

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)

あ	ア	F glue 0 9.4pt plus 2.3pt minus 4.5pt 8 glyph 256 あ 63 (8.8+1.2)x10.0 4 kern 1 20.0pt (from JFM) 8 glyph 256 ア 63 (8.8+1.2)x10.0
あい		F glue 0 9.4pt plus 2.3pt minus 4.5pt 8 glyph 256 あ 63 (8.8+1.2)x10.0 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 い 63 (8.8+1.2)x10.0
あ	ウ	F glue 0 9.4pt plus 2.3pt minus 4.5pt 8 glyph 256 あ 63 (8.8+1.2)x10.0 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 ウ 63 (8.8+1.2)x10.0
い	ア	8 glyph 256 い 63 (8.8+1.2)x10.0 4 kern 1 20.0pt (from JFM) 8 glyph 256 ア 63 (8.8+1.2)x10.0
い	イ	8 glyph 256 い 63 (8.8+1.2)x10.0 6 glue 0 0.0pt plus 0.4pt minus 0.4pt (kanjiskip) 8 glyph 256 イ 63 (8.8+1.2)x10.0
い	ウ	8 glyph 256 い 63 (8.8+1.2)x10.0 4 glue 0 14.1pt (from JFM) 8 glyph 256 ウ 63 (8.8+1.2)x10.0

JA-EN (penなし)

あ	a	F glue 0 9.4pt plus 2.3pt minus 4.5pt 8 glyph 256 あ 63 (8.8+1.2)x10.0 4 kern 1 12.1pt (from JFM) 8 glyph 256 a 62 (5.2002+0.03906)x5.49805
い	a	8 glyph 256 い 63 (8.8+1.2)x10.0 7 glue 0 2.40553pt plus 1.0pt minus 1.0pt (xkanjiskip) 8 glyph 256 a 62 (5.2002+0.03906)x5.49805
う	a	8 glyph 256 う 63 (8.8+1.2)x10.0 5 kern 1 -14.1pt (from 'lineend' in JFM) 3 penalty 0 0 (for kinsoku) 4 glue 0 31.40001pt (from JFM) 8 glyph 256 a 62 (5.2002+0.03906)x5.49805
え	a	8 glyph 256 え 63 (8.8+1.2)x10.0 4 kern 1 17.3pt (from JFM) 8 glyph 256 a 62 (5.2002+0.03906)x5.49805
お	a	8 glyph 256 お 63 (8.8+1.2)x10.0 5 kern 1 -14.1pt (from 'lineend' in JFM) 3 penalty 0 0 (for kinsoku) 7 glue 0 16.50554pt plus 1.0pt minus 1.0pt (xkanjiskip) 8 glyph 256 a 62 (5.2002+0.03906)x5.49805

EN-JA (penなし)

a	あ	8 glyph 256 a 62 (5.2002+0.03906)x5.49805 3 penalty 0 0 (for kinsoku) 7 glue 0 2.40553pt plus 1.0pt minus 1.0pt (xkanjiskip) 8 glyph 256 あ 63 (8.8+1.2)x10.0
a	い	8 glyph 256 a 62 (5.2002+0.03906)x5.49805 3 penalty 0 0 (for kinsoku) 4 glue 0 14.1pt (from JFM) 8 glyph 256 い 63 (8.8+1.2)x10.0
a	う	8 glyph 256 a 62 (5.2002+0.03906)x5.49805 3 penalty 0 0 (for kinsoku) 4 kern 1 20.0pt (from JFM) 8 glyph 256 う 63 (8.8+1.2)x10.0

JA-明 kern (penなし)

あ		F glue 0 9.4pt plus 2.3pt minus 4.5pt 8 glyph 256 あ 63 (8.8+1.2)x10.0 4 kern 1 12.1pt (from JFM) 8 kern 1 3.0pt
い		8 glyph 256 い 63 (8.8+1.2)x10.0 8 kern 1 3.0pt
う		8 glyph 256 う 63 (8.8+1.2)x10.0 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

明 kern-JA (penなし)

あ		8 kern 1 3.0pt 8 glyph 256 あ 63 (8.8+1.2)x10.0
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	8 kern 1 3.0pt
	3 penalty 0 10000 (for kinsoku)
	4 glue 0 14.1pt (from JFM)
い	8 glyph 256 い 63 (8.8+1.2)x10.0
	8 kern 1 3.0pt
	4 kern 1 20.0pt (from JFM)
う	8 glyph 256 う 63 (8.8+1.2)x10.0
JA-hbox (pen なし)	
	F glue 0 9.4pt plus 2.3pt minus 4.5pt
	8 glyph 256 あ 63 (8.8+1.2)x10.0
	3 penalty 0 0 (for kinsoku)
	4 kern 1 12.1pt (from JFM)
あ	8 hlist 2 (0.0+0.0)x0.0TTL
	8 glyph 256 い 63 (8.8+1.2)x10.0
	3 penalty 0 0 (for kinsoku)
い	8 hlist 2 (0.0+0.0)x0.0TTL
	8 glyph 256 う 63 (8.8+1.2)x10.0
	5 kern 1 -14.1pt (from 'lineend' in JFM)
	3 penalty 0 0 (for kinsoku)
	4 glue 0 31.40001pt (from JFM)
う	8 hlist 2 (0.0+0.0)x0.0TTL
	8 glyph 256 え 63 (8.8+1.2)x10.0
	3 penalty 0 0 (for kinsoku)
	4 kern 1 17.3pt (from JFM)
え	8 hlist 2 (0.0+0.0)x0.0TTL
	F glue 0 9.4pt plus 2.3pt minus 4.5pt
	8 glyph 256 あ 63 (8.8+1.2)x10.0
	4 kern 1 12.1pt (from JFM)
	8 hlist 2 (8.8+1.2)x10.0TTL
あ ア	.8 glyph 256 ア 63 (8.8+1.2)x10.0
	F glue 0 9.4pt plus 2.3pt minus 4.5pt
	8 glyph 256 あ 63 (8.8+1.2)x10.0
	4 kern 1 12.1pt (from JFM)
	8 hlist 2 (5.2002+0.03906)x5.49805TTL
あ a	.8 glyph 256 a 62 (5.2002+0.03906)x5.49805
	8 glyph 256 い 63 (8.8+1.2)x10.0
	7 glue 0 2.40553pt plus 1.0pt minus 1.0pt (xkanjiskip)
	8 hlist 2 (5.2002+0.03906)x5.49805TTL
い a	.8 glyph 256 a 62 (5.2002+0.03906)x5.49805
hbox-JA (pen なし)	
	8 hlist 2 (0.0+0.0)x0.0TTL
	3 penalty 0 0 (for kinsoku)
あ	8 glyph 256 あ 63 (8.8+1.2)x10.0
	8 hlist 2 (0.0+0.0)x0.0TTL
	3 penalty 0 0 (for kinsoku)
	4 glue 0 14.1pt (from JFM)
い	8 glyph 256 い 63 (8.8+1.2)x10.0
	8 hlist 2 (0.0+0.0)x0.0TTL
	3 penalty 0 0 (for kinsoku)
	4 kern 1 20.0pt (from JFM)
う	8 glyph 256 う 63 (8.8+1.2)x10.0

JA-JA (pen あり)

		F glue 0 9.4pt plus 2.3pt minus 4.5pt 8 glyph 256 あ 63 (8.8+1.2)x10.0 4 kern 1 20.0pt (from JFM) 8 glyph 256 ア 63 (8.8+1.2)x10.0
あ	ア	<hr/>
		F glue 0 9.4pt plus 2.3pt minus 4.5pt 8 glyph 256 あ 63 (8.8+1.2)x10.0 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 (8.8+1.2)x10.0
あい		<hr/>
		F glue 0 9.4pt plus 2.3pt minus 4.5pt 8 glyph 256 あ 63 (8.8+1.2)x10.0 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 (8.8+1.2)x10.0
あ	ウ	<hr/>
		8 glyph 256 い 63 (8.8+1.2)x10.0 4 kern 1 20.0pt (from JFM) 8 glyph 256 ア 63 (8.8+1.2)x10.0
い	ア	<hr/>
		8 glyph 256 い 63 (8.8+1.2)x10.0 3 penalty 0 123 (for kinsoku) 6 glue 0 0.0pt plus 0.4pt minus 0.4pt (kanjiskip) 8 glyph 256 イ 63 (8.8+1.2)x10.0
い	イ	<hr/>
		8 glyph 256 い 63 (8.8+1.2)x10.0 3 penalty 0 123 (for kinsoku) 4 glue 0 14.1pt (from JFM) 8 glyph 256 ウ 63 (8.8+1.2)x10.0
い	ウ	<hr/>

JA-EN (pen あり)

		F glue 0 9.4pt plus 2.3pt minus 4.5pt 8 glyph 256 あ 63 (8.8+1.2)x10.0 4 kern 1 12.1pt (from JFM) 8 glyph 256 a 62 (5.2002+0.03906)x5.49805
あ	a	<hr/>
		8 glyph 256 い 63 (8.8+1.2)x10.0 3 penalty 0 123 (for kinsoku) 7 glue 0 2.40553pt plus 1.0pt minus 1.0pt (xkanjiskip) 8 glyph 256 a 62 (5.2002+0.03906)x5.49805
い	a	<hr/>
		8 glyph 256 う 63 (8.8+1.2)x10.0 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 (5.2002+0.03906)x5.49805
う	a	<hr/>
		8 glyph 256 え 63 (8.8+1.2)x10.0 4 kern 1 17.3pt (from JFM) 8 glyph 256 a 62 (5.2002+0.03906)x5.49805
え	a	<hr/>
		8 glyph 256 お 63 (8.8+1.2)x10.0 5 kern 1 -14.1pt (from 'lineend' in JFM) 3 penalty 0 123 (for kinsoku) 7 glue 0 16.50554pt plus 1.0pt minus 1.0pt (xkanjiskip) 8 glyph 256 a 62 (5.2002+0.03906)x5.49805
お	a	<hr/>

EN-JA (pen あり)

		8 glyph 256 a 62 (5.2002+0.03906)x5.49805 3 penalty 0 321 (for kinsoku) 7 glue 0 2.40553pt plus 1.0pt minus 1.0pt (xkanjiskip) 8 glyph 256 あ 63 (8.8+1.2)x10.0
a	あ	<hr/>
		8 glyph 256 a 62 (5.2002+0.03906)x5.49805 3 penalty 0 892 (for kinsoku) 4 glue 0 14.1pt (from JFM) 8 glyph 256 い 63 (8.8+1.2)x10.0
a	い	<hr/>
		8 glyph 256 a 62 (5.2002+0.03906)x5.49805 3 penalty 0 321 (for kinsoku) 4 kern 1 20.0pt (from JFM) 8 glyph 256 う 63 (8.8+1.2)x10.0
a	う	<hr/>

JA-hbox (pen あり)

		F glue 0 9.4pt plus 2.3pt minus 4.5pt 8 glyph 256 あ 63 (8.8+1.2)x10.0 4 kern 1 12.1pt (from JFM) 8 hlist 2 (8.8+1.2)x10.0TLT .8 glyph 256 ア 63 (8.8+1.2)x10.0
あ	ア	<hr/>
		F glue 0 9.4pt plus 2.3pt minus 4.5pt 8 glyph 256 あ 63 (8.8+1.2)x10.0 4 kern 1 12.1pt (from JFM) 8 hlist 2 (5.2002+0.03906)x5.49805TLT .8 glyph 256 a 62 (5.2002+0.03906)x5.49805
あ	a	<hr/>
		8 glyph 256 い 63 (8.8+1.2)x10.0 3 penalty 0 123 (for kinsoku) 7 glue 0 2.40553pt plus 1.0pt minus 1.0pt (xkanjiskip) 8 hlist 2 (5.2002+0.03906)x5.49805TLT .8 glyph 256 a 62 (5.2002+0.03906)x5.49805
い	a	<hr/>

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8 hlist 2 (8.8+1.2)x10.0TLT
.8 glyph 256 ( 63 (8.8+1.2)x10.0
3 penalty 0 571 (for kinsoku)
4 glue 0 14.1pt (from JFM)
8 glyph 256 り 63 (8.8+1.2)x10.0
3 penalty 0 123 (for kinsoku)
6 glue 0 0.0pt plus 0.4pt minus 0.4pt (kanjiskip)
8 hlist 2 (8.8+1.2)x10.0TLT
.8 glyph 256 ) 63 (8.8+1.2)x10.0
```

(り)

italic correction

```
8 glyph 256 f 37 (6.94444+1.94444)x3.06665
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)x5.0TLT (packed)
.0 glyph 256 ( 60 (8.32+0.72)x5.1
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)x10.0TLT (packed)
.0 glyph 256 あ 60 (8.11+0.36)x9.0
```

f (あ)

[x]kanjiskip の挿入

kanjiskip from JFM, autospacing (JA-JA)

	F glue 0 9.4pt plus 2.3pt minus 4.5pt
	8 glyph 256 あ 63 (8.8+1.2)x10.0
	5 kern 1 -14.1pt (from 'lineend' in JFM)
	3 penalty 0 0 (for kinsoku)
ああ	6 glue 0 14.1pt plus 0.4pt minus 0.4pt (kanjiskip)
	8 glyph 256 あ 63 (8.8+1.2)x10.0

	F glue 0 9.4pt plus 2.3pt minus 4.5pt
	8 glyph 256 あ 63 (8.8+1.2)x10.0
	5 kern 1 -14.1pt (from 'lineend' in JFM)
	3 penalty 0 0 (for kinsoku)
ああ	6 glue 0 15.1pt plus 0.4pt minus 0.5pt (kanjiskip)
	8 glyph 256 あ 63 (8.8+1.2)x10.0

はあ	8 glyph 256 は 66 (10.56+1.44)x12.0
	6 glue 0 1.1pt plus 0.44pt minus 0.55pt (kanjiskip)
	8 glyph 256 あ 63 (8.8+1.2)x10.0

	F glue 0 9.4pt plus 2.3pt minus 4.5pt
	8 glyph 256 あ 63 (8.8+1.2)x10.0
	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 あ 63 (8.8+1.2)x10.0
	5 kern 1 -14.1pt (from 'lineend' in JFM)
	3 penalty 0 0 (for kinsoku)
あああ	6 glue 0 14.1pt (kanjiskip)
	8 glyph 256 あ 63 (8.8+1.2)x10.0

kanjiskip from JFM/autospacing (JA-EN)

	8 glyph 256 ま 63 (8.8+1.2)x10.0
ま x	7 glue 0 2.40553pt plus 1.0pt minus 1.0pt (xkanjiskip)
	8 glyph 256 x 62 (5.07813+0.0)x4.8877

	8 glyph 256 ま 63 (8.8+1.2)x10.0
ま x	7 glue 0 2.40553pt plus 1.0pt minus 1.0pt (xkanjiskip)
	8 glyph 256 x 62 (5.07813+0.0)x4.8877

	8 glyph 256 ま 63 (8.8+1.2)x10.0
ま x	7 glue 0 0.0pt (xkanjiskip)
	8 glyph 256 x 62 (5.07813+0.0)x4.8877

	8 glyph 256 ま 63 (8.8+1.2)x10.0
ま x	7 glue 0 3.1pt plus 0.45pt minus 0.57pt (xkanjiskip)
	8 glyph 256 x 62 (5.07813+0.0)x4.8877

	8 glyph 256 ま 63 (8.8+1.2)x10.0
ま x	7 glue 0 0.0pt (xkanjiskip)
	8 glyph 256 x 62 (5.07813+0.0)x4.8877

	8 glyph 256 ま 63 (8.8+1.2)x10.0
ま x	7 glue 0 0.0pt (xkanjiskip)
	8 glyph 256 x 62 (5.07813+0.0)x4.8877

xkanjiskip from JFM/autospacing (EN-JA)

	8 glyph 256 x 62 (5.07813+0.0)x4.8877
	3 penalty 0 0 (for kinsoku)
x ま	7 glue 0 2.40553pt plus 1.0pt minus 1.0pt (xkanjiskip)
	8 glyph 256 ま 63 (8.8+1.2)x10.0

	8 glyph 256 x 62 (5.07813+0.0)x4.8877
	3 penalty 0 0 (for kinsoku)
x ま	7 glue 0 2.40553pt plus 1.0pt minus 1.0pt (xkanjiskip)
	8 glyph 256 ま 63 (8.8+1.2)x10.0

	8 glyph 256 x 62 (5.07813+0.0)x4.8877
	3 penalty 0 0 (for kinsoku)
x ま	7 glue 0 0.0pt (xkanjiskip)
	8 glyph 256 ま 63 (8.8+1.2)x10.0

	8 glyph 256 x 62 (5.07813+0.0)x4.8877
	3 penalty 0 0 (for kinsoku)
x ま	7 glue 0 3.1pt plus 0.45pt minus 0.57pt (xkanjiskip)
	8 glyph 256 ま 63 (8.8+1.2)x10.0

	8 glyph 256 x 62 (5.07813+0.0)x4.8877
	3 penalty 0 0 (for kinsoku)
x ま	7 glue 0 0.0pt (xkanjiskip)
	8 glyph 256 ま 63 (8.8+1.2)x10.0

	8 glyph 256 x 62 (5.07813+0.0)x4.8877
	3 penalty 0 0 (for kinsoku)
	7 glue 0 0.0pt (xkanjiskip)
	8 glyph 256 ま 63 (8.8+1.2)x10.0
	6 glue 0 0.0pt plus 0.4pt minus 0.4pt (kanjiskip)
	8 glyph 256 あ 63 (8.8+1.2)x10.0
	5 kern 1 -14.1pt (from 'lineend' in JFM)
	3 penalty 0 0 (for kinsoku)
	7 glue 0 14.1pt (xkanjiskip)
まお x	8 glyph 256 x 62 (5.07813+0.0)x4.8877

more than one penalty

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8 glyph 256 お 63 (8.8+1.2)x10.0
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 ゐ 63 (8.8+1.2)x10.0

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おお

```

8 glyph 256 お 63 (8.8+1.2)x10.0
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 っ 63 (8.8+1.2)x10.0

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F glue 0 9.4pt plus 2.3pt minus 4.5pt
8 glyph 256 あ 63 (8.8+1.2)x10.0
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 ゐ 63 (8.8+1.2)x10.0

```

あお

```

F glue 0 9.4pt plus 2.3pt minus 4.5pt
8 glyph 256 あ 63 (8.8+1.2)x10.0
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 っ 63 (8.8+1.2)x10.0

```

その他: italic correction and accents

あ j

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2 hlist 0 (8.8+1.2)x10.0TLT (packed)
.0 glyph 256 あ 60 (8.11+0.36)x9.0
9 kern 1 0.0pt (italic correction)
7 glue 0 2.40553pt plus 1.0pt minus 1.0pt (xkanjiskip)
8 glyph 256 j 1 (6.67859+1.94444)x3.05557

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れ ゃ)

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8 glyph 256 れ 63 (8.8+1.2)x10.0
7 glue 0 2.40553pt plus 1.0pt minus 1.0pt (xkanjiskip)
8 kern 2 1.25pt (for accent)
8 hlist 0 (6.28473+0.0)x5.00002TLT, shifted -2.52777
.0 glyph 0 ` 1 (6.28473+0.0)x5.00002
8 kern 2 -6.25002pt (for accent)
8 glyph 256 A 1 (6.83331+0.0)x7.50002
3 penalty 0 10000 (for kinsoku)
7 glue 0 0.0pt (xkanjiskip)
8 glyph 256 ) 63 (8.8+1.2)x10.0

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その他: box boundary

かあか

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F glue 0 10.3pt
8 glyph 256 か 63 (8.8+1.2)x10.0
6 glue 0 0.0pt plus 0.4pt minus 0.4pt (kanjiskip)
8 glyph 256 あ 63 (8.8+1.2)x10.0
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 (8.8+1.2)x10.0
F kern 1 8.5pt

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a かあか a

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8 glyph 256 a 62 (5.2002+0.03906)x5.49805
F glue 0 10.3pt
8 glyph 512 か 63 (8.8+1.2)x10.0
6 glue 0 0.0pt plus 0.4pt minus 0.4pt (kanjiskip)
8 glyph 512 あ 63 (8.8+1.2)x10.0
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 (8.8+1.2)x10.0
7 glue 0 2.40553pt plus 1.0pt minus 1.0pt (xkanjiskip)
8 glyph 256 a 62 (5.2002+0.03906)x5.49805

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a か a

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8 glyph 256 a 62 (5.2002+0.03906)x5.49805
8 hlist 2 (8.8+1.2)x28.8TLT
.F glue 0 10.3pt
.8 glyph 256 か 63 (8.8+1.2)x10.0
.F kern 1 8.5pt
8 glyph 256 a 62 (5.2002+0.03906)x5.49805

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```
8 glyph 256 き 63 (8.8+1.2)x10.0
3 penalty 0 0 (for kinsoku)
8 hlist 2 (8.8+1.2)x28.8TLT
.F glue 0 10.3pt
.8 glyph 256 か 63 (8.8+1.2)x10.0
.F kern 1 8.5pt
3 penalty 0 0 (for kinsoku)
8 glyph 256 き 63 (8.8+1.2)x10.0
6 glue 0 0.0pt plus 0.4pt minus 0.4pt (kanjiskip)
8 hlist 2 (8.8+1.2)x10.0TLT
.8 glyph 256 き 63 (8.8+1.2)x10.0
6 glue 0 0.0pt plus 0.4pt minus 0.4pt (kanjiskip)
8 glyph 256 き 63 (8.8+1.2)x10.0
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2 hlist 0 (8.8+1.2)x10.0TLT (packed)
.0 glyph 256 あ 60 (8.11+0.36)x9.0
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)x5.0TLT
.2 hlist 0 (8.8+1.2)x5.0TLT (packed)
..0 glyph 256 ( 60 (8.32+0.72)x5.1
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)x10.0TLT (packed)
.0 glyph 256 あ 60 (8.11+0.36)x9.0
3 penalty 0 1000 (for kinsoku)
4 glue 0 5.0pt minus 5.0pt (from JFM)
2 hlist 0 (8.8+1.2)x5.0TLT (packed)
.0 glyph 256 ( 60 (8.32+0.72)x5.1
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)x10.0TLT (packed)
.0 glyph 256 あ 60 (8.11+0.36)x9.0
```

paragraph, hbox and math boundary

		0 whatsit 6 subtype: 66 0 hlist 3 (0.0+0.0)x19.2TLT F glue 0 6.8pt plus 0.2pt minus 0.4pt 8 glyph 256 か 63 (8.8+1.2)x10.0 3 penalty 0 500 (for kinsoku) 6 glue 0 0.0pt plus 0.4pt minus 0.4pt (kanjiskip) 8 glyph 256 工 63 (8.8+1.2)x10.0 8 penalty 0 10000 0 glue 15 30.0pt 0 glue 9 0.0pt
か	工	0 whatsit 6 subtype: 66 F glue 0 10.3pt 8 glyph 256 か 63 (8.8+1.2)x10.0 3 penalty 0 500 (for kinsoku) 6 glue 0 0.0pt plus 0.4pt minus 0.4pt (kanjiskip) 8 glyph 256 工 63 (8.8+1.2)x10.0 8 penalty 0 10000 0 glue 15 30.0pt 0 glue 9 0.0pt
か	工	F glue 0 10.3pt 8 glyph 256 か 63 (8.8+1.2)x10.0 6 glue 0 0.0pt plus 0.4pt minus 0.4pt (kanjiskip) 8 glyph 256 工 63 (8.8+1.2)x10.0 F glue 0 7.8pt
か工		F glue 0 9.4pt plus 2.3pt minus 4.5pt 8 glyph 256 あ 63 (8.8+1.2)x10.0 5 kern 1 -14.1pt (from 'lineend' in JFM) 3 penalty 0 0 (for kinsoku) 4 glue 0 26.6pt plus 4.3pt minus 8.7pt (from JFM) 8 math 0 8 glyph 256 a 7 (4.30554+0.0)x5.28589 8 math 1 3 penalty 0 0 (for kinsoku) 4 glue 0 6.8pt plus 0.2pt minus 0.4pt (from JFM) 8 glyph 256 さ 63 (8.8+1.2)x10.0 7 glue 0 2.40553pt plus 1.0pt minus 1.0pt (xkanjiskip) 8 math 0 8 glyph 256 a 7 (4.30554+0.0)x5.28589 8 math 1 3 penalty 0 0 (for kinsoku) 7 glue 0 2.40553pt plus 1.0pt minus 1.0pt (xkanjiskip) 8 glyph 256 か 63 (8.8+1.2)x10.0 F kern 1 8.5pt
あ	a さ a か	
その他: unhbox の連続		
) a		2 hlist 0 (8.4675+1.15466)x4.81108TLT (packed) .0 glyph 256) 51 (8.4675+1.15466)x9.62216 4 glue 0 4.81108pt minus 4.81108pt (from JFM) 8 glyph 512 a 62 (5.2002+0.03906)x5.49805
) a		2 hlist 0 (8.4675+1.15466)x4.81108TLT (packed) .0 glyph 256) 51 (8.4675+1.15466)x9.62216 4 glue 0 4.81108pt minus 4.81108pt (from JFM) 8 glyph 512 a 62 (5.2002+0.03906)x5.49805
() () 「 」		2 hlist 0 (8.4675+1.15466)x4.81108TLT (packed) .0 glyph 256 (51 (8.4675+1.15466)x9.62216 3 penalty 0 10000 (for kinsoku) 6 glue 0 0.0pt plus 0.4pt minus 0.4pt (kanjiskip) 2 hlist 0 (8.4675+1.15466)x4.81108TLT (packed) .0 glyph 256) 51 (8.4675+1.15466)x9.62216 4 glue 0 4.81108pt minus 4.81108pt (from JFM) 2 hlist 0 (8.4675+1.15466)x4.81108TLT (packed) .0 glyph 256 (51 (8.4675+1.15466)x9.62216 3 penalty 0 10000 (for kinsoku) 6 glue 0 0.0pt plus 0.4pt minus 0.4pt (kanjiskip) 2 hlist 0 (8.4675+1.15466)x4.81108TLT (packed) .0 glyph 256 「 51 (8.4675+1.15466)x9.62216 3 penalty 0 10000 (for kinsoku) 6 glue 0 0.0pt plus 0.4pt minus 0.4pt (kanjiskip) 2 hlist 0 (8.4675+1.15466)x4.81108TLT (packed) .0 glyph 256 」 51 (8.4675+1.15466)x9.62216