〝　　　　　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

　　　　　　　／
「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 § ¶ ° £ ¥ ô
iso8859-1 欧文扱い:1§ ¶ ° £ ¥ ô

0 1 0

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
あいうえおか　き　く　け　こさしすせそ 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

JFM

JA–JA (pen)

```
F glue 0 9.4pt plus 2.3pt minus 4.5pt
8 glyph 256    63
4 kern 1 20.0pt (from JFM)
8 glyph 256    63
```
```
F glue 0 9.4pt plus 2.3pt minus 4.5pt
8 glyph 256    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 256    63
```
```
F glue 0 9.4pt plus 2.3pt minus 4.5pt
8 glyph 256    63
5 kern 1 -14.1pt (from 'lineend' in JFM)
3 penalty 0 0 (for kinsoku)
4 glue 0 28.20001pt (from JFM)
8 glyph 256    63
```
```
8 glyph 256    63
4 kern 1 20.0pt (from JFM)
8 glyph 256    63
```
```
8 glyph 256    63
6 glue 0 0.0pt plus 0.4pt minus 0.4pt (kanjiskip)
8 glyph 256    63
```
```
8 glyph 256    63
4 glue 0 14.1pt (from JFM)
8 glyph 256    63
```

JA–EN (pen)

```
F glue 0 9.4pt plus 2.3pt minus 4.5pt
8 glyph 256    63
4 kern 1 12.1pt (from JFM)
```
a
```
8 glyph 256 a 62
```
```
8 glyph 256    63
7 glue 0 2.40065pt plus 1.0pt minus 1.0pt (xkanjiskip)
```
a
```
8 glyph 256 a 62
```
```
8 glyph 256    63
5 kern 1 -14.1pt (from 'lineend' in JFM)
3 penalty 0 0 (for kinsoku)
4 glue 0 31.40001pt (from JFM)
```
a
```
8 glyph 256 a 62
```
```
8 glyph 256    63
4 kern 1 17.3pt (from JFM)
```
a
```
8 glyph 256 a 62
```
```
8 glyph 256    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)
```
a
```
8 glyph 256 a 62
```

EN–JA (pen)

```
8 glyph 256 a 62
7 glue 0 2.40065pt plus 1.0pt minus 1.0pt (xkanjiskip)
8 glyph 256    63
```
a
```
8 glyph 256 a 62
4 glue 0 14.1pt (from JFM)
8 glyph 256    63
```
a
```
8 glyph 256 a 62
4 kern 1 20.0pt (from JFM)
8 glyph 256    63
```
a

JA– kern (pen   )

```
F glue 0 9.4pt plus 2.3pt minus 4.5pt
8 glyph 256    63
4 kern 1 12.1pt (from JFM)
8 kern 1 3.0pt
```
```
8 glyph 256    63
8 kern 1 3.0pt
```
```
8 glyph 256    63
5 kern 1 -14.1pt (from 'lineend' in JFM)
3 penalty 0 10000 (for kinsoku)
4 glue 0 31.40001pt (from JFM)
8 kern 1 3.0pt
```

kern–JA (pen   )

```
8 kern 1 3.0pt
8 glyph 256    63
```
```
8 kern 1 3.0pt
3 penalty 0 10000 (for kinsoku)
4 glue 0 14.1pt (from JFM)
8 glyph 256    63
```
```
8 kern 1 3.0pt
4 kern 1 20.0pt (from JFM)
8 glyph 256    63
```

JA–hbox (pen　　)

```
F glue 0 9.4pt plus 2.3pt minus 4.5pt
8 glyph 256    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    63
3 penalty 0 0 (for kinsoku)
8 hlist 2(0.0+0.0)x0.0
8 glyph 256    63
5 kern 1 -14.1pt (from 'lineend' in 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
F glue 0 9.4pt plus 2.3pt minus 4.5pt
8 glyph 256    63
4 kern 1 12.1pt (from JFM)
8 hlist 2(0.0+0.0)x10.0
.8 glyph 256    63
F glue 0 9.4pt plus 2.3pt minus 4.5pt
8 glyph 256    63
4 kern 1 12.1pt (from JFM)
8 hlist 2(5.2002+0.03906)x5.49805
.8 glyph 256 a 62
8 glyph 256    63
7 glue 0 2.40065pt plus 1.0pt minus 1.0pt (xkanjiskip)
8 hlist 2(5.2002+0.03906)x5.49805
.8 glyph 256 a 62
```

a

a

hbox–JA (pen　　)

```
8 hlist 2(0.0+0.0)x0.0
3 penalty 0 0 (for kinsoku)
8 glyph 256    63
8 hlist 2(0.0+0.0)x0.0
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
```

JA–JA (pen　　　)

```
F glue 0 9.4pt plus 2.3pt minus 4.5pt
8 glyph 256    63
4 kern 1 20.0pt (from JFM)
8 glyph 256    63
```
```
F glue 0 9.4pt plus 2.3pt minus 4.5pt
8 glyph 256    63
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    63
```
```
F glue 0 9.4pt plus 2.3pt minus 4.5pt
8 glyph 256    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    63
```
```
8 glyph 256    63
4 kern 1 20.0pt (from JFM)
8 glyph 256    63
```
```
8 glyph 256    63
3 penalty 0 123 (for kinsoku)
6 glue 0 0.0pt plus 0.4pt minus 0.4pt (kanjiskip)
8 glyph 256    63
```
```
8 glyph 256    63
3 penalty 0 123 (for kinsoku)
4 glue 0 14.1pt (from JFM)
8 glyph 256    63
```

JA–EN (pen　　　)

```
F glue 0 9.4pt plus 2.3pt minus 4.5pt
8 glyph 256    63
4 kern 1 12.1pt (from JFM)
```
a
```
8 glyph 256 a 62
```
```
8 glyph 256    63
3 penalty 0 123 (for kinsoku)
7 glue 0 2.40065pt plus 1.0pt minus 1.0pt (xkanjiskip)
```
a
```
8 glyph 256 a 62
```
```
8 glyph 256    63
5 kern 1 -14.1pt (from 'lineend' in JFM)
3 penalty 0 123 (for kinsoku)
4 glue 0 31.40001pt (from JFM)
```
a
```
8 glyph 256 a 62
```
```
8 glyph 256    63
4 kern 1 17.3pt (from JFM)
```
a
```
8 glyph 256 a 62
```
```
8 glyph 256    63
5 kern 1 -14.1pt (from 'lineend' in JFM)
3 penalty 0 123 (for kinsoku)
7 glue 0 16.50066pt plus 1.0pt minus 1.0pt (xkanjiskip)
```
a
```
8 glyph 256 a 62
```

EN–JA (pen　　　)

```
8 glyph 256 a 62
3 penalty 0 321 (for kinsoku)
7 glue 0 2.40065pt plus 1.0pt minus 1.0pt (xkanjiskip)
```
a
```
8 glyph 256    63
```
```
8 glyph 256 a 62
3 penalty 0 892 (for kinsoku)
4 glue 0 14.1pt (from JFM)
```
a
```
8 glyph 256    63
```
```
8 glyph 256 a 62
4 kern 1 20.0pt (from JFM)
```
a
```
8 glyph 256    63
```

JA–hbox (pen　　　)

```
F glue 0 9.4pt plus 2.3pt minus 4.5pt
8 glyph 256    63
4 kern 1 12.1pt (from JFM)
8 hlist 2(0.0+0.0)x10.0
.8 glyph 256    63
```
```
F glue 0 9.4pt plus 2.3pt minus 4.5pt
8 glyph 256    63
4 kern 1 12.1pt (from JFM)
8 hlist 2(5.2002+0.03906)x5.49805
```
a
```
.8 glyph 256 a 62
```
```
8 glyph 256    63
3 penalty 0 123 (for kinsoku)
7 glue 0 2.40065pt plus 1.0pt minus 1.0pt (xkanjiskip)
8 hlist 2(5.2002+0.03906)x5.49805
```
a
```
.8 glyph 256 a 62
```

```
8 hlist 2(0.0+0.0)x10.0
.8 glyph 256    63
3 penalty 0 571 (for kinsoku)
4 glue 0 14.1pt (from JFM)
8 glyph 256    63
3 penalty 0 123 (for kinsoku)
6 glue 0 0.0pt plus 0.4pt minus 0.4pt (kanjiskip)
8 hlist 2(0.0+0.0)x10.0
.8 glyph 256    63
```

italic correction

```
8 glyph 256 f 37
9 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)
.0 kern 0 -0.1pt
.8 glyph 0    60
9 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    60
.0 kern 0 1.0pt
```

f（あ

[x]kanjiskip

kanjiskip from JFM, autospacing (JA–JA)

```
                      2 hlist 0(8.8+1.2)x10.0 (packed)
                      .8 glyph 0    60
                      .0 kern 0 1.0pt
                      6 glue 0 0.0pt plus 0.4pt minus 0.4pt (kanjiskip)
あ                    8 glyph 256    63
```

```
                      2 hlist 0(8.8+1.2)x10.0 (packed)
                      .8 glyph 0    60
                      .0 kern 0 1.0pt
                      6 glue 0 1.0pt plus 0.4pt minus 0.5pt (kanjiskip)
あ                    8 glyph 256    63
```

```
                      8 glyph 256    66
                      6 glue 0 1.1pt plus 0.44pt minus 0.55pt (kanjiskip)
                      8 glyph 256    63
                      2 hlist 0(8.8+1.2)x10.0 (packed)
                      .8 glyph 0    60
                      .0 kern 0 1.0pt
                      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    60
                      .0 kern 0 1.0pt
                      6 glue 0 0.0pt (kanjiskip)
                      2 hlist 0(8.8+1.2)x10.0 (packed)
                      .8 glyph 0    60
あああ                .0 kern 0 1.0pt
```

kanjiskip from JFM/autoxspacing (JA–EN)

```
                      8 glyph 256    63
                      7 glue 0 2.40065pt plus 1.0pt minus 1.0pt (xkanjiskip)
X                     8 glyph 256 x 62
```

```
                      8 glyph 256    63
                      7 glue 0 2.40065pt plus 1.0pt minus 1.0pt (xkanjiskip)
X                     8 glyph 256 x 62
```

```
                      8 glyph 256    63
                      7 glue 0 0.0pt (xkanjiskip)
X                     8 glyph 256 x 62
```

```
                      8 glyph 256    63
                      7 glue 0 3.1pt plus 0.45pt minus 0.57pt (xkanjiskip)
X                     8 glyph 256 x 62
```

```
                      8 glyph 256    63
                      7 glue 0 0.0pt (xkanjiskip)
X                     8 glyph 256 x 62
```

```
                      8 glyph 256    63
                      7 glue 0 0.0pt (xkanjiskip)
X                     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)
X                     8 glyph 256    63
```

```
                      8 glyph 256 x 62
                      7 glue 0 2.40065pt plus 1.0pt minus 1.0pt (xkanjiskip)
X                     8 glyph 256    63
```

```
                      8 glyph 256 x 62
                      7 glue 0 0.0pt (xkanjiskip)
X                     8 glyph 256    63
```

```
                      8 glyph 256 x 62
                      7 glue 0 3.1pt plus 0.45pt minus 0.57pt (xkanjiskip)
X                     8 glyph 256    63
```

```
                      8 glyph 256 x 62
                      7 glue 0 0.0pt (xkanjiskip)
X                     8 glyph 256    63
```

```
                      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)
X       X             8 glyph 256 x 62
```

more than one penalty

```
                      8 glyph 256    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    63
```

```
8 glyph 256    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    63
```
```
F glue 0 9.4pt plus 2.3pt minus 4.5pt
8 glyph 256    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    63
```
```
F glue 0 9.4pt plus 2.3pt minus 4.5pt
8 glyph 256    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    63
```

: italic correction and accents

あ j
```
2 hlist 0(8.8+1.2)x10.0 (packed)
.8 glyph 0    60
.0 kern 0 1.0pt
9 kern 1 0.0pt (italic correction)
7 glue 0 2.40065pt plus 1.0pt minus 1.0pt (xkanjiskip)
8 glyph 256 j 1
```

Ǎ
```
8 glyph 256    63
7 glue 0 2.40065pt plus 1.0pt minus 1.0pt (xkanjiskip)
8 kern 2 1.25pt (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 A 1
3 penalty 0 10000 (for kinsoku)
7 glue 0 0.0pt (xkanjiskip)
8 glyph 256    63
```

: box boundary

```
F glue 0 10.3pt
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)
6 glue 0 14.1pt plus 0.4pt minus 0.4pt (kanjiskip)
8 glyph 256    63
F kern 1 8.5pt
```

a   a
```
8 glyph 256 a 62
7 glue 0 2.40065pt plus 1.0pt minus 1.0pt (xkanjiskip)
8 glyph 512    63
6 glue 0 0.0pt plus 0.4pt minus 0.4pt (kanjiskip)
8 glyph 512    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)
8 glyph 256 a 62
```

a   a
```
8 glyph 256 a 62
8 hlist 2(0.0+0.0)x28.8
.F glue 0 10.3pt
.8 glyph 256    63
.F kern 1 8.5pt
8 glyph 256 a 62
```

```
8 glyph 256    63
3 penalty 0 0 (for kinsoku)
8 hlist 2(0.0+0.0)x28.8
.F glue 0 10.3pt
.8 glyph 256    63
.F kern 1 8.5pt
3 penalty 0 0 (for kinsoku)
8 glyph 256    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    63
6 glue 0 0.0pt plus 0.4pt minus 0.4pt (kanjiskip)
8 glyph 256    63
```

7

```
2 hlist 0(8.8+1.2)x10.0 (packed)
.8 glyph 0    60
.0 kern 0 1.0pt
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 -0.1pt
..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    60
.0 kern 0 1.0pt
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 -0.1pt
.8 glyph 0    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    60
.0 kern 0 1.0pt
```

あ（あ （あ