

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} {2020-05-12} {0.5e} { 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_active_ligs_tl
53
54 \tl_new:N \l_xephm_gap_filler_tl
55
56 \dim_new:N \l_xephm_diff_pos_dim
57
58 \bool_set_false:N \l_xephm_kashida_hm_fix_bool
59 \bool_set_false:N \l_xephm_ligature_bool
60 \bool_set_false:N \l_xephm_linebreakpenalty_bool
61
62 \int_set:Nn \l_xephm_min_penalty_int { 0 }
63 \int_set:Nn \l_xephm_low_penalty_int { 8 }
64 \int_set:Nn \l_xephm_med_penalty_int { 15 }
65 \int_set:Nn \l_xephm_high_penalty_int { 25 }
66 \int_set:Nn \l_xephm_max_penalty_int { 10000 }
67
68 \tl_set:Nn \l_xephm_stretch_glyph_tl { glyph }
69 \tl_set:Nn \l_xephm_stretch_hrule_tl { hrule }
70
71 \tl_set:Nn \l_xephm_fnt_kayhan_tl { kayhan }
72 \tl_set:Nn \l_xephm_fnt_kayhannavaar_tl { kayhannavaar }
73 \tl_set:Nn \l_xephm_fnt_kayhanpook_tl { kayhanpook }
74 \tl_set:Nn \l_xephm_fnt_kayhansayeh_tl { kayhansayeh }
75 \tl_set:Nn \l_xephm_fnt_khorramshahr_tl { khorramshahr }
76 \tl_set:Nn \l_xephm_fnt_khorramshahr_tl { khorramshahr }
77 \tl_set:Nn \l_xephm_fnt_niloofar_tl { niloofar }

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78 \tl_set:Nn \l_xephm_fnt_paatch_tl      { paatch }
79 \tl_set:Nn \l_xephm_fnt_riyaz_tl       { riyaz }
80 \tl_set:Nn \l_xephm_fnt_roya_tl        { roya }
81 \tl_set:Nn \l_xephm_fnt_shafigh_tl     { shafigh }
82 \tl_set:Nn \l_xephm_fnt_shafighKurd_tl { shafighKurd }
83 \tl_set:Nn \l_xephm_fnt_shafighUzbek_tl { shafighUzbek }
84 \tl_set:Nn \l_xephm_fnt_shiraz_tl      { shiraz }
85 \tl_set:Nn \l_xephm_fnt_sols_tl        { sols }
86 \tl_set:Nn \l_xephm_fnt_tabriz_tl       { tabriz }
87 \tl_set:Nn \l_xephm_fnt_titr_tl        { titr }
88 \tl_set:Nn \l_xephm_fnt_titre_tl       { titre }
89 \tl_set:Nn \l_xephm_fnt_traffic_tl      { traffic }
90 \tl_set:Nn \l_xephm_fnt_vahid_tl        { vahid }
91 \tl_set:Nn \l_xephm_fnt_vosta_tl        { vosta }
92 \tl_set:Nn \l_xephm_fnt_yaghut_tl       { yaghut }
93 \tl_set:Nn \l_xephm_fnt_yagut_tl        { yagut }
94 \tl_set:Nn \l_xephm_fnt_yas_tl         { yas }
95 \tl_set:Nn \l_xephm_fnt_yekan_tl        { yekan }
96 \tl_set:Nn \l_xephm_fnt_yermook_tl      { yermook }
97 \tl_set:Nn \l_xephm_fnt_zar_tl         { zar }
98 \tl_set:Nn \l_xephm_fnt_ziba_tl        { ziba }
99 \tl_set:Nn \l_xephm_fnt_default_tl      { default }
100 \tl_set:Nn \l_xephm_fnt_noskip_tl      { noskip }

101
102 \tl_set:Nn \l_xephm_lig_aalt_tl      { aalt } % Access All Alternatives
103 \tl_set:Nn \l_xephm_lig_ccmp_tl      { ccmp } % Glyph Composition/Decomposition
104 \tl_set:Nn \l_xephm_lig_dlig_tl       { dlig } % Discretionary Ligatures
105 \tl_set:Nn \l_xephm_lig_fina_tl       { fina } % Final (Terminal) Forms
106 \tl_set:Nn \l_xephm_lig_init_tl       { init } % Initial Forms
107 \tl_set:Nn \l_xephm_lig_locl_tl       { locl } % Localized Forms
108 \tl_set:Nn \l_xephm_lig_medi_tl       { medi } % Medial Forms
109 \tl_set:Nn \l_xephm_lig_rlig_tl       { rlig } % Required Ligatures
110 \tl_set:Nn \l_xephm_lig_default_tl     { default }

111
112 \clist_set:Nn \l_xephm_lig_aalt_clist { { } } % Access All Alternatives
113 \clist_set:Nn \l_xephm_lig_ccmp_clist { { } } % Glyph Composition/Decomposition
114 \clist_set:Nn \l_xephm_lig_dlig_clist { FDF2 = , FDF3 = , FDFB = } % Discretionary Ligatures
115 \clist_set:Nn \l_xephm_lig_fina_clist { { } } % Final (Terminal) Forms
116 \clist_set:Nn \l_xephm_lig_init_clist { { } } % Initial Forms
117 \clist_set:Nn \l_xephm_lig_locl_clist { { } } % Localized Forms
118 \clist_set:Nn \l_xephm_lig_medi_clist { { } } % Medial Forms
119 \clist_set:Nn \l_xephm_lig_rlig_clist { { } } % Required Ligatures
120 \clist_set:Nn \l_xephm_lig_default_clist { { } }

121
122 \clist_set:Nn \l_xephm_lig_names_clist
123 {
124   \l_xephm_lig_aalt_tl , { \l_xephm_lig_aalt_clist } ,
125   \l_xephm_lig_ccmp_tl , { \l_xephm_lig_ccmp_clist } ,
126   \l_xephm_lig_dlig_tl , { \l_xephm_lig_dlig_clist } ,
127   \l_xephm_lig_fina_tl , { \l_xephm_lig_fina_clist } ,

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128   \l_xephm_lig_init_tl , { \l_xephm_lig_init_clist } ,
129   \l_xephm_lig_locl_tl , { \l_xephm_lig_locl_clist } ,
130   \l_xephm_lig_medi_tl , { \l_xephm_lig_medi_clist } ,
131   \l_xephm_lig_rlig_tl , { \l_xephm_lig_rlig_clist } ,
132 }
133
134 \msg_new:nnn { xepersian-hm } { kashida-character-is-not-available-in-the-main-font }
135 {
136   Sorry,~ kashida~ character~ is~ not~ available~ in~ the~ main~ font~!
137 }
138
139 \msg_new:nnn { xepersian-hm } { value-not-available-for-kashida-option }
140 {
141   Sorry,~ value~ `#1'~ is~ not~ available~ for~ `Kashida'~ option~ yet~!
142 }
143
144 \msg_new:nnn { xepersian-hm } { specify-value-for-kashida-option }
145 {
146   Sorry,~ you~ must~ specify~ a~ value~ for~ `Kashida'~ option~ yet~!
147 }
148
149 \keys_define:nn { xepersian-hm }
150 {
151   Kashida .code:n =
152   {
153     \tl_set:Nn \l_tmpa_tl { #1 }
154     \tl_case:NnTF \l_tmpa_tl
155     {
156       \l_xephm_stretch_glyph_tl
157       {
158         \tl_set:Nn \l_xephm_gap_filler_tl { \l_xephm_stretch_glyph_tl }
159         \AtBeginDocument
160         {
161           \tl_set:Nx \l_xephm_main_font_full_tl { \tex_fontname:D \tex_the:D \tex_font:D }
162           \tl_set:Nx \l_xephm_main_font_name_tl { \l_xephm_main_font_full_tl }
163           \regex_replace_once:nnN { ^"([^/]+)/*.*" } { \1 } \l_xephm_main_font_name_tl
164           \int_set:Nn \l_xephm_kashida_slot_int { \xetex_charglyph:D \c_xephm_ksh_int }
165           \int_compare:nT { \l_xephm_kashida_slot_int = \c_zero_int }
166           {
167             \msg_error:nn { xepersian-hm } { kashida-character-is-not-available-in-the-ma
168           }
169         }
170       }
171       \l_xephm_stretch_hrule_tl
172       {
173         \tl_set:Nn \l_xephm_gap_filler_tl { \l_xephm_stretch_hrule_tl }
174       }
175     } { } { \tl_set:Nx \l_xephm_gap_filler_tl { #1 } }
176     \tl_if_empty:NT \l_xephm_gap_filler_tl { \msg_error:nn { xepersian-hm } { specify-value-for-
177     \bool_set_true:N \l_xephm_kashida_hm_fix_bool

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178     } ,
179
180     linebreakpenalty .code:n =
181     {
182         \int_set:Nn \l_tmpa_int { #1 }
183         \int_case:nnTF \l_tmpa_int
184         {
185             \l_xephm_min_penalty_int { \int_set:Nn \l_xephm_line_break_penalty_int { \l_xephm_min_p
186             \l_xephm_low_penalty_int { \int_set:Nn \l_xephm_line_break_penalty_int { \l_xephm_low_p
187             \l_xephm_med_penalty_int { \int_set:Nn \l_xephm_line_break_penalty_int { \l_xephm_med_p
188             \l_xephm_high_penalty_int { \int_set:Nn \l_xephm_line_break_penalty_int { \l_xephm_high_p
189             \l_xephm_max_penalty_int { \int_set:Nn \l_xephm_line_break_penalty_int { \l_xephm_max_p
190         } { } { \int_set:Nn \l_xephm_line_break_penalty_int { #1 } }
191         \bool_set_true:N \l_xephm_linebreakpenalty_bool
192     },
193
194     kashidastretch .code:n =
195     {
196         \tl_set:Nn \l_tmpa_tl { #1 }
197         \tl_case:NnTF \l_tmpa_tl
198         {
199             \l_xephm_fnt_kayhan_tl { \tl_set:Nn \l_xephm_skip_default_tl { 0.14 em plus 0.5 em
200             \l_xephm_fnt_kayhannavaar_tl { \tl_set:Nn \l_xephm_skip_default_tl { 0.129 em plus 0.5 em
201             \l_xephm_fnt_kayhanpook_tl { \tl_set:Nn \l_xephm_skip_default_tl { 0.133 em plus 0.5 em
202             \l_xephm_fnt_kayhansayeh_tl { \tl_set:Nn \l_xephm_skip_default_tl { 0.135 em plus 0.5 em
203             \l_xephm_fnt_khoramshahr_tl { \tl_set:Nn \l_xephm_skip_default_tl { 0.128 em plus 0.5 em
204             \l_xephm_fnt_khorramshahr_tl { \tl_set:Nn \l_xephm_skip_default_tl { 0.13 em plus 0.5 em
205             \l_xephm_fnt_niloofar_tl { \tl_set:Nn \l_xephm_skip_default_tl { 0.132 em plus 0.5 em
206             \l_xephm_fnt_paatch_tl { \tl_set:Nn \l_xephm_skip_default_tl { 0.127 em plus 0.5 em
207             \l_xephm_fnt_riyaz_tl { \tl_set:Nn \l_xephm_skip_default_tl { 0.125 em plus 0.5 em
208             \l_xephm_fnt_roya_tl { \tl_set:Nn \l_xephm_skip_default_tl { 0.142 em plus 0.5 em
209             \l_xephm_fnt_shafigh_tl { \tl_set:Nn \l_xephm_skip_default_tl { 0.143 em plus 0.5 em
210             \l_xephm_fnt_shafighKurd_tl { \tl_set:Nn \l_xephm_skip_default_tl { 0.126 em plus 0.5 em
211             \l_xephm_fnt_shafighUzbek_tl { \tl_set:Nn \l_xephm_skip_default_tl { 0.123 em plus 0.5 em
212             \l_xephm_fnt_shiraz_tl { \tl_set:Nn \l_xephm_skip_default_tl { 0.122 em plus 0.5 em
213             \l_xephm_fnt_sols_tl { \tl_set:Nn \l_xephm_skip_default_tl { 0.124 em plus 0.5 em
214             \l_xephm_fnt_tabriz_tl { \tl_set:Nn \l_xephm_skip_default_tl { 0.119 em plus 0.5 em
215             \l_xephm_fnt_titr_tl { \tl_set:Nn \l_xephm_skip_default_tl { 0.12 em plus 0.5 em
216             \l_xephm_fnt_titre_tl { \tl_set:Nn \l_xephm_skip_default_tl { 0.121 em plus 0.5 em
217             \l_xephm_fnt_traffic_tl { \tl_set:Nn \l_xephm_skip_default_tl { 0.124 em plus 0.5 em
218             \l_xephm_fnt_vahid_tl { \tl_set:Nn \l_xephm_skip_default_tl { 0.134 em plus 0.5 em
219             \l_xephm_fnt_vosta_tl { \tl_set:Nn \l_xephm_skip_default_tl { 0.136 em plus 0.5 em
220             \l_xephm_fnt_yaghut_tl { \tl_set:Nn \l_xephm_skip_default_tl { 0.138 em plus 0.5 em
221             \l_xephm_fnt_yagut_tl { \tl_set:Nn \l_xephm_skip_default_tl { 0.137 em plus 0.5 em
222             \l_xephm_fnt_yas_tl { \tl_set:Nn \l_xephm_skip_default_tl { 0.126 em plus 0.5 em
223             \l_xephm_fnt_yekan_tl { \tl_set:Nn \l_xephm_skip_default_tl { 0.141 em plus 0.5 em
224             \l_xephm_fnt_yermook_tl { \tl_set:Nn \l_xephm_skip_default_tl { 0.139 em plus 0.5 em
225             \l_xephm_fnt_zar_tl { \tl_set:Nn \l_xephm_skip_default_tl { 0.116 em plus 0.5 em
226             \l_xephm_fnt_ziba_tl { \tl_set:Nn \l_xephm_skip_default_tl { 0.119 em plus 0.5 em
227             \l_xephm_fnt_default_tl { \tl_set:Nn \l_xephm_skip_default_tl { 0.14 em plus 0.5 em

```

```

228          \l_xephm_fnt_noskip_tl      { \tl_set:Nn \l_xephm_skip_default_tl { 0      em plus 0.5 em
229      } { } { \tl_set:Nn \l_xephm_skip_default_tl { #1 } }
230  } ,
231 kashidastretch .default:n = \tl_set:Nn \l_xephm_skip_default_tl { 0 em plus 0.5 em } ,
232
233 ligatures .code:n =
234 {
235     \tl_set:Nn \l_tmpa_tl { #1 }
236     \tl_case:NnTF \l_tmpa_tl
237     {
238         \l_xephm_lig_aalt_tl    { \tl_set:Nx \l_xephm_active_ligs_tl { \l_xephm_lig_aalt_tl } }
239         \l_xephm_lig_ccmp_tl   { \tl_set:Nx \l_xephm_active_ligs_tl { \l_xephm_lig_ccmp_tl } }
240         \l_xephm_lig_dlig_tl   { \tl_set:Nx \l_xephm_active_ligs_tl { \l_xephm_lig_dlig_tl } }
241         \l_xephm_lig_fina_tl   { \tl_set:Nx \l_xephm_active_ligs_tl { \l_xephm_lig_fina_tl } }
242         \l_xephm_lig_init_tl   { \tl_set:Nx \l_xephm_active_ligs_tl { \l_xephm_lig_init_tl } }
243         \l_xephm_lig_locl_tl   { \tl_set:Nx \l_xephm_active_ligs_tl { \l_xephm_lig_locl_tl } }
244         \l_xephm_lig_medi_tl   { \tl_set:Nx \l_xephm_active_ligs_tl { \l_xephm_lig_medi_tl } }
245         \l_xephm_lig_rlig_tl   { \tl_set:Nx \l_xephm_active_ligs_tl { \l_xephm_lig_rlig_tl } }
246         \l_xephm_lig_default_tl { \tl_set:Nx \l_xephm_active_ligs_tl { \l_xephm_lig_default_tl } }
247     } { } { \tl_set:Nn \l_xephm_active_ligs_tl { #1 } }
248     \bool_set_true:N \l_xephm_ligature_bool
249 },
250 ligatures .default:n = \tl_set:Nn \l_xephm_active_ligs_tl { \l_xephm_lig_default_tl } ,
251
252 }
253
254 \ProcessKeysOptions { xepersian-hm }
255
256 \bool_if:NT \l_xephm_kashida_hm_fix_bool
257 {
258     \tex_input:D { kashida-xepersian-hm.def }
259 }
260
261 \ExplSyntaxOff
262 \endinput
263 (/xepersian-hm-sty)

```

1.2 File: kashida-xepersian-hm.def

```

264 (*kashida-xepersian-hm-def)
265 \ExplSyntaxOn
266 \ProvidesExplFile {kashida-xepersian-hm.def} {2020-05-12} {0.5e} { Fixes~implementation~of~Kashida~in~XeTeX}
267
268 \newXeTeXintercharclass \c_xephm_d_charclass % dual-joiner class
269 \newXeTeXintercharclass \c_xephm_l_charclass % lam
270 \newXeTeXintercharclass \c_xephm_r_charclass % right-joiner
271 \newXeTeXintercharclass \c_xephm_a_charclass % alef
272 \newXeTeXintercharclass \c_xephm_y_charclass % yeh
273
274 \bool_if:NT \l_xephm_ligature_bool

```



```

325  {
326      \IfNoValueF {#1}
327          { \int_set:Nn \l_xephm_line_break_penalty_int {#1} }
328      \IfNoValueF {#2}
329          { \tl_set:Nn \l_xephm_skip_default_tl {#2} }
330      \xephm_put_line_breaks:n { #3 }
331  }
332
333 \cs_new_protected:Nn \xephm_put_line_breaks:n
334  {
335      \tl_set:Nn \l_xephm_line_break_tl { #1 }
336      \regex_replace_all:nnN { +([ ]+) } { \c{xephm_line_break:}\1 } \l_xephm_line_break_tl
337  }
338
339 }
340
341 %% Partly adapted from the code provided by David Carlisle in:
342 %% https://tex.stackexchange.com/questions/356709/how-to-know-the-width-and-fill-the-glue-space-between
343 \cs_new:Npn \xephm_kashida_glyph #1
344 {
345     \bool_if:NT \l_xephm_kashida_hm_fix_bool
346     {
347         \c_xephm_lrm_int\tex_penalty:D 10000
348         \mode_leave_vertical:
349         \tex_global:D \tex_advance:D \l_xephm_counter_int \c_one_int
350
351         \tl_set:Nx \l_xephm_pos_tl { pos_\tex_roman numeral:D \l_xephm_counter_int }
352         \tl_set:Nx \l_xephm_zref_tl { zref_\tex_roman numeral:D \l_xephm_counter_int }
353
354         \zsaveposx{x_i_\l_xephm_zref_tl}
355         \tl_set:Nx \l_tmpa_tl
356         {
357             \iow_now:cx { @auxout }
358             {
359                 \ExplSyntaxOn
360                 \tl_gset:Nn \exp_after:wN \token_to_str:N \cs:w get_x_i\l_xephm_pos_tl \cs_end: { \zposx{ :
361                 \ExplSyntaxOff
362             }
363         }
364         \l_tmpa_tl
365         \skip_horizontal:n { #1 }
366         \zsaveposx{x_f_\l_xephm_zref_tl}
367         \tl_set:Nx \l_tmpa_tl
368         {
369             \iow_now:cx { @auxout }
370             {
371                 \ExplSyntaxOn
372                 \tl_gset:Nn \exp_after:wN \token_to_str:N \cs:w get_x_f\l_xephm_pos_tl \cs_end: { \zposx{ :
373                 \ExplSyntaxOff
374             }

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```

375      }
376      \l_tmpa_tl
377      \exp_after:wN
378      \if_meaning:w
379        \cs:w get_x_i\l_xephm_pos_tl \cs_end: \tex_relax:D
380      \else:
381        \dim_set:Nn \l_xephm_diff_pos_dim
382        {
383          \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_e
384        }
385        \dim_compare:nTF { \l_xephm_diff_pos_dim == 0sp }
386        {
387          \llap { \resizebox { \l_xephm_diff_pos_dim \tex_relax:D } { \height } { \c_xephm_ksh_int } }
388        \fi:
389      }
390    }
391
392 %% Partly adapted from the code provided by Jonathan Kew in:
393 %% https://tug.org/pipermail/xetex/2009-February/012307.html.
394 %% Somebody notified me that the code in 'kashida-xepersian.def' from xepersian
395 %% package is an exact copy of Jonathan Kew's code. Being unaware of this, in
396 %% the earlier versions of this package I made a mistake and acknowledged
397 %% Vafa Khalighi instead of Jonathan Kew. A sincere thank you to Jonathan Kew
398 %% for his excellent code.
399 \cs_new:Npn \xephm_kashida_hrule #1
400   {
401     \bool_if:NT \l_xephm_kashida_hm_fix_bool
402     {
403       \c_xephm_lrm_int\c_xephm_zwj_int\tex_penalty:D 10000
404       \tex_leaders:D \tex_hrule:D height \XeTeXglyphbounds \c_xephm_two_int
405       \int_use:N \XeTeXcharglyph \c_xephm_ksh_int depth \XeTeXglyphbounds \c_xephm_four_int
406       \int_use:N \XeTeXcharglyph \c_xephm_ksh_int \skip_horizontal:n { #1 }
407       \c_xephm_zwj_int
408     }
409   }
410
411 \XeTeXinterchartokenstate = 1
412
413 \clist_set:Nn \l_xephm_a_clist { 0622,0623,0625,0627 } %
414 \clist_map_inline:Nn \l_xephm_a_clist
415   {
416     \XeTeXcharclass "#1 \c_xephm_a_charclass
417   }
418
419 \clist_set:Nn \l_xephm_d_clist { 0626,0628,062A,062B,062C,062D,062E,0633,0634,0635,0636,0637,0638,06
420 \clist_map_inline:Nn \l_xephm_d_clist
421   {
422     \XeTeXcharclass "#1 \c_xephm_d_charclass
423   }
424

```

```

425 \clist_set:Nn \l_xephm_l_clist { 0644 } %
426 \clist_map_inline:Nn \l_xephm_l_clist
427 {
428     \XeTeXcharclass "#1 \c_xephm_l_charclass
429 }
430
431 \clist_set:Nn \l_xephm_r_clist { 0624,0629,062F,0630,0631,0632,0648,0698 } % , , , , ,
432 \clist_map_inline:Nn \l_xephm_r_clist
433 {
434     \XeTeXcharclass "#1 \c_xephm_r_charclass
435 }
436
437 \clist_set:Nn \l_xephm_y_clist { 0649,064A,06CC } % , ,
438 \clist_map_inline:Nn \l_xephm_y_clist
439 {
440     \XeTeXcharclass "#1 \c_xephm_y_charclass
441 }
442
443 \str_case:VnTF \l_xephm_gap_filler_tl
444 {
445     \l_xephm_stretch_glyph_tl
446     {
447         \XeTeXinterchartoks \c_xephm_y_charclass \c_xephm_y_charclass =
448         {
449             \bool_if:NTF \l_xephm_kashida_hm_fix_bool
450             { \c_xephm_zwj_int \xephm_kashida_glyph \l_xephm_skip_default_tl \c_xephm_zwj_int }
451             { \c_xephm_zwj_int \xephm_kashida_glyph \c_xephm_skip_a_tl \c_xephm_zwj_int }
452         }
453         \XeTeXinterchartoks \c_xephm_d_charclass \c_xephm_y_charclass =
454         {
455             \bool_if:NTF \l_xephm_kashida_hm_fix_bool
456             { \c_xephm_zwj_int \xephm_kashida_glyph \l_xephm_skip_default_tl \c_xephm_zwj_int }
457             { \c_xephm_zwj_int \xephm_kashida_glyph \c_xephm_skip_a_tl \c_xephm_zwj_int }
458         }
459         \XeTeXinterchartoks \c_xephm_y_charclass \c_xephm_d_charclass =
460         { \c_xephm_zwj_int \xephm_kashida_glyph \c_xephm_skip_a_tl \c_xephm_zwj_int }
461         \XeTeXinterchartoks \c_xephm_d_charclass \c_xephm_d_charclass =
462         { \c_xephm_zwj_int \xephm_kashida_glyph \c_xephm_skip_a_tl \c_xephm_zwj_int }
463         \XeTeXinterchartoks \c_xephm_l_charclass \c_xephm_d_charclass =
464         { \c_xephm_zwj_int \xephm_kashida_glyph \c_xephm_skip_a_tl \c_xephm_zwj_int }
465         \XeTeXinterchartoks \c_xephm_d_charclass \c_xephm_l_charclass =
466         { \c_xephm_zwj_int \xephm_kashida_glyph \c_xephm_skip_a_tl \c_xephm_zwj_int }
467         \XeTeXinterchartoks \c_xephm_l_charclass \c_xephm_l_charclass =
468         { \c_xephm_zwj_int \xephm_kashida_glyph \c_xephm_skip_a_tl \c_xephm_zwj_int }
469         \XeTeXinterchartoks \c_xephm_d_charclass \c_xephm_r_charclass =
470         { \c_xephm_zwj_int \xephm_kashida_glyph \c_xephm_skip_a_tl \c_xephm_zwj_int }
471         \XeTeXinterchartoks \c_xephm_d_charclass \c_xephm_a_charclass =
472         { \c_xephm_zwj_int \xephm_kashida_glyph \c_xephm_skip_a_tl \c_xephm_zwj_int }
473         \XeTeXinterchartoks \c_xephm_l_charclass \c_xephm_r_charclass =
474         { \c_xephm_zwj_int \xephm_kashida_glyph \c_xephm_skip_a_tl \c_xephm_zwj_int }

```

```

475     \XeTeXinterchartoks \c_xephm_l_charclass \c_xephm_a_charclass =
476     { }
477   }
478 \l_xephm_stretch_hrule_tl
479 {
480     \XeTeXinterchartoks \c_xephm_y_charclass \c_xephm_y_charclass =
481     {
482       \bool_if:NTF \l_xephm_kashida_hm_fix_bool
483       { \xephm_kashida_hrule \l_xephm_skip_default_tl }
484       { \xephm_kashida_hrule \c_xephm_skip_a_t1 }
485     }
486     \XeTeXinterchartoks \c_xephm_d_charclass \c_xephm_y_charclass =
487     {
488       \bool_if:NTF \l_xephm_kashida_hm_fix_bool
489       { \xephm_kashida_hrule \l_xephm_skip_default_tl }
490       { \xephm_kashida_hrule \c_xephm_skip_a_t1 }
491     }
492     \XeTeXinterchartoks \c_xephm_y_charclass \c_xephm_d_charclass =
493     { \xephm_kashida_hrule \c_xephm_skip_a_t1 }
494     \XeTeXinterchartoks \c_xephm_d_charclass \c_xephm_d_charclass =
495     { \xephm_kashida_hrule \c_xephm_skip_a_t1 }
496     \XeTeXinterchartoks \c_xephm_l_charclass \c_xephm_d_charclass =
497     { \xephm_kashida_hrule \c_xephm_skip_a_t1 }
498     \XeTeXinterchartoks \c_xephm_d_charclass \c_xephm_l_charclass =
499     { \xephm_kashida_hrule \c_xephm_skip_a_t1 }
500     \XeTeXinterchartoks \c_xephm_l_charclass \c_xephm_l_charclass =
501     { \xephm_kashida_hrule \c_xephm_skip_a_t1 }
502     \XeTeXinterchartoks \c_xephm_d_charclass \c_xephm_r_charclass =
503     { \xephm_kashida_hrule \c_xephm_skip_a_t1 }
504     \XeTeXinterchartoks \c_xephm_d_charclass \c_xephm_a_charclass =
505     { \xephm_kashida_hrule \c_xephm_skip_a_t1 }
506     \XeTeXinterchartoks \c_xephm_l_charclass \c_xephm_r_charclass =
507     { \xephm_kashida_hrule \c_xephm_skip_a_t1 }
508     \XeTeXinterchartoks \c_xephm_l_charclass \c_xephm_a_charclass =
509     { }
510   }
511 } { } { \msg_error:n { xepersian-hm } { value-not-available-for-kashida-option } { \l_xephm_gap_i
512
513 \NewDocumentCommand \KashidaHMFixOn {} { \bool_set_true:N \l_xephm_kashida_hm_fix_bool }
514 \NewDocumentCommand \KashidaHMFixOff {} { \bool_set_false:N \l_xephm_kashida_hm_fix_bool }
515
516 \tex_let:D \KashidaOn \KashidaHMFixOn
517 \tex_let:D \KashidaOff \KashidaHMFixOff
518
519 \bool_if:NTF \l_xephm_kashida_hm_fix_bool
520   {
521     \tl_if_empty:NT \l_xephm_skip_default_tl { \tl_set:Nn \l_xephm_skip_default_tl { 0.14 em plus 0
522   }
523   {
524     \tl_set:NV \l_xephm_skip_default_tl \c_xephm_skip_a_t1

```

```
525  }
526
527 \ExplSyntaxOff
528
529 \makeatletter
530 \newif\if@Kashida@on
531 \newif\if@Kashida@XB@fix
532 \makeatother
533
534 \endinput
535 
```

Acknowledgements

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