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2番の文字範囲なので、和文扱いのはず iso8859-1 和文扱い:0 \S ¶ $^{\circ}$ £ \S $^{\circ}$ iso8859-1 欧文扱い:1 \S ¶ $^{\circ}$ £ \S $^{\circ}$

文字範囲の状況取得

010

文字コード 文字範囲

217 1 2 -1

ほとんど欧文扱い. 2番は別(「あ」) 和文扱いにもどる

Ticket #25121

あがか き く け ごはを 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 glue 0 9.4pt plus 2.3pt minus 4.5pt 8 glyph 256 あ 63
4 kern 1 20.0pt (from JFM)
8 glyph 256 プ 63
F glue 0 9.4pt plus 2.3pt minus 4.5pt
8 glyph 256 あ 63
      あ
                        ア
                                                                      5 kern 1 -14.1pt (from 'lineend' in JFM)
3 penalty 0 0 (for kinsoku)
                                                                       6 glue 0 14.1pt plus 0.4pt minus 0.4pt (kanjiskip)
                                                                      8 glyph 256 f 63
F glue 0 9.4pt plus 2.3pt minus 4.5pt
8 glyph 256 あ 63
5 kern 1 -14.1pt (from 'lineend' in JFM)
      あイ
                                                                      3 penalty 0 0 (for kinsoku)
4 glue 0 28.20001pt (from JFM)
                     ウ
                                                                         glyph 256 ウ 63
glyph 256 い 63
      あ
                                                                      8 glyph 256 V1 63
4 kern 1 20.0pt (from JFM)
8 glyph 256 V 63
8 glyph 256 V1 63
6 glue 0 0.0pt plus 0.4pt minus 0.4pt (kanjiskip)
L١
                  ァ
いイ
                                                                      8 glyph 256 1 63
8 glyph 256 1 63
                                                                      4 glue 0 14.1pt (from JFM)
8 glyph 256 ウ 63
いゥ
       JA-EN (pen なし)
                                                                      F glue 0 9.4pt plus 2.3pt minus 4.5pt
8 glyph 256 あ 63
4 kern 1 12.1pt (from JFM)
                                                                      8 glyph 256 a 62
8 glyph 256 l/ 63
7 glue 0 2.40065pt plus 1.0pt minus 1.0pt (xkanjiskip)
      あ
                   а
                                                                      7 glue 0 2.40065pt plus 1.0pt minus 1.0pt
8 glyph 256 a 62
8 glyph 256 5 63
5 kern 1 -14.1pt (from 'lineend' in JFM)
3 penalty 0 0 (for kinsoku)
4 glue 0 31.40001pt (from JFM)
l1a
                                                                     4 glue 0 31.40001pt (from JFM)
8 glyph 256 a 62
8 glyph 256 え 63
4 kern 1 17.3pt (from JFM)
8 glyph 256 a 62
8 glyph 256 奇 63
5 kern 1 -14.1pt (from 'lineend' in JFM)
3 penalty 0 0 (for kinsoku)
7 glue 0 16.50066pt plus 1.0pt minus 1.0pt (xkanjiskip)
う
                 а
え
                 а
おa
                                                                      8 glyph 256 a 62
        EN-JA (pen なし)
                                                                      8 glyph 256 a 62
7 glue 0 2.40065pt plus 1.0pt minus 1.0pt (xkanjiskip)
aあ
                                                                         glyph 256 あ 63
glyph 256 a 62
                                                                      8 glyph 256 a 62
4 glue 0 14.ipt (from JFM)
8 glyph 256 l 163
8 glyph 256 a 62
4 kern 1 20.0pt (from JFM)
8 glyph 256 3 63
           L١
а
                う
а
        JA-明 kern (pen なし)
                                                                      7)
F glue 0 9.4pt plus 2.3pt minus 4.5pt
8 glyph 256 あ 63
4 kern 1 12.1pt (from JFM)
                                                                      8 kern 1 3.0pt
8 glyph 256 1 63
8 kern 1 3.0pt
8 glyph 256 5 63
      あ
L١
                                                                      5 kern 1 -14.1pt (from 'lineend' in JFM)
3 penalty 0 10000 (for kinsoku)
                                                                       4 glue 0 31.40001pt (from JFM)
う
                                                                      8 kern 1 3.0pt
        明 kern-JA (pen なし)
                                                                     3 kern 1 3.0pt

8 glyph 256 あ 63

8 kern 1 3.0pt

3 penalty 0 10000 (for kinsoku)

4 glue 0 14.1pt (from JFM)

8 glyph 256 い 63

8 kern 1 3.0pt
  あ
          L١
                                                                      4 kern 1 20.0pt (from JFM)
8 glyph 256 5 63
              う
```

JA-hbox (pen なし) F glue 0 9.4pt plus 2.3pt minus 4.5pt 8 glyph 256 あ 63 3 penalty 0 0 (for kinsoku) 4 kern 1 12.1pt (from JFM) 8 hlist 2(0.0+0.0)x0.0 8 glyph 256 10 63 3 penalty 0 0 (for kinsoku) 4 klist 2(0.0+0.0)x0.0 8 glyph 256 7 63 5 kern 1 -14.1pt (from JFM) 3 penalty 0 0 (for kinsoku) 4 glue 0 31.40001pt (from JFM) 8 hlist 2(0.0+0.0)x0.0 8 glyph 256 ₹ 63 3 penalty 0 0 (for kinsoku) 4 kern 1 17.3pt (from JFM) 8 hlist 2(0.0+0.0)x0.0 8 glyph 256 ₹ 63 3 penalty 0 0 (for kinsoku) 4 kern 1 17.3pt (from JFM) 8 hlist 2(0.0+0.0)x0.0 0 3 penalty 0 0 (for kinsoku) 4 kern 1 (from JFM) 8 hlist 2(0.0+0.0)x0.0 0 3 penalty 0 0 (for kinsoku) 4 glue 0 14.1pt (from JFM) 8 glyph 256 ₹ 63 8 hlist 2(0.0+0.0)x0.0 3 penalty 0 0 (for kinsoku) 4 kern 1 20.0pt (from JFM) 8 glyph 256 ₹ 63 8 hlist 2(0.0+0.0)x0.0 3 penalty 0 0 (for kinsoku) 4 kern 1 20.0pt (from JFM) 8 glyph 256 ₹ 63

```
JA-JA (pen あり)
                                                                                                                                     F glue 0 9.4pt plus 2.3pt minus 4.5pt
8 glyph 256 あ 63
4 kern 1 20.0pt (from JFM)
8 glyph 256 プ 63
F glue 0 9.4pt plus 2.3pt minus 4.5pt
            あ
                                               ア
                                                                                                                                     8 glyph 256 あ 63
5 kern 1 -14.1pt (from 'lineend' in JFM)
                                                                                                                                    5 kern 1 -14.1pt (from 'lineend' in JFM)
3 penalty 0 123 (for kinsoku)
6 glue 0 14.1pt plus 0.4pt minus 0.4pt (kanjiskip)
8 glyph 256 1 63
F glue 0 9.4pt plus 2.3pt minus 4.5pt
8 glyph 256 あ 63
5 kern 1 -14.1pt (from 'lineend' in JFM)
3 penalty 0 123 (for kinsoku)
4 glue 0 28.20001pt (from JFM)
8 glyph 256 カ 63
            あイ
                                                                                                                                      8 glyph 256 ウ 63
8 glyph 256 い 63
            あ
                                        ゥ
                                                                                                                                     8 glyph 256 7 63
8 glyph 256 7 63
8 glyph 256 1 63
3 penalty 0 123 (for kinsoku)
l١
                                     ァ
                                                                                                                                      8 glue 0 0.0pt plus 0.4pt minus 0.4pt (kanjiskip)
8 glyph 256 1 63
8 glyph 256 l 63
いイ
                                                                                                                                     3 penalty 0 123 (for kinsoku)
4 glue 0 14.1pt (from JFM)
8 glyph 256 ウ 63
L١
                            ゥ
                JA-EN (pen あり)
                                                                                                                                     F glue 0 9.4pt plus 2.3pt minus 4.5pt 8 glyph 256 あ 63
                                                                                                                                      4 kern 1 12.1pt (from JFM)
            あ
                                                                                                                                     8 glyph 256 a 62
8 glyph 256 l 1 63
3 penalty 0 123 (for kinsoku)
                                     а
                                                                                                                                      8 glyph 256 3 62
8 glyph 256 3 63
5 kern 1 -14.1pt (from 'lineend' in JFM)
lla.
                                                                                                                                     3 penalty 0 123 (for kinsoku)
4 glue 0 31.40001pt (from JFM)
 う
                                 а
                                                                                                                                     8 glyph 256 % 63
4 kern 1 17.3pt (from JFM)
8 glyph 256 a 62
8 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{\o
 え
                                 а
おa
                                                                                                                                      8 glyph 256 a 62
                EN-JA (pen あり)
                                                                                                                                      8 glyph 256 a 62
                                                                                                                                      3 penalty 0 321 (for kinsoku)
7 glue 0 2.40065pt plus 1.0pt minus 1.0pt (xkanjiskip)
aあ
                                                                                                                                      8 glyph 256 あ 63
8 glyph 256 a 62
                                                                                                                                     8 glypn 256 a 62
3 penalty 0 321 (for kinsoku)
4 glue 0 14.1pt (from JFM)
8 glyph 256 ll 63
8 glyph 256 a 62
                       11
а
                                                                                                                                     4 kern 1 20.0pt (from JFM)
8 glyph 256 3 63
                               う
а
               italic correction
                                                                                                                                      8 glyph 256 f 37
                                                                                                                                    8 glypn 256 T of

1 kern 1 2.11945pt (italic correction)

3 penalty 0 123 (for kinsoku)

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

2 hlist 0(8.8+1.2)x5.0 (packed)
                                                                                                                                     2 hist 0(-0.12)20.0 (parked)
.0 kern 0 -0.09766pt
.8 glyph 0 ( 60
1 kern 1 0.0pt (italic correction)
3 penalty 0 10000 (for kinsoku)
                                                                                                                                      6 glue 0 0.0pt plus 0.4pt minus 0.4pt (kanjiskip)
                                                                                                                                      2 hlist 0(8.8+1.2)x10.0 (packed)
                                                                                                                                       .8 glyph 0 あ 60
f (\delta
                                                                                                                                        .0 kern 0 1.00098pt
```

[x]kanjiskip の挿入

おい

```
kanjiskip from JFM, autospacing (JA-JA)
                                            2 hlist 0(8.8+1.2)x10.0 (packed)
                                             .8 glyph 0 あ 60
                                             .0 kern 0 1.00098pt
                                            6 glue 0 0.0pt plus 0.4pt minus 0.4pt (kanjiskip)
ああ
                                            8 glyph 256 あ 63
                                            2 hlist 0(8.8+1.2)x10.0 (packed)
                                            .8 glyph 0 あ 60
.0 kern 0 1.00098pt
                                           6 glue 0 1.0pt plus 0.4pt minus 0.5pt (kanjiskip)
8 glyph 256 5 63
あ あ
                                            8 glyph 256 は 66
                                            6 glue 0 1.1pt plus 0.44pt minus 0.55pt (kanjiskip)
はぁ
                                           8 glyph 256 5 63
2 hlist 0(8.8+1.2)x10.0 (packed)
                                            .8 glyph 0 あ 60
                                            .0 kern 0 1.00098pt
                                           2 hlist 0 0.00tp plus 0.4pt minus 0.4pt (kanjiskip) hlist 0(8.8+1.2)x10.0 (packed)
8 glyph 0 5 60
                                           .0 kern 0 1.00098pt
6 glue 0 0.0pt (kanjiskip)
                                           2 hlist 0(8.8+1.2)x10.0 (packed)
.8 glyph 0 あ 60
あああ
                                             .0 kern 0 1.00098pt
     kanjiskip from JFM/autoxspacing (JA-EN)
                                            ,
8 glyph 256 ま 63
                                           7 glue 0 2.40065pt plus 1.0pt minus 1.0pt (xkanjiskip) 8 glyph 256 x 62
ま x
                                            8 glyph 256 ま 63
                                            7 glue 0 2.40065pt plus 1.0pt minus 1.0pt (xkanjiskip)
ŧ x
                                            8 glyph 256 x 62
                                            8 glyph 256 ま 63
                                            7 glue 0 0.0pt (xkanjiskip)
ŧх
                                            8 glyph 256 x 62
                                            8 glyph 256 £ 63
7 glue 0 3.1pt plus 0.45pt minus 0.57pt (xkanjiskip)
まx
                                            8 glyph 256 x 62
                                           8 glyph 256 ま 63
7 glue 0 0.0pt (xkanjiskip)
ŧх
                                           8 glyph 256 x 62
8 glyph 256 $\dagger$ 63
                                            7 glue 0 0.0pt (xkanjiskip)
ŧх
                                            8 glyph 256 x 62
     xkanjiskip from JFM/autoxspacing (EN-JA)
                                            8 glyph 256 x 62
7 glue 0 2.40065pt plus 1.0pt minus 1.0pt (xkanjiskip)
хŧ
                                            8 glyph 256 🕏 63
                                           8 glyph 256 x 62
7 glue 0 2.40065pt plus 1.0pt minus 1.0pt (xkanjiskip)
                                           8 glyph 256 ま 63
8 glyph 256 x 62
7 glue 0 0.0pt (xkanjiskip)
8 glyph 256 ま 63
хŧ
хŧ
                                            8 glyph 256 x 62
                                           7 glue 0 3.1pt plus 0.45pt minus 0.57pt (xkanjiskip)
8 glyph 256 ま 63
хŧ
                                           8 glyph 256 x 62
7 glue 0 0.0pt (xkanjiskip)
8 glyph 256 $\displays 63
хŧ
                                           8 glyph 256 x 62

7 glue 0 0.0pt (xkanjiskip)

8 glyph 256 ± 63

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

8 glyph 256 ± 63
                                           5 kern 1 -14.1pt (from 'lineend' in JFM)
3 penalty 0 0 (for kinsoku)
                                           7 glue 0 14.1pt (xkanjiskip)
8 glyph 256 x 62
xまおx
     more than one penalty
                                            8 glyph 256 お 63
5 kern 1 -14.1pt (from 'lineend' in JFM)
                                            8 penalty 0 1701
                                            8 penalty 0 1701
                                           8 penalty 0 1701
6 glue 0 14.1pt plus 0.4pt minus 0.4pt (kanjiskip)
```

8 glyph 256 ll 63

```
8 glyph 256 お 63
                                                   5 kern 1 -14.1pt (from 'lineend' in JFM)
8 penalty 0 1701
                                                    8 penalty 0 1701
                                                   8 penalty 0 1701
6 glue 0 14.1pt plus 0.4pt minus 0.4pt (kanjiskip)
おお
                                                    8 glyph 256 කි 63
                                                   F glue 0 9.4pt plus 2.3pt minus 4.5pt
8 glyph 256 あ 63
5 kern 1 -14.1pt (from 'lineend' in JFM)
                                                   8 penalty 0 1701
                                                   8 penalty 0 1701
8 penalty 0 1701
6 glue 0 14.1pt plus 0.4pt minus 0.4pt (kanjiskip)
8 glyph 256 l 1 63
    あい
                                                   F glue 0 9.4pt plus 2.3pt minus 4.5pt
8 glyph 256 あ 63
                                                   5 kern 1 -14.1pt (from 'lineend' in JFM)
8 penalty 0 1701
                                                   8 penalty 0 1701
8 penalty 0 1701
                                                      glue 0 14.1pt plus 0.4pt minus 0.4pt (kanjiskip)
    あお
                                                   8 glyph 256 お 63
      その他: italic correction and accents
                                                   2 hlist 0(8.8+1.2)x10.0 (packed)
                                                    .8 glyph 0 あ 60
.0 kern 0 1.00098pt
                                                    1 kern 1 0.0pt (italic correction)
                                                   7 glue 0 2.40065pt plus 1.0pt minus 1.0pt (xkanjiskip)
あj
                                                   8 glyph 256 j 1
                                                   8 glyph 256 h 63
                                                   7 glue 0 2.40065pt plus 1.0pt minus 1.0pt (xkanjiskip)
8 kern 2 1.25pt (for accent)
                                                   8 kern 2 1.2bpt (for accent)
8 hlist 0(6.28473+0.0)x5.00002
.0 glyph 0 ~ 1
8 kern 2 -6.25002pt (for accent)
8 glyph 256 Å 1
3 penalty 0 10000 (for kinsoku)
                                                   7 glue 0 0.0pt (xkanjiskip)
8 glyph 256 ) 63
れĂ)
      その他: box boundary
                                                   F glue 0 10.3pt
8 glyph 256 か 63
                                                   8 glyph 266 5 63
8 glyph 256 5 63
5 kern 1 -14.1pt (from 'lineend' in JFM)
                                                   3 penalty 0 0 (for kinsoku)
                                                   % powerby v v (for kinsoku) 6 glue 0 14.1pt plus 0.4pt minus 0.4pt (kanjiskip) 8 glyph 256 \dot{n} 63
    かあか
                                                   F kern 1 8.5pt
                                                   8 glyph 256 a 62
7 glue 0 2.40065pt plus 1.0pt minus 1.0pt (xkanjiskip)
                                                   8 glyph 512 /h 63
6 glue 0 0.0pt plus 0.4pt minus 0.4pt (kanjiskip)
8 glyph 512 /h 63
                                                   5 kern 1 -14.1pt (from 'lineend' in JFM)
3 penalty 0 0 (for kinsoku)
                                                   6 glue 0 14.1pt plus 0.4pt minus 0.4pt (kanjiskip) 8 glyph 512 / 63
                                                   7 glue 0 2.40065pt plus 1.0pt minus 1.0pt (xkanjiskip)
a かあか a
                                                   8 glyph 256 a 62
                                                   8 glyph 256 a 62
8 hlist 2(0.0+0.0)x28.8
                                                    .F glue 0 10.3pt
.8 glyph 256 か 63
.F kern 1 8.5pt
a か a
                                                   8 glyph 256 a 62
                                                   8 glyph 256 き 63
                                                   3 penalty 0 0 (for kinsoku)
8 hlist 2(0.0+0.0)x28.8
                                                   F glue 0 10.3pt
.8 glyph 256 th 63
.F kern 1 8.5pt
3 penalty 0 0 (for kinsoku)
                                                   8 glyph 256 巻 63
6 glue 0 0.0pt plus 0.4pt minus 0.4pt (kanjiskip)
8 hlist 2(0.0+0.0)x10.0
                                                   .8 glyph 256 총 63
6 glue 0 0.0pt plus 0.4pt minus 0.4pt (kanjiskip)
8 glyph 256 총 63
き か ききき
```

```
2 hlist 0(8.8+1.2)x10.0 (packed)
.8 glyph 0 5 60
.0 kern 0 1.00098pt
3 penalty 0 1000 (for kinsoku)
6 glue 0 0.0pt plus 0.4pt minus 0.4pt (kanjiskip)
8 hlist 2(8.8+1.2)x5.0
.2 hlist 0(8.8+1.2)x5.0 (packed)
..0 kern 0 -0.09766pt
..8 glyph 0 ( 60
3 penalty 0 1000 (for kinsoku)
6 glue 0 0.0pt plus 0.4pt minus 0.4pt (kanjiskip)
2 hlist 0(8.8+1.2)x10.0 (packed)
.8 glyph 0 5 60
.0 kern 0 1.00098pt
3 penalty 0 1000 (for kinsoku)
4 glue 0 5.0pt minus 5.0pt (from JFM)
2 hlist 0(8.8+1.2)x5.0 (packed)
.0 kern 0 -0.09766pt
.8 glyph 0 6 60
3 penalty 0 10000 (for kinsoku)
6 glue 0 0.0pt plus 0.4pt minus 0.4pt (kanjiskip)
10 kern 0 -0.09766pt
.8 glyph 0 6 60
3 penalty 0 10000 (for kinsoku)
6 glue 0 0.0pt plus 0.4pt minus 0.4pt (kanjiskip)
2 hlist 0(8.8+1.2)x10.0 (packed)
.8 glyph 0 5 60
.0 kern 0 1.00098pt
```

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