

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

文字範囲の状況取得

0 1 0

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

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)
あ	ア	8 glyph 256 ア 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 0 (for kinsoku)
あい		6 glue 0 14.1pt plus 0.4pt minus 0.4pt (kanjiskip)
		8 glyph 256 い 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 0 (for kinsoku)
あ	ウ	4 glue 0 28.20001pt (from JFM)
		8 glyph 256 ウ 63
		8 glyph 256 い 63
い	ア	4 kern 1 20.0pt (from JFM)
		8 glyph 256 ア 63
		8 glyph 256 い 63
いい		6 glue 0 0.0pt plus 0.4pt minus 0.4pt (kanjiskip)
		8 glyph 256 い 63
		8 glyph 256 い 63
い	ウ	4 glue 0 14.1pt (from JFM)
		8 glyph 256 ウ 63

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)
あ	a	8 glyph 256 a 62
		8 glyph 256 い 63
い	a	7 glue 0 2.40065pt plus 1.0pt minus 1.0pt (xkanjiskip)
		8 glyph 256 a 62
		8 glyph 256 う 63
		5 kern 1 -14.1pt (from 'lineend' in JFM)
		3 penalty 0 0 (for kinsoku)
う	a	4 glue 0 31.40001pt (from JFM)
		8 glyph 256 a 62
		8 glyph 256 え 63
え	a	4 kern 1 17.3pt (from JFM)
		8 glyph 256 a 62
		8 glyph 256 お 63
		5 kern 1 -14.1pt (from 'lineend' in JFM)
		3 penalty 0 0 (for kinsoku)
お	a	7 glue 0 16.50066pt plus 1.0pt minus 1.0pt (xkanjiskip)
		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	8 glyph 256 あ 63
		8 glyph 256 a 62
a	い	4 glue 0 14.1pt (from JFM)
		8 glyph 256 い 63
		8 glyph 256 a 62
a	う	4 kern 1 20.0pt (from JFM)
		8 glyph 256 う 63

JA-明 kern (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)
あ		8 kern 1 3.0pt
		8 glyph 256 い 63
い		8 kern 1 3.0pt
		8 glyph 256 う 63
		5 kern 1 -14.1pt (from 'lineend' in JFM)
		3 penalty 0 10000 (for kinsoku)
う		4 glue 0 31.40001pt (from JFM)
		8 kern 1 3.0pt

明 kern-JA (penなし)

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

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)
あ	4 kern 1 12.1pt (from JFM)
	8 hlist 2(0.0+0.0)x0.0
	8 glyph 256 い 63
い	3 penalty 0 0 (for kinsoku)
	8 hlist 2(0.0+0.0)x0.0
	8 glyph 256 う 63
	5 kern 1 -14.1pt (from 'lineend' in JFM)
	3 penalty 0 0 (for kinsoku)
う	4 glue 0 31.40001pt (from JFM)
	8 hlist 2(0.0+0.0)x0.0
	8 glyph 256 え 63
	3 penalty 0 0 (for kinsoku)
え	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 あ 63
	4 kern 1 12.1pt (from JFM)
あ ア	8 hlist 2(0.0+0.0)x10.0
	.8 glyph 256 ア 63
	F glue 0 9.4pt plus 2.3pt minus 4.5pt
	8 glyph 256 あ 63
	4 kern 1 12.1pt (from JFM)
あ a	8 hlist 2(5.2002+0.03906)x5.49805
	.8 glyph 256 a 62
	8 glyph 256 い 63
	7 glue 0 2.40065pt plus 1.0pt minus 1.0pt (xkanjiskip)
い a	8 hlist 2(5.2002+0.03906)x5.49805
	.8 glyph 256 a 62

hbox-JA (pen なし)

	8 hlist 2(0.0+0.0)x0.0
	3 penalty 0 0 (for kinsoku)
あ	8 glyph 256 あ 63
	8 hlist 2(0.0+0.0)x0.0
	4 glue 0 14.1pt (from JFM)
い	8 glyph 256 い 63
	8 hlist 2(0.0+0.0)x0.0
	3 penalty 0 0 (for kinsoku)
	4 kern 1 20.0pt (from JFM)
う	8 glyph 256 う 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 ア 63
あ	ア	
		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) 6 glue 0 14.1pt plus 0.4pt minus 0.4pt (kanjiskip) 8 glyph 256 イ 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) 3 penalty 0 123 (for kinsoku) 4 glue 0 28.20001pt (from JFM) 8 glyph 256 ウ 63
あ	ウ	
		8 glyph 256 い 63 4 kern 1 20.0pt (from JFM) 8 glyph 256 ア 63
い	ア	
		8 glyph 256 い 63 3 penalty 0 123 (for kinsoku) 6 glue 0 0.0pt plus 0.4pt minus 0.4pt (kanjiskip) 8 glyph 256 イ 63
い	イ	
		8 glyph 256 い 63 3 penalty 0 123 (for kinsoku) 4 glue 0 14.1pt (from JFM) 8 glyph 256 ウ 63
い	ウ	

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) 8 glyph 256 a 62
あ	a	
		8 glyph 256 い 63 3 penalty 0 123 (for kinsoku) 7 glue 0 2.40065pt plus 1.0pt minus 1.0pt (xkanjiskip) 8 glyph 256 a 62
い	a	
		8 glyph 256 う 63 5 kern 1 -14.1pt (from 'lineend' in JFM) 3 penalty 0 123 (for kinsoku) 4 glue 0 31.40001pt (from JFM) 8 glyph 256 a 62
う	a	
		8 glyph 256 え 63 4 kern 1 17.3pt (from JFM) 8 glyph 256 a 62
え	a	
		8 glyph 256 お 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) 8 glyph 256 a 62
お	a	

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) 8 glyph 256 あ 63
a	あ	
		8 glyph 256 a 62 3 penalty 0 892 (for kinsoku) 4 glue 0 14.1pt (from JFM) 8 glyph 256 い 63
a	い	
		8 glyph 256 a 62 4 kern 1 20.0pt (from JFM) 8 glyph 256 う 63
a	う	

JA-hbox (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) 8 hlist 2(0.0+0.0)x10.0 .8 glyph 256 ア 63
あ	ア	
		F glue 0 9.4pt plus 2.3pt minus 4.5pt 8 glyph 256 あ 63 4 kern 1 12.1pt (from JFM) 8 hlist 2(5.2002+0.03906)x5.49805 .8 glyph 256 a 62
あ	a	
		8 glyph 256 い 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 .8 glyph 256 a 62
い	a	

(い)

```
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 い 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

f (あ)

```
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 あ 60
.0 kern 0 1.0pt
```

[x]kanjiskip の挿入

kanjiskip from JFM, autospacing (JA-JA)

	2 hlist 0(8.8+1.2)x10.0 (packed)
	.8 glyph 0 あ 60
	.0 kern 0 1.0pt
	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 1.0pt
	6 glue 0 1.0pt plus 0.4pt minus 0.5pt (kanjiskip)
ああ	8 glyph 256 あ 63
	8 glyph 256 は 66
はあ	6 glue 0 1.1pt plus 0.44pt minus 0.55pt (kanjiskip)
	8 glyph 256 あ 63
	2 hlist 0(8.8+1.2)x10.0 (packed)
	.8 glyph 0 あ 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 あ 60
	.0 kern 0 1.0pt
	6 glue 0 0.0pt (kanjiskip)
あああ	2 hlist 0(8.8+1.2)x10.0 (packed)
	.8 glyph 0 あ 60
	.0 kern 0 1.0pt

kanjiskip from JFM/autospacing (JA-EN)

	8 glyph 256 ま 63
	7 glue 0 2.40065pt plus 1.0pt minus 1.0pt (xkanjiskip)
ま x	8 glyph 256 x 62
	8 glyph 256 ま 63
	7 glue 0 2.40065pt plus 1.0pt minus 1.0pt (xkanjiskip)
ま x	8 glyph 256 x 62
	8 glyph 256 ま 63
	7 glue 0 0.0pt (xkanjiskip)
ま x	8 glyph 256 x 62
	8 glyph 256 ま 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)
ま x	8 glyph 256 x 62
	8 glyph 256 ま 63
	7 glue 0 0.0pt (xkanjiskip)
ま x	8 glyph 256 x 62

xkanjiskip from JFM/autospacing (EN-JA)

	8 glyph 256 x 62
	7 glue 0 2.40065pt plus 1.0pt minus 1.0pt (xkanjiskip)
x ま	8 glyph 256 ま 63
	8 glyph 256 x 62
	7 glue 0 2.40065pt plus 1.0pt minus 1.0pt (xkanjiskip)
x ま	8 glyph 256 ま 63
	8 glyph 256 x 62
	7 glue 0 0.0pt (xkanjiskip)
x ま	8 glyph 256 ま 63
	8 glyph 256 x 62
	7 glue 0 3.1pt plus 0.45pt minus 0.57pt (xkanjiskip)
x ま	8 glyph 256 ま 63
	8 glyph 256 x 62
	7 glue 0 0.0pt (xkanjiskip)
x ま	8 glyph 256 ま 63
	8 glyph 256 x 62
	7 glue 0 0.0pt (xkanjiskip)
	8 glyph 256 ま 63
	6 glue 0 0.0pt plus 0.4pt minus 0.4pt (kanjiskip)
	8 glyph 256 お 63
	5 kern 1 -14.1pt (from 'lineend' in JFM)
	3 penalty 0 0 (for kinsoku)
	7 glue 0 14.1pt (xkanjiskip)
xまおx	8 glyph 256 x 62

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
	8 penalty 0 1701
	6 glue 0 14.1pt plus 0.4pt minus 0.4pt (kanjiskip)
おい	8 glyph 256 い 63

おお

```

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 𪗇 63

```

```

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

```

あい

```

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

```

```

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

```

あお

その他: italic correction and accents

あ j

```

2 hlist 0(8.8+1.2)x10.0 (packed)
.8 glyph 0 あ 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

```

```

8 glyph 256 れ 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

```

れ ㄸ)

その他: box boundary

かあか

```

F glue 0 10.3pt
8 glyph 256 か 63
6 glue 0 0.0pt plus 0.4pt minus 0.4pt (kanjiskip)
8 glyph 256 𪗇 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 か 63
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 か 63
6 glue 0 0.0pt plus 0.4pt minus 0.4pt (kanjiskip)
8 glyph 512 𪗇 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 か 63
7 glue 0 2.40065pt plus 1.0pt minus 1.0pt (xkanjiskip)
8 glyph 256 a 62

```

a かあか a

```

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
8 glyph 256 a 62

```

a か a

```

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 か 63
.F kern 1 8.5pt
3 penalty 0 0 (for kinsoku)
8 glyph 256 き 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 き 63
6 glue 0 0.0pt plus 0.4pt minus 0.4pt (kanjiskip)
8 glyph 256 き 63

```

き か ききき

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

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