char_set_class_range:nnn { "FE6A } { "FE6B } { kanji/default }
1676 \xltj_char_set_class_range:nnn { "FF01 } { "FF03 } { kanji/default }
1677 \xltj_char_set_class:nn { "FF04 } { kanji/default }
\xltj_char_set_class_range:nnn { "FF05 } { "FF07 } { kanji/default }
1679 \xltj_char_set_class:nn { "FF08 } { kanji/default }
1680 \xltj_char_set_class:nn { "FF09 } { kanji/default }
1681 \xltj_char_set_class:nn { "FFOA } { kanji/default }
1682 \xltj_char_set_class:nn { "FFOB } { kanji/default }
1683 \xltj_char_set_class:nn { "FFOC } { kanji/default }
1684 \xltj_char_set_class:nn { "FFOD } { kanji/default }
\xltj_char_set_class_range:nnn { "FFOE } { "FFOF } { kanji/default }
1688 \xltj_char_set_class_range:nnn { "FF1C } { "FF1E } { kanji/default }
1689 \xltj_char_set_class_range:nnn { "FF1F } { "FF20 } { kanji/default }
1690 \xltj_char_set_class_range:nnn { "FF21 } { "FF3A } { kanji/default }
1691 \xltj_char_set_class:nn { "FF3B } { kanji/default }
1692 \xltj_char_set_class:nn { "FF3C } { kanji/default }
1693 \xltj_char_set_class:nn { "FF3D } { kanji/default }
1694 \xltj_char_set_class:nn { "FF3E } { kanji/default }
1695 \xltj_char_set_class:nn { "FF3F } { kanji/default }
1696 \xltj_char_set_class:nn { "FF40 } { kanji/default }
\xltj_char_set_class_range:nnn { "FF41 } { "FF5A } { kanji/default }
1698 \xltj_char_set_class:nn { "FF5B } { kanji/default }
1699 \xltj_char_set_class:nn { "FF5C } { kanji/default }
1700 \xltj_char_set_class:nn { "FF5D } { kanji/default }
1701 \xltj_char_set_class:nn { "FF5E } { kanji/default }
1702 \xltj_char_set_class:nn { "FF5F } { kanji/default }
1703 \xltj_char_set_class:nn { "FF60 } { kanji/default }
1704 \xltj_char_set_class:nn { "FF61 } { kanji/default }
1705 \xltj_char_set_class:nn { "FF62 } { kanji/default }
1706 \xltj_char_set_class:nn { "FF63 } { kanji/default }
1707 \xltj_char_set_class_range:nnn { "FF64 } { "FF65 } { kanji/default }
1709 \xltj_char_set_class:nn { "FF70 } { kanji/default }
1710 \xltj_char_set_class_range:nnn { "FF71 } { "FF9D } { kanji/default }
\xltj_char_set_class_range:nnn { "FF9E } { "FF9F } { kanji/default }
1712 \xltj_char_set_class_range:nnn { "FFAO } { "FFBE } { kanji/default }
1714 \xltj_char_set_class_range:nnn { "FFCA } { "FFCF } { kanji/default }
1715 \xltj_char_set_class_range:nnn { "FFD2 } { "FFD7 } { kanji/default }
1716 \xltj_char_set_class_range:nnn { "FFDA } { "FFDC } { kanji/default }
1718 \xltj_char_set_class:nn { "FFE2 } { kanji/default }
1719 \xltj_char_set_class:nn { "FFE3 } { kanji/default }
1720 \xltj_char_set_class:nn { "FFE4 } { kanji/default }
\xltj_char_set_class_range:nnn { "FFE5 } { "FFE6 } { kanji/default }
1722 \xltj_char_set_class:nn { "FFE8 } { kanji/default }
\xltj_char_set_class_range:nnn { "FFE9 } { "FFEC } { kanji/default }
1724 \xltj_char_set_class_range:nnn { "FFED } { "FFEE } { kanji/default }
1725 \xltj_char_set_class:nn { "FFFD } { kanji/default }
\xltj_char_set_class_range:nnn { "16FE0 } { "16FE1 } { kanji/default }
1727 \xltj_char_set_class:nn { "16FE2 } { kanji/default }
1728 \xltj_char_set_class:nn { "16FE3 } { kanji/default }
```

```
1729 \xltj_char_set_class:nn { "16FE4 } { kanji/default }
1731 \xltj_char_set_class_range:nnn { "17000 } { "187F7 } { kanji/default }
1732 \xltj_char_set_class_range:nnn { "18800 } { "18AFF } { kanji/default }
\mbox{\colored} \mbox{\color
1734 \xltj_char_set_class_range:nnn { "18D00 } { "18D08 } { kanji/default }
1735 \xltj_char_set_class_range:nnn { "1B000 } { "1B0FF } { kanji/default }
1738 \xltj_char_set_class_range:nnn { "1B164 } { "1B167 } { kanji/default }
1739 \xltj_char_set_class_range:nnn { "1B170 } { "1B2FB } { kanji/default }
1740 \xltj_char_set_class:nn { "1F004 } { kanji/default }
1741 \xltj_char_set_class:nn { "1FOCF } { kanji/default }
1742 \xltj_char_set_class_range:nnn { "1F100 } { "1F10A } { kanji/default }
1744 \xltj_char_set_class_range:nnn { "1F130 } { "1F169 } { kanji/default }
1745 \xltj_char_set_class_range:nnn { "1F170 } { "1F18D } { kanji/default }
1746 \xltj_char_set_class:nn { "1F18E } { kanji/default }
\mbox{\colored} \xltj_char_set_class_range:nnn { "1F18F } { "1F190 } { kanji/default }
1748 \xltj_char_set_class_range:nnn { "1F191 } { "1F19A } { kanji/default }
1749 \xltj_char_set_class_range:nnn { "1F19B } { "1F1AC } { kanji/default }
\mbox{\sc 1752} \mbox{\sc 17
1753 \xltj_char_set_class_range:nnn { "1F250 } { "1F251 } { kanji/default }
1754 \xltj_char_set_class_range:nnn { "1F260 } { "1F265 } { kanji/default }
1755 \xltj_char_set_class_range:nnn { "1F300 } { "1F320 } { kanji/default }
1756 \xltj_char_set_class_range:nnn { "1F32D } { "1F335 } { kanji/default }
1757 \xltj_char_set_class_range:nnn { "1F337 } { "1F37C } { kanji/default }
1758 \xltj_char_set_class_range:nnn { "1F37E } { "1F393 } { kanji/default }
1759 \xltj_char_set_class_range:nnn { "1F3A0 } { "1F3CA } { kanji/default }
1760 \xltj_char_set_class_range:nnn { "1F3CF } { "1F3D3 } { kanji/default }
\xltj_char_set_class_range:nnn { "1F3E0 } { "1F3F0 } { kanji/default }
1762 \xltj_char_set_class:nn { "1F3F4 } { kanji/default }
1763 \xltj_char_set_class_range:nnn { "1F3F8 } { "1F3FA } { kanji/default }
1764 \xltj_char_set_class_range:nnn { "1F3FB } { "1F3FF } { kanji/default }
1765 \xltj_char_set_class_range:nnn { "1F400 } { "1F43E } { kanji/default }
1766 \xltj_char_set_class:nn { "1F440 } { kanji/default }
1767 \xltj_char_set_class_range:nnn { "1F442 } { "1F4FC } { kanji/default }
1768 \xltj_char_set_class_range:nnn { "1F4FF } { "1F53D } { kanji/default }
1769 \xltj_char_set_class_range:nnn { "1F54B } { "1F54E } { kanji/default }
1770 \xltj_char_set_class_range:nnn { "1F550 } { "1F567 } { kanji/default }
1771 \xltj_char_set_class:nn { "1F57A } { kanji/default }
\tt 1772 \xltj\_char\_set\_class\_range:nnn { "1F595 } { "1F596 } { kanji/default }
1773 \xltj_char_set_class:nn { "1F5A4 } { kanji/default }
\xltj_char_set_class_range:nnn { "1F600 } { "1F64F } { kanji/default }
1776 \xltj_char_set_class_range:nnn { "1F680 } { "1F6C5 } { kanji/default }
1777 \xltj_char_set_class:nn { "1F6CC } { kanji/default }
1778 \xltj_char_set_class_range:nnn { "1F6D0 } { "1F6D2 } { kanji/default }
\xltj_char_set_class_range:nnn { "1F6D5 } { "1F6D7 } { kanji/default }
1780 \xltj_char_set_class_range:nnn { "1F6EB } { "1F6EC } { kanji/default }
\xltj_char_set_class_range:nnn { "1F6F4 } { "1F6FC } { kanji/default }
1782 \xltj_char_set_class_range:nnn { "1F7E0 } { "1F7EB } { kanji/default }
```

```
1783 \xltj_char_set_class_range:nnn { "1F90C } { "1F93A } { kanji/default }
1784 \xltj_char_set_class_range:nnn { "1F93C } { "1F945 } { kanji/default }
\mbox{1785} \xltj\_char\_set\_class\_range:nnn { "1F947 } { "1F978 } { kanji/default }
1786 \xltj_char_set_class_range:nnn { "1F97A } { "1F9CB } { kanji/default }
1787 \xltj_char_set_class_range:nnn { "1F9CD } { "1F9FF } { kanji/default }
1788 \xltj_char_set_class_range:nnn { "1FA70 } { "1FA74 } { kanji/default }
1789 \xltj_char_set_class_range:nnn { "1FA78 } { "1FA7A } { kanji/default }
1790 \xltj_char_set_class_range:nnn { "1FA80 } { "1FA86 } { kanji/default }
1791 \xltj_char_set_class_range:nnn { "1FA90 } { "1FAA8 } { kanji/default }
1792 \xltj_char_set_class_range:nnn { "1FABO } { "1FAB6 } { kanji/default }
1793 \xltj_char_set_class_range:nnn { "1FACO } { "1FAC2 } { kanji/default }
1794 \xltj_char_set_class_range:nnn { "1FADO } { "1FAD6 } { kanji/default }
1795 \xltj_char_set_class_range:nnn { "20000 } { "2A6DD } { kanji/default }
1796 \xltj_char_set_class_range:nnn { "2A6DE } { "2A6FF } { kanji/default }
1797 \xltj_char_set_class_range:nnn { "2A700 } { "2B734 } { kanji/default }
1798 \xltj_char_set_class_range:nnn { "2B735 } { "2B73F } { kanji/default }
1799 \xltj_char_set_class_range:nnn { "2B740 } { "2B81D } { kanji/default }
\xltj_char_set_class_range:nnn { "2B820 } { "2CEA1 } { kanji/default }
1802 \xltj_char_set_class_range:nnn { "2CEA2 } { "2CEAF } { kanji/default }
\xltj_char_set_class_range:nnn { "2CEBO } { kanji/default }
\xltj_char_set_class_range:nnn { "2F800 } { "2FA1D } { kanji/default }
\xltj_char_set_class_range:nnn { "2FA20 } { "2FFFD } { kanji/default }
1808 \xltj_char_set_class_range:nnn { "30000 } { "3134A } { kanji/default }
1809 \xltj_char_set_class_range:nnn { "3134B } { "3FFFD } { kanji/default }
1810 \xltj_char_set_class_range:nnn { "E0100 } { "E01EF } { kanji/default }
\xltj_char_set_class_range:nnn { "F0000 } { "FFFFD } { kanji/default }
\xltj_char_set_class_range:nnn { "100000 } { "10FFFD } { kanji/default }
 開き括弧類
1813 \clist_map_inline:nn
       "2018 , "201C , "2329 , "3008 , "300A , "300C , "300E , "3010 ,
       "3014 , "3016 , "3018 , "301A , "301D , "FF08 , "FF3B , "FF5B ,
       "FF5F
1817
     7
1818
1819
     {
       \xltj_char_set_class:nn {#1} { kanji/open }
1820
1821
 閉じ括弧類
   \clist_map_inline:nn
1822
1823
       "2019 , "201D , "232A , "3001 , "3009 , "300B , "300D , "300F ,
1824
       "3011 , "3015 , "3017 , "3019 , "301B , "301E , "301F , "FF09 ,
1825
       "FFOC , "FF3D , "FF5D , "FF60
1826
     }
1827
1828
       \xltj_char_set_class:nn {#1} { kanji/close }
1829
 中点類
1831 \clist_map_inline:nn
```

```
"00B7 , "30FB , "FF1A , "FF1B
1833
1834
1835
        \xltj_char_set_class:nn {#1} { kanji/middle }
1836
1838 \clist_map_inline:nn
1839
        "3002 , "FF0E
1840
1841
        \xltj_char_set_class:nn {#1} { kanji/fullstop }
 分割禁止文字
   \clist_map_inline:nn
        "2014 , "2015 , "2025 , "2026
        \xltj_char_set_class:nn {#1} { kanji/nodiv }
 行頭禁則文字
1852 \clist_map_inline:nn
        "00AA , "00B2 , "00B3 , "00B4 , "00B9 , "00BA , "02D0 , "2122 ,
1854
        "3005 , "3033 , "3034 , "3035 , "303B , "309B , "309C , "309D , "309E , "30FC , "30FD , "30FE , "FF01 , "FF1F , "FF61 , "FF63 ,
1855
1856
        "FF64 , "FF9E , "FF9F
1857
1858
1859
        \xltj_char_set_class:nn {#1} { kanji/noprebreak }
1861
 行末禁則文字
   \clist_map_inline:nn
1862
1863
        "00A1 , "00BF , "20AC , "FF40 , "FF62
1864
        \xltj_char_set_class:nn {#1} { kanji/nopostbreak }
 小書き仮名
1869 \clist_map_inline:nn
        "3041 , "3043 , "3045 , "3047 , "3049 , "3063 , "3083 , "3085 ,
        "3087 , "308E , "30A1 , "30A3 , "30A5 , "30A7 , "30A9 , "30C3 ,
1872
        "30E3 , "30E5 , "30E7 , "30EE , "30F5 , "30F6 , "3095 , "3096 ,
1873
        "31F0 , "31F1 , "31F2 , "31F3 , "31F4 , "31F5 , "31F6 , "31F7 ,
1874
        "31F8 , "31F9 , "31FA , "31FB , "31FC , "31FD , "31FE , "31FF
1875
1876
     {
1877
```

```
\xltj_char_set_class:nn {#1} { kanji/smallkana }
1879
   \clist_map_inline:nn
1880
1881
       "0028 , "005B , "0060
1882
1883
1884
       \xltj_char_set_class:nn {#1} { alpha/left }
1885
   \clist_map_inline:nn
1887
1888
       "0027 , "0029 , "002C , "002E , "003A , "003B , "005D
1889
1890
1891
       \xltj_char_set_class:nn {#1} { alpha/right }
1892
1893
   \clist_map_inline:nn
1895
       "0021 , "0022 , "0023 , "0024 , "0025 , "0026 , "002A , "002B
1896
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1897
       "005E , "005F , "007B , "007C , "007D , "007E ,
1898
1899
1900
       \xltj_char_set_class:nn {#1} { alpha/middle }
1901
 和文文字クラス間のグルー・カーン設定
   \{ 0.5\l_xltj_zw_dim minus 0.5\l_xltj_zw_dim \}
   \xltj_jfm_set_glue:nnn { kanji/default } { kanji/middle }
     { 0.25\l_xltj_zw_dim minus 0.25\l_xltj_zw_dim }
   1907
    { 0.25\l_xltj_zw_dim\ minus\ 0.25\l_xltj_zw_dim\ }
1908
   \xltj_jfm_set_glue:nnn { kanji/close } { kanji/default }
1909
    { 0.5\l_xltj_zw_dim\ minus\ 0.5\l_xltj_zw_dim\ }
1910
   \xltj_jfm_set_glue:nnn { kanji/close } { kanji/open }
1911
1912
    { 0.5\l_xltj_zw_dim minus 0.5\l_xltj_zw_dim }
1913
   \xltj_jfm_set_glue:nnn { kanji/close } { kanji/middle }
    \{ 0.25\ln xltj_zw_dim minus 0.25\ln xltj_zw_dim \}
   \xltj_jfm_set_glue:nnn { kanji/close } { kanji/nodiv }
    { 0.5\l_xltj_zw_dim\ minus\ 0.5\l_xltj_zw_dim\ }
1917
   { 0.5\l_xltj_zw_dim\ minus\ 0.5\l_xltj_zw_dim\ }
1918
   1919
    { 0.5\l_xltj_zw_dim minus 0.5\l_xltj_zw_dim }
1920
   1921
    { 0.5\l_xltj_zw_dim minus 0.5\l_xltj_zw_dim }
1922
   \xltj_jfm_set_glue:nnn { kanji/middle } { kanji/default }
    { 0.25\l_xltj_zw_dim\ minus\ 0.25\l_xltj_zw_dim\ }
   \xltj_jfm_set_glue:nnn {    kanji/middle } {    kanji/open }
    { 0.25\l_xltj_zw_dim\ minus\ 0.25\l_xltj_zw_dim\ }
   \xltj_jfm_set_glue:nnn { kanji/middle } { kanji/close }
    { 0.25\l_xltj_zw_dim\ minus\ 0.25\l_xltj_zw_dim\ }
```

```
\xltj_jfm_set_glue:nnn { kanji/middle } { kanji/middle }
     { 0.5\l_xltj_zw_dim\ minus\ 0.25\l_xltj_zw_dim\ }
   \xltj_jfm_set_glue:nnn { kanji/middle } { kanji/fullstop }
     { 0.25\1_xltj_zw_dim minus 0.25\1_xltj_zw_dim }
   \xltj_jfm_set_glue:nnn { kanji/middle } { kanji/nodiv }
1933
     { 0.25\1_xltj_zw_dim minus 0.25\1_xltj_zw_dim }
   \xltj_jfm_set_glue:nnn { kanji/middle } { kanji/noprebreak }
     { 0.25\l_xltj_zw_dim minus 0.25\l_xltj_zw_dim }
   \xltj_jfm_set_glue:nnn {        kanji/middle        }        {              kanji/nopostbreak        }
     { 0.25\l_xltj_zw_dim\ minus\ 0.25\l_xltj_zw_dim\ }
   { 0.25\l_xltj_zw_dim\ minus\ 0.25\l_xltj_zw_dim\ }
1940
   \xltj_jfm_set_glue:nnn { kanji/fullstop } { kanji/default }
1941
     { 0.5\1_xltj_zw_dim }
1942
   \xltj_jfm_set_glue:nnn { kanji/fullstop } { kanji/open }
1943
     \{ 0.5 \mid 1_x \mid tj_z w_dim \}
1944
   \xltj_jfm_set_glue:nnn { kanji/fullstop } { kanji/middle }
1945
     { 0.75\l_xltj_zw_dim minus 0.25\l_xltj_zw_dim }
1946
   \xltj_jfm_set_glue:nnn { kanji/fullstop } { kanji/nodiv }
     \{ 0.5 \mid 1_x \mid tj_z w_dim \}
   \xltj_jfm_set_glue:nnn { kanji/fullstop } { kanji/noprebreak }
     { 0.5\1_xltj_zw_dim }
1950
   \xltj_jfm_set_glue:nnn { kanji/fullstop } { kanji/nopostbreak }
1951
     { 0.5\ln xltj_zw_dim }
1952
   \xltj_jfm_set_glue:nnn { kanji/fullstop } { kanji/smallkana }
1953
     { 0.5\ln xltj_zw_dim }
1954
   \xltj_jfm_set_glue:nnn { kanji/nodiv } { kanji/open }
1955
     { 0.5\l_xltj_zw_dim minus 0.5\l_xltj_zw_dim }
1956
   \xltj_jfm_set_glue:nnn { kanji/nodiv } { kanji/middle }
     { 0.25\l_xltj_zw_dim minus 0.25\l_xltj_zw_dim }
   \xltj_jfm_set_kern:nnn { kanji/nodiv } { kanji/nodiv }
     { \c_zero_dim }
   \xltj_jfm_set_glue:nnn { kanji/noprebreak } { kanji/open }
1961
     { 0.5\l_xltj_zw_dim\ minus\ 0.5\l_xltj_zw_dim\ }
1962
   \xltj_jfm_set_glue:nnn { kanji/noprebreak } { kanji/middle }
1963
     { 0.25\l_xltj_zw_dim\ minus\ 0.25\l_xltj_zw_dim\ }
1964
   \xltj_jfm_set_glue:nnn { kanji/nopostbreak } { kanji/open }
1965
     { 0.5\l_xltj_zw_dim minus 0.5\l_xltj_zw_dim }
1967
   \xltj_jfm_set_glue:nnn { kanji/nopostbreak } { kanji/middle }
     { 0.25\l_xltj_zw_dim minus 0.25\l_xltj_zw_dim }
   \xltj_jfm_set_glue:nnn { kanji/smallkana } { kanji/open }
     { 0.5\l_xltj_zw_dim\ minus\ 0.5\l_xltj_zw_dim\ }
   \xltj_jfm_set_glue:nnn { kanji/smallkana } { kanji/middle }
     { 0.25\ln x1tj_zw_dim\ minus\ 0.25\ln x1tj_zw_dim\ }
 和文文字の文字幅調整設定
1973 \xltj_jfm_set_precharwd:nn { kanji/open } { -0.5\l_xltj_zw_dim }
1974 \xltj_jfm_set_postcharwd:nn { kanji/close } { -0.5\l_xltj_zw_dim }
1976 \xltj_jfm_set_postcharwd:nn { kanji/middle } { -0.25\l_xltj_zw_dim }
1977 \xltj_jfm_set_postcharwd:nn { kanji/fullstop } { -0.5\l_xltj_zw_dim }
 和文文字の禁則設定
1978 \xltj_jfm_set_postbreakpenalty:nn { kanji/open } { 10000 }
1979 \xltj_jfm_set_prebreakpenalty:nn { kanji/close } { 10000 }
```

```
1980 \xltj_jfm_set_prebreakpenalty:nn { kanji/fullstop } { 10000 }
1981 \xltj_jfm_set_prebreakpenalty:nn { kanji/middle } { 10000 }
1982 \xltj_jfm_set_prebreakpenalty:nn { kanji/nodiv } { 250 }
1983 \xltj_jfm_set_postbreakpenalty:nn { kanji/nopostbreak } { 10000 }
1984 \xltj_jfm_set_prebreakpenalty:nn { kanji/noprebreak } { 10000 }
1985 \xltj_jfm_set_prebreakpenalty:nn { kanji/smallkana } { 150 }
 和欧文間空白の挿入設定
1986 \xltj_jfm_set_xspmode:nn { kanji/open } { preonly }
1987 \xltj_jfm_set_xspmode:nn { kanji/close } { postonly }
1988 \xltj jfm set xspmode:nn { kanji/fullstop } { postonly }
1989 \xltj_jfm_set_xspmode:nn { kanji/middle } { inhibit }
1990 \xltj_jfm_set_xspmode:nn { kanji/nodiv } { inhibit }
1991 \xltj_jfm_set_xspmode:nn { kanji/nopostbreak } { preonly }
1992 \xltj_jfm_set_xspmode:nn { kanji/noprebreak } { postonly }
1993 \xltj_jfm_set_xspmode:nn { alpha/left } { preonly }
1994 \xltj_jfm_set_xspmode:nn { alpha/right } { postonly }
1995 \xltj_jfm_set_xspmode:nn { alpha/middle } { inhibit }
1996 (/standard)
1997 (/jfm)
       BXJS ドキュメントクラス用和文ドライバファイル
3.14
1998 (*bxjsja)
 minimal 和文ドライバを読み込む。
1999 \input{bxjsja-minimal.def}
  \zw が二重定義になるので削除する。
2000 \cs_if_exist:NT \zw
     { \cs_undefine:N \zw }
 X元ATrX-ja を読み込む。
2002 \RequirePackage[jascale={\jsZw/\f@size pt}]{xelatexja}
  単位等を定義する。
2003 \dim_const:Nn \jQ { 0.25mm }
2004 \cs_new_eq:NN \jH \jQ
2005 \dim_const:Nn \trueQ { 0.25truemm }
2006 \cs_new_eq:NN \trueH \trueQ
2007 \dim_const:Nn \ascQ { \fp_to_dim:n { 1\trueQ / \xltj_get_jascale: } }
2008 \dim_const:Nn \ascpt
     { \footnote{odim:n} { \dim_eval:n { 1truept } / xltj_get_jascale: } }
  和文フォント命令を定義する。
2010 \DeclareJaTextFontCommand{\textmc}{\mcfamily}
2011 \DeclareJaTextFontCommand{\textgt}{\gtfamily}
 欧文フォントファミリと和文フォントファミリを連動させる。
2012 \hook_gput_code:nnn { rmfamily } { . }
     { \mcfamily }
2014 \hook_gput_code:nnn { sffamily } { . }
     { \gtfamily }
2016 \hook_gput_code:nnn { ttfamily } { . }
     { \gtfamily }
```

```
(x)kanjiskip の初期値を設定する。
2018 \setkanjiskip{Opt plus.1\zw minus.01\zw}
2019 \ifx\jsDocClass\jsSlide
2020 \setxkanjiskip{0.1em}
2021 \else
2022 \setxkanjiskip{0.25em plus 0.15em minus 0.06em}
2023 \fi
2024 ⟨/bxjsja⟩
```

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