あ"あ・い 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

689-1

ほとんど欧文扱い. 2番は別 (「あ」) 和文扱いにもどる

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

```
JA-JA (pen なし)
                                                                                  F 1A glue 0 9.4pt plus 2.3pt minus 4.5pt 2 1A hlist 0(8.8+1.2)x10.0TLT (packed)
.8 1A glyph 256 $\overline{\sigma}$ 63 (0.0+0.0)x10.0
4 1A kern 1 20.0pt (from JFM)
2 1A hlist 0(8.8+1.2)x10.0TLT (packed)
.8 1A glyph 256 $\overline{\sigma}$ 63 (0.0+0.0)x10.0
F 23 glue 0 9.4pt plus 2.3pt minus 4.5pt
2 22 hlist 0(8.8+1.2)x10.0TLT (packed)
       あ
                             ア
                                                                                   2 23 hlist 0(8.8+1.2)x10.0TLT (packed)
.8 23 glyph 256 $\frac{1}{2}6$ (0.0+0.0)x10.0
5 23 kern 1 -14.1pt (from 'lineend' in JFM)
3 23 penalty 0 0 (for kinsoku)
                                                                                   6 23 glue 0 14.1pt plus 0.4pt minus 0.4pt (kanjiskip)
2 23 hlist 0(8.8+1.2)x10.0TLT (packed)
                                                                                   2 23 hlist 0(8.8+1.2)x10.0TLT (packed)
8 23 glyph 256 1 63 (0.0+0.0)x10.0
F 2E glue 0 9.4pt plus 2.3pt minus 4.5pt
2 2E hlist 0(8.8+1.2)x10.0TLT (packed)
8 2E glyph 256 あ 63 (0.0+0.0)x10.0
5 2E kern 1 -14.1pt (from 'lineend' in JFM)
3 2E penalty 0 0 (for kinsoku)
       あイ
                                                                                   4 2E glue 0 28.20001pt (from JFM)
2 2E hlist 0(8.8+1.2)x10.0TLT (packed)
                         ウ
       あ
                                                                                     .8 2E glyph 256 ウ 63 (0.0+0.0)x10.0
                                                                                   2 39 hlist 0(8.8+1.2)x10.0TLT (packed)
.8 39 glyph 256 ll 63 (0.0+0.0)x10.0
4 39 kern 1 20.0pt (from JFM)
2 39 hlist 0(8.8+1.2)x10.0TLT (packed)
.8 39 glyph 256 \mathcal{P} 63 (0.0+0.0)x10.0
L١
                       ァ
                                                                                   2 41 hlist 0(8.8+1.2)x10.0TLT (packed)

.8 41 glyph 256 b 63 (0.0+0.0)x10.0

6 41 glue 0 0.0pt plus 0.4pt minus 0.4pt (kanjiskip)

2 41 hlist 0(8.8+1.2)x10.0TLT (packed)
いイ
                                                                                    .8 41 glyph 256 1 63 (0.0+0.0)x10.0
                                                                                   2 49 hlist 0(8.8+1.2)x10.0TLT (packed)

.8 49 glyph 256 l 1 63 (0.0+0.0)x10.0

4 49 glue 0 14.1pt (from JFM)
                                                                                   2 49 hlist 0(8.8+1.2)x10.0TLT (packed)
.8 49 glyph 256 ウ 63 (0.0+0.0)x10.0
L١
                  ゥ
         JA-EN (pen なし)
                                                                                   F 52 glue 0 9.4pt plus 2.3pt minus 4.5pt 2 52 hlist 0(8.8+1.2)x10.0TLT (packed) .8 52 glyph 256 5 63 (0.0+0.0)x10.0
                                                                                   4 52 kern 1 12.1pt (from JFM)
8 52 glyph 256 a 62 (5.2002+0.03906)x5.49805
       あ
                       а
                                                                                    2 5A hlist 0(8.8+1.2)x10.0TLT (packed)
                                                                                     .8 5A glyph 256 1 63 (0.0+0.0)x10.0
7 5A glue 0 2.40553pt plus 1.0pt minus 1.0pt (xkanjiskip)
lla
                                                                                   8 5A glyph 256 a 62 (5.2002+0.03906)x5.49805
                                                                                   2 61 hlist 0(8.8+1.2)x10.0TLT (packed)
.8 61 glyph 256 \supset 63 (0.0+0.0)x10.0
                                                                                  .8 61 glyph 256 \hat{\supset} 63 (0.0+0.0)x10.0

5 61 kern 1 -14.1pt (from 'lineend' in JFM)

3 61 penalty 0 0 (for kinsoku)

4 61 glue 0 31.40001pt (from JFM)

8 61 glyph 256 a 62 (5.2002+0.03906)x5.49805

2 6A hlist 0(8.8+1.2)x10.0TLT (packed)

8 6A glyph 256 \hat{\land} 63 (0.0+0.0)x10.0

4 6A kern 1 17.3pt (from JFM)

8 6A glyph 256 a 62 (5.2002+0.03906)x5.49805

2 71 hlist 0(8.8+1.2)x10.0TLT (packed)
 う
                    а
え
                    а
                                                                                   2 71 hlist 0(8.8+1.2)x10.0TLT (packed)
.8 71 glyph 256 お 63 (0.0+0.0)x10.0
5 71 kern 1 -14.1pt (from 'lineend' in JFM)
                                                                                   3 71 penalty 0 0 (for kinsoku)
7 71 glue 0 16.50554pt plus 1.0pt minus 1.0pt (xkanjiskip)
おa
                                                                                   8 71 glyph 256 a 62 (5.2002+0.03906)x5.4980
          EN-JA (pen なし)
                                                                                   8 7B glyph 256 a 62 (5.2002+0.03906)x5.49805
3 7B penalty 0 0 (for kinsoku)
                                                                                   7 7B glue 0 2.40553pt plus 1.0pt minus 1.0pt (xkanjiskip) 2 7B hlist 0(8.8+1.2)x10.0TLT (packed)
aあ
                                                                                     .8 7B glyph 256 あ 63 (0.0+0.0)x10.0
                                                                                   8 83 glyph 256 a 62 (5.2002+0.03906)x5.49805
3 83 penalty 0 0 (for kinsoku)
                                                                                   4 83 glue 0 14.1pt (from JFM)
2 83 hlist 0(8.8+1.2)x10.0TLT (packed)
              L١
                                                                                    .8 83 glyph 256 11 63 (0.0+0.0)x10.0
                                                                                   8 8B glyph 256 a 62 (5.2002+0.03906)x5.49805

3 8B penalty 0 0 (for kinsoku)

4 8B kern 1 20.0pt (from JFM)

2 8B hlist 0(8.8+1.2)x10.0TLT (packed)
                   う
                                                                                    .8 8B glyph 256 5 63 (0.0+0.0)x10.0
а
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JA-明kern (penなし)
F 94 glue 0 9.4pt plus 2.3pt minus 4.5pt
                                                                                                                                   2 94 hlist 0(8.8+1.2)x10.0TLT (packed)
.8 94 glyph 256 あ 63 (0.0+0.0)x10.0
                                                                                                                                   4 94 kern 1 12.1pt (from JFM)
8 94 kern 1 3.0pt
           あ
                                                                                                                                    2 9C hlist 0(8.8+1.2)x10.0TLT (packed)
                                                                                                                                   .8 9C glyph 256 tl 63 (0.0+0.0)x10.0
8 9C kern 1 3.0pt
L١
                                                                                                                                    2 A4 hlist 0(8.8+1.2)x10.0TLT (packed)
                                                                                                                                    .8 A4 glyph 256 \supset 63 (0.0+0.0)x10.0
5 A4 kern 1 -14.1pt (from 'lineend' in JFM)
                                                                                                                                   3 A4 penalty 0 10000 (for kinsoku)
4 A4 glue 0 31.40001pt (from JFM)
 う
                                                                                                                                     8 A4 kern 1 3.0pt
               明 kern-JA (pen なし)
                                                                                                                                   8 AE kern 1 3.0pt

2 AE hlist 0(8.8+1.2)x10.0TLT (packed)

.8 AE glyph 256 $\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{
    あ
                    L١
                                                                                                                                       .8 B4 glyph 256 1 63 (0.0+0.0)x10.0
                                                                                                                                   4 BC kern 1 20.0pt (from JFM)
2 BC hlist 0(8.8+1.2)x10.0TLT (packed)
.8 BC glyph 256 3 63 (0.0+0.0)x10.0
                            う
               JA-hbox (pen なし)
                                                                                                                                  F C4 glue 0 9.4pt plus 2.3pt minus 4.5pt 2 C4 hlist 0(8.8+1.2)x10.0TLT (packed) .8 C4 glyph 256 あ 63 (0.0+0.0)x10.0 3 C4 penalty 0 0 (for kinsoku)
                                                                                                                                   8 C4 penalty 0 0 (107 kinsoku)
8 C4 hlist 2(0.0+0.0)x0.0TLT
2 CD hlist 0(8.8+1.2)x10.0TLT (packed)
.8 CD glyph 256 ll 63 (0.0+0.0)x10.0
3 CD penalty 0 0 (for kinsoku)
           あ
                                                                                                                                   3 CD penalty 0 0 (for kinsoku)
8 CD hlist 2(0.0+0.0)x0.OTLT
2 D4 hlist 0(8.8+1.2)x10.0TLT (packed)
.8 D4 glyph 256 \ni 63 (0.0+0.0)x10.0
5 D4 kern 1 -14.1pt (from 'lineend' in JFM)
3 D4 penalty 0 0 (for kinsoku)
4 D4 glue 0 31.40001pt (from JFM)
l١
う
                                                                                                                                    8 D4 hlist 2(0.0+0.0)x0.0TLT
                                                                                                                                   2 DD hlist 0(8.8+1.2)x10.0TLT (packed)
.8 DD glyph 256 え 63 (0.0+0.0)x10.0
                                                                                                                                  8 DD glyph 256 X. 63 (0.0+0.0)x10.0
3 DD penalty 0 0 (for kinsoku)
4 DD kern 1 17.3pt (from JFM)
8 DD hlist 2(0.0+0.0)x0.0TLT
F E6 glue 0 9.4pt plus 2.3pt minus 4.5pt
2 E6 hlist 0(8.8+1.2)x10.0TLT (packed)
8 E6 glyph 256 $\frac{1}{26}$ 6 (0.0+0.0)x10.0
4 E6 kern 1 12.1pt (from JFM)
8 E6 hlist 2(8.8+1.2)x10.0TLT
え
                                                                                                                                  8 E6 hlist 2(8.8+1.2)x10.0TLT

.2 E5 hlist 0(8.8+1.2)x10.0TLT (packed)

.8 E5 glyph 256 ア 63 (0.0+0.0)x10.0

F F1 glue 0 9.4pt plus 2.3pt minus 4.5pt

2 F1 hlist 0(8.8+1.2)x10.0TLT (packed)

.8 F1 glyph 256 あ 63 (0.0+0.0)x10.0

4 F1 kern 1 12.1pt (from JFM)

8 F1 hlist 2(5.2002+0.03906)x5.49805TLT
           あ
                                    ア
           ぁ
                                                                                                                                      .8 F0 glyph 256 a 62 (5.2002+0.03906)x5.49805
                                    а
                                                                                                                                   2 FB hlist 0(8.8+1.2)x10.0TLT (packed)

8 FB glyph 256 th 63 (0.0+0.0)x10.0

7 FB glue 0 2.40553pt plus 1.0pt minus 1.0pt (xkanjiskip)

8 FB hlist 2(5.2002+0.03906)x5.49805TLT
lla
                                                                                                                                      .8 FA glyph 256 a 62 (5.2002+0.03906)x5.49805
               hbox-JA (pen なし)
                                                                                                                                    8 104 hlist 2(0.0+0.0)x0.0TLT
                                                                                                                                     3 104 penalty 0 0 (for kinsoku)
                                                                                                                                   2 104 hlist 0(8.8+1.2)x10.0TLT (packed)
.8 104 glyph 256 あ 63 (0.0+0.0)x10.0
あ
                                                                                                                                     8 10B hlist 2(0.0+0.0)x0.0TLT
                                                                                                                                   3 10B penalty 0 0 (for kinsoku)
4 10B glue 0 14.1pt (from JFM)
                                                                                                                                   2 10B hlist 0(8.8+1.2)x10.0TLT (packed)
.8 10B glyph 256 ll 63 (0.0+0.0)x10.0
8 113 hlist 2(0.0+0.0)x0.0TLT
                L١
                                                                                                                                   3 113 penalty 0 0 (for kinsoku)
4 113 kern 1 20.0pt (from JFM)
2 113 hlist 0(8.8+1.2)x10.0TLT (packed)
.8 113 glyph 256 \supset 63 (0.0+0.0)x10.0
                        う
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JA-JA (pen あり)
                                                                                         F 11E glue 0 9.4pt plus 2.3pt minus 4.5pt
                                                                                        2 11E hlist 0(8.8+1.2)x10.0TLT (packed)
.8 11E glyph 256 5 63 (0.0+0.0)x10.0
                                                                                        4 11E kern 1 20.0pt (from JFM)
2 11E hlist 0(8.8+1.2)x10.0TLT (packed)
        あ
                               ァ
                                                                                          .8 11E glyph 256 ア 63 (0.0+0.0)x10.0
                                                                                        F 127 glue 0 9.4pt plus 2.3pt minus 4.5pt 2 127 hlist 0(8.8+1.2)x10.0TLT (packed)
                                                                                        2 127 hits (06.871.2/kit/Olf) (packed)
8 127 glyph 256 あ 63 (0.0+0.0)x10.0
5 127 kern 1 -14.1pt (from 'lineend' in JFM)
3 127 penalty 0 123 (for kinsoku)
6 127 glue 0 14.1pt plus 0.4pt minus 0.4pt (kanjiskip)
2 127 hitst 0(8.8+1.2)x10.0TLT (packed)
                                                                                        2 12. hist v(s.o+1.2/x10.01L1 (packed)

8 127 glyph 256 ↑ 63 (0.0+0.0)x10.0

F 132 glue 0 9.4pt plus 2.3pt minus 4.5pt

2 132 hlist 0(8.8+1.2)x10.0TLT (packed)

.8 132 glyph 256 ₺ 63 (0.0+0.0)x10.0
       あイ
                                                                                        1.0 152 glyph 256 00 65 (0.0+0.0)x10.0

3 132 penalty 0 123 (for kinsoku)

4 132 glue 0 28.20001pt (from JFM)

2 132 hlist 0(8.8+1.2)x10.0TLT (packed)

.8 132 glyph 256 0 63 (0.0+0.0)x10.0
                           ゥ
       あ
                                                                                        2 13D hlist 0(8.8+1.2)x10.0TLT (packed)

8 13D glyph 256 V 63 (0.0+0.0)x10.0

4 13D kern 1 20.0pt (from JFM)

2 13D hlist 0(8.8+1.2)x10.0TLT (packed)

.8 13D glyph 256 \mathcal{T} 63 (0.0+0.0)x10.0
                        ァ
L١
                                                                                         2 145 hlist 0(8.8+1.2)x10.0TLT (packed)
.8 145 glyph 256 | 1 63 (0.0+0.0)x10.0
                                                                                         3 145 penalty 0 123 (for kinsoku)
                                                                                        6 145 glue 0 0.0pt plus 0.4pt minus 0.4pt (kanjiskip) 2 145 hlist 0(8.8+1.2)x10.0TLT (packed)
いイ
                                                                                          .8 145 glyph 256 1 63 (0.0+0.0)x10.0
                                                                                        2 14E hlist 0(8.8+1.2)x10.0TLT (packed)
.8 14E glyph 256 \ \ \ \ \ 63 (0.0+0.0)x10.0
                                                                                        3 14E gryph 256 い 63 (0.040.0)x10.0
4 14E glue 0 14.1pt (from JFM)
2 14E hlist 0(8.8+1.2)x10.0TLT (packed)
.8 14E glyph 256 ウ 63 (0.0+0.0)x10.0
いゥ
          JA-EN (pen あり)
                                                                                        F 158 glue 0 9.4pt plus 2.3pt minus 4.5pt 2 158 hlist 0(8.8+1.2)x10.0TLT (packed)
                                                                                          .8 158 glyph 256 あ 63 (0.0+0.0)x10.0
                                                                                        4 158 kern 1 12.1pt (from JFM)
8 158 glyph 256 a 62 (5.2002+0.03906)x5.49805
       あ
                        а
                                                                                        2 160 hist 0(8.8+1.2)x10.0TLT (packed)
.8 160 glyph 256 ll 63 (0.0+0.0)x10.0
3 160 penalty 0 123 (for kinsoku)
                                                                                        7 160 glue 0 2.40553pt plus 1.0pt minus 1.0pt (xkanjiskip)

8 160 glyph 256 a 62 (5.2002+0.03906)x5.49805

2 168 hlist 0(8.8+1.2)x10.0TLT (packed)
lla
                                                                                        2 168 filst 0(8.841.2)XIU.ULI (packed)
8 168 glyph 256 \tilde{j} 63 (0.040.0)x10.0
5 168 kern 1 -14.1pt (from 'lineend' in JFM)
3 168 penalty 0 123 (for kinsoku)
4 168 glue 0 31.40001pt (from JFM)
8 168 glyph 256 a 62 (5.2002+0.03906)x5.49805
 う
                     а
                                                                                       8 168 glyph 256 a 62 (5.2002+0.03906)x5.49805

2 171 hlist 0(8.8+1.2)x10.0TLT (packed)

.8 171 glyph 256 \(\frac{7}{2}\) 63 (0.0+0.0)x10.0

4 171 kern 1 17.3pt (from JFM)

8 171 glyph 256 a 62 (5.2002+0.03906)x5.49805

2 178 hlist 0(8.8+1.2)x10.0TLT (packed)

.8 178 glyph 256 \(\frac{3}{2}\) 63 (0.0+0.0)x10.0

5 178 kern 1 -14.1pt (from 'lineend' in JFM)

3 178 penalty 0 123 (for kinsoku)

7 178 glup 0 16.50554pt plus 1.0pt minus 1.0pt
え
                     а
                                                                                        7 178 glue 0 16.50554pt plus 1.0pt minus 1.0pt (xkanjiskip)
8 178 glyph 256 a 62 (5.2002+0.03906)x5.49805
お a
           EN-JA (pen あり)
                                                                                        8 182 glyph 256 a 62 (5.2002+0.03906)x5.49805
3 182 penalty 0 321 (for kinsoku)
7 182 glue 0 2.40553pt plus 1.0pt minus 1.0pt (xkanjiskip)
2 182 hlist 0(8.8+1.2)x10.0TLT (packed)
                                                                                         .8 182 glyph 256 あ 63 (0.0+0.0)x10.0
aあ
                                                                                        8 18A glyph 256 a 62 (5.2002+0.03906)x5.49805
3 18A penalty 0 892 (for kinsoku)
4 18A glue 0 14.1pt (from JFM)
                                                                                        2 18A hlist 0(8.8+1.2)x10.0TLT (packed)
.8 18A glyph 256 | 1 63 (0.0+0.0)x10.0
               L١
                                                                                         8 192 glyph 256 a 62 (5.2002+0.03906)x5.49805
                                                                                        3 192 penalty 0 321 (for kinsoku)
4 192 kern 1 20.0pt (from JFM)
2 192 hlist 0(8.8+1.2)x10.0TLT (packed)
.8 192 glyph 256 5 63 (0.0+0.0)x10.0
                     う
а
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JA-hbox (pen あり)
                                                                                                              F 19C glue 0 9.4pt plus 2.3pt minus 4.5pt 2 19C hlist 0(8.8+1.2)x10.0TLT (packed) .8 19C glyph 256 あ 63 (0.0+0.0)x10.0
                                                                                                              4 19C kern 1 12.1pt (from JFM)
8 19C hlist 2(8.8+1.2)x10.0TLT
                                                                                                              8 19C hlist 2(8.8+1.2)x10.0TLT (packed)
... 2 19B hlist 0(8.8+1.2)x10.0TLT (packed)
... 8 19B glyph 256 ア 63 (0.0+0.0)x10.0
F 1A7 glue 0 9.4pt plus 2.3pt minus 4.5pt
2 1A7 hlist 0(8.8+1.2)x10.0TLT (packed)
... 8 1A7 glyph 256 あ 63 (0.0+0.0)x10.0
4 1A7 kern 1 12.1pt (from JFM)
8 1A7 hlist 2(5.2002+0.03906)x5.49805TLT
          あ
                               ア
          あ
                                                                                                                 .8 1A6 glyph 256 a 62 (5.2002+0.03906)x5.49805
                              а
                                                                                                              2 1B3 hlist 0(8.8+1.2)x10.0TLT (packed)
.8 1B3 glyph 256 t) 63 (0.0+0.0)x10.0
3 1B3 penalty 0 123 (for kinsoku)
7 1B3 glue 0 2.40553pt plus 1.0pt minus 1.0pt (xkanjiskip)
8 1B3 hlist 2(5.2002+0.03906)x5.49805TLT
                                                                                                             8 183 hlist 2(5.2002+0.03906)x5.49805TLT
.8 182 glyph 256 a 62 (5.2002+0.03906)x5.49805
8 18E hlist 2(8.8+1.2)x10.0TLT (packed)
..8 18C glyph 256 ( 63 (0.0+0.0)x10.0
3 18E penalty 0 571 (for kinsoku)
4 18E glue 0 14.1pt (from JFM)
2 18E hlist 0(8.8+1.2)x10.0TLT (packed)
.8 18E glyph 256 l 63 (0.0+0.0)x10.0
3 18E penalty 0 123 (for kinsoku)
6 18E glue 0 0.0pt plus 0.4pt minus 0.4pt (kanjiskip)
8 18E hlist 2(8.8+1.2)x10.0TLT
2 18D hlist 0(8.8+1.2)x10.0TLT
l1a
                                                                                                                .2 1BD hlist 0(8.8+1.2)x10.0TLT (packed)
                (I)
   (
                                                                                                                 ..8 1BD glyph 256 ) 63 (0.0+0.0)x10.0
             italic correction
                                                                                                              8 1CE glyph 256 f 37 (6.94444+1.94444)x3.06665
9 1CE kern 1 2.11945pt (italic correction)
3 1CE penalty 0 123 (for kinsoku)
4 1CE glue 0 5.0pt minus 5.0pt (from JFM)
2 1CE hlist 0(8.8+1.2)x5.0TLT (packed)
                                                                                                              2 1CE hlist 0(8.8+1.2)x5.0TLT (packed)
.0 0 kern 0 -0.09766pt
.8 1CE glyph 256 ( 60 (8.32031+0.71777)x5.09766
9 1CE kern 1 0.0pt (italic correction)
3 1CE penalty 0 10000 (for kinsoku)
6 1CE glue 0 0.0pt plus 0.4pt minus 0.4pt (kanjiskip)
2 1CE hlist 0(8.8+1.2)x10.0TLT (packed)
                                                                                                                 .8 1CE glyph 256 あ 60 (8.11035+0.36133)x8.99902
f (\delta
                                                                                                                 .0 0 kern 0 1.00098pt
```

[x]kanjiskip の挿入

[] 5 1	
kaniiskin from	JFM, autospacing (JA–JA)
Kanjiskip ironi e	2 1E2 hlist 0(8.8+1.2)x10.0TLT (packed)
	.8 1E2 glyph 256 あ 60 (8.11035+0.36133)x8.99902
	.0 0 kern 0 1.00098pt
	6 1E2 glue 0 0.0pt plus 0.4pt minus 0.4pt (kanjiskip) 2 1E2 hlist 0(8.8+1.2)x10.0TLT (packed)
あ あ	.8 1E2 glyph 256 5 63 (0.0+0.0)x10.0
4.5 6.5	2 1EB hlist 0(8.8+1.2)x10.0TLT (packed)
	.8 1EB glyph 256 あ 60 (8.11035+0.36133)x8.99902
	.0 0 kern 0 1.00098pt
	6 1EB glue 0 0.0pt (kanjiskip) 2 1EB hlist 0(8.8+1.2)x10.0TLT (packed)
あ あ	.8 1EB glyph 256 あ 63 (0.0+0.0)x10.0
	8 1F3 glyph 256 は 66 (10.56+1.44)x12.0
	6 1F3 glue 0 0.0pt (kanjiskip)
はあ	2 1F3 hlist 0(8.8+1.2)x10.0TLT (packed) .8 1F3 glyph 256 あ 63 (0.0+0.0)x10.0
1400	2 1FB hlist 0(8.8+1.2)x10.0TLT (packed)
	.8 1FB glyph 256 あ 60 (8.11035+0.36133)x8.99902
	.0 0 kern 0 1.00098pt
	6 1FB glue 0 0.0pt plus 0.4pt minus 0.4pt (kanjiskip)
	2 1FB hlist 0(8.8+1.2)x10.0TLT (packed) .8 1FB glyph 256 5 60 (8.11035+0.36133)x8.99902
	.0 0 kern 0 1.00098pt
	6 1FB glue 0 0.0pt (kanjiskip)
	2 1FB hlist 0(8.8+1.2)x10.0TLT (packed) .8 1FB glyph 256 5 60 (8.11035+0.36133)x8.99902
あああ	.0 0 kern 0 1.00098pt
kaniiskip from .	JFM/autoxspacing (JA-EN)
3 1	2 20A hlist 0(8.8+1.2)x10.0TLT (packed)
	.8 20A glyph 256 ま 63 (0.0+0.0)x10.0
ŧх	7 20A glue 0 2.40553pt plus 1.0pt minus 1.0pt (xkanjiskip) 8 20A glyph 256 x 62 (5.07813+0.0)x4.8877
& ^	2 211 hlist 0(8.8+1.2)x10.0TLT (packed)
	.8 211 glyph 256 ま 63 (0.0+0.0)x10.0
ま x	7 211 glue 0 2.40553pt plus 1.0pt minus 1.0pt (xkanjiskip) 8 211 glyph 256 x 62 (5.07813+0.0)x4.8877
& X	2 218 hlist 0(8.8+1.2)x10.0TLT (packed)
	.8 218 glyph 256 ま 63 (0.0+0.0)x10.0
±.,	7 218 glue 0 0.0pt (xkanjiskip)
まx	8 218 glyph 256 x 62 (5.07813+0.0)x4.8877 2 21F hlist 0(8.8+1.2)x10.0TLT (packed)
	.8 21F glyph 256 ま 63 (0.0+0.0)x10.0
ŧ x	7 21F glue 0 3.1pt plus 0.45pt minus 0.57pt (xkanjiskip)
æ x	8 21F glyph 256 x 62 (5.07813+0.0)x4.8877 2 226 hlist 0(8.8+1.2)x10.0TLT (packed)
	.8 226 glyph 256 ま 63 (0.0+0.0)x10.0
+	7 226 glue 0 0.0pt (xkanjiskip)
まx	8 226 glyph 256 x 62 (5.07813+0.0)x4.8877
	2 22C hlist 0(8.8+1.2)x10.0TLT (packed) .8 22C glyph 256 ま 63 (0.0+0.0)x10.0
	7 22C glue 0 0.0pt (xkanjiskip)
まx	8 22C glyph 256 x 62 (5.07813+0.0)x4.8877
xkanjiskip from	JFM/autoxspacing (EN-JA)
	8 235 glyph 256 x 62 (5.07813+0.0)x4.8877 3 235 penalty 0 0 (for kinsoku)
	7 235 glue 0 2.40553pt plus 1.0pt minus 1.0pt (xkanjiskip)
	2 235 hlist 0(8.8+1.2)x10.0TLT (packed)
хま	.8 235 glyph 256 ま 63 (0.0+0.0)x10.0
	8 23D glyph 256 x 62 (5.07813+0.0)x4.8877 3 23D penalty 0 0 (for kinsoku)
	7 23D glue 0 2.40553pt plus 1.0pt minus 1.0pt (xkanjiskip)
+	2 23D hlist 0(8.8+1.2)x10.0TLT (packed)
хま	
	3 245 penalty 0 0 (for kinsoku)
	7 245 glue 0 0.0pt (xkanjiskip)
xŧ	2 245 hlist 0(8.8+1.2)x10.0TLT (packed) .8 245 glyph 256 ま 63 (0.0+0.0)x10.0
7.5	8 24D glyph 256 x 62 (5.07813+0.0)x4.8877
	3 24D penalty 0 0 (for kinsoku)
	7 24D glue 0 3.1pt plus 0.45pt minus 0.57pt (xkanjiskip) 2 24D hlist 0(8.8+1.2)x10.0TLT (packed)
x ま	.8 24D glyph 256 \$ 63 (0.0+0.0)x10.0
	8 255 glyph 256 x 62 (5.07813+0.0)x4.8877
	3 255 penalty 0 0 (for kinsoku)
	7 255 glue 0 0.0pt (xkanjiskip) 2 255 hlist 0(8.8+1.2)x10.0TLT (packed)
xま	.8 255 glyph 256 ま 63 (0.0+0.0)x10.0

```
8 25C glyph 256 x 62 (5.07813+0.0)x4.8877
3 25C penalty 0 0 (for kinsoku)
                                                                                 7 25C glue 0 0.0pt (xkanjiskip)
2 25C hlist 0(8.8+1.2)x10.0TLT (packed)
                                                                                 2 250 filst 0(8.8+1.2)x10.01E1 (packed)
8 25C glue 0 0.0pt plus 0.4pt minus 0.4pt (kanjiskip)
2 25C blist 0(8.8+1.2)x10.0TET (packed)
8 25C glyph 256 $\frac{1}{3}$ 63 (0.0+0.0)x10.0
5 25C kern 1 -14.1pt (from 'lineend' in JFM)
3 25C penalty 0 0 (for kinsoku)
2 5C 0.0 0.44 (klorisicki)
                                                                                 7 25C glue 0 14.1pt (xkanjiskip)
8 25C glyph 256 x 62 (5.07813+0.0)x4.8877
xまおx
         more than one penalty
                                                                                2 26F hlist 0(8.8+1.2)x10.0TLT (packed)
2 26F glyph 256 $\frac{1}{2}6$ (0.0+0.0)x10.0
5 26F kern 1 -14.1pt (from 'lineend' in JFM)
8 26F penalty 0 1701
8 26F penalty 0 1701
8 26F penalty 0 1701
6 26F glue 0 14.1pt plus 0.4pt minus 0.4pt (kanjiskip)
2 26F hlist 0(8.8+1.2)x10.0TLT (packed)
おい
                                                                                 2 27A hlist 0(8.8+1.2)x10.0TLT (packed)
                                                                                 .8 27A glyph 256 $\displays 63 (0.0+0.0)x10.0 
5 27A kern 1 -14.1pt (from 'lineend' in JFM)
                                                                                  8 27A penalty 0 1701
                                                                                 8 27A penalty 0 1701
8 27A penalty 0 1701
                                                                                 6 27A glue 0 14.1pt plus 0.4pt minus 0.4pt (kanjiskip)
2 27A hlist 0(8.8+1.2)x10.0TLT (packed)
おお
                                                                                   .8 27A glyph 256 お 63 (0.0+0.0)x10.0
                                                                                 F 286 glue 0 9.4pt plus 2.3pt minus 4.5pt 2 286 hlist 0(8.8+1.2)x10.0TLT (packed)
                                                                                 .8 286 glyph 256 あ 63 (0.0+0.0)x10.0
5 286 kern 1 -14.1pt (from 'lineend' in JFM)
                                                                                 8 286 penalty 0 1701
8 286 penalty 0 1701
8 286 penalty 0 1701
8 286 glue 0 14.1pt plus 0.4pt minus 0.4pt (kanjiskip)
2 286 hlist 0(8.8+1.2)x10.0TLT (packed)
       あい
                                                                                    .8 286 glyph 256 l\ 63 (0.0+0.0)x10.0
                                                                                 F 293 glue 0 9.4pt plus 2.3pt minus 4.5pt
2 293 hlist 0(8.8+1.2)x10.0TLT (packed)
.8 293 glyph 256 あ 63 (0.0+0.0)x10.0
5 293 kern 1 -14.1pt (from 'lineend' in JFM)
                                                                                 あお
          その他: italic correction and accents
                                                                                 2 2A2 hlist 0(8.8+1.2)x10.0TLT (packed)
.8 2A2 glyph 256 あ 60 (8.11035+0.36133)x8.99902
                                                                                 .0 0 kern 0 1.00098pt
9 2A2 kern 1 0.0pt (italic correction)
                                                                                 7 2A2 glue 0 2.40553pt plus 1.0pt minus 1.0pt (xkanjiskip)
8 2A2 glyph 256 j 1 (6.67859+1.94444)x3.05557
あj
                                                                                 2 2AA hlist 0(8.8+1.2)x10.0TLT (packed)
.8 2AA glyph 256 h 63 (0.0+0.0)x10.0
                                                                                 7 2AA glue 0 2.40553pt plus 1.0pt minus 1.0pt (xkanjiskip)
8 2AA kern 2 1.25pt (for accent)
                                                                                8 2AA kern 2 1.25pt (for accent)
8 2AA hlist 0(6.28473+0.0)x5.00002TLT, shifted -2.52777
.0 0 glyph 0 ~ 1 (6.28473+0.0)x5.00002
8 2AA kern 2 -6.25002pt (for accent)
8 2AA glyph 256 A 1 (6.83331+0.0)x7.50002
3 2AA penalty 0 10000 (for kinsoku)
7 2AA glue 0 0.0pt (xkanjiskip)
2 2AA hlist 0(8.8+1.2)x10.0TLT (packed)
8 2AA glyph 256 0.3 (0.0+0.0x10.0)
れĂ)
                                                                                   .8 2AA glyph 256 ) 63 (0.0+0.0)x10.0
         その他: box boundary

F 2BB glue 0 10.3pt
2 2BB hlist 0(8.8+1.2)x10.0TLT (packed)

- つわっていから 63 (0.0+0.0)x10.0
                                                                                2 2BB hlist 0(8.8+1.2)x10.0TLT (packed)
.8 2BB gluph 256 か 63 (0.0+0.0)x10.0
6 2BB glue 0 0.0pt plus 0.4pt minus 0.4pt (kanjiskip)
2 2BB hlist 0(8.8+1.2)x10.0TLT (packed)
.8 2BB glyph 256 あ 63 (0.0+0.0)x10.0
5 2BB kern 1 -14.1pt (from 'lineend' in JFM)
3 2BB penalty 0 0 (for kinsoku)
6 2BB glue 0 14.1pt plus 0.4pt minus 0.4pt (kanjiskip)
2 2BB hlist 0(8.8+1.2)x10.0TLT (packed)
.8 2BB glyph 256 か 63 (0.0+0.0)x10.0
F 2BB kern 1 8.5pt
        かあか
                                                                                  F 2BB kern 1 8.5pt
```

```
8 2CA glyph 256 a 62 (5.2002+0.03906)x5.49805
3 2CA penalty 0 0 (for kinsoku)
7 2CA glue 0 2.40553pt plus 1.0pt minus 1.0pt (xkanjiskip)
2 2CA hlist 0(8.8+1.2)x10.0TLT (packed)
                                                                                                22 2ch hilst (08.841.2)x10.01hl packed)
8 2CS glyph 256 か 63 (0.0+0.0)x10.0
6 2CA glue 0 0.0pt plus 0.4pt minus 0.4pt (kanjiskip)
2 2CA hlist (08.8+1.2)x10.0TLT (packed)
8 2C9 glyph 256 あ 63 (0.0+0.0)x10.0
5 2CA kern 1 -14.1pt (from 'lineend' in JFM)
3 2CA penalty 0 0 (for kinsoku)
                                                                                                 7 2CA glue 0 2.40553pt plus 1.0pt minus 1.0pt (xkanjiskip) 8 2CA glyph 256 a 62 (5.2002+0.03906)x5.49805
a かあか a
                                                                                                8 2CA glyph 256 a 62 (5.2002+0.03906)x5.49805
8 2DD glyph 256 a 62 (5.2002+0.03906)x5.49805
8 2DD hlist 2(8.8+1.2)x28.8TLT

.F 2DC glue 0 10.3pt
.2 2DC hlist 0(8.8+1.2)x10.0TLT (packed)
.8 2DC glyph 256 $\delta$ 63 (0.0+0.0)x10.0

.F 2DC kern 1 8.5pt
8 2DD glyph 256 a 62 (5.2002+0.03906)x5.49805
2 2EB hlist 0(8.8+1.2)x10.0TLT (packed)
8 2EB glyph 256 63 (0.0+0.0)x10.0
a か a
                                                                                                8 2EB glyph 256 き 63 (0.0+0.0)x10.0
3 2EB penalty 0 0 (for kinsoku)
8 2EB hlist 2(8.8+1.2)x28.8TLT
                                                                                                  .F 2E9 glue 0 10.3pt
.2 2E9 hlist 0(8.8+1.2)x10.0TLT (packed)
                                                                                                  ..8 2E9 glyph 256 か 63 (0.0+0.0)x10.0
.F 2E9 kern 1 8.5pt
                                                                                                1.7 2E9 Kern 1 8.5pt
3 2EB penalty 0 0 (for kinsoku)
2 2EB hlist 0(8.8+1.2)x10.0TLT (packed)
.8 2EB glyph 256 き 63 (0.0+0.0)x10.0
6 2EB glue 0 0.0pt plus 0.4pt minus 0.4pt (kanjiskip)
8 2EB hlist 2(8.8+1.2)x10.0TLT
                                                                                                  .2 2EA hlist 0(8.8+1.2)x10.0TLT (packed)
..8 2EA glyph 256 き 63 (0.0+0.0)x10.0
                                                                                                6 2EB glue 0 0.0pt plus 0.4pt minus 0.4pt (kanjiskip)
2 2EB hlist 0(8.8+1.2)x10.0TLT (packed)
.8 2EB glyph 256 ★ 63 (0.0+0.0)x10.0
き か ききき
                                                                                                2 303 hlist 0(8.8+1.2)x10.0TLT (packed)
.8 303 glyph 256 あ 60 (8.11035+0.36133)x8.99902
                                                                                                .0 0 kern 0 1.00098pt
3 303 penalty 0 1000 (for kinsoku)
                                                                                                8 303 hlist 2(8.8+1.2)x5.0TLT
                                                                                                  .2 301 hlist 0(8.8+1.2)x5.0TLT (packed)
                                                                                                .2 301 hist 0(8.8+1.27b.01L1 (packed)

.0 0 kern 0 -0.09766pt

.8 301 glyph 256 ( 60 (8.32031+0.71777)x5.09766

3 303 penalty 0 1000 (for kinsoku)

6 303 glue 0 0.0pt plus 0.4pt minus 0.4pt (kanjiskip)

2 303 hist 0(8.8+1.2)x10.0TLT (packed)

.8 303 glyph 256 $\frac{1}{26}$ 60 (8.11035+0.36133)x8.99902
                                                                                                .8 303 glyph 256 56 60 (8.11035+0.36133)x8.99902

.0 0 kern 0 1.00098pt

.3 303 penalty 0 1000 (for kinsoku)

4 303 glue 0 5.0pt minus 5.0pt (from JFM)

2 303 hlist 0(8.8+1.2)x5.0TLT (packed)

.0 0 kern 0 -0.09766pt

.8 302 glyph 256 ( 60 (8.32031+0.71777)x5.09766

3 303 penalty 0 10000 (for kinsoku)
                                                                                                 6 303 glue 0 0.0pt plus 0.4pt minus 0.4pt (kanjiskip)
2 303 hlist 0(8.8+1.2)x10.0TLT (packed)
.8 303 glyph 256 あ 60 (8.11035+0.36133)x8.99902
あ(あ(あ
                                                                                                   .0 0 kern 0 1.00098pt
```

8

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paragraph, hbox and math boundary $^{0.0\ \text{whatsit}\ 6\ \text{subtype:}\ 66}$\\ {}^{0.0\ \text{hlist}\ 3(0.0+0.0)\text{x19.2TLT}}
                                                                                                                        か
                                                                 I
                                                                                                                          0 0 glue 9 0.0pt
                                                                                                                         0 0 whatsit 6 subtype: 66
F 330 glue 0 10.3pt
                                                                                                                         2 330 hlist 0(8.8+1.2)x10.0TLT (packed)

.8 330 glyph 256 か 63 (0.0+0.0)x10.0

3 330 penalty 0 500 (for kinsoku)
                                                                                                                         6 330 glue 0 0.0pt plus 0.4pt minus 0.4pt (kanjiskip) 2 330 hlist 0(8.8+1.2)x10.0TLT (packed)
                                                                                                                          .8 330 glyph 256 I 63 (0.0+0.0)x10.0
8 330 penalty 0 10000
                                                                                                                          0 0 glue 15 30.0pt
                                                                                                                         0 0 glue 15 30.0pt

0 0 glue 9 0.0pt

F 33E glue 0 10.3pt

2 33E hlist 0(8.8+1.2)x10.0TLT (packed)

.8 33E glyph 256 $\hbegin{array}{c} \hbegin{array}{c} \h
            か
                                                                 エ
                                                                                                                          6 33E glue 0 0.0pt plus 0.4pt minus 0.4pt (kanjiskip) 2 33E hlist 0(8.8+1.2)x10.0TLT (packed)
                                                                                                                         2 33E hlist 0(8.8+1.2)x10.0TLT (packed)

8 33E glyph 256 T 63 (0.0+0.0)x10.0

F 33E glue 0 7.8pt

F 348 glue 0 9.4pt plus 2.3pt minus 4.5pt

2 348 hlist 0(8.8+1.2)x10.0TLT (packed)

8 348 glyph 256 $\frac{5}{6}$ 63 (0.0+0.0)x10.0

5 348 kern 1 -14.1pt (from 'lineend' in JFM)

3 348 penalty 0 0 (for kinsoku)
            かエ
                                                                                                                         4 348 glue 0 26.6pt plus 4.3pt minus 8.7pt (from JFM) 8 348 math 0
                                                                                                                          8 348 glyph 256 a 7 (4.30554+0.0)x5.28589
                                                                                                                         8 348 math 1
3 348 penalty 0 0 (for kinsoku)
                                                                                                                          4 348 glue 0 6.8pt plus 0.2pt minus 0.4pt (from JFM) 2 348 hlist 0(8.8+1.2)x10.0TLT (packed)
                                                                                                                           8 348 gluph 256 さ 63 (0.0+0.0)x10.0
7 348 glue 0 2.40553pt plus 1.0pt minus 1.0pt (xkanjiskip)
                                                                                                                          8 348 math 0
                                                                                                                         8 348 glyph 256 a 7 (4.30554+0.0)x5.28589
8 348 math 1
                                                                                                                          3 348 penalty 0 0 (for kinsoku)
                                                                                                                         3 348 glue 0 2.40553pt plus 1.0pt minus 1.0pt (xkanjiskip) 2 348 hlist 0(8.8+1.2)x10.0TLT (packed) .8 348 glyph 256 ħ 63 (0.0+0.0)x10.0
                         a さaか
                                                                                                                           F 348 kern 1 8.5pt
               2 364 filst 0(8.4675+1.15466)x4.811081L1 (packed)

.8 362 glyph 256 ) 51 (8.4675+1.15466)x9.62216

.0 0 kern 0 -4.81108pt

4 364 glue 0 4.81108pt minus 4.81108pt (from JFM)

8 364 glyph 512 a 62 (5.2002+0.03906)x5.49805
   ) a
                                                                                                                           2 36F hlist 0(8.4675+1.15466)x4.81108TLT (packed)
                                                                                                                           .8 36C glyph 256 ) 51 (8.4675+1.15466)x9.62216
.0 0 kern 0 -4.81108pt
                                                                                                                         4 36F glue 0 4.81108pt minus 4.81108pt (from JFM) 8 36F glyph 512 a 62 (5.2002+0.03906)x5.49805
   ) a
```