あ" **あ・い() あ** Ryumin-Light あ" あ・い← IPA明朝 (ipam)

あ"あ・い← KozMinPr6N-Regular

あ"あ・い← IPA P明朝 (ipamp)

あ 123 \relax

ここからは、欧文文字フォントは IPA EX ゴシック

文字範囲の代入/取得テスト

「ô」は9番の文字範囲なので、和文扱いのはず iso8859-1 和文扱い:0 § ¶ ° £ ¥ ô iso8859-1 欧文扱い:1§¶ °£¥ ô 標準:1 § ¶ ° £ ¥ ô

文字範囲の状況取得

010

文字コード 文字範囲

-1 6 8 9 -1 217

あ 1 ← CFFFF 欧文扱いあ あ 0 ← CFFFF 和文扱い

Ticket #25121

あられか き く け ごはま a あいうえおかきくけこさしすせそ あいうえおさしすせそ

以下は JFM グルー挿入検証

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JA-JA (pen なし)
                                                                                      D whatsit 44 userid:4 (direction) (node list) dir: 4
                                                                                     F glue 0 9.4pt plus 2.3pt minus 4.5pt D glyph 256 あ 69 (8.8+1.2)x10.0
                                                                                     6 kern 1 20.0pt (from JFM: priority 0)
D glyph 256 \overline{P} 69 (8.8+1.2)x10.0
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                              ァ
                                                                                     D whatsit 44 userid:4 (direction) (node list) dir: 4
                                                                                     F glue 0 9.4pt plus 2.3pt minus 4.5pt D glyph 256 5 69 (8.8+1.2)x10.0
                                                                                         glue 0 0.0pt plus 0.4pt minus 0.4pt (kanjiskip)
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                                                                                      D glyph 256 1 69 (8.8+1.2)x10.0
                                                                                     D whatsit 44 userid:4 (direction) (node list) dir: 4
                                                                                     F glue 0 9.4pt plus 2.3pt minus 4.5pt D glyph 256 あ 69 (8.8+1.2)x10.0
                                                                                      6 glue 0 14.1pt (from JFM: priority 0)
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                                                                                     D glyph 256 ウ 69 (8.8+1.2)x10.0
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                                                                                     6 kern 1 20.0pt (from JFM: priority 0)
D glyph 256 \mathcal{P} 69 (8.8+1.2)x10.0
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                                                                                      D whatsit 44 userid:4 (direction) (node list) dir: 4
                                                                                     D glyph 256 V1 69 (8.8+1.2)x10.0
9 glue 0 0.0pt plus 0.4pt minus 0.4pt (kanjiskip)
D glyph 256 1 69 (8.8+1.2)x10.0
いイ
                                                                                     D whatsit 44 userid:4 (direction) (node list) dir: 4
D glyph 256 l 1 69 (8.8+1.2)x10.0
                                                                                     6 glue 0 14.1pt (from JFM: priority 0)
D glyph 256 ウ 69 (8.8+1.2)x10.0
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         JA-EN (pen なし)
                                                                                     D whatsit 44 userid:4 (direction) (node list) dir: 4 F glue 0 9.4pt plus 2.3pt minus 4.5pt D glyph 256 あ 69 (8.8+1.2)x10.0 6 kern 1 12.1pt (from JFM: priority 0)
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                                                                                     D glyph 256 a 68 (5.2002+0.03906)x5.49805
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                                                                                     D whatsit 44 userid:4 (direction) (node list) dir: 4
D glyph 256 l 1 69 (8.8+1.2)x10.0
                                                                                     B glue 0 2.40553pt plus 1.0pt minus 1.0pt (xkanjiskip)
D glyph 256 a 68 (5.2002+0.03906)x5.49805
lla
                                                                                     D whatsit 44 userid:4 (direction) (node list) dir: 4
                                                                                     D glyph 256 う 69 (8.8+1.2)x10.0
                                                                                     6 glue 0 17.3pt (from JFM: priority 0)
D glyph 256 a 68 (5.2002+0.03906)x5.49805
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                                                                                      D whatsit 44 userid:4 (direction) (node list) dir: 4
                                                                                     D glyph 256 $\frac{7}{\times}$ 69 (8.8+1.2)x10.0 6 kern 1 17.3pt (from JFM: priority 0)
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                                                                                     D glyph 256 a 68 (5.2002+0.03906)x5.49805
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                                                                                     D whatsit 44 userid:4 (direction) (node list) dir: 4
D glyph 256 🗗 69 (8.8+1.2)x10.0
                                                                                      B glue 0 2.40553pt plus 1.0pt minus 1.0pt (xkanjiskip)
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                                                                                     D glyph 256 a 68 (5.2002+0.03906)x5.49805
          EN-JA (pen なし)
                                                                                     D whatsit 44 userid:4 (direction) (node list) dir: 4
D glyph 256 a 68 (5.2002+0.03906)x5.49805
                                                                                     B glue 0 2.40553pt plus 1.0pt minus 1.0pt (xkanjiskip)
D glyph 256 5 69 (8.8+1.2)x10.0
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                                                                                      D whatsit 44 userid:4 (direction) (node list) dir: 4
                                                                                     D glyph 256 a 68 (5.2002+0.03906)x5.49805
6 glue 0 14.1pt (from JFM: priority 0)
              L١
                                                                                     D glyph 256 ll 69 (8.8+1.2)x10.0
                                                                                     D whatsit 44 userid:4 (direction) (node list) dir: 4
D glyph 256 a 68 (5.2002+0.03906)x5.49805
                                                                                     6 kern 1 20.0pt (from JFM: priority 0)
D glyph 256 5 69 (8.8+1.2)x10.0
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          JA-明 kern (pen なし)
                                                                                     D whatsit 44 userid:4 (direction) (node list) dir: 4 F glue 0 9.4pt plus 2.3pt minus 4.5pt D glyph 256 あ 69 (8.8+1.2)x10.0 6 kern 1 12.1pt (from JFM: priority 0)
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                                                                                      D kern 1 3.0pt
                                                                                     D whatsit 44 userid:4 (direction) (node list) dir: 4
D glyph 256 l 69 (8.8+1.2)x10.0
L١
                                                                                      D kern 1 3.0pt
                                                                                     D whatsit 44 userid:4 (direction) (node list) dir: 4
D glyph 256 3 69 (8.8+1.2)x10.0
3 penalty 0 10000 (for kinsoku)
6 glue 0 17.3pt (from JFM: priority 0)
 う
                                                                                     D kern 1 3.0pt
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明 kern-JA (pen なし)
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D whatsit 44 userid:4 (direction) (node list) dir: 4
                                                      D kern 1 3.0pt
                                                      D glyph 256 あ 69 (8.8+1.2)x10.0
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                                                      D whatsit 44 userid:4 (direction) (node list) dir: 4
                                                      D kern 1 3.0pt
3 penalty 0 10000 (for kinsoku)
                                                         glue 0 14.1pt (from JFM: priority 0)
        L١
                                                      D glyph 256 11 69 (8.8+1.2)x10.0
                                                      D whatsit 44 userid:4 (direction) (node list) dir: 4
                                                      D kern 1 3.0pt
                                                      6 kern 1 20.0pt (from JFM: priority 0)
D glyph 256 5 69 (8.8+1.2)x10.0
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      JA-hbox (pen なし)
                                                      D whatsit 44 userid:4 (direction) (node list) dir: 4 F glue 0 9.4pt plus 2.3pt minus 4.5pt D glyph 256 あ 69 (8.8+1.2)x10.0 3 penalty 0 0 (for kinsoku) 6 kern 1 12.1pt (from JFM: priority 0)
                                                      D hlist 2 (0.0+0.0)x0.0, dir=0
.D whatsit 44 userid:4 (direction) (node list) dir:
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                                                      D whatsit 44 userid:4 (direction) (node list) dir:
D glyph 256 ll 69 (8.8+1.2)x10.0
                                                      3 penalty 0 0 (for kinsoku)
D hlist 2 (0.0+0.0)x0.0, dir=0
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                                                      .D whatsit 44 userid:4 (direction) (node list) dir: 4
                                                      D whatsit 44 userid:4 (direction) (node list) dir: 4
D glyph 256 う 69 (8.8+1.2)x10.0
6 glue 0 17.3pt (from JFM: priority 0)
D hlist 2 (0.0+0.0)x0.0, dir=0
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D whatsit 44 userid:4 (direction) (node list) dir: 4
                                                      9 glyph 256 え 69 (8.8+1.2)x10.0
3 penalty 0 0 (for kinsoku)
6 kern 1 17.3pt (from JFM: priority 0)
                                                      D hlist 2 (0.0+0.0)x0.0, dir=0
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                                                      .D whatsit 44 userid:4 (direction) (node list) dir: 4
                                                      D whatsit 44 userid:4 (direction) (node list) dir: 4
F glue 0 9.4pt plus 2.3pt minus 4.5pt
D glyph 256 あ 69 (8.8+1.2)x10.0
6 kern 1 12.1pt (from JFM: priority 0)
                                                      D hlist 2 (8.8+1.2)x10.0, dir=0
                                                       .D whatsit 44 userid:4 (direction) (node list) dir: 4
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                                                       .D glyph 256 7 69 (8.8+1.2)x10.0
                                                      D whatsit 44 userid:4 (direction) (node list) dir: 4 F glue 0 9.4pt plus 2.3pt minus 4.5pt D glyph 256 あ 69 (8.8+1.2)x10.0
                                                      D hlist 2 (5.2002+0.03906)x5.49805, dir=0

D whatsit 44 userid:4 (direction) (node list) dir: 4
                                                       .D glyph 256 a 68 (5.2002+0.03906)x5.49805
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              а
                                                      D whatsit 44 userid:4 (direction) (node list) dir: 4
                                                      D glyph 256 \\ 69 (8.8+1.2)x10.0
B glue 0 2.40553pt plus 1.0pt minus 1.0pt (xkanjiskip)
                                                      D hlist 2 (5.2002+0.03906)x5.49805, dir=0
.D whatsit 44 userid:4 (direction) (node list) dir: 4
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                                                       .D glyph 256 a 68 (5.2002+0.03906)x5.49805
      hbox-JA (pen なし)
                                                      D whatsit 44 userid:4 (direction) (node list) dir: 4 D hlist 2 (0.0+0.0)x0.0, dir=0
                                                      D whatsit 44 userid:4 (direction) (node list) dir: 4 3 penalty 0 0 (for kinsoku)
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                                                      D glyph 256 あ 69 (8.8+1.2)x10.0
                                                      D whatsit 44 userid:4 (direction) (node list) dir: 4
D hlist 2 (0.0+0.0)x0.0, dir=0
                                                       .D whatsit 44 userid:4 (direction) (node list) dir: 4
                                                      6 glue 0 14.1pt (from JFM: priority 0)
D glyph 256 1 69 (8.8+1.2)x10.0
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                                                      D whatsit 44 userid:4 (direction) (node list) dir: 4
D hlist 2 (0.0+0.0)x0.0, dir=0
                                                      D hist 2 (0.0+0.0)x0.0, dir=0
.D whatsit 44 userid:4 (direction) (node list) dir: 4
3 penalty 0 0 (for kinsoku)
6 kern 1 20.0pt (from JFM: priority 0)
D glyph 256 5 69 (8.8+1.2)x10.0
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JA-JA (pen あり)
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Whatsit 44 userid:4 (direction) (node list) dir: 4

F glue 0 9.4pt plus 2.3pt minus 4.5pt

D glyph 256 $\frac{1}{2}$ 69 (8.8+1.2)x10.0

9 glue 0 0.0pt plus 0.4pt minus 0.4pt (kanjiskip)

D glyph 256 $\frac{1}{2}$ 69 (8.8+1.2)x10.0
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                                                                                                                                                                                               6 glue 0 14.1pt (from JFM: priority 0)
D glyph 256 ウ 69 (8.8+1.2)x10.0
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D glyph 256 \mathcal{P} 69 (8.8+1.2)x10.0
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3 penalty 0 123 (for kinsoku)
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                                                                                                                                                                                               3 penalty 0 123 (for kinsoku)
6 glue 0 14.1pt (from JFM: priority 0)
D glyph 256 ウ 69 (8.8+1.2)x10.0
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                       JA-EN (pen あり)
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                                                                                                                                                                                               3 penalty 0 123 (for kinsoku)
B glue 0 2.40553pt plus 1.0pt minus 1.0pt (xkanjiskip)
D glyph 256 a 68 (5.2002+0.03906)x5.49805
lla
                                                                                                                                                                                               D whatsit 44 userid:4 (direction) (node list) dir: 4
D glyph 256 \stackrel{?}{\Rightarrow} 69 (8.8+1.2)x10.0
3 penalty 0 123 (for kinsoku)
6 glue 0 17.3pt (from JFM: priority 0)
D glyph 256 a 68 (5.2002+0.03906)x5.49805
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6 kern 1 17.3pt (from JFM: priority 0)
D glyph 256 a 68 (5.2002+0.03906)x5.49805
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D glyph 256 🕏 69 (8.8+1.2)x10.0
                                                                                                                                                                                                  3 penalty 0 123 (for kinsoku)
                                                                                                                                                                                               B glue 0 2.40553pt plus 1.0pt minus 1.0pt (xkanjiskip)
D glyph 256 a 68 (5.2002+0.03906)x5.49805
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                       EN-JA (pen あり)
                                                                                                                                                                                               D whatsit 44 userid:4 (direction) (node list) dir: 4
D glyph 256 a 68 (5.2002+0.03906)x5.49805
                                                                                                                                                                                                   3 penalty 0 321 (for kinsoku)
                                                                                                                                                                                               B glue 0 2.40553pt plus 1.0pt minus 1.0pt (xkanjiskip)
D glyph 256 あ 69 (8.8+1.2)x10.0
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                                                                                                                                                                                                 D whatsit 44 userid:4 (direction) (node list) dir: 4
                                                                                                                                                                                                  D glyph 256 a 68 (5.2002+0.03906)x5.49805
                                                                                                                                                                                               6 kern 1 20.0pt (from JFM: priority 0)
D glyph 256 5 69 (8.8+1.2)x10.0
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а
                       JA-hbox (pen あり)
                                                                                                                                                                                               D whatsit 44 userid:4 (direction) (node list) dir: 4 F glue 0 9.4pt plus 2.3pt minus 4.5pt D glyph 256 あ 69 (8.8+1.2)x10.0 3 penalty 0 123 (for kinsoku)
                                                                                                                                                                                               6 kern 1 12.1pt (from JFM: priority 0)
D hlist 2 (0.0+0.0)x0.0, dir=0
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D whatsit 44 userid:4 (direction) (node list) dir: 4
                                                                   D glyph 256 1 69 (8.8+1.2)x10.0
                                                                   3 penalty 0 123 (for kinsoku)
                                                                   D hlist 2 (0.0+0.0)x0.0, dir=0
                                                                  D whatsit 44 userid:4 (direction) (node list) dir: 4
D whatsit 44 userid:4 (direction) (node list) dir: 4
D glyph 256 \supset 69 (8.8+1.2)x10.0
3 penalty 0 123 (for kinsoku)
6 glue 0 17.3pt (from JFM: priority 0)
L١
                                                                  D hlist 2 (0.0+0.0)x0.0, dir=0

.D whatsit 44 userid:4 (direction) (node list) dir:
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                                                                  D whatsit 44 userid:4 (direction) (node list) dir: 4 D glyph 256 \bar{\lambda} 69 (8.8+1.2)x10.0
                                                                   3 penalty 0 123 (for kinsoku)
6 kern 1 17.3pt (from JFM: priority 0)
                                                                   D hlist 2 (0.0+0.0)x0.0, dir=0
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                                                                  .D whatsit 44 userid:4 (direction) (node list) dir: 4
D whatsit 44 userid:4 (direction) (node list) dir: 4
F glue 0 9.4pt plus 2.3pt minus 4.5pt
D glyph 256 あ 69 (8.8+1.2)x10.0
                                                                  6 kern 1 12.1pt (from JFM: priority 0)
D hlist 2 (8.8+1.2)x10.0, dir=0
                                                                  .D whatsit 44 userid:4 (direction) (node list) dir: 4
.D glyph 256 \mathcal{F} 69 (8.8+1.2)x10.0

D whatsit 44 userid:4 (direction) (node list) dir: 4
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                                                                  F glue 0 9.4pt plus 2.3pt minus 4.5pt D glyph 256 あ 69 (8.8+1.2)x10.0
                                                                  D klipk 200 00 (0.1.27ki).

D hlist 2 (5.2002+0.03906)x5.49805, dir=0

.D whatsit 44 userid:4 (direction) (node list) dir: 4
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                                                                    .D glyph 256 a 68 (5.2002+0.03906)x5.49805
                                                                   D whatsit 44 userid:4 (direction) (node list) dir: 4
                                                                   D glyph 256 11 69 (8.8+1.2)x10.0
                                                                  D glypn 255 Vi 59 (8.8+1.2/XIO.0
3 penalty 0 123 (for kinsoku)
B glue 0 2.40553pt plus 1.0pt minus 1.0pt (xkanjiskip)
D hlist 2 (5.2002+0.03906)x5.49805, dir=0
.D whatsit 44 userid:4 (direction) (node list) dir: 4
lla
                                                                    .D glyph 256 a 68 (5.2002+0.03906)x5.49805
                                                                  D whatsit 44 userid:4 (direction) (node list) dir: 4 D hlist 2 (8.8+1.2)x10.0, dir=0
                                                                    .D whatsit 44 userid:4 (direction) (node list) dir: 4 .D glyph 256 ( 69 (8.8+1.2)x10.0
                                                                  .D glyph 256 ( 69 (8.8+1.2)x10.0
3 penalty 0 571 (for kinsoku)
6 glue 0 14.1pt (from JFM: priority 0)
D glyph 256 U 69 (8.8+1.2)x10.0
3 penalty 0 123 (for kinsoku)
9 glue 0 0.0pt plus 0.4pt minus 0.4pt (kanjiskip)
D hlist 2 (8.8+1.2)x10.0, dir=0
                                                                    .D whatsit 44 userid:4 (direction) (node list) dir: 4
  ((1)
                                                                    .D glyph 256 ) 69 (8.8+1.2)x10.0
        hbox-JA (pen あり)
                                                                   D whatsit 44 userid:4 (direction) (node list) dir: 4
                                                                   D hlist 2 (0.0+0.0)x0.0, dir=0
                                                                    .D whatsit 44 userid:4 (direction) (node list) dir: 4
                                                                   3 penalty 0 0 (for kinsoku)
あ
                                                                   D glyph 256 あ 69 (8.8+1.2)x10.0
                                                                  D whatsit 44 userid:4 (direction) (node list) dir: 4 D hlist 2 (0.0+0.0)x0.0, dir=0
                                                                   .D whatsit 44 userid:4 (direction) (node list) dir: 4 3 penalty 0 571 (for kinsoku)
                                                                  6 glue 0 14.1pt (from JFM: priority 0)
D glyph 256 1 69 (8.8+1.2)x10.0
        l١
                                                                   D whatsit 44 userid:4 (direction) (node list) dir: 4
                                                                  D whatsit 44 userid:4 (direction) (node list) dir: 4
D hlist 2 (0.0+0.0)x0.0, dir=0
.D whatsit 44 userid:4 (direction) (node list) dir: 4
3 penalty 0 0 (for kinsoku)
6 kern 1 20.0pt (from JFM: priority 0)
D glyph 256 5 69 (8.8+1.2)x10.0
            う
        italic correction
                                                                   D whatsit 44 userid:4 (direction) (node list) dir: 4
                                                                  D whatsit 44 userid:4 (direction) (node list) dir
D glyph 256 f 37 (6.94444+1.94444)x3.06665
3 penalty 0 123 (for kinsoku)
6 glue 0 5.0pt minus 5.0pt (from JFM: priority 0)
2 hlist 0 (8.8+1.2)x5.0, dir=0 (packed)
.0 glyph 256 ( 66 (8.32031+0.71777)x5.09766
E kern 1 0.0pt (italic correction)
3 penalty 0 10000 (for kinsoku)
                                                                  6 glue 0 0.0pt (from JFM: priority 0)
2 hlist 0 (8.8+1.2)x10.0, dir=0 (packed)
f(b)
                                                                    .0 glyph 256 あ 66 (8.11035+0.36133)x8.99902
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[x]kanjiskip の挿入

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kanjiskip from JFM, autospacing (JA-JA)
                                              D whatsit 44 userid:4 (direction) (node list) dir: 4
                                             F glue 0 9.4pt plus 2.3pt minus 4.5pt D glyph 256 あ 69 (8.8+1.2)x10.0
                                             9 glue 0 0.0pt plus 0.4pt minus 0.4pt (kanjiskip)
D glyph 256 5 69 (8.8+1.2)x10.0
   ああ
                                             D whatsit 44 userid:4 (direction) (node list) dir: 4
F glue 0 9.4pt plus 2.3pt minus 4.5pt
D glyph 256 あ 69 (8.8+1.2)x10.0
A glue 0 1.0pt plus 0.4pt minus 0.5pt (kanjiskip, JFM specified)
   ああ
                                             D glyph 256 あ 69 (8.8+1.2)x10.0
                                             D whatsit 44 userid:4 (direction) (node list) dir: 4
D glyph 256 | 72 (10.56+1.44)x12.0
A glue 0 1.1pt plus 0.44pt minus 0.55pt (kanjiskip, JFM specified)
はぁ
                                             D glyph 256 あ 69 (8.8+1.2)x10.0
                                             D whatsit 44 userid:4 (direction) (node list) dir: 4
                                             F glue 0 9.4pt plus 2.3pt minus 4.5pt D glyph 256 あ 69 (8.8+1.2)x10.0
                                             9 glue 0 0.0pt plus 0.4pt minus 0.4pt (kanjiskip)
D glyph 256 あ 69 (8.8+1.2)x10.0
                                             9 glue 0 0.0pt (kanjiskip)
   あああ
                                             D glyph 256 あ 69 (8.8+1.2)x10.0
     kanjiskip from JFM/autoxspacing (JA-EN)
                                             D whatsit 44 userid:4 (direction) (node list) dir: 4
D glyph 256 $\dagger$ 69 (8.8+1.2)x10.0
                                             B glue 0 2.40553pt plus 1.0pt minus 1.0pt (xkanjiskip)
D glyph 256 x 68 (5.07813+0.0)x4.8877
ま x
                                             D whatsit 44 userid:4 (direction) (node list) dir: 4
                                             D glyph 256 ま 69 (8.8+1.2)x10.0
                                             B glue 0 2.40553pt plus 1.0pt minus 1.0pt (xkanjiskip)
                                             D glyph 256 x 68 (5.07813+0.0)x4.8877
ŧ x
                                             D whatsit 44 userid:4 (direction) (node list) dir: 4
                                             D glyph 256 ま 69 (8.8+1.2)x10.0
                                             B glue 0 0.0pt (xkanjiskip)
D glyph 256 x 68 (5.07813+0.0)x4.8877
ŧχ
                                             D whatsit 44 userid:4 (direction) (node list) dir: 4
                                             D glyph 256 ま 69 (8.8+1.2)x10.0
                                             C glue 0 3.1pt plus 0.45pt minus 0.57pt (xkanjiskip, JFM specified) D glyph 256 x 68 (5.07813+0.0)x4.8877
ŧ x
                                             D whatsit 44 userid:4 (direction) (node list) dir: 4
                                             D glyph 256 ま 69 (8.8+1.2)x10.0
B glue 0 0.0pt (xkanjiskip)
ŧх
                                             D glyph 256 x 68 (5.07813+0.0)x4.8877
                                             D whatsit 44 userid:4 (direction) (node list) dir: 4
                                             D glyph 256 $\dagger$ 69 (8.8+1.2)x10.0
B glue 0 0.0pt (xkanjiskip)
ŧх
                                             D glyph 256 x 68 (5.07813+0.0)x4.8877
     xkanjiskip from JFM/autoxspacing (EN-JA)
                                             D whatsit 44 userid:4 (direction) (node list) dir: 4
                                             D glyph 256 x 68 (5.07813+0.0)x4.8877
B glue 0 2.40553pt plus 1.0pt minus 1.0pt (xkanjiskip)
хŧ
                                             D glyph 256 $ 69 (8.8+1.2)x10.0
                                             D whatsit 44 userid:4 (direction) (node list) dir: 4
D glyph 256 x 68 (5.07813+0.0)x4.8877
                                             B glue 0 2.40553pt plus 1.0pt minus 1.0pt (xkanjiskip)
хŧ
                                             D glyph 256 ま 69 (8.8+1.2)x10.0
                                             D whatsit 44 userid:4 (direction) (node list) dir: \,4\,
                                             D glyph 256 x 68 (5.07813+0.0)x4.8877
                                             B glue 0 0.0pt (xkanjiskip)
хŧ
                                             D glyph 256 ま 69 (8.8+1.2)x10.0
                                             D whatsit 44 userid:4 (direction) (node list) dir: 4 D glyph 256 x 68 (5.07813+0.0)x4.8877
                                             C glue 0 3.1pt plus 0.45pt minus 0.57pt (xkanjiskip, JFM specified)
D glyph 256 ま 69 (8.8+1.2)x10.0
хŧ
                                             D whatsit 44 userid:4 (direction) (node list) dir: 4 D glyph 256 x 68 (5.07813+0.0)x4.8877
                                             B glue 0 0.0pt (xkanjiskip)
D glyph 256 ま 69 (8.8+1.2)x10.0
хŧ
                                             D whatsit 44 userid:4 (direction) (node list) dir: 4
                                             D glyph 256 x 68 (5.07813+0.0)x4.8877
                                             B glue 0 0.0pt (xkanjiskip)
D glyph 256 ま 69 (8.8+1.2)x10.0
                                             9 glue 0 0.0pt plus 0.4pt minus 0.4pt (kanjiskip)
D glyph 256 お 69 (8.8+1.2)x10.0
                                               glue 0 0.0pt (xkanjiskip)
xまおx
                                             D glyph 256 x 68 (5.07813+0.0)x4.8877
```

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more than one penalty
                                                             D whatsit 44 userid:4 (direction) (node list) dir: 4
                                                             D glyph 256 $\div 69 (8.8+1.2)x10.0
                                                            D penalty 0 1701
D penalty 0 1701
                                                            D penalty 0 1701
9 glue 0 0.0pt plus 0.4pt minus 0.4pt (kanjiskip)
D glyph 256 V1 69 (8.8+1.2)x10.0
おい
                                                            D whatsit 44 userid:4 (direction) (node list) dir: 4
                                                            D glyph 256 お 69 (8.8+1.2)x10.0
D penalty 0 1701
                                                            D penalty 0 1701
D penalty 0 1701
D penalty 0 1701
9 glue 0 0.0pt plus 0.4pt minus 0.4pt (kanjiskip)
D glyph 256 🕏 69 (8.8*1.2)x10.0
おお
                                                            D whatsit 44 userid:4 (direction) (node list) dir: 4
                                                            F glue 0 9.4pt plus 2.3pt minus 4.5pt D glyph 256 5 69 (8.8+1.2)x10.0 D penalty 0 1701
                                                            D penalty 0 1701
D penalty 0 1701
                                                            9 glue 0 0.0pt plus 0.4pt minus 0.4pt (kanjiskip)
D glyph 256 11 69 (8.8+1.2)x10.0
     あい
                                                            D whatsit 44 userid:4 (direction) (node list) dir: 4
F glue 0 9.4pt plus 2.3pt minus 4.5pt
D glyph 256 あ 69 (8.8+1.2)x10.0
D penalty 0 1701
D penalty 0 1701
                                                            D penalty 0 1701
9 glue 0 0.0pt plus 0.4pt minus 0.4pt (kanjiskip)
     あお
                                                            D glyph 256 8 69 (8.8+1.2)x10.0
       その他: italic correction and accents
                                                            D whatsit 44 userid:4 (direction) (node list) dir: 4
2 hlist 0 (8.8+1.2)x10.0, dir=0 (packed)
.0 glyph 256 あ 66 (8.11035+0.36133)x8.99902
E kern 1 0.0pt (italic correction)
                                                            B glue 0 2.40553pt plus 1.0pt minus 1.0pt (xkanjiskip)
D glyph 256 j 1 (6.67859+1.94444)x3.05557
あj
                                                            D whatsit 44 userid:4 (direction) (node list) dir: 4 2 hlist 0 (8.8+1.2)x5.0, dir=0 (packed)
                                                            .0 glyph 256 ) 66 (8.32031+0.71777)x5.09766
E kern 1 0.0pt (italic correction)
                                                            6 glue 0 5.0pt minus 5.0pt (from JFM: priority 0)
D glyph 256 j 1 (6.67859+1.94444)x3.05557
) j
                                                            D whatsit 44 userid:4 (direction) (node list) dir: 4 D glyph 256 \ensuremath{\hbar} 69 (8.8+1.2)x10.0
                                                            D glyph 256 74 69 (8.8+1.2)x10.0
B glue 0 2.40553pt plus 1.0pt minus 1.0pt (xkanjiskip)
D kern 2 1.25pt (for accent)
D hlist 0 (6.28473+0.0)x5.00002, dir=0, shifted -2.52777
.0 glyph 0 ~ 1 (6.28473+0.0)x5.00002
D kern 2 -6.25002pt (for accent)
                                                            D glyph 256 A 1 (6.83331+0.0)x7.50002
3 penalty 0 10000 (for kinsoku)
                                                            B glue 0 0.0pt (xkanjiskip)
D glyph 256 ) 69 (8.8+1.2)x10.0
れĂ)
       その他: box boundary
                                                             D whatsit 44 userid:4 (direction) (node list) dir: 4
                                                             F glue 0 10.3pt
                                                            r glue 0 10.9pt
D glyph 256 か 69 (8.8+1.2)x10.0
9 glue 0 0.0pt plus 0.4pt minus 0.4pt (kanjiskip)
D glyph 256 あ 69 (8.8+1.2)x10.0
9 glue 0 0.0pt plus 0.4pt minus 0.4pt (kanjiskip)
D glyph 256 か 69 (8.8+1.2)x10.0
     かあか
                                                             F kern 1 8.5pt
                                                            D whatsit 44 userid:4 (direction) (node list) dir: 4 D glyph 256 a 68 (5.2002+0.03906)x5.49805
                                                            B glue 0 2.40553pt plus 1.0pt minus 1.0pt (xkanjiskip)
D glyph 512 か 69 (8.8+1.2)x10.0
                                                            9 glue 0 0.0pt plus 0.4pt minus 0.4pt (kanjiskip)
D glyph 512 あ 69 (8.8+1.2)x10.0
                                                             9 glue 0 0.0pt plus 0.4pt minus 0.4pt (kanjiskip)
                                                            D glyph 512 か 69 (8.8+1.2)x10.0
B glue 0 2.40553pt plus 1.0pt minus 1.0pt (xkanjiskip)
a かあか a
                                                            D glyph 256 a 68 (5.2002+0.03906)x5.49805
                                                            D whatsit 44 userid:4 (direction) (node list) dir: 4 D glyph 256 a 68 (5.2002+0.03906)x5.49805
                                                            D hlist 2 (8.8+1.2)x28.8, dir=0

.D whatsit 44 userid:4 (direction) (node list) dir: 4
                                                             F glue 0 10.3pt
D glyph 256 h 69 (8.8+1.2)x10.0
F kern 1 8.5pt
                                                            D glyph 256 a 68 (5.2002+0.03906)x5.49805
     かa
```

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한 사라보다 44 userid:4 (direction) (node list) dir: 4
D glyph 256 출 69 (8.8+1.2)x10.0
3 penalty 0 0 (for kinsoku)
D hlist 2 (8.8+1.2)x28.8, dir=0
D uhatsit 44 userid:4 (direction) (node list) dir: 4
F glue 0 10.3pt
D glyph 256 ħ 69 (8.8+1.2)x10.0
F kern 1 8.5pt
3 penalty 0 0 (for kinsoku)
D glyph 256 출 69 (8.8+1.2)x10.0
9 glue 0 0.0pt plue 0.4pt minus 0.4pt (kanjiskip)
D hlist 2 (8.8+1.2)x10.0, dir=0
D whatsit 44 userid:4 (direction) (node list) dir: 4
D glyph 256 출 69 (8.8+1.2)x10.0
9 glue 0 0.0pt plue 0.4pt minus 0.4pt (kanjiskip)
D n ylyph 256 출 69 (8.8+1.2)x10.0

D uhatsit 44 userid:4 (direction) (node list) dir: 4
D glyph 256 출 69 (8.8+1.2)x10.0

D uhatsit 44 userid:4 (direction) (node list) dir: 4
P hlist 0 (8.8+1.2)x10.0, dir=0 (packed)
O glyph 256 ð 66 (8.11035+0.36133)x8.99002
3 penalty 0 1000 (for kinsoku)
9 glue 0 0.0pt plue 0.4pt minus 0.4pt (kanjiskip)
D hlist 2 (8.8+1.2)x5.0, dir=0
D whatsit 44 userid:4 (direction) (node list) dir: 4
P hlist 0 (8.8+1.2)x5.0, dir=0 (packed)
O glyph 256 ð 66 (8.32031+0.71777)x5.09766
3 penalty 0 1000 (for kinsoku)
9 glue 0 0.0pt plue 0.4pt minus 0.4pt (kanjiskip)
P hlist 0 (8.8+1.2)x5.0, dir=0 (packed)
O glyph 256 ð 66 (8.11035+0.36133)x8.99902
3 penalty 0 1000 (for kinsoku)
6 glue 0 5.0pt minus 5.0pt (from JFM: priority 0)
P hlist 0 (8.8+1.2)x5.0, dir=0 (packed)
O glyph 256 ( 66 (8.32031+0.71777)x5.09766
3 penalty 0 10000 (for kinsoku)
6 glue 0 0.0pt (from JFM: priority 0)
P hlist 0 (8.8+1.2)x5.0, dir=0 (packed)
O glyph 256 ( 66 (8.32031+0.71777)x5.09766
B penalty 0 10000 (for kinsoku)
6 glue 0 0.0pt (from JFM: priority 0)
P hlist 0 (8.8+1.2)x5.0, dir=0 (packed)
O glyph 256 ( 68 (8.32031+0.71777)x5.09766
B penalty 0 10000 (for kinsoku)
6 glue 0 0.0pt (from JFM: priority 0)
P hlist 0 (8.8+1.2)x5.0, dir=0 (packed)
O glyph 256 ( 68 (8.11035+0.36133)x8.99902
```

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その他: paragraph, hbox and math boundary
                                               0 whatsit 44 userid:4 (direction) (node list) dir: 4
                                               0 whatsit 6 6
                                               0 hlist 3 (0.0+0.0)x19.2, dir=0
                                               F glue 0 6.8pt plus 0.2pt minus 0.4pt D glyph 256 が 69 (8.8+1.2)x10.0
                                               3 penalty 0 500 (for kinsoku)
                                               D glue 0 0.0pt plus 0.4pt minus 0.4pt (kanjiskip)
D glyph 256 I 69 (8.8+1.2)x10.0
D penalty 0 10000
O glue 15 30.0pt
              か
                         I
                                               0 glue 9 0.0pt
                                               0 whatsit 44 userid:4 (direction) (node list) dir: 4
                                               F glue 0 10.3pt
D glyph 256 h 69 (8.8+1.2)x10.0
                                               3 penalty 0 500 (for kinsoku)
9 glue 0 0.0pt plus 0.4pt minus 0.4pt (kanjiskip)
D glyph 256 I 69 (8.8+1.2)x10.0
D penalty 0 10000
                                                 glue 15 30.0pt
     か
                         I
                                               0 glue 9 0.0pt
                                               D whatsit 44 userid:4 (direction) (node list) dir: 4
                                               F glue 0 10.3pt
D glyph 256 か 69 (8.8+1.2)x10.0
                                               9 glue 0 0.0pt plus 0.4pt minus 0.4pt (kanjiskip)
D glyph 256 I 69 (8.8+1.2)x10.0
     かエ
                                               F glue 0 7.8pt
                                               D whatsit 44 userid:4 (direction) (node list) dir: 4
                                               F glue 0 9.4pt plus 2.3pt minus 4.5pt
D glyph 256 あ 69 (8.8+1.2)x10.0
                                               6 glue 0 12.5pt plus 4.3pt minus 8.7pt (from JFM: priority 0) D math 0 \,
                                               D glyph 256 a 7 (4.30554+0.0)x5.28589
                                               D math 1
                                               D glyph 256 ≥ 69 (8.8+1.2)x10.0
                                               B glue 0 2.40553pt plus 1.0pt minus 1.0pt (xkanjiskip)
                                               D math 0
                                               D glyph 256 a 7 (4.30554+0.0)x5.28589
                                               B glue 0 2.40553pt plus 1.0pt minus 1.0pt (xkanjiskip)
D glyph 256 か 69 (8.8+1.2)x10.0
F kern 1 8.5pt
            ぁ
      その他: unhbox の連続
                                               D whatsit 44 userid:4 (direction) (node list) dir:
                                               2 hlist 0 (8.4675+1.15466)x4.81108, dir=0 (packed)
.0 glyph 256 ) 51 (8.4675+1.15466)x9.62216
 )a
                                               D glyph 512 a 68 (5.2002+0.03906)x5.49805
                                               D whatsit 44 userid:4 (direction) (node list) dir: 2 hlist 0 (8.4675+1.15466)x4.81108, dir=0 (packed)
                                                .0 glyph 256 ) 51 (8.4675+1.15466)x9.62216
 )a
                                               D glyph 512 a 68 (5.2002+0.03906)x5.49805
                                               D whatsit 44 userid:4 (direction) (node list) dir:
                                               2 hlist 0 (8.4675+1.15466)x4.81108, dir=0 (packed)
.0 glyph 256 ( 51 (8.4675+1.15466)x9.62216
                                               3 penalty 0 10000 (for kinsoku)
                                               6 glue 0 0.0pt (from JFM: priority 0)
2 hlist 0 (8.4675+1.15466)x4.81108, dir=0 (packed)
.0 glyph 256 ) 51 (8.4675+1.15466)x9.62216
2 hlist 0 (8.4675+1.15466)x4.81108, dir=0 (packed)
                                               .0 glyph 256 ( 51 (8.4675+1.15466)x9.62216
3 penalty 0 10000 (for kinsoku)
                                              2 hlist 0 (8.4675+1.15466)x4.81108, dir=0 (packed)
( ) )
                                                .0 glyph 256 」 51 (8.4675+1.15466)x9.62216
                                               D whatsit 44 userid:4 (direction) (node list) dir: 4
                                               D glyph 256 あ 51 (8.4675+1.15466)x9.62216
9 glue 0 0.0pt plus 0.4pt minus 0.4pt (kanjiskip)
 あい
                                               D glyph 256 [1 51 (8.4675+1.15466)x9.62216
                                               D whatsit 44 userid:4 (direction) (node list) dir: 4
D glyph 256 あ 51 (8.4675+1.15466)x9.62216
                                               9 glue 0 0.0pt plus 0.4pt minus 0.4pt (kanjiskip)
D glyph 256 ll 51 (8.4675+1.15466)x9.62216
 あい
```

その他: 「前由来」	「後由来」JFM 由来グルー D whatsit 44 userid:4 (direction) (node list) dir: 4
	D glyph 256 あ 51 (8.4675+1.15466)x9.62216 6 glue 0 2.40555pt minus 2.40555pt (from JFM: priority 0)
あ 。	2 hlist 0 (4.23375+0.57733)x2.40555, dir=0 (packed) .0 glyph 256 (53 (4.23375+0.57733)x4.81108
	D whatsit 44 userid:4 (direction) (node list) dir: 4
	D glyph 256 あ 53 (4.23375+0.57733)x4.81108 6 glue 0 4.81108pt minus 4.81108pt (from JFM: priority 0)
» (2 hlist 0 (8.4675+1.15466)x4.81108, dir=0 (packed) .0 glyph 256 (51 (8.4675+1.15466)x9.62216
<i>o</i> (D whatsit 44 userid:4 (direction) (node list) dir: 4
	2 hlist 0 (4.23375+0.57733)x2.40555, dir=0 (packed) .0 glyph 256 . 53 (4.23375+0.57733)x4.81108
	3 penalty 0 10000 (for kinsoku)
	7 glue 0 4.81108pt minus 1.6037pt (from JFM: priority 1) 2 hlist 0 (8.4675+1.15466)x4.81108, dir=0 (packed)
. •	.0 glyph 256 · 51 (8.4675+1.15466)x9.62216
	D whatsit 44 userid:4 (direction) (node list) dir: 4 2 hlist 0 (8.4675+1.15466)x4.81108, dir=0 (packed)
	.0 glyph 256 . 51 (8.4675+1.15466)x9.62216
	3 penalty 0 10000 (for kinsoku) 7 glue 0 6.01385pt minus 2.00462pt (from JFM: priority 1)
	2 hlist 0 (4.23375+0.57733)x2.40555, dir=0 (packed) .0 glyph 256 · 53 (4.23375+0.57733)x4.81108
• '	.0 g.ypii 200 00 (4.20010-0.01100)A2.01100
その他: JFM and kerning	
	D whatsit 44 userid:4 (direction) (node list) dir: 4 2 hlist 0 (8.8+1.2)x10.0, dir=0 (packed)
	.0 glyph 256 9 73 (8.12+0.44)x10.0
	E kern 1 -0.5pt (italic correction) 9 glue 0 0.0pt plus 0.4pt minus 0.4pt (kanjiskip)
	2 hlist 0 (8.8+1.2)x10.0, dir=0 (packed)
	.0 glyph 256 / 73 (7.83+0.38)x10.0 9 glue 0 0.0pt plus 0.4pt minus 0.4pt (kanjiskip)
	2 hlist 0 (8.8+1.2)x10.0, dir=0 (packed)
	.0 glyph 256 9 73 (8.12+0.44)x10.0 E kern 1 -0.09999pt (italic correction)
	9 glue 0 0.0pt plus 0.4pt minus 0.4pt (kanjiskip) 2 hlist 0 (8.8+1.2)x10.0, dir=0 (packed)
	.0 glyph 256 1 73 (8.08+0.42)x10.0
	E kern 1 -0.2pt (italic correction) 9 glue 0 0.0pt plus 0.4pt minus 0.4pt (kanjiskip)
	2 hlist 0 (8.8+1.2)x10.0, dir=0 (packed)
	.0 glyph 256 7 73 (8.19+0.44)x10.0 E kern 1 -0.7999pt (italic correction)
	9 glue 0 0.0pt plus 0.4pt minus 0.4pt (kanjiskip)
タノタイクノ	2 hlist 0 (8.8+1.2)x10.0, dir=0 (packed) .0 glyph 256 ノ 73 (7.83+0.38)x10.0
	D whatsit 44 userid:4 (direction) (node list) dir: 4 2 hlist 0 (8.8+1.2)x10.0, dir=0 (packed)
	.0 glyph 256 9 74 (8.12+0.44)x10.0
	9 glue 0 0.0pt plus 0.4pt minus 0.4pt (kanjiskip) 2 hlist 0 (8.8+1.2)x10.0, dir=0 (packed)
	.0 glyph 256 / 74 (7.83+0.38)x10.0
	9 glue 0 0.0pt plus 0.4pt minus 0.4pt (kanjiskip) 2 hlist 0 (8.8+1.2)x10.0, dir=0 (packed)
	.0 glyph 256 9 74 (8.12+0.44)x10.0
	9 glue 0 0.0pt plus 0.4pt minus 0.4pt (kanjiskip) 2 hlist 0 (8.8+1.2)x10.0, dir=0 (packed)
	.0 glyph 256 1 74 (8.08+0.42)x10.0 9 glue 0 0.0pt plus 0.4pt minus 0.4pt (kanjiskip)
	2 hlist 0 (8.8+1.2)x10.0, dir=0 (packed)
	.0 glyph 256 7 74 (8.19+0.44)x10.0 9 glue 0 0.0pt plus 0.4pt minus 0.4pt (kanjiskip)
タノタイクノ	2 hlist 0 (8.8+1.2)x10.0, dir=0 (packed) .0 glyph 256 / 74 (7.83+0.38)x10.0
メノブイソノ	D whatsit 44 userid:4 (direction) (node list) dir: 4
	2 hlist 0 (8.8+1.2)x10.0, dir=0 (packed) .0 glyph 256 タ 73 (8.12+0.44)x10.0
	E kern 1 0.0pt (italic correction)
	9 glue 0 0.0pt plus 0.4pt minus 0.4pt (kanjiskip) 2 hlist 0 (8.8+1.2)x10.0, dir=0 (packed)
タノ .	.0 glyph 256 / 73 (7.83+0.38)x10.0
	D whatsit 44 userid:4 (direction) (node list) dir: 4 2 hlist 0 (8.8+1.2)x10.0, dir=0 (packed)
	.0 glyph 256 , 73 (6.68+0.83)x10.0
	9 glue 0 0.0pt plus 0.4pt minus 0.4pt (kanjiskip) 2 hlist 0 (8.8+1.2)x10.0, dir=0 (packed)
	.0 glyph 256 73 (8.24+0.27)x10.0 3 penalty 0 10000 (for kinsoku)
	9 glue 0 0.0pt plus 0.4pt minus 0.4pt (kanjiskip)
ガ .	2 hlist 0 (8.8+1.2)x10.0, dir=0 (packed) .0 glyph 256 . 73 (1.35+0.0)x10.0
J 74.	0 JF= (/#4VIV