

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

Hossein Movahhedian*

Released 2020-05-31 v1.0a

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} {2020-05-31} {1.0a} { Fixes~issues~in~xepersian~package }
22
23 \box_new:N \l_xephm_ksh_box
24
25 \int_const:Nn \c_xephm_ksh_int {"0640} % kashida
26 \int_const:Nn \c_xephm_lrm_int {"200E} % left-right-mark
27 \int_const:Nn \c_xephm_zwj_int {"200D} % zero-width joiner
```

*E-mail: dma8hm1334@gmail.com

```

28
29 \int_const:Nn \c_xephm_two_int {2} % 2
30 \int_const:Nn \c_xephm_four_int {4} % 4
31
32 \tl_const:Nn \c_xephm_skip_a_tl { 0 em plus 0.5 em }
33 \tl_const:Nn \c_xephm_skip_b_tl { 0.14 em plus 5.5 em }
34
35 \int_new:N \l_xephm_counter_int
36
37 \int_new:N \l_xephm_kashida_slot_int
38
39 \int_new:N \l_xephm_line_break_penalty_int
40
41 \int_new:N \l_xephm_min_penalty_int
42 \int_new:N \l_xephm_low_penalty_int
43 \int_new:N \l_xephm_med_penalty_int
44 \int_new:N \l_xephm_high_penalty_int
45 \int_new:N \l_xephm_max_penalty_int
46
47 \tl_new:N \l_xephm_line_break_tl
48
49 \tl_new:N \l_xephm_main_font_full_tl
50 \tl_new:N \l_xephm_main_font_name_tl
51
52 \tl_new:N \l_xephm_font_full_tl
53 \tl_new:N \l_xephm_font_name_tl
54
55 \tl_new:N \l_xephm_skip_default_tl
56
57 \tl_new:N \l_xephm_active_ligs_tl
58
59 \tl_new:N \l_xephm_gap_filler_tl
60
61 \dim_new:N \l_xephm_diff_pos_dim
62
63 \bool_set_false:N \l_xephm_kashida_hm_fix_bool
64 \bool_set_false:N \l_xephm_ligature_bool
65 \bool_set_false:N \l_xephm_linebreakpenalty_bool
66
67 \int_set:Nn \l_xephm_min_penalty_int { 0 }
68 \int_set:Nn \l_xephm_low_penalty_int { 8 }
69 \int_set:Nn \l_xephm_med_penalty_int { 15 }
70 \int_set:Nn \l_xephm_high_penalty_int { 25 }
71 \int_set:Nn \l_xephm_max_penalty_int { 10000 }
72
73 \tl_set:Nn \l_xephm_stretch_glyph_tl { glyph }
74 \tl_set:Nn \l_xephm_stretch_leaders_glyph_tl { leaders+glyph }
75 \tl_set:Nn \l_xephm_stretch_leaders_hrulerule_tl { leaders+hrulerule }
76
77 \tl_set:Nn \l_xephm_fnt_kayhan_tl { kayhan }

```

```

78 \tl_set:Nn \l_xephm_fnt_kayhannavaar_tl { kayhannavaar }
79 \tl_set:Nn \l_xephm_fnt_kayhanpook_tl { kayhanpook }
80 \tl_set:Nn \l_xephm_fnt_kayhansayeh_tl { kayhansayeh }
81 \tl_set:Nn \l_xephm_fnt_khoramshahr_tl { khoramshahr }
82 \tl_set:Nn \l_xephm_fnt_khorramshahr_tl { khorramshahr }
83 \tl_set:Nn \l_xephm_fnt_niloofar_tl { niloofar }
84 \tl_set:Nn \l_xephm_fnt_paatch_tl { paatch }
85 \tl_set:Nn \l_xephm_fnt_riyaz_tl { riyaz }
86 \tl_set:Nn \l_xephm_fnt_roya_tl { roya }
87 \tl_set:Nn \l_xephm_fnt_shafigh_tl { shafigh }
88 \tl_set:Nn \l_xephm_fnt_shafighKurd_tl { shafighKurd }
89 \tl_set:Nn \l_xephm_fnt_shafighUzbek_tl { shafighUzbek }
90 \tl_set:Nn \l_xephm_fnt_shiraz_tl { shiraz }
91 \tl_set:Nn \l_xephm_fnt_sols_tl { sols }
92 \tl_set:Nn \l_xephm_fnt_tabriz_tl { tabriz }
93 \tl_set:Nn \l_xephm_fnt_titr_tl { titr }
94 \tl_set:Nn \l_xephm_fnt_titre_tl { titre }
95 \tl_set:Nn \l_xephm_fnt_traffic_tl { traffic }
96 \tl_set:Nn \l_xephm_fnt_vahid_tl { vahid }
97 \tl_set:Nn \l_xephm_fnt_vosta_tl { vosta }
98 \tl_set:Nn \l_xephm_fnt_yaghut_tl { yaghut }
99 \tl_set:Nn \l_xephm_fnt_yagut_tl { yagut }
100 \tl_set:Nn \l_xephm_fnt_yas_tl { yas }
101 \tl_set:Nn \l_xephm_fnt_yekan_tl { yekan }
102 \tl_set:Nn \l_xephm_fnt_yermook_tl { yermook }
103 \tl_set:Nn \l_xephm_fnt_zar_tl { zar }
104 \tl_set:Nn \l_xephm_fnt_ziba_tl { ziba }
105 \tl_set:Nn \l_xephm_fnt_default_tl { default }
106 \tl_set:Nn \l_xephm_fnt_noskip_tl { noskip }
107
108 \tl_set:Nn \l_xephm_lig_aalt_tl { aalt } % Access All Alternatives
109 \tl_set:Nn \l_xephm_lig_ccmp_tl { ccmp } % Glyph Composition/Decomposition
110 \tl_set:Nn \l_xephm_lig_dlig_tl { dlig } % Discretionary Ligatures
111 \tl_set:Nn \l_xephm_lig_fina_tl { fina } % Final (Terminal) Forms
112 \tl_set:Nn \l_xephm_lig_init_tl { init } % Initial Forms
113 \tl_set:Nn \l_xephm_lig_locl_tl { locl } % Localized Forms
114 \tl_set:Nn \l_xephm_lig_medi_tl { medi } % Medial Forms
115 \tl_set:Nn \l_xephm_lig_rlig_tl { rlig } % Required Ligatures
116 \tl_set:Nn \l_xephm_lig_default_tl { default }
117
118 \clist_set:Nn \l_xephm_lig_aalt_clist { { } } % Access All Alternatives
119 \clist_set:Nn \l_xephm_lig_ccmp_clist { { } } % Glyph Composition/Decomposition
120 \clist_set:Nn \l_xephm_lig_dlig_clist { FDF2 = , FDF3 = , FDFB = { } % Discretionary Ligatures
121 \clist_set:Nn \l_xephm_lig_fina_clist { { } } % Final (Terminal) Forms
122 \clist_set:Nn \l_xephm_lig_init_clist { { } } % Initial Forms
123 \clist_set:Nn \l_xephm_lig_locl_clist { { } } % Localized Forms
124 \clist_set:Nn \l_xephm_lig_medi_clist { { } } % Medial Forms
125 \clist_set:Nn \l_xephm_lig_rlig_clist { { } } % Required Ligatures
126 \clist_set:Nn \l_xephm_lig_default_clist { { } }
127

```

```

128 \clist_set:Nn \l_xephm_lig_names_clist
129 {
130   \l_xephm_lig_aalt_tl , { \l_xephm_lig_aalt_clist } ,
131   \l_xephm_lig_ccmp_tl , { \l_xephm_lig_ccmp_clist } ,
132   \l_xephm_lig_dlig_tl , { \l_xephm_lig_dlig_clist } ,
133   \l_xephm_lig_fina_tl , { \l_xephm_lig_fina_clist } ,
134   \l_xephm_lig_init_tl , { \l_xephm_lig_init_clist } ,
135   \l_xephm_lig_locl_tl , { \l_xephm_lig_locl_clist } ,
136   \l_xephm_lig_medi_tl , { \l_xephm_lig_medi_clist } ,
137   \l_xephm_lig_rlig_tl , { \l_xephm_lig_rlig_clist } ,
138 }
139
140 \msg_new:nnn { xepersian-hm } { error-kashida-character-is-not-available-in-the-main-font }
141 {
142   Sorry,~ kashida~ character~ is~ not~ available~ in~ the~ main~ font~#1!
143 }
144
145 \msg_new:nnn { xepersian-hm } { error-value-not-available-for-kashida-option }
146 {
147   Sorry,~ value~ `#1'~ is~ not~ available~ for~ `Kashida'~ option~ yet~!
148 }
149
150 \msg_new:nnn { xepersian-hm } { error-specify-value-for-kashida-option }
151 {
152   Sorry,~ you~ must~ specify~ a~ value~ for~ `Kashida'~ option~ yet~!
153 }
154
155 \msg_new:nnn { xepersian-hm } { warning-experimental-feature }
156 {
157   Please~ note~ that~ the~ feature~ `#1'~ is~ still~ experimental~
158   and~ is~ not~ regarded~ as~ stable.
159 }
160
161 \msg_new:nnn { xepersian-hm } { hm-series-font-not-found }
162 {
163   Either~ the~ font~`#1'~ is~ not~ installed~ on~ your~ system~ or~ does~ not~
164   belong~ to~ HM-Series-fonts.~
165   Please~ note~ that~ the~ option~ `Kashida=leaders+glyph'~ is~ currently~ only~
166   supported~ by~ HM-Series-fonts.~
167   If~ you~ know~ of~ any~ other~ font~ that~ supports~ this~ option,~ please~
168   let~ me~ know~ to~ add~ it~ to~ the~ list~ of~ corresponding~ fonts.~
169 }
170
171 \keys_define:nn { xepersian-hm }
172 {
173   Kashida .code:n =
174   {
175     \tl_set:Nn \l_tmpa_tl { #1 }
176     \tl_case:NnTF \l_tmpa_tl
177     {

```

```

178     \l_xephm_stretch_glyph_tl
179     {
180         \msg_warning:nnn { xepersian-hm } { warning-experimental-feature } { Kashida=glyph }
181         \tl_set:Nx \l_xephm_gap_filler_tl { \l_xephm_stretch_glyph_tl }
182         \AtBeginDocument
183         {
184             \tl_set:Nx \l_xephm_main_font_full_tl { \tex_fontname:D \tex_the:D \tex_font:D }
185             \tl_set:Nx \l_xephm_main_font_name_tl { \l_xephm_main_font_full_tl }
186             \regex_replace_once:nnN { ^"([~/]+)/.* } { \1 } \l_xephm_main_font_name_tl
187             \int_set:Nn \l_xephm_kashida_slot_int { \xetex_charglyph:D \c_xephm_ksh_int }
188             \int_compare:nT { \l_xephm_kashida_slot_int = \c_zero_int }
189             {
190                 \msg_error:nnx { xepersian-hm } { error-kashida-character-is-not-available-in }
191             }
192         }
193     }
194     \l_xephm_stretch_leaders_glyph_tl
195     {
196         \tl_set:Nx \l_xephm_gap_filler_tl { \l_xephm_stretch_leaders_glyph_tl }
197     }
198     \l_xephm_stretch_leaders_hruler_tl
199     {
200         \tl_set:Nx \l_xephm_gap_filler_tl { \l_xephm_stretch_leaders_hruler_tl }
201     }
202     } { } { \tl_set:Nx \l_xephm_gap_filler_tl { #1 } }
203     \tl_if_empty:NT \l_xephm_gap_filler_tl { \msg_error:nn { xepersian-hm } { error-specify-value } }
204     \bool_set_true:N \l_xephm_kashida_hm_fix_bool
205 } ,
206
207 linebreakpenalty .code:n =
208 {
209     \int_set:Nn \l_tmpa_int { #1 }
210     \int_case:nnTF \l_tmpa_int
211     {
212         \l_xephm_min_penalty_int { \int_set:Nn \l_xephm_line_break_penalty_int { \l_xephm_min_penalty_int } }
213         \l_xephm_low_penalty_int { \int_set:Nn \l_xephm_line_break_penalty_int { \l_xephm_low_penalty_int } }
214         \l_xephm_med_penalty_int { \int_set:Nn \l_xephm_line_break_penalty_int { \l_xephm_med_penalty_int } }
215         \l_xephm_high_penalty_int { \int_set:Nn \l_xephm_line_break_penalty_int { \l_xephm_high_penalty_int } }
216         \l_xephm_max_penalty_int { \int_set:Nn \l_xephm_line_break_penalty_int { \l_xephm_max_penalty_int } }
217     } { } { \int_set:Nn \l_xephm_line_break_penalty_int { #1 } }
218     \bool_set_true:N \l_xephm_linebreakpenalty_bool
219 } ,
220
221 kashidastretch .code:n =
222 {
223     \tl_set:Nn \l_tmpa_tl { #1 }
224     \tl_case:NnTF \l_tmpa_tl
225     {
226         \l_xephm_fnt_kayhan_tl { \tl_set:Nn \l_xephm_skip_default_tl { 0.14 em plus 0.5 em } }
227         \l_xephm_fnt_kayhannavaar_tl { \tl_set:Nn \l_xephm_skip_default_tl { 0.129 em plus 0.5 em } }

```

```

228 \l_xephm_fnt_kayhanpook_tl { \tl_set:Nn \l_xephm_skip_default_tl { 0.133 em plus 0.5 em } }
229 \l_xephm_fnt_kayhansayeh_tl { \tl_set:Nn \l_xephm_skip_default_tl { 0.135 em plus 0.5 em } }
230 \l_xephm_fnt_khoramshahr_tl { \tl_set:Nn \l_xephm_skip_default_tl { 0.128 em plus 0.5 em } }
231 \l_xephm_fnt_khorramshahr_tl { \tl_set:Nn \l_xephm_skip_default_tl { 0.13 em plus 0.5 em } }
232 \l_xephm_fnt_niloofar_tl { \tl_set:Nn \l_xephm_skip_default_tl { 0.132 em plus 0.5 em } }
233 \l_xephm_fnt_paatch_tl { \tl_set:Nn \l_xephm_skip_default_tl { 0.127 em plus 0.5 em } }
234 \l_xephm_fnt_riyaz_tl { \tl_set:Nn \l_xephm_skip_default_tl { 0.125 em plus 0.5 em } }
235 \l_xephm_fnt_roya_tl { \tl_set:Nn \l_xephm_skip_default_tl { 0.142 em plus 0.5 em } }
236 \l_xephm_fnt_shafigh_tl { \tl_set:Nn \l_xephm_skip_default_tl { 0.143 em plus 0.5 em } }
237 \l_xephm_fnt_shafighKurd_tl { \tl_set:Nn \l_xephm_skip_default_tl { 0.126 em plus 0.5 em } }
238 \l_xephm_fnt_shafighUzbek_tl { \tl_set:Nn \l_xephm_skip_default_tl { 0.123 em plus 0.5 em } }
239 \l_xephm_fnt_shiraz_tl { \tl_set:Nn \l_xephm_skip_default_tl { 0.122 em plus 0.5 em } }
240 \l_xephm_fnt_sols_tl { \tl_set:Nn \l_xephm_skip_default_tl { 0.124 em plus 0.5 em } }
241 \l_xephm_fnt_tabriz_tl { \tl_set:Nn \l_xephm_skip_default_tl { 0.119 em plus 0.5 em } }
242 \l_xephm_fnt_titr_tl { \tl_set:Nn \l_xephm_skip_default_tl { 0.12 em plus 0.5 em } }
243 \l_xephm_fnt_titre_tl { \tl_set:Nn \l_xephm_skip_default_tl { 0.121 em plus 0.5 em } }
244 \l_xephm_fnt_traffic_tl { \tl_set:Nn \l_xephm_skip_default_tl { 0.124 em plus 0.5 em } }
245 \l_xephm_fnt_vahid_tl { \tl_set:Nn \l_xephm_skip_default_tl { 0.134 em plus 0.5 em } }
246 \l_xephm_fnt_vosta_tl { \tl_set:Nn \l_xephm_skip_default_tl { 0.136 em plus 0.5 em } }
247 \l_xephm_fnt_yaghut_tl { \tl_set:Nn \l_xephm_skip_default_tl { 0.138 em plus 0.5 em } }
248 \l_xephm_fnt_yagut_tl { \tl_set:Nn \l_xephm_skip_default_tl { 0.137 em plus 0.5 em } }
249 \l_xephm_fnt_yas_tl { \tl_set:Nn \l_xephm_skip_default_tl { 0.126 em plus 0.5 em } }
250 \l_xephm_fnt_yekan_tl { \tl_set:Nn \l_xephm_skip_default_tl { 0.141 em plus 0.5 em } }
251 \l_xephm_fnt_yermook_tl { \tl_set:Nn \l_xephm_skip_default_tl { 0.139 em plus 0.5 em } }
252 \l_xephm_fnt_zar_tl { \tl_set:Nn \l_xephm_skip_default_tl { 0.116 em plus 0.5 em } }
253 \l_xephm_fnt_ziba_tl { \tl_set:Nn \l_xephm_skip_default_tl { 0.119 em plus 0.5 em } }
254 \l_xephm_fnt_default_tl { \tl_set:Nn \l_xephm_skip_default_tl { 0.14 em plus 0.5 em } }
255 \l_xephm_fnt_noskip_tl { \tl_set:Nn \l_xephm_skip_default_tl { 0 em plus 0.5 em } }
256 } { } { \tl_set:Nn \l_xephm_skip_default_tl { #1 } }
257 } ,
258 kashidastretch .default:n = \tl_set:Nn \l_xephm_skip_default_tl { 0 em plus 0.5 em } ,
259
260 ligatures .code:n =
261 {
262 \tl_set:Nn \l_tmpa_tl { #1 }
263 \tl_case:NnTF \l_tmpa_tl
264 {
265 \l_xephm_lig_aalt_tl { \tl_set:Nx \l_xephm_active_ligs_tl { \l_xephm_lig_aalt_tl } }
266 \l_xephm_lig_ccmp_tl { \tl_set:Nx \l_xephm_active_ligs_tl { \l_xephm_lig_ccmp_tl } }
267 \l_xephm_lig_dlig_tl { \tl_set:Nx \l_xephm_active_ligs_tl { \l_xephm_lig_dlig_tl } }
268 \l_xephm_lig_fina_tl { \tl_set:Nx \l_xephm_active_ligs_tl { \l_xephm_lig_fina_tl } }
269 \l_xephm_lig_init_tl { \tl_set:Nx \l_xephm_active_ligs_tl { \l_xephm_lig_init_tl } }
270 \l_xephm_lig_loc1_tl { \tl_set:Nx \l_xephm_active_ligs_tl { \l_xephm_lig_loc1_tl } }
271 \l_xephm_lig_medi_tl { \tl_set:Nx \l_xephm_active_ligs_tl { \l_xephm_lig_medi_tl } }
272 \l_xephm_lig_rlig_tl { \tl_set:Nx \l_xephm_active_ligs_tl { \l_xephm_lig_rlig_tl } }
273 \l_xephm_lig_default_tl { \tl_set:Nx \l_xephm_active_ligs_tl { \l_xephm_lig_default_tl } }
274 } { } { \tl_set:Nn \l_xephm_active_ligs_tl { #1 } }
275 \bool_set_true:N \l_xephm_ligature_bool
276 } ,
277 ligatures .default:n = \tl_set:Nn \l_xephm_active_ligs_tl { \l_xephm_lig_default_tl } ,

```

```

278
279 }
280
281 \ProcessKeysOptions { xepersian-hm }
282
283 \bool_if:NT \l_xephm_kashida_hm_fix_bool
284 {
285   \tex_input:D { kashida-xepersian-hm.def }
286 }
287
288 \ExplSyntaxOff
289 \endinput
290 </xepersian-hm-sty>

```

1.2 File: kashida-xepersian-hm.def

```

291 <{*kashida-xepersian-hm-def}>
292 \ExplSyntaxOn
293 \ProvidesExplFile {kashida-xepersian-hm.def} {2020-05-31} {1.0a} { Fixes~implementation~of~Kashida~i
294
295 \newXeTeXintercharclass \c_xephm_d_charclass % dual-joiner class
296 \newXeTeXintercharclass \c_xephm_l_charclass % lam
297 \newXeTeXintercharclass \c_xephm_r_charclass % right-joiner
298 \newXeTeXintercharclass \c_xephm_a_charclass % alef
299 \newXeTeXintercharclass \c_xephm_y_charclass % yeh
300
301 \bool_if:NT \l_xephm_ligature_bool
302 {
303   \clist_new:N \l_xephm_ligatures_clist
304   \int_new:N \l_xephm_lig_names_len_int
305   \int_set:Nn \l_xephm_lig_names_len_int { \clist_count:N \l_xephm_lig_names_clist }
306   \int_step_inline:nnnn { 1 } { 2 } { \l_xephm_lig_names_len_int }
307   {
308     \int_set:Nn \l_tmpa_int { #1 }
309     \int_set:Nn \l_tmpb_int { \int_eval:n { \l_tmpa_int + 1 } }
310     \tl_set:Nf \l_tmpa_tl { \clist_item:Nn \l_xephm_lig_names_clist { \l_tmpa_int } }
311     \clist_set:Nx \l_tmpa_clist { { \clist_item:Nn \l_xephm_lig_names_clist { \l_tmpb_int } } }
312     \bool_if:nT { \tl_if_eq_p:NN \l_xephm_active_ligs_tl \l_tmpa_tl || \tl_if_eq_p:NN \l_xephm_
313     {
314       \clist_put_left:Nx \l_xephm_ligatures_clist { \l_tmpa_clist }
315     }
316   }
317   \clist_map_inline:Nn \l_xephm_ligatures_clist
318   {
319     \seq_set_split:Nnn \l_tmpa_seq { = } { #1 }
320     \seq_pop_left:NN \l_tmpa_seq \l_tmpa_tl { } { }
321     \seq_pop_left:NN \l_tmpa_seq \l_tmpb_tl { } { }
322     \tl_const:cx { \tl_use:N \l_tmpb_tl } { \char"\l_tmpa_tl \ }
323   }
324 }

```



```

375 \mode_leave_vertical:
376 \tex_global:D \tex_advance:D \l_xephm_counter_int \c_one_int
377
378 \tl_set:Nx \l_xephm_pos_tl { p\tex_romannumeral:D \l_xephm_counter_int }
379 \tl_set:Nx \l_xephm_zref_tl { z\tex_romannumeral:D \l_xephm_counter_int }
380
381 \zsavexposx{x_i\l_xephm_zref_tl}
382 \tl_set:Nx \l_tmpa_tl
383 {
384   \iow_now:cx { @auxout }
385   {
386     \token_to_str:N \gdef \exp_after:wN \token_to_str:N \cs:w xi\l_xephm_pos_tl \cs_end: { \zp
387   }
388 }
389 \l_tmpa_tl
390 \skip_horizontal:n { #1 }
391 \zsavexposx{x_f\l_xephm_zref_tl}
392 \tl_set:Nx \l_tmpa_tl
393 {
394   \iow_now:cx { @auxout }
395   {
396     \token_to_str:N \gdef \exp_after:wN \token_to_str:N \cs:w xf\l_xephm_pos_tl \cs_end: { \zp
397   }
398 }
399 \l_tmpa_tl
400 \exp_after:wN
401 \if_meaning:w
402   \cs:w xi\l_xephm_pos_tl \cs_end: \tex_relax:D
403 \else:
404   \dim_set:Nn \l_xephm_diff_pos_dim
405   {
406     \dim_eval:n { \cs:w xi\l_xephm_pos_tl \cs_end: sp - \cs:w xf\l_xephm_pos_tl \cs_end: sp }
407   }
408   \dim_compare:nTF { \l_xephm_diff_pos_dim == 0sp }
409   { }
410   { \llap { \resizebox { \l_xephm_diff_pos_dim \tex_relax:D } { \height } { \c_xephm_ksh_int }
411 \fi:
412 }
413 }
414
415 \cs_new:Npn \xephm_kashida_leaders #1
416 {
417   \bool_if:NT \l_xephm_kashida_hm_fix_bool
418   {
419     \tl_if_eq:NNTF \l_xephm_gap_filler_tl \l_xephm_stretch_leaders_glyph_tl
420     {
421       \tl_set:Nx \l_xephm_font_full_tl { \tex_fontname:D \tex_the:D \tex_font:D }
422       \tl_set:Nx \l_xephm_font_name_tl { \l_xephm_font_full_tl }
423       \tl_set:Nx \l_xephm_font_init_tl { \l_xephm_font_name_tl }
424       \regex_replace_once:nnN { ^"[\?](HM)[\_ \ ](X|F).* } { \1\2 } \l_xephm_font_init_tl\relax

```

```

425 \tl_set:Nn \l_tmpa_tl { HMF }
426 \tl_set:Nn \l_tmpb_tl { HMX }
427 \bool_if:nTF { \str_if_eq_p:NN { \l_xephm_font_init_tl } { \l_tmpa_tl } || \str_if_eq_p:NN
428 {
429 \hbox_set:Nn \l_xephm_ksh_box { \XeTeXglyph\XeTeXglyphindex"kashida" }
430 \c_xephm_zwj_int \tex_penalty:D 10000
431 \tex_leaders:D \copy\l_xephm_ksh_box \skip_horizontal:n { #1 }
432 \c_xephm_zwj_int
433 }
434 {
435 \msg_error:nnx { xepersian-hm } { hm-series-font-not-found } { \l_xephm_font_name_tl }
436 }
437 }
438 {
439 %% Partly adapted from the code provided by Jonathan Kew in:
440 %% https://tug.org/pipermail/xetex/2009-February/012307.html.
441 %% Somebody notified me that the code in 'kashida-xepersian.def' from xepersian
442 %% package is an exact copy of Jonathan Kew's code. Being unaware of this, in
443 %% the earlier versions of this package I made a mistake and acknowledged
444 %% Vafa Khalighi instead of Jonathan Kew. A sincere thank you to Jonathan Kew
445 %% for his excellent code.
446 \c_xephm_lrm_int\c_xephm_zwj_int\tex_penalty:D 10000
447 \tex_leaders:D \tex_hrule:D height \XeTeXglyphbounds \c_xephm_two_int
448 \int_use:N \XeTeXcharglyph \c_xephm_ksh_int depth \XeTeXglyphbounds \c_xephm_four_int
449 \int_use:N \XeTeXcharglyph \c_xephm_ksh_int \skip_horizontal:n { #1 }
450 \c_xephm_zwj_int
451 }
452 }
453 }
454
455 \XeTeXinterchartokenstate = 1
456
457 \clist_set:Nn \l_xephm_a_clist { 0622,0623,0625,0627 } %
458 \clist_map_inline:Nn \l_xephm_a_clist
459 {
460 \XeTeXcharclass "#1 \c_xephm_a_charclass
461 }
462
463 \clist_set:Nn \l_xephm_d_clist { 0626,0628,062A,062B,062C,062D,062E,0633,0634,0635,0636,0637,0638,0639 } %
464 \clist_map_inline:Nn \l_xephm_d_clist
465 {
466 \XeTeXcharclass "#1 \c_xephm_d_charclass
467 }
468
469 \clist_set:Nn \l_xephm_l_clist { 0644 } %
470 \clist_map_inline:Nn \l_xephm_l_clist
471 {
472 \XeTeXcharclass "#1 \c_xephm_l_charclass
473 }
474

```

```

475 \clist_set:Nn \l_xephm_r_clist { 0624,0629,062F,0630,0631,0632,0648,0698 } % , , , , , ,
476 \clist_map_inline:Nn \l_xephm_r_clist
477 {
478   \XeTeXcharclass "#1 \c_xephm_r_charclass
479 }
480
481 \clist_set:Nn \l_xephm_y_clist { 0649,064A,06CC } % , ,
482 \clist_map_inline:Nn \l_xephm_y_clist
483 {
484   \XeTeXcharclass "#1 \c_xephm_y_charclass
485 }
486
487 \tl_if_eq:NNTF \l_xephm_gap_filler_tl \l_xephm_stretch_glyph_tl {
488   \XeTeXinterchartoks \c_xephm_y_charclass \c_xephm_y_charclass = {
489     \bool_if:NTF \l_xephm_kashida_hm_fix_bool
490     { \c_xephm_zwj_int \xephm_kashida_glyph \l_xephm_skip_default_tl \c_xephm_zwj_int }
491     { \c_xephm_zwj_int \xephm_kashida_glyph \c_xephm_skip_a_tl \c_xephm_zwj_int }
492   }
493   \XeTeXinterchartoks \c_xephm_d_charclass \c_xephm_y_charclass = {
494     \bool_if:NTF \l_xephm_kashida_hm_fix_bool
495     { \c_xephm_zwj_int \xephm_kashida_glyph \l_xephm_skip_default_tl \c_xephm_zwj_int }
496     { \c_xephm_zwj_int \xephm_kashida_glyph \c_xephm_skip_a_tl \c_xephm_zwj_int }
497   }
498   \XeTeXinterchartoks \c_xephm_y_charclass \c_xephm_d_charclass = { \c_xephm_zwj_int \xephm_kashida_
499   \XeTeXinterchartoks \c_xephm_d_charclass \c_xephm_d_charclass = { \c_xephm_zwj_int \xephm_kashida_
500   \XeTeXinterchartoks \c_xephm_l_charclass \c_xephm_d_charclass = { \c_xephm_zwj_int \xephm_kashida_
501   \XeTeXinterchartoks \c_xephm_d_charclass \c_xephm_l_charclass = { \c_xephm_zwj_int \xephm_kashida_
502   \XeTeXinterchartoks \c_xephm_l_charclass \c_xephm_l_charclass = { \c_xephm_zwj_int \xephm_kashida_
503   \XeTeXinterchartoks \c_xephm_d_charclass \c_xephm_r_charclass = { \c_xephm_zwj_int \xephm_kashida_
504   \XeTeXinterchartoks \c_xephm_d_charclass \c_xephm_a_charclass = { \c_xephm_zwj_int \xephm_kashida_
505   \XeTeXinterchartoks \c_xephm_l_charclass \c_xephm_r_charclass = { \c_xephm_zwj_int \xephm_kashida_
506   \XeTeXinterchartoks \c_xephm_l_charclass \c_xephm_a_charclass = { }
507 }
508 {
509   \bool_if:NTF {
510     \tl_if_eq_p:NN \l_xephm_gap_filler_tl \l_xephm_stretch_leaders_glyph_tl ||
511     \tl_if_eq_p:NN \l_xephm_gap_filler_tl \l_xephm_stretch_leaders_hruler_tl
512   }
513   {
514     \XeTeXinterchartoks \c_xephm_y_charclass \c_xephm_y_charclass = {
515       \bool_if:NTF \l_xephm_kashida_hm_fix_bool
516       { \xephm_kashida_leaders \l_xephm_skip_default_tl }
517       { \xephm_kashida_leaders \c_xephm_skip_a_tl }
518     }
519     \XeTeXinterchartoks \c_xephm_d_charclass \c_xephm_y_charclass = {
520       \bool_if:NTF \l_xephm_kashida_hm_fix_bool
521       { \xephm_kashida_leaders \l_xephm_skip_default_tl }
522       { \xephm_kashida_leaders \c_xephm_skip_a_tl }
523     }
524     \XeTeXinterchartoks \c_xephm_y_charclass \c_xephm_d_charclass = { \xephm_kashida_leaders \c_xephm_

```

```

525 \XeTeXinterchartoks \c_xephm_d_charclass \c_xephm_d_charclass = { \xephm_kashida_leaders \c_xephm_d_charclass }
526 \XeTeXinterchartoks \c_xephm_l_charclass \c_xephm_d_charclass = { \xephm_kashida_leaders \c_xephm_d_charclass }
527 \XeTeXinterchartoks \c_xephm_d_charclass \c_xephm_l_charclass = { \xephm_kashida_leaders \c_xephm_l_charclass }
528 \XeTeXinterchartoks \c_xephm_l_charclass \c_xephm_l_charclass = { \xephm_kashida_leaders \c_xephm_l_charclass }
529 \XeTeXinterchartoks \c_xephm_d_charclass \c_xephm_r_charclass = { \xephm_kashida_leaders \c_xephm_r_charclass }
530 \XeTeXinterchartoks \c_xephm_d_charclass \c_xephm_a_charclass = { \xephm_kashida_leaders \c_xephm_a_charclass }
531 \XeTeXinterchartoks \c_xephm_l_charclass \c_xephm_r_charclass = { \xephm_kashida_leaders \c_xephm_r_charclass }
532 \XeTeXinterchartoks \c_xephm_l_charclass \c_xephm_a_charclass = { }
533 }
534 {
535 \msg_error:nnx { xepersian-hm } { error-value-not-available-for-kashida-option } { \l_xephm_gap_ }
536 }
537 }
538
539 \NewDocumentCommand \KashidaHMFixOn {} { \bool_set_true:N \l_xephm_kashida_hm_fix_bool }
540 \NewDocumentCommand \KashidaHMFixOff {} { \bool_set_false:N \l_xephm_kashida_hm_fix_bool }
541
542 \tex_let:D \KashidaOn \KashidaHMFixOn
543 \tex_let:D \KashidaOff \KashidaHMFixOff
544
545 \bool_if:NTF \l_xephm_kashida_hm_fix_bool
546 {
547 \tl_if_empty:NT \l_xephm_skip_default_tl { \tl_set:Nn \l_xephm_skip_default_tl { 0.14 em plus 0 }
548 }
549 {
550 \tl_set:NV \l_xephm_skip_default_tl \c_xephm_skip_a_tl
551 }
552
553 \ExplSyntaxOff
554
555 \makeatletter
556 \newif\if@Kashida@on
557 \newif\if@Kashida@XB@fix
558 \makeatother
559
560 \endinput
561 </kashida-xepersian-hm-def>

```

Acknowledgements

Todo

Change History

Todo

References

Todo

Index

Todo