

The `xepersian-hm` package Fixing kashida in xepersian Source code documentation

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1 `xepersian-hm` Implementation

1.1 File: `xepersian-hm.sty`

```
1 <*xepersian-hm-sty>
2 \NeedsTeXFormat{LaTeX2e}
3 \RequirePackage{expl3}[2020-03-06]
4 \@ifpackagelater{expl3}{2020-03-06}
5 {}
6 {%
7   \PackageError{xepersian-hm}{Support package l3kernel too old}
8   {%
9     Please install an up to date version of l3kernel\MessageBreak
10    using your TeX package manager or from CTAN.\MessageBreak
11    \MessageBreak
12    Loading xtemplate will abort!%
13  }%
14  \endinput
15 }
16 \RequirePackage{l3keys2e}
17 \RequirePackage{graphicx}[2019-11-30]
18 \RequirePackage{zref-savepos}[2020-03-03]
19 \RequirePackage{xepersian}
20 \ExplSyntaxOn
21 \ProvidesExplPackage {xepersian-hm} {2020-05-07} {0.5d} { Fixes~issues~in~xepersian~package }
22
23 \int_const:Nn \c_xephm_ksh_int {"0640} % kashida
24 \int_const:Nn \c_xephm_lrm_int {"200E} % left-right-mark
25 \int_const:Nn \c_xephm_zwj_int {"200D} % zero-width joiner
26
27 \int_const:Nn \c_xephm_two_int {2} % 2
```

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28 \int_const:Nn \c_xephm_four_int {4} % 4
29
30 \tl_const:Nn \c_xephm_skip_a_tl { 0 em plus 0.5 em }
31 \tl_const:Nn \c_xephm_skip_b_tl { 0.14 em plus 5.5 em }
32
33 \int_new:N \l_xephm_counter_int
34
35 \int_new:N \l_xephm_kashida_slot_int
36
37 \int_new:N \l_xephm_line_break_penalty_int
38
39 \int_new:N \l_xephm_min_penalty_int
40 \int_new:N \l_xephm_low_penalty_int
41 \int_new:N \l_xephm_med_penalty_int
42 \int_new:N \l_xephm_high_penalty_int
43 \int_new:N \l_xephm_max_penalty_int
44
45 \tl_new:N \l_xephm_line_break_tl
46
47 \tl_new:N \l_xephm_main_font_full_tl
48 \tl_new:N \l_xephm_main_font_name_tl
49
50 \tl_new:N \l_xephm_skip_default_tl
51
52 \tl_new:N \l_xephm_gap_filler_tl
53
54 \dim_new:N \l_xephm_diff_pos_dim
55
56 \bool_set_false:N \l_xephm_kashida_hm_fix_bool
57 \bool_set_false:N \l_xephm_linebreakpenalty_bool
58
59 \int_set:Nn \l_xephm_min_penalty_int { 0 }
60 \int_set:Nn \l_xephm_low_penalty_int { 8 }
61 \int_set:Nn \l_xephm_med_penalty_int { 15 }
62 \int_set:Nn \l_xephm_high_penalty_int { 25 }
63 \int_set:Nn \l_xephm_max_penalty_int { 10000 }
64
65 \tl_set:Nn \l_xephm_stretch_glyph_tl { glyph }
66 \tl_set:Nn \l_xephm_stretch_hrulerule_tl { hrulerule }
67
68 \tl_set:Nn \l_xephm_kayhan_tl { kayhan }
69 \tl_set:Nn \l_xephm_khorramshahr_tl { khorramshahr }
70 \tl_set:Nn \l_xephm_kayhannavaar_tl { kayhannavaar }
71 \tl_set:Nn \l_xephm_kayhanpook_tl { kayhanpook }
72 \tl_set:Nn \l_xephm_kayhansayeh_tl { kayhansayeh }
73 \tl_set:Nn \l_xephm_khoramshahr_tl { khoramshahr }
74 \tl_set:Nn \l_xephm_khorramshahr_tl { khorramshahr }
75 \tl_set:Nn \l_xephm_niloofar_tl { niloofar }
76 \tl_set:Nn \l_xephm_paatch_tl { paatch }
77 \tl_set:Nn \l_xephm_riyaz_tl { riyaz }

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78 \tl_set:Nn \l_xephm_roya_tl      { roya }
79 \tl_set:Nn \l_xephm_shafigh_tl   { shafigh }
80 \tl_set:Nn \l_xephm_shafighKurd_tl { shafighKurd }
81 \tl_set:Nn \l_xephm_shafighUzbek_tl { shafighUzbek }
82 \tl_set:Nn \l_xephm_shiraz_tl    { shiraz }
83 \tl_set:Nn \l_xephm_sols_tl      { sols }
84 \tl_set:Nn \l_xephm_tabriz_tl    { tabriz }
85 \tl_set:Nn \l_xephm_titr_tl      { titr }
86 \tl_set:Nn \l_xephm_titre_tl     { titre }
87 \tl_set:Nn \l_xephm_traffic_tl   { traffic }
88 \tl_set:Nn \l_xephm_vahid_tl     { vahid }
89 \tl_set:Nn \l_xephm_vosta_tl     { vosta }
90 \tl_set:Nn \l_xephm_yaghut_tl    { yaghut }
91 \tl_set:Nn \l_xephm_yagut_tl     { yagut }
92 \tl_set:Nn \l_xephm_yas_tl       { yas }
93 \tl_set:Nn \l_xephm_yekan_tl     { yekan }
94 \tl_set:Nn \l_xephm_ymook_tl     { yermook }
95 \tl_set:Nn \l_xephm_zar_tl       { zar }
96 \tl_set:Nn \l_xephm_ziba_tl      { ziba }
97 \tl_set:Nn \l_xephm_default_tl   { default }
98 \tl_set:Nn \l_xephm_noskip_tl    { noskip }
99
100 \msg_new:nnn { xepersian-hm } { kashida-character-is-not-available-in-the-main-font }
101 {
102   Sorry,~ kashida~ character~ is~ not~ available~ in~ the~ main~ font~!
103 }
104
105 \msg_new:nnn { xepersian-hm } { value-not-available-for-kashida-option }
106 {
107   Sorry,~ value~ `#1'~ is~ not~ available~ for~ `Kashida'~ option~ yet~!
108 }
109
110 \msg_new:nnn { xepersian-hm } { specify-value-for-kashida-option }
111 {
112   Sorry,~ you~ must~ specify~ a~ value~ for~ `Kashida'~ option~ yet~!
113 }
114
115 \keys_define:nn { xepersian-hm }
116 {
117   Kashida .code:n =
118   {
119     \tl_set:Nn \l_tmpa_tl { #1 }
120     \tl_case:NnTF \l_tmpa_tl
121     {
122       \l_xephm_stretch_glyph_tl
123       {
124         \tl_set:Nn \l_xephm_gap_filler_tl { \l_xephm_stretch_glyph_tl }
125         \AtBeginDocument
126         {
127           \tl_set:Nx \l_xephm_main_font_full_tl { \tex_fontname:D \tex_the:D \tex_font:D }

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128         \tl_set:Nx \l_xephm_main_font_name_tl { \l_xephm_main_font_full_tl }
129         \regex_replace_once:nnN { ^"([^\s]+)/.* } { \1 } \l_xephm_main_font_name_tl
130         \int_set:Nn \l_xephm_kashida_slot_int { \xetex_charglyph:D \c_xephm_ksh_int }
131         \int_compare:nT { \l_xephm_kashida_slot_int = \c_zero_int }
132         {
133             \msg_error:nn { xepersian-hm } { kashida-character-is-not-available-in-the-m
134         }
135     }
136 }
137 \l_xephm_stretch_hruler_tl
138 {
139     \tl_set:Nn \l_xephm_gap_filler_tl { \l_xephm_stretch_hruler_tl }
140 }
141 } { } { \tl_set:Nx \l_xephm_gap_filler_tl { #1 } }
142 \tl_if_empty:NT \l_xephm_gap_filler_tl { \msg_error:nn { xepersian-hm } { specify-value-for-
143 \bool_set_true:N \l_xephm_kashida_hm_fix_bool
144 \tex_input:D { kashida-xepersian-hm.def }
145 } ,
146
147 linebreakpenalty .code:n =
148 {
149     \int_set:Nn \l_tmpa_int { #1 }
150     \int_case:nnTF \l_tmpa_int
151     {
152         \l_xephm_min_penalty_int { \int_set:Nn \l_xephm_line_break_penalty_int { \l_xephm_min_per
153         \l_xephm_low_penalty_int { \int_set:Nn \l_xephm_line_break_penalty_int { \l_xephm_low_per
154         \l_xephm_med_penalty_int { \int_set:Nn \l_xephm_line_break_penalty_int { \l_xephm_med_per
155         \l_xephm_high_penalty_int { \int_set:Nn \l_xephm_line_break_penalty_int { \l_xephm_high_
156         \l_xephm_max_penalty_int { \int_set:Nn \l_xephm_line_break_penalty_int { \l_xephm_max_per
157     } { } { \int_set:Nn \l_xephm_line_break_penalty_int { #1 } }
158     \bool_set_true:N \l_xephm_linebreakpenalty_bool
159 } ,
160
161 kashidastretch .code:n =
162 {
163     \tl_set:Nn \l_tmpb_tl { #1 }
164     \tl_case:NnTF \l_tmpb_tl
165     {
166         \l_xephm_kayhan_tl { \tl_set:Nn \l_xephm_skip_default_tl { 0.14 em plus 0.5 em }
167         \l_xephm_khorramshahr_tl { \tl_set:Nn \l_xephm_skip_default_tl { 0.131 em plus 0.5 em }
168         \l_xephm_kayhannavaar_tl { \tl_set:Nn \l_xephm_skip_default_tl { 0.129 em plus 0.5 em }
169         \l_xephm_kayhanpook_tl { \tl_set:Nn \l_xephm_skip_default_tl { 0.133 em plus 0.5 em }
170         \l_xephm_kayhansayeh_tl { \tl_set:Nn \l_xephm_skip_default_tl { 0.135 em plus 0.5 em }
171         \l_xephm_khoramshahr_tl { \tl_set:Nn \l_xephm_skip_default_tl { 0.128 em plus 0.5 em }
172         \l_xephm_khorramshahr_tl { \tl_set:Nn \l_xephm_skip_default_tl { 0.13 em plus 0.5 em }
173         \l_xephm_niloofoar_tl { \tl_set:Nn \l_xephm_skip_default_tl { 0.132 em plus 0.5 em }
174         \l_xephm_paatch_tl { \tl_set:Nn \l_xephm_skip_default_tl { 0.127 em plus 0.5 em }
175         \l_xephm_riyaz_tl { \tl_set:Nn \l_xephm_skip_default_tl { 0.125 em plus 0.5 em }
176         \l_xephm_roya_tl { \tl_set:Nn \l_xephm_skip_default_tl { 0.142 em plus 0.5 em }
177         \l_xephm_shafigh_tl { \tl_set:Nn \l_xephm_skip_default_tl { 0.143 em plus 0.5 em }

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178 \l_xephm_shafighKurd_tl { \tl_set:Nn \l_xephm_skip_default_tl { 0.126 em plus 0.5 em }
179 \l_xephm_shafighUzbek_tl { \tl_set:Nn \l_xephm_skip_default_tl { 0.123 em plus 0.5 em }
180 \l_xephm_shiraz_tl { \tl_set:Nn \l_xephm_skip_default_tl { 0.122 em plus 0.5 em }
181 \l_xephm_sols_tl { \tl_set:Nn \l_xephm_skip_default_tl { 0.124 em plus 0.5 em }
182 \l_xephm_tabriz_tl { \tl_set:Nn \l_xephm_skip_default_tl { 0.119 em plus 0.5 em }
183 \l_xephm_titr_tl { \tl_set:Nn \l_xephm_skip_default_tl { 0.12 em plus 0.5 em }
184 \l_xephm_titre_tl { \tl_set:Nn \l_xephm_skip_default_tl { 0.121 em plus 0.5 em }
185 \l_xephm_traffic_tl { \tl_set:Nn \l_xephm_skip_default_tl { 0.124 em plus 0.5 em }
186 \l_xephm_vahid_tl { \tl_set:Nn \l_xephm_skip_default_tl { 0.134 em plus 0.5 em }
187 \l_xephm_vosta_tl { \tl_set:Nn \l_xephm_skip_default_tl { 0.136 em plus 0.5 em }
188 \l_xephm_yaghut_tl { \tl_set:Nn \l_xephm_skip_default_tl { 0.138 em plus 0.5 em }
189 \l_xephm_yagut_tl { \tl_set:Nn \l_xephm_skip_default_tl { 0.137 em plus 0.5 em }
190 \l_xephm_yas_tl { \tl_set:Nn \l_xephm_skip_default_tl { 0.126 em plus 0.5 em }
191 \l_xephm_yekan_tl { \tl_set:Nn \l_xephm_skip_default_tl { 0.141 em plus 0.5 em }
192 \l_xephm_ymook_tl { \tl_set:Nn \l_xephm_skip_default_tl { 0.139 em plus 0.5 em }
193 \l_xephm_zar_tl { \tl_set:Nn \l_xephm_skip_default_tl { 0.116 em plus 0.5 em }
194 \l_xephm_ziba_tl { \tl_set:Nn \l_xephm_skip_default_tl { 0.119 em plus 0.5 em }
195 \l_xephm_default_tl { \tl_set:Nn \l_xephm_skip_default_tl { 0.14 em plus 0.5 em }
196 \l_xephm_noskip_tl { \tl_set:Nn \l_xephm_skip_default_tl { 0 em plus 0.5 em }
197 } { } { \tl_set:Nn \l_xephm_skip_default_tl { #1 } }
198 } ,
199 kashidastretch .default:n = \tl_set:Nn \l_xephm_skip_default_tl { 0 em plus 0.5 em } ,
200 }
201
202 \ProcessKeysOptions { xepersian-hm }
203
204 \ExplSyntaxOff
205 \endinput
206 </xepersian-hm-sty>

```

1.2 File: kashida-xepersian-hm.def

```

207 <*kashida-xepersian-hm-def>
208 \ExplSyntaxOn
209 \ProvidesExplFile {kashida-xepersian-hm.def} {2020-05-07} {0.5d} { Fixes~implementation-of~Kashida-i
210
211 \newXeTeXintercharclass \c_xephm_d_charclass % dual-joiner class
212 \newXeTeXintercharclass \c_xephm_l_charclass % lam
213 \newXeTeXintercharclass \c_xephm_r_charclass % right-joiner
214 \newXeTeXintercharclass \c_xephm_a_charclass % alef
215 \newXeTeXintercharclass \c_xephm_y_charclass % yeh
216
217 %% Partly adapted from LaTeX2e source
218 \cs_new:Nn \xephm_line_break: {
219 \if_mode_vertical:
220 \GenericError{
221 \space\space\space\space\space\space\space\space\space\space\space\space\space\space\space\space
222 }{
223 LaTeX Error: There's no line here to end
224 }{

```

```

225         See the LaTeX manual or LaTeX Companion for explanation.
226     }{
227         Your command was ignored.\MessageBreak
228         Type \space I <command> <return> \space to replace it~
229         with another command,\MessageBreak
230         or \space <return> \space to continue without it.}
231 \else:
232     \l_tmpa_skip \tex_lastskip:D
233     \tex_unskip:D
234     \tex_penalty:D -\l_xephm_line_break_penalty_int
235     \dim_compare:nT { \l_tmpa_skip > \c_zero_skip }
236     { \skip_horizontal:N \l_tmpa_skip \tex_ignorespaces:D }
237 \fi:
238 }
239
240 \NewDocumentCommand { \discouragebadlinebreaks } { 0{\l_xephm_line_break_penalty_int} 0{\c_xephm_skip}
241 {
242     \IfNoValueF {#1}
243     { \int_set:Nn \l_xephm_line_break_penalty_int {#1} }
244     \IfNoValueF {#2}
245     { \tl_set:Nn \l_xephm_skip_default_tl {#2} }
246     \xephm_put_line_breaks:n { #3 }
247 }
248
249 \cs_new_protected:Nn \xephm_put_line_breaks:n
250 {
251     \tl_set:Nn \l_xephm_line_break_tl { #1 }
252     \regex_replace_all:nnN { +([\s\S]*?) } { { \ \ 0 \ \ \c{xephm_line_break:}\ } \l_xephm_line_break_tl }
253     \tl_use:N \l_xephm_line_break_tl
254 }
255
256 %% Partly adapted from the code provided by David Carlisle in:
257 %% https://tex.stackexchange.com/questions/356709/how-to-know-the-width-and-fill-the-glue-space-between-lines
258 \cs_new:Npn \xephm_kashida_glyph #1
259 {
260     \bool_if:NT \l_xephm_kashida_hm_fix_bool
261     {
262         \c_xephm_lrm_int\tex_penalty:D 10000
263         \mode_leave_vertical:
264         \tex_global:D \tex_advance:D \l_xephm_counter_int \c_one_int
265
266         \tl_set:Nx \l_xephm_pos_tl { pos_\tex_romannumeral:D \l_xephm_counter_int }
267         \tl_set:Nx \l_xephm_zref_tl { zref_\tex_romannumeral:D \l_xephm_counter_int }
268
269         \zsavexposx{x_i\l_xephm_zref_tl}
270         \tl_set:Nx \l_tmpa_tl
271         {
272             \iow_now:cx { @auxout }
273             {
274                 \ExplSyntaxOn

```

```

275         \tl_gset:Nn \exp_after:wN \token_to_str:N \cs:w get_x_i\l_xephm_pos_tl \cs_end: { \zposx{
276         \ExplSyntaxOff
277     }
278 }
279 \l_tmpa_tl
280 \skip_horizontal:n { #1 }
281 \zsaveposx{x_f\l_xephm_zref_tl}
282 \tl_set:Nx \l_tmpa_tl
283 {
284     \iow_now:cx { @auxout }
285     {
286         \ExplSyntaxOn
287         \tl_gset:Nn \exp_after:wN \token_to_str:N \cs:w get_x_f\l_xephm_pos_tl \cs_end: { \zposx{
288         \ExplSyntaxOff
289     }
290 }
291 \l_tmpa_tl
292 \exp_after:wN
293 \if_meaning:w
294     \cs:w get_x_i\l_xephm_pos_tl \cs_end: \tex_relax:D
295 \else:
296     \dim_set:Nn \l_xephm_diff_pos_dim
297     {
298         \dim_eval:n { \cs:w get_x_i\l_xephm_pos_tl \cs_end: sp - \cs:w get_x_f\l_xephm_pos_tl \cs_
299     }
300     \dim_compare:nTF { \l_xephm_diff_pos_dim == 0sp }
301     { }
302     { \llap { \resizebox { \l_xephm_diff_pos_dim \tex_relax:D } { \height } { \c_xephm_ksh_int }
303 \fi:
304 }
305 }
306
307 %% Partly adapted from the code provided by Jonathan Kew in:
308 %% https://tug.org/pipermail/xetex/2009-February/012307.html.
309 %% Somebody notified me that the code in 'kashida-xepersian.def' from xepersian
310 %% package is an exact copy of Jonathan Kew's code. Being unaware of this, in
311 %% the earlier versions of this package I made a mistake and acknowledged
312 %% Vafa Khalighi instead of Jonathan Kew. A sincere thank you to Jonathan Kew
313 %% for his excellent code.
314 \cs_new:Npn \xephm_kashida_hrulerule #1
315 {
316     \bool_if:NT \l_xephm_kashida_hm_fix_bool
317     {
318         \c_xephm_lrm_int\c_xephm_zwj_int\tex_penalty:D 10000
319         \tex_leaders:D \tex_hrulerule:D height \XeTeXglyphbounds \c_xephm_two_int
320         \int_use:N \XeTeXcharglyph \c_xephm_ksh_int depth \XeTeXglyphbounds \c_xephm_four_int
321         \int_use:N \XeTeXcharglyph \c_xephm_ksh_int \skip_horizontal:n { #1 }
322         \c_xephm_zwj_int
323     }
324 }

```

```

325
326 \XeTeXinterchartokenstate = 1
327
328 \clist_set:Nn \l_xephm_a_clist { 0622,0623,0625,0627 } %
329 \clist_map_inline:Nn \l_xephm_a_clist
330 {
331   \XeTeXcharclass "#1 \c_xephm_a_charclass
332 }
333
334 \clist_set:Nn \l_xephm_d_clist { 0626,0628,062A,062B,062C,062D,062E,0633,0634,0635,0636,0637,0638,0639 } %
335 \clist_map_inline:Nn \l_xephm_d_clist
336 {
337   \XeTeXcharclass "#1 \c_xephm_d_charclass
338 }
339
340 \clist_set:Nn \l_xephm_l_clist { 0644 } %
341 \clist_map_inline:Nn \l_xephm_l_clist
342 {
343   \XeTeXcharclass "#1 \c_xephm_l_charclass
344 }
345
346 \clist_set:Nn \l_xephm_r_clist { 0624,0629,062F,0630,0631,0632,0648,0698 } % , , , , , ,
347 \clist_map_inline:Nn \l_xephm_r_clist
348 {
349   \XeTeXcharclass "#1 \c_xephm_r_charclass
350 }
351
352 \clist_set:Nn \l_xephm_y_clist { 0649,064A,06CC } % , ,
353 \clist_map_inline:Nn \l_xephm_y_clist
354 {
355   \XeTeXcharclass "#1 \c_xephm_y_charclass
356 }
357
358 \str_case:VnTF \l_xephm_gap_filler_tl
359 {
360   \l_xephm_stretch_glyph_tl
361   {
362     \XeTeXinterchartoks \c_xephm_y_charclass \c_xephm_y_charclass =
363     {
364       \bool_if:NTF \l_xephm_kashida_hm_fix_bool
365       { \c_xephm_zwj_int \xephm_kashida_glyph \l_xephm_skip_default_tl \c_xephm_zwj_int }
366       { \c_xephm_zwj_int \xephm_kashida_glyph \c_xephm_skip_a_tl \c_xephm_zwj_int }
367     }
368     \XeTeXinterchartoks \c_xephm_d_charclass \c_xephm_y_charclass =
369     {
370       \bool_if:NTF \l_xephm_kashida_hm_fix_bool
371       { \c_xephm_zwj_int \xephm_kashida_glyph \l_xephm_skip_default_tl \c_xephm_zwj_int }
372       { \c_xephm_zwj_int \xephm_kashida_glyph \c_xephm_skip_a_tl \c_xephm_zwj_int }
373     }
374     \XeTeXinterchartoks \c_xephm_y_charclass \c_xephm_d_charclass =

```



```

375     { \c_xephm_zwj_int \xephm_kashida_glyph \c_xephm_skip_a_tl \c_xephm_zwj_int }
376 \XeTeXinterchartoks \c_xephm_d_charclass \c_xephm_d_charclass =
377     { \c_xephm_zwj_int \xephm_kashida_glyph \c_xephm_skip_a_tl \c_xephm_zwj_int }
378 \XeTeXinterchartoks \c_xephm_l_charclass \c_xephm_d_charclass =
379     { \c_xephm_zwj_int \xephm_kashida_glyph \c_xephm_skip_a_tl \c_xephm_zwj_int }
380 \XeTeXinterchartoks \c_xephm_d_charclass \c_xephm_l_charclass =
381     { \c_xephm_zwj_int \xephm_kashida_glyph \c_xephm_skip_a_tl \c_xephm_zwj_int }
382 \XeTeXinterchartoks \c_xephm_l_charclass \c_xephm_l_charclass =
383     { \c_xephm_zwj_int \xephm_kashida_glyph \c_xephm_skip_a_tl \c_xephm_zwj_int }
384 \XeTeXinterchartoks \c_xephm_d_charclass \c_xephm_r_charclass =
385     { \c_xephm_zwj_int \xephm_kashida_glyph \c_xephm_skip_a_tl \c_xephm_zwj_int }
386 \XeTeXinterchartoks \c_xephm_d_charclass \c_xephm_a_charclass =
387     { \c_xephm_zwj_int \xephm_kashida_glyph \c_xephm_skip_a_tl \c_xephm_zwj_int }
388 \XeTeXinterchartoks \c_xephm_l_charclass \c_xephm_r_charclass =
389     { \c_xephm_zwj_int \xephm_kashida_glyph \c_xephm_skip_a_tl \c_xephm_zwj_int }
390 \XeTeXinterchartoks \c_xephm_l_charclass \c_xephm_a_charclass =
391     { }
392 }
393 \l_xephm_stretch_hrulerule_tl
394 {
395     \XeTeXinterchartoks \c_xephm_y_charclass \c_xephm_y_charclass =
396     {
397         \bool_if:NTF \l_xephm_kashida_hm_fix_bool
398         { \xephm_kashida_hrulerule \l_xephm_skip_default_tl }
399         { \xephm_kashida_hrulerule \c_xephm_skip_a_tl }
400     }
401     \XeTeXinterchartoks \c_xephm_d_charclass \c_xephm_y_charclass =
402     {
403         \bool_if:NTF \l_xephm_kashida_hm_fix_bool
404         { \xephm_kashida_hrulerule \l_xephm_skip_default_tl }
405         { \xephm_kashida_hrulerule \c_xephm_skip_a_tl }
406     }
407     \XeTeXinterchartoks \c_xephm_y_charclass \c_xephm_d_charclass =
408     { \xephm_kashida_hrulerule \c_xephm_skip_a_tl }
409     \XeTeXinterchartoks \c_xephm_d_charclass \c_xephm_d_charclass =
410     { \xephm_kashida_hrulerule \c_xephm_skip_a_tl }
411     \XeTeXinterchartoks \c_xephm_l_charclass \c_xephm_d_charclass =
412     { \xephm_kashida_hrulerule \c_xephm_skip_a_tl }
413     \XeTeXinterchartoks \c_xephm_d_charclass \c_xephm_l_charclass =
414     { \xephm_kashida_hrulerule \c_xephm_skip_a_tl }
415     \XeTeXinterchartoks \c_xephm_l_charclass \c_xephm_l_charclass =
416     { \xephm_kashida_hrulerule \c_xephm_skip_a_tl }
417     \XeTeXinterchartoks \c_xephm_d_charclass \c_xephm_r_charclass =
418     { \xephm_kashida_hrulerule \c_xephm_skip_a_tl }
419     \XeTeXinterchartoks \c_xephm_d_charclass \c_xephm_a_charclass =
420     { \xephm_kashida_hrulerule \c_xephm_skip_a_tl }
421     \XeTeXinterchartoks \c_xephm_l_charclass \c_xephm_r_charclass =
422     { \xephm_kashida_hrulerule \c_xephm_skip_a_tl }
423     \XeTeXinterchartoks \c_xephm_l_charclass \c_xephm_a_charclass =
424     { }

```

```

425     }
426   } { } { \msg_error:nxx { xepersian-hm } { value-not-available-for-kashida-option } { \l_xephm_gap_
427
428 \NewDocumentCommand \KashidaHMFixOn {} { \bool_set_true:N \l_xephm_kashida_hm_fix_bool }
429 \NewDocumentCommand \KashidaHMFixOff {} { \bool_set_false:N \l_xephm_kashida_hm_fix_bool }
430
431 \tex_let:D \KashidaOn \KashidaHMFixOn
432 \tex_let:D \KashidaOff \KashidaHMFixOff
433
434 \bool_if:NTF \l_xephm_kashida_hm_fix_bool
435 {
436   \tl_if_empty:NT \l_xephm_skip_default_tl { \tl_set:Nn \l_xephm_skip_default_tl { 0.14 em plus 0
437 }
438 {
439   \tl_set:NV \l_xephm_skip_default_tl \c_xephm_skip_a_tl
440 }
441
442 \ExplSyntaxOff
443
444 \makeatletter
445 \newif\if@Kashida@on
446 \newif\if@Kashida@XB@fix
447 \makeatother
448
449 \endinput
450 \</kashida-xepersian-hm-def>

```

Acknowledgements

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