

The following is a copy of the log file created by a JSBox TeX language interpreter when asked to execute a “trip.tex” test file. This input file is identical to Knuth’s original “trip.tex” test file, with the exception that one new command, `\showfont\trip`, has been added to integrally dump the metrics of the trip test’s related “trip.tfm” font file.

```
JSBox 0.8.2 [32/64-bit] [TeX82 features only]
Monday, July 21, 2014 10:11:52 PM Mountain Daylight Time
```

```
Context : "trip.tex"[Line 2]
```

```
Warning : Ignoring \immediate. It only modifies output-related commands (e.g., \write), not \catcode.
Line 2 : \immediate\catcode`\{ = 1 \endlinechar=13
^^^^^^^^^^
```

```
Warning : Å is a legal Unicode, but not an 8-bit, character code [Å = ^u0100 = 256].
: [JSBox features, which support 21-bit Unicode character values, are not enabled.]
```

```
Line 10 : \let\par=\par \defaultthyphenchar=- \defaultskewchar=256
^^^^
```

```
>ERROR< | Å is not an 8-bit character value [Å = ^u0100 = 256]. Using 0 instead.
| [JSBox features, which support 21-bit Unicode character values, are not enabled.]
```

```
Line 26 | \nonstopmode\lccode256-0\mathchardef\aa="8000\def\aa{ SCALED 3~2769}
^^^^
```

```
>ERROR< | Character value (32768 = "8000") is outside the math code range [0 .. "7FFF"]. Using 0 instead.
Line 26 | \nonstopmode\lccode256-0\mathchardef\aa="8000\def\aa{ SCALED 3~2769}
^^^^
```

```
>ERROR< | Found 32769 after "scaled". Font magnification must be in the range [1 .. 32768]. Using 1000 instead.
Line 28 | \skewchar\rip=B \countdef\countz % \countz will be \count0
```

```
>ERROR< | Found "\def". Expecting an integer constant after "\countz". Using 0.
Line 29 | \def\on{1} \toksdef\tokens=256 \show\errorstopmode
^^^^
```

```
>ERROR< | Expecting a register index in range [0 .. 255]. Found 256. Using 0 instead.
| [e-TeX and JSBox features, which support 32768 registers, are not enabled.]
```

```
Line 29 | \def\on{1} \toksdef\tokens=256 \show\errorstopmode
^^^^
```

```
Line 29 | \show \errorstopmode
\errorstopmode
```

```
Line 30 | \showthe \font
\rip
```

```
Line 30 | \showthe \pageshrink
0.0pt
```

```
Line 30 | \showthe \pagegoal
16383.99998pt
```

```
>ERROR< | Illegal unit of measure "filllll". Using "fillll" instead.
Line 32 | \skip200 = 10pt plUs5fil\ifdim\hsize<\hsize\fi lllminus 0 fill
^
```

```
\one \csname on line 60
```

```
>ERROR< | Attempt to execute or assign to \badness. This is a read-only value.
Line 61 | \hyphenpenalty 88 \exhyphenpenalty 89 \badness
^^^^^^^^
```

```
Warning : First syllable of word 1 is likely too short for successful hyphenation.
```

```
Line 72 : \language-1\hyphenation\relax{b-?-\char`b -\^^bb-^^62-^^" -t- }\lccode`149
^
```

```
Warning : Last syllable of word 1 is likely too short for successful hyphenation.
```

```
Line 72 : \language-1\hyphenation\relax{b-?-\char`b -\^^bb-^^62-^^" -t- }\lccode`149
```



```

kern : 3.0
text : \rip s [1 char, wd=0.0pt] [ `s = "73 = 115]
glue : 4.0 plus 2.0 minus 1.0 [interword space]
kern : -1.00002
liga : \rip - <-- {-^@} [2-char] [1 char, wd=-5.0pt] [ ` - = "2D = 45]
liga : \rip p <-- {q} [1-char] [1 char, wd=0.0pt] [ `p = "70 = 112]
liga : \rip t <-- {} [0-char] [1 char, wd=0.0pt] [ `t = "74 = 116]
liga : \rip s <-- {} [0-char] [1 char, wd=0.0pt] [ `s = "73 = 115]
liga : \rip q <-- {} [0-char] [1 char, wd=0.0pt] [ `q = "71 = 113]
liga : \rip t <-- {} [0-char] [1 char, wd=0.0pt] [ `t = "74 = 116]
kern : 3.0
liga : \rip q <-- {} [0-char] [1 char, wd=0.0pt] [ `q = "71 = 113]
liga : \rip p <-- {} [0-char] [1 char, wd=0.0pt] [ `p = "70 = 112]
liga : \rip r <-- {q|} [1-char] [1 char, wd=0.0pt] [ `r = "72 = 114]
glue : 4.0 plus 2.0 minus 1.0 [interword space]
[Line 77] internal vertical mode entered [prevdepth ignored] [empty list]
[Line 77] internal vertical mode entered [prevdepth=0.0] [1 item]
glue : 0.0 [from \tabskip]
[Line 76] restricted horizontal mode entered [spacefactor=1000] [empty list]
[Line 76] restricted horizontal mode entered [spacefactor=1000] [empty list]
[Line 0] vertical mode entered [0 items] [= pending contributions list]
[[ - - - - - End of Nested Layout Lists - - - - - ]]

```

Typesetting paragraph #1 at source line 78:

```
[ ] \rip 7A[ ]11 11 [ ]11pts -^^@qq [ ]111
```

Relevant parameters:

```

\vsizex=0.0, \hsizex=0.0, \leftskip=0.0, \rightskip=0.0, \vfuzz=0.0, \hfuzz=0.0
\pretolerance=-1 [skipping first pass], \tolerance=10000, \emergencystretch=9.0
\looseness=-1 [1 line shorter], \hbadness=100
\linepenalty=0, \interlinepenalty=-125
\clubpenalty=125, \brokenpenalty=37, \hyphenpenalty=88, \exhyphenpenalty=89
\uchyph=0 [no uppercase word hyphenation]
\doublehyphendemerits=1000, \finalhyphendemerits=100000, \adjdemerits=0
\parshape=normal, \hangindent=0.0, \hangafter=1 [hanging indentation, if any, begins on line 2]

```

Finding line-breaks: [@=active @@=passive b=badness p=penalty d=demerits t=total demerits]

@firstpass (skipping)

@secondpass

[]

@ via @@0 b=0 p=0 d=0

@@1: line 1.2 t=0 -> @@0

\rip 7A[]11

@ via @@0 b=10000 p=0 d=100000000

@@2: line 1.0 t=100000000 -> @@0

@ via @@1 b=10000 p=0 d=100000000

@@3: line 2.0 t=100000000 -> @@1

11

@ via @@0 b=4291 p=0 d=18412681

@@4: line 1.0 t=18412681 -> @@0

@ via @@2 b=10000 p=0 d=100000000

@@5: line 2.0 t=200000000 -> @@2

@ via @@3 b=10000 p=0 d=100000000

@@6: line 3.0 t=200000000 -> @@3

[]11pts

@ via @@0 b=0 p=0 d=0

@@7: line 1.2 t=0 -> @@0

-^^@qq

@ via @@0 b=4 p=0 d=16

@@8: line 1.2 t=16 -> @@0

```

@ via @@7 b=10000 p=0 d=100000000
@@9: line 2.0 t=100000000 -> @@7
[]111
@ \par via @@0 b=2 p=-10000 d=4
@@10: line 1.2- t=4 -> @@0
@ \par via @@8 b=10000 p=-10000 d=100000000
@ \par via @@7 b=336 p=-10000 d=112896
@@11: line 2.0- t=112896 -> @@7
@ \par via @@9 b=10000 p=-10000 d=100000000
@@12: line 3.0- t=200000000 -> @@9
@emergencypass
[]
@ via @@0 b=0 p=0 d=0
@@1: line 1.2 t=0 -> @@0
\rip 7A[]11
@ via @@0 b=100 p=0 d=10000
@@2: line 1.0 t=10000 -> @@0
@ via @@1 b=0 p=0 d=0
@@3: line 2.2 t=0 -> @@1
11
@ via @@0 b=26 p=0 d=676
@@4: line 1.1 t=676 -> @@0
@ via @@2 b=1 p=0 d=1
@@5: line 2.2 t=10001 -> @@2
@ via @@3 b=1 p=0 d=1
@@6: line 3.2 t=1 -> @@3
[]11pts
@ via @@0 b=0 p=0 d=0
@@7: line 1.2 t=0 -> @@0
-^^@qq
@ via @@0 b=4 p=0 d=16
@@8: line 1.2 t=16 -> @@0
@ via @@7 b=4 p=0 d=16
@@9: line 2.2 t=16 -> @@7
[]111
@ \par via @@0 b=2 p=-10000 d=4
@@10: line 1.2- t=4 -> @@0
@ \par via @@8 b=9 p=-10000 d=81
@ \par via @@7 b=2 p=-10000 d=4
@@11: line 2.2- t=4 -> @@7
@ \par via @@9 b=9 p=-10000 d=81
@@12: line 3.2- t=97 -> @@9

```

```

>ERROR< | Hyphenation pattern tables can't be altered after typesetting has started.
Line 79 | \hyphenchar\rip='-\cr}}\patterns{toolate}\showbox0}
          ^^^^^^^^^

```

```

Line 79 | \showbox 0
hbox : [id=10] (8.0 + 0.0) x 0.0 [rigid], contains 1 item
  vbox : [id=7] (8.0 + 0.0) x 0.0 [rigid], contains 3 items
    glue : 0.0 [from \tabskip]
    vbox : [id=6] (8.0 + 0.0) x 0.0 [rigid], contains 1 item
      hbox : [id=5] (7.0 + 1.0) x 0.0, shrunk using -0.24992, contains 174 items
        [uses font \rip = trip.tfm [unscaled]]
        hbox : [id=4] (0.0 + 0.0) x 0.0 [rigid] [empty]
        glue : -9.0 [\hskip]
        liga : \rip A <-- {7A} [2-char] [1 char, wd=2.0pt] [ `A = "41 = 65]
        lang : 98; hyphen mins=(1, 1)
        liga : \rip 5 <-- {|1} [1-char] [1 char, wd=0.0pt] [ `5 = "35 = 53]
        liga : \rip 7 <-- {} [0-char] [1 char, wd=0.0pt] [ `7 = "37 = 55]

```

```

liga : \rip 6 <-- {} [0-char] [1 char, wd=0.0pt] [ `6 = "36 = 54]
liga : \rip 7 <-- {} [0-char] [1 char, wd=0.0pt] [ `7 = "37 = 55]
kern : -2.00002
text : \rip 1 [1 char, wd=0.0pt] [ `1 = "31 = 49]
liga : \rip 7 <-- {} [0-char] [1 char, wd=0.0pt] [ `7 = "37 = 55]
glue : 4.0 plus 1.99799 minus 1.00099 [interword space]
liga : \rip 5 <-- {1} [1-char] [1 char, wd=0.0pt] [ `5 = "35 = 53]
liga : \rip 7 <-- {} [0-char] [1 char, wd=0.0pt] [ `7 = "37 = 55]
liga : \rip 6 <-- {} [0-char] [1 char, wd=0.0pt] [ `6 = "36 = 54]
liga : \rip 7 <-- {} [0-char] [1 char, wd=0.0pt] [ `7 = "37 = 55]
kern : -2.00002
text : \rip 1 [1 char, wd=0.0pt] [ `1 = "31 = 49]
glue : 4.0 plus 2.0 minus 1.0 [interword space]
lang : 255; hyphen mins=(1, 1)
liga : \rip 5 <-- {1} [1-char] [1 char, wd=0.0pt] [ `5 = "35 = 53]
liga : \rip 5 <-- {1} [1-char] [1 char, wd=0.0pt] [ `5 = "35 = 53]
liga : \rip t <-- {pt} [2-char] [1 char, wd=0.0pt] [ `t = "74 = 116]
kern : 3.0
text : \rip s [1 char, wd=0.0pt] [ `s = "73 = 115]
glue : 4.0 plus 2.0 minus 1.0 [interword space]
kern : -1.00002
liga : \rip - <-- {-^@} [2-char] [1 char, wd=-5.0pt] [ ` - = "2D = 45]
liga : \rip p <-- {q} [1-char] [1 char, wd=0.0pt] [ `p = "70 = 112]
liga : \rip t <-- {} [0-char] [1 char, wd=0.0pt] [ `t = "74 = 116]
liga : \rip s <-- {} [0-char] [1 char, wd=0.0pt] [ `s = "73 = 115]
liga : \rip q <-- {} [0-char] [1 char, wd=0.0pt] [ `q = "71 = 113]
liga : \rip t <-- {} [0-char] [1 char, wd=0.0pt] [ `t = "74 = 116]
kern : 3.0
liga : \rip q <-- {} [0-char] [1 char, wd=0.0pt] [ `q = "71 = 113]
liga : \rip p <-- {} [0-char] [1 char, wd=0.0pt] [ `p = "70 = 112]
liga : \rip r <-- {q} [1-char] [1 char, wd=0.0pt] [ `r = "72 = 114]
glue : 4.0 plus 2.0 minus 1.0 [interword space]
lang : 98; hyphen mins=(1, 1)
text : \rip 1 [1 char, wd=0.0pt] [ `1 = "31 = 49]
liga : \rip 7 <-- {} [0-char] [1 char, wd=0.0pt] [ `7 = "37 = 55]
liga : \rip 6 <-- {} [0-char] [1 char, wd=0.0pt] [ `6 = "36 = 54]
liga : \rip 7 <-- {} [0-char] [1 char, wd=0.0pt] [ `7 = "37 = 55]
liga : \rip 5 <-- {} [0-char] [1 char, wd=0.0pt] [ `5 = "35 = 53]
liga : \rip 7 <-- {} [0-char] [1 char, wd=0.0pt] [ `7 = "37 = 55]
liga : \rip 6 <-- {} [0-char] [1 char, wd=0.0pt] [ `6 = "36 = 54]
liga : \rip 7 <-- {} [0-char] [1 char, wd=0.0pt] [ `7 = "37 = 55]
liga : \rip 4 <-- {} [0-char] [1 char, wd=0.0pt] [ `4 = "34 = 52]
liga : \rip 7 <-- {} [0-char] [1 char, wd=0.0pt] [ `7 = "37 = 55]
liga : \rip 6 <-- {} [0-char] [1 char, wd=0.0pt] [ `6 = "36 = 54]
liga : \rip 7 <-- {} [0-char] [1 char, wd=0.0pt] [ `7 = "37 = 55]
liga : \rip 5 <-- {} [0-char] [1 char, wd=0.0pt] [ `5 = "35 = 53]
liga : \rip 7 <-- {} [0-char] [1 char, wd=0.0pt] [ `7 = "37 = 55]
liga : \rip 6 <-- {} [0-char] [1 char, wd=0.0pt] [ `6 = "36 = 54]
liga : \rip 7 <-- {} [0-char] [1 char, wd=0.0pt] [ `7 = "37 = 55]
etc. : 119 unshown items ... [\showboxbreadth=55]
glue : 0.0 [from \tabskip]

```

```

>ERROR< | \dump is unimplemented. Execution will continue without creating a format file.
Line 92 | \next % if no format was preloaded, this will dump the trip.fmt file and halt
^^^^^^

```

Warning : The \showfont command is unsupported in standard TeX.

```

Line 93 : \showfont\rip
^^^^^^^^

```

```

Line 93 | \showfont \rip

```

```

trip.tfm [unscaled] [loaded using ID=1]
TEX TEST: NOT A REAL FONT : UNSPECIFIED
Design size: 10pt
Dimen #1: -2.0 [rightward slant ratio]
Dimen #2: 4.0pt
Dimen #3: 2.0pt [interword glue: space + stretch - shrink]
Dimen #4: 1.0pt
Dimen #5: 4.49998pt [x height]
Dimen #6: 10.0pt [em/quad width]
Dimen #7: 2.0pt [extra space for sentence ends]
Dimen #8: 0.5pt [default rule thickness]
Dimen #9: 1.0pt [big op spacing 1]
Dimen #10: 2.0pt [big op spacing 2]
Dimen #11: 3.0pt [big op spacing 3]
Dimen #12: 4.0pt [big op spacing 4]
Dimen #13: 5.0pt [big op spacing 5]
23 characters from 0 to 130
108 missing chars: [^^A = "01 = 1 = <SOH>] to [, = "2C = 44] (44 chars)
[. = "2E = 46] (1 char)
[0 = "30 = 48] (1 char)
[8 = "38 = 56] to [0 = "40 = 64] (9 chars)
[D = "44 = 68] to [L = "4C = 76] (9 chars)
[N = "4E = 78] to [ = "60 = 96] (19 chars)
[c = "63 = 99] to [o = "6F = 111] (13 chars)
[v = "76 = 118] to [ = "81 = 129] (12 chars)
Boundary Char: Z [Z = "5A = 90]
False Boundary Char: Z [Z = "5A = 90]
Boundary Char Label: at 292
Character codes and their metrics: [Missing dimensions are 0.0]
Char ^^@ [Wd=7.0 Ht=-1.00002 Dp=2.0] [^^@ = "00 = 0 = <null>]
Char - [Wd=-5.0] [- = "2D = 45] (lig/kern at 246)
Char / [Wd=1.0] [/ = "2F = 47] (lig/kern at 248)
Char 1 [1 = "31 = 49] (lig/kern at 9)
Char 2 [2 = "32 = 50] (lig/kern at 8)
Char 3 [3 = "33 = 51] (lig/kern at 7)
Char 4 [4 = "34 = 52] (lig/kern at 6)
Char 5 [5 = "35 = 53] (lig/kern at 5)
Char 6 [6 = "36 = 54] (lig/kern at 4)
Char 7 [7 = "37 = 55] (lig/kern at 3)
Char A [Wd=2.0 Ht=7.0 Dp=1.0 It=1.0] [A = "41 = 65] (lig/kern at 2)
Char B [Wd=3.0 Ht=8.0 Dp=2.0] [B = "42 = 66] (lig/kern at 1)
Char C [Wd=4.0] [C = "43 = 67] (lig/kern at 0)
Char M [Wd=6.0 It=2.0] [M = "4D = 77] (extensible at 0)
Char a [Wd=2.0 Ht=7.0 Dp=1.0 It=1.0] [a = "61 = 97] (^82 next in list)
Char b [Wd=3.0 Ht=8.0 Dp=2.0] [b = "62 = 98] (M next in list)
Char p [p = "70 = 112] (lig/kern at 14)
Char q [q = "71 = 113] (lig/kern at 13)
Char r [r = "72 = 114] (lig/kern at 12)
Char s [s = "73 = 115] (lig/kern at 11)
Char t [t = "74 = 116] (lig/kern at 15)
Char u [u = "75 = 117] (lig/kern at 10)
Char ^^82 [Wd=4.0] [- = "82 = 130]
Ligature/Kern Instructions:
0: boundary char=Z goto=326 [sk=255 ch=90 op=1 rm=70]
1: boundary char=Z goto=323 [sk=255 ch=90 op=1 rm=67]
2: boundary char=Z goto=319 [sk=255 ch=90 op=1 rm=63]
3: boundary char=Z goto=318 [sk=255 ch=90 op=1 rm=62]
4: boundary char=Z goto=312 [sk=255 ch=90 op=1 rm=56]
5: boundary char=Z goto=307 [sk=255 ch=90 op=1 rm=51]

```


65: if next=^^@ ki=50 kern=-5.0; else 66	[sk=0 ch=0 op=128 rm=50]	[`^^@ = "00 = 0 = <null>]
66: if next=^^@ ki=51 kern=-5.1; else 67	[sk=0 ch=0 op=128 rm=51]	[`^^@ = "00 = 0 = <null>]
67: if next=^^@ ki=52 kern=-5.20001; else 68	[sk=0 ch=0 op=128 rm=52]	[`^^@ = "00 = 0 = <null>]
68: if next=^^@ ki=53 kern=-5.3; else 69	[sk=0 ch=0 op=128 rm=53]	[`^^@ = "00 = 0 = <null>]
69: if next=^^@ ki=54 kern=-5.40001; else 70	[sk=0 ch=0 op=128 rm=54]	[`^^@ = "00 = 0 = <null>]
70: if next=^^@ ki=55 kern=-5.50002; else 71	[sk=0 ch=0 op=128 rm=55]	[`^^@ = "00 = 0 = <null>]
71: if next=^^@ ki=56 kern=-5.6; else 72	[sk=0 ch=0 op=128 rm=56]	[`^^@ = "00 = 0 = <null>]
72: if next=^^@ ki=57 kern=-5.7; else 73	[sk=0 ch=0 op=128 rm=57]	[`^^@ = "00 = 0 = <null>]
73: if next=^^@ ki=58 kern=-5.8; else 74	[sk=0 ch=0 op=128 rm=58]	[`^^@ = "00 = 0 = <null>]
74: if next=^^@ ki=59 kern=-5.90001; else 75	[sk=0 ch=0 op=128 rm=59]	[`^^@ = "00 = 0 = <null>]
75: if next=^^@ ki=60 kern=-6.00002; else 76	[sk=0 ch=0 op=128 rm=60]	[`^^@ = "00 = 0 = <null>]
76: if next=^^@ ki=61 kern=-6.1; else 77	[sk=0 ch=0 op=128 rm=61]	[`^^@ = "00 = 0 = <null>]
77: if next=^^@ ki=62 kern=-6.20001; else 78	[sk=0 ch=0 op=128 rm=62]	[`^^@ = "00 = 0 = <null>]
78: if next=^^@ ki=63 kern=-6.3; else 79	[sk=0 ch=0 op=128 rm=63]	[`^^@ = "00 = 0 = <null>]
79: if next=^^@ ki=64 kern=-6.40001; else 80	[sk=0 ch=0 op=128 rm=64]	[`^^@ = "00 = 0 = <null>]
80: if next=^^@ ki=65 kern=-6.5; else 81	[sk=0 ch=0 op=128 rm=65]	[`^^@ = "00 = 0 = <null>]
81: if next=^^@ ki=66 kern=-6.6; else 82	[sk=0 ch=0 op=128 rm=66]	[`^^@ = "00 = 0 = <null>]
82: if next=^^@ ki=67 kern=-6.70001; else 83	[sk=0 ch=0 op=128 rm=67]	[`^^@ = "00 = 0 = <null>]
83: if next=^^@ ki=68 kern=-6.8; else 84	[sk=0 ch=0 op=128 rm=68]	[`^^@ = "00 = 0 = <null>]
84: if next=^^@ ki=69 kern=-6.90001; else 85	[sk=0 ch=0 op=128 rm=69]	[`^^@ = "00 = 0 = <null>]
85: if next=^^@ ki=70 kern=-7.0; else 86	[sk=0 ch=0 op=128 rm=70]	[`^^@ = "00 = 0 = <null>]
86: if next=^^@ ki=71 kern=-7.1; else 87	[sk=0 ch=0 op=128 rm=71]	[`^^@ = "00 = 0 = <null>]
87: if next=^^@ ki=72 kern=-7.20001; else 88	[sk=0 ch=0 op=128 rm=72]	[`^^@ = "00 = 0 = <null>]
88: if next=^^@ ki=73 kern=-7.3; else 89	[sk=0 ch=0 op=128 rm=73]	[`^^@ = "00 = 0 = <null>]
89: if next=^^@ ki=74 kern=-7.40001; else 90	[sk=0 ch=0 op=128 rm=74]	[`^^@ = "00 = 0 = <null>]
90: if next=^^@ ki=75 kern=-7.5; else 91	[sk=0 ch=0 op=128 rm=75]	[`^^@ = "00 = 0 = <null>]
91: if next=^^@ ki=76 kern=-7.6; else 92	[sk=0 ch=0 op=128 rm=76]	[`^^@ = "00 = 0 = <null>]
92: if next=^^@ ki=77 kern=-7.70001; else 93	[sk=0 ch=0 op=128 rm=77]	[`^^@ = "00 = 0 = <null>]
93: if next=^^@ ki=78 kern=-7.8; else 94	[sk=0 ch=0 op=128 rm=78]	[`^^@ = "00 = 0 = <null>]
94: if next=^^@ ki=79 kern=-7.90001; else 95	[sk=0 ch=0 op=128 rm=79]	[`^^@ = "00 = 0 = <null>]
95: if next=^^@ ki=80 kern=-8.00002; else 96	[sk=0 ch=0 op=128 rm=80]	[`^^@ = "00 = 0 = <null>]
96: if next=^^@ ki=81 kern=-8.1; else 97	[sk=0 ch=0 op=128 rm=81]	[`^^@ = "00 = 0 = <null>]
97: if next=^^@ ki=82 kern=-8.2; else 98	[sk=0 ch=0 op=128 rm=82]	[`^^@ = "00 = 0 = <null>]
98: if next=^^@ ki=83 kern=-8.3; else 99	[sk=0 ch=0 op=128 rm=83]	[`^^@ = "00 = 0 = <null>]
99: if next=^^@ ki=84 kern=-8.40001; else 100	[sk=0 ch=0 op=128 rm=84]	[`^^@ = "00 = 0 = <null>]
100: if next=^^@ ki=85 kern=-8.50002; else 101	[sk=0 ch=0 op=128 rm=85]	[`^^@ = "00 = 0 = <null>]
101: if next=^^@ ki=86 kern=-8.6; else 102	[sk=0 ch=0 op=128 rm=86]	[`^^@ = "00 = 0 = <null>]
102: if next=^^@ ki=87 kern=-8.70001; else 103	[sk=0 ch=0 op=128 rm=87]	[`^^@ = "00 = 0 = <null>]
103: if next=^^@ ki=88 kern=-8.8; else 104	[sk=0 ch=0 op=128 rm=88]	[`^^@ = "00 = 0 = <null>]
104: if next=^^@ ki=89 kern=-8.90001; else 105	[sk=0 ch=0 op=128 rm=89]	[`^^@ = "00 = 0 = <null>]
105: if next=^^@ ki=90 kern=-9.0; else 106	[sk=0 ch=0 op=128 rm=90]	[`^^@ = "00 = 0 = <null>]
106: if next=^^@ ki=91 kern=-9.1; else 107	[sk=0 ch=0 op=128 rm=91]	[`^^@ = "00 = 0 = <null>]
107: if next=^^@ ki=92 kern=-9.20001; else 108	[sk=0 ch=0 op=128 rm=92]	[`^^@ = "00 = 0 = <null>]
108: if next=^^@ ki=93 kern=-9.3; else 109	[sk=0 ch=0 op=128 rm=93]	[`^^@ = "00 = 0 = <null>]
109: if next=^^@ ki=94 kern=-9.40001; else 110	[sk=0 ch=0 op=128 rm=94]	[`^^@ = "00 = 0 = <null>]
110: if next=^^@ ki=95 kern=-9.5; else 111	[sk=0 ch=0 op=128 rm=95]	[`^^@ = "00 = 0 = <null>]
111: if next=^^@ ki=96 kern=-9.6; else 112	[sk=0 ch=0 op=128 rm=96]	[`^^@ = "00 = 0 = <null>]
112: if next=^^@ ki=97 kern=-9.70001; else 113	[sk=0 ch=0 op=128 rm=97]	[`^^@ = "00 = 0 = <null>]
113: if next=^^@ ki=98 kern=-9.8; else 114	[sk=0 ch=0 op=128 rm=98]	[`^^@ = "00 = 0 = <null>]
114: if next=^^@ ki=99 kern=-9.90001; else 115	[sk=0 ch=0 op=128 rm=99]	[`^^@ = "00 = 0 = <null>]
115: if next=^^@ ki=0 kern=-10.0; else 116	[sk=0 ch=0 op=128 rm=0]	[`^^@ = "00 = 0 = <null>]
116: if next=^^@ ki=100 kern=-10.1; else 117	[sk=0 ch=0 op=128 rm=100]	[`^^@ = "00 = 0 = <null>]
117: if next=^^@ ki=101 kern=-10.20001; else 118	[sk=0 ch=0 op=128 rm=101]	[`^^@ = "00 = 0 = <null>]
118: if next=^^@ ki=102 kern=-10.3; else 119	[sk=0 ch=0 op=128 rm=102]	[`^^@ = "00 = 0 = <null>]
119: if next=^^@ ki=103 kern=-10.40001; else 120	[sk=0 ch=0 op=128 rm=103]	[`^^@ = "00 = 0 = <null>]
120: if next=^^@ ki=104 kern=-10.50002; else 121	[sk=0 ch=0 op=128 rm=104]	[`^^@ = "00 = 0 = <null>]
121: if next=^^@ ki=105 kern=-10.6; else 122	[sk=0 ch=0 op=128 rm=105]	[`^^@ = "00 = 0 = <null>]
122: if next=^^@ ki=106 kern=-10.7; else 123	[sk=0 ch=0 op=128 rm=106]	[`^^@ = "00 = 0 = <null>]
123: if next=^^@ ki=107 kern=-10.8; else 124	[sk=0 ch=0 op=128 rm=107]	[`^^@ = "00 = 0 = <null>]


```

183: if next==^@ ki=167 kern=-16.8; else 184
184: if next==^@ ki=168 kern=-16.90001; else 185
185: if next==^@ ki=169 kern=-17.0; else 186
186: if next==^@ ki=170 kern=-17.1; else 187
187: if next==^@ ki=171 kern=-17.20001; else 188
188: if next==^@ ki=172 kern=-17.3; else 189
189: if next==^@ ki=173 kern=-17.40001; else 190
190: if next==^@ ki=174 kern=-17.5; else 191
191: if next==^@ ki=175 kern=-17.6; else 192
192: if next==^@ ki=176 kern=-17.70001; else 193
193: if next==^@ ki=177 kern=-17.8; else 194
194: if next==^@ ki=178 kern=-17.90001; else 195
195: if next==^@ ki=179 kern=-18.00002; else 196
196: if next==^@ ki=180 kern=-18.1; else 197
197: if next==^@ ki=181 kern=-18.2; else 198
198: if next==^@ ki=182 kern=-18.3; else 199
199: if next==^@ ki=183 kern=-18.40001; else 200
200: if next==^@ ki=184 kern=-18.50002; else 201
201: if next==^@ ki=185 kern=-18.6; else 202
202: if next==^@ ki=186 kern=-18.70001; else 203
203: if next==^@ ki=187 kern=-18.8; else 204
204: if next==^@ ki=188 kern=-18.90001; else 205
205: if next==^@ ki=189 kern=-19.0; else 206
206: if next==^@ ki=190 kern=-19.1; else 207
207: if next==^@ ki=191 kern=-19.20001; else 208
208: if next==^@ ki=192 kern=-19.3; else 209
209: if next==^@ ki=193 kern=-19.40001; else 210
210: if next==^@ ki=194 kern=-19.5; else 211
211: if next==^@ ki=195 kern=-19.6; else 212
212: if next==^@ ki=196 kern=-19.70001; else 213
213: if next==^@ ki=197 kern=-19.8; else 214
214: if next==^@ ki=198 kern=-19.90001; else 215
215: if next==^@ ki=199 kern=-20.0; else 216
216: if next==^@ ki=200 kern=-20.1; else 217
217: if next==^@ ki=201 kern=-20.20001; else 218
218: if next==^@ ki=202 kern=-20.3; else 219
219: if next==^@ ki=203 kern=-20.40001; else 220
220: if next==^@ ki=204 kern=-20.50002; else 221
221: if next==^@ ki=205 kern=-20.6; else 222
222: if next==^@ ki=206 kern=-20.7; else 223
223: if next==^@ ki=207 kern=-20.8; else 224
224: if next==^@ ki=208 kern=-20.90001; else 225
225: if next==^@ ki=209 kern=-21.00002; else 226
226: if next==^@ ki=210 kern=-21.1; else 227
227: if next==^@ ki=211 kern=-21.20001; else 228
228: if next==^@ ki=212 kern=-21.3; else 229
229: if next==^@ ki=213 kern=-21.40001; else 230
230: if next==^@ ki=214 kern=-21.5; else 231
231: if next==^@ ki=215 kern=-21.6; else 232
232: if next==^@ ki=216 kern=-21.70001; else 233
233: if next==^@ ki=217 kern=-21.8; else 234
234: if next==^@ ki=218 kern=-21.90001; else 235
235: if next==^@ ki=219 kern=-22.0; else 236
236: if next==^@ ki=220 kern=-22.1; else 237
237: if next==^@ ki=221 kern=-22.20001; else 238
238: if next==^@ ki=222 kern=-22.3; else 239
239: if next==^@ ki=223 kern=-22.40001; else 240
240: if next==^@ ki=224 kern=-22.5; else 241
241: if next==^@ ki=225 kern=-22.6; else 242

```

```

[sk=0 ch=0 op=128 rm=167] ['^@ = "00 = 0 = <null>]
[sk=0 ch=0 op=128 rm=168] ['^@ = "00 = 0 = <null>]
[sk=0 ch=0 op=128 rm=169] ['^@ = "00 = 0 = <null>]
[sk=0 ch=0 op=128 rm=170] ['^@ = "00 = 0 = <null>]
[sk=0 ch=0 op=128 rm=171] ['^@ = "00 = 0 = <null>]
[sk=0 ch=0 op=128 rm=172] ['^@ = "00 = 0 = <null>]
[sk=0 ch=0 op=128 rm=173] ['^@ = "00 = 0 = <null>]
[sk=0 ch=0 op=128 rm=174] ['^@ = "00 = 0 = <null>]
[sk=0 ch=0 op=128 rm=175] ['^@ = "00 = 0 = <null>]
[sk=0 ch=0 op=128 rm=176] ['^@ = "00 = 0 = <null>]
[sk=0 ch=0 op=128 rm=177] ['^@ = "00 = 0 = <null>]
[sk=0 ch=0 op=128 rm=178] ['^@ = "00 = 0 = <null>]
[sk=0 ch=0 op=128 rm=179] ['^@ = "00 = 0 = <null>]
[sk=0 ch=0 op=128 rm=180] ['^@ = "00 = 0 = <null>]
[sk=0 ch=0 op=128 rm=181] ['^@ = "00 = 0 = <null>]
[sk=0 ch=0 op=128 rm=182] ['^@ = "00 = 0 = <null>]
[sk=0 ch=0 op=128 rm=183] ['^@ = "00 = 0 = <null>]
[sk=0 ch=0 op=128 rm=184] ['^@ = "00 = 0 = <null>]
[sk=0 ch=0 op=128 rm=185] ['^@ = "00 = 0 = <null>]
[sk=0 ch=0 op=128 rm=186] ['^@ = "00 = 0 = <null>]
[sk=0 ch=0 op=128 rm=187] ['^@ = "00 = 0 = <null>]
[sk=0 ch=0 op=128 rm=188] ['^@ = "00 = 0 = <null>]
[sk=0 ch=0 op=128 rm=189] ['^@ = "00 = 0 = <null>]
[sk=0 ch=0 op=128 rm=190] ['^@ = "00 = 0 = <null>]
[sk=0 ch=0 op=128 rm=191] ['^@ = "00 = 0 = <null>]
[sk=0 ch=0 op=128 rm=192] ['^@ = "00 = 0 = <null>]
[sk=0 ch=0 op=128 rm=193] ['^@ = "00 = 0 = <null>]
[sk=0 ch=0 op=128 rm=194] ['^@ = "00 = 0 = <null>]
[sk=0 ch=0 op=128 rm=195] ['^@ = "00 = 0 = <null>]
[sk=0 ch=0 op=128 rm=196] ['^@ = "00 = 0 = <null>]
[sk=0 ch=0 op=128 rm=197] ['^@ = "00 = 0 = <null>]
[sk=0 ch=0 op=128 rm=198] ['^@ = "00 = 0 = <null>]
[sk=0 ch=0 op=128 rm=199] ['^@ = "00 = 0 = <null>]
[sk=0 ch=0 op=128 rm=200] ['^@ = "00 = 0 = <null>]
[sk=0 ch=0 op=128 rm=201] ['^@ = "00 = 0 = <null>]
[sk=0 ch=0 op=128 rm=202] ['^@ = "00 = 0 = <null>]
[sk=0 ch=0 op=128 rm=203] ['^@ = "00 = 0 = <null>]
[sk=0 ch=0 op=128 rm=204] ['^@ = "00 = 0 = <null>]
[sk=0 ch=0 op=128 rm=205] ['^@ = "00 = 0 = <null>]
[sk=0 ch=0 op=128 rm=206] ['^@ = "00 = 0 = <null>]
[sk=0 ch=0 op=128 rm=207] ['^@ = "00 = 0 = <null>]
[sk=0 ch=0 op=128 rm=208] ['^@ = "00 = 0 = <null>]
[sk=0 ch=0 op=128 rm=209] ['^@ = "00 = 0 = <null>]
[sk=0 ch=0 op=128 rm=210] ['^@ = "00 = 0 = <null>]
[sk=0 ch=0 op=128 rm=211] ['^@ = "00 = 0 = <null>]
[sk=0 ch=0 op=128 rm=212] ['^@ = "00 = 0 = <null>]
[sk=0 ch=0 op=128 rm=213] ['^@ = "00 = 0 = <null>]
[sk=0 ch=0 op=128 rm=214] ['^@ = "00 = 0 = <null>]
[sk=0 ch=0 op=128 rm=215] ['^@ = "00 = 0 = <null>]
[sk=0 ch=0 op=128 rm=216] ['^@ = "00 = 0 = <null>]
[sk=0 ch=0 op=128 rm=217] ['^@ = "00 = 0 = <null>]
[sk=0 ch=0 op=128 rm=218] ['^@ = "00 = 0 = <null>]
[sk=0 ch=0 op=128 rm=219] ['^@ = "00 = 0 = <null>]
[sk=0 ch=0 op=128 rm=220] ['^@ = "00 = 0 = <null>]
[sk=0 ch=0 op=128 rm=221] ['^@ = "00 = 0 = <null>]
[sk=0 ch=0 op=128 rm=222] ['^@ = "00 = 0 = <null>]
[sk=0 ch=0 op=128 rm=223] ['^@ = "00 = 0 = <null>]
[sk=0 ch=0 op=128 rm=224] ['^@ = "00 = 0 = <null>]
[sk=0 ch=0 op=128 rm=225] ['^@ = "00 = 0 = <null>]

```

```

242: if next=^^@ ki=226 kern=-22.70001; else 243
243: if next=^^@ ki=227 kern=-22.8; else 244
244: if next=^^@ ki=228 kern=-22.90001; else 245
245: if next=^^@ ki=229 kern=-23.00002; else +3=249
246: if next=^^@ this=toss next=toss lig=-; else 247
247: if next=q this=keep next=toss lig=p wrap=1; else 248
248: if next=A ki=230 kern=1.0; STOP

249: if next=^^@ ki=231 kern=-23.1; else 250
250: if next=^^@ ki=232 kern=-23.2; else 251
251: if next=^^@ ki=233 kern=-23.3; else 252
252: if next=^^@ ki=234 kern=-23.40001; else 253
253: if next=^^@ ki=235 kern=-23.50002; else 254
254: if next=^^@ ki=236 kern=-23.6; else 255
255: if next=^^@ ki=237 kern=-23.70001; else 256
256: if next=^^@ ki=238 kern=-23.8; else 257
257: if next=^^@ ki=239 kern=-23.90001; else 258
258: if next=^^@ ki=240 kern=-24.0; else 259
259: if next=^^@ ki=241 kern=-24.1; else 260
260: if next=^^@ ki=242 kern=-24.20001; else 261
261: if next=^^@ ki=243 kern=-24.3; else 262
262: if next=^^@ ki=244 kern=-24.40001; else 263
263: if next=^^@ ki=245 kern=-24.5; else 264
264: if next=^^@ ki=246 kern=-24.6; else 265
265: if next=^^@ ki=247 kern=-24.70001; else 266
266: if next=^^@ ki=248 kern=-24.8; else 267
267: if next=^^@ ki=249 kern=-24.90001; else 268
268: if next=^^@ ki=250 kern=-25.0; else 269
269: if next=^^@ ki=251 kern=-25.1; else 270
270: if next=^^@ ki=252 kern=-25.20001; else 271
271: if next=^^@ ki=253 kern=-25.3; else 272
272: if next=^^@ ki=254 kern=-25.40001; else 273
273: if next=^^@ ki=255 kern=-25.50002; else 274
274: if next=^^@ ki=256 kern=-25.6; else 275
275: if next=^^@ ki=257 kern=-25.7; else 276
276: if next=r this=keep next=keep lig=s wrap=2; else +9=286
277: if next=q this=keep next=keep lig=r; else 278
278: if next=r this=keep next=keep lig=t wrap=1; else 279
279: if next=t this=toss next=toss lig=t; STOP

280: if next=u this=keep next=keep lig=p; else 281
281: if next=s this=keep next=keep lig=r; else 282
282: if next=t ki=230 kern=1.0; else 283
283: if next=r this=keep next=toss lig=t wrap=1; else +2=286
284: if next=u this=toss next=keep lig=q; else 285
285: if next=q this=keep next=toss lig=u; STOP

286: if next=p this=keep next=keep lig=s; else 287
287: if next=s ki=258 kern=3.0; STOP

288: if next=p this=toss next=keep lig=q wrap=1; else 289
289: if next=r ki=230 kern=1.0; STOP

290: if next=Z this=keep next=toss lig=p; else 291
291: if next=p this=toss next=toss lig=r; STOP

292: if next=q this=toss next=keep lig=q; else 293
293: if next=1 this=keep next=toss lig=5; else 294
294: if next=- ki=10 kern=-1.00002; STOP

[sk=0 ch=0 op=128 rm=226] [^^@ = "00 = 0 = <null>]
[sk=0 ch=0 op=128 rm=227] [^^@ = "00 = 0 = <null>]
[sk=0 ch=0 op=128 rm=228] [^^@ = "00 = 0 = <null>]
[sk=3 ch=0 op=128 rm=229] [^^@ = "00 = 0 = <null>]
[sk=0 ch=0 op=0 rm=45] [^^@ = "00 = 0 = <null>]
[sk=0 ch=113 op=6 rm=112]
[sk=128 ch=65 op=128 rm=230]

[sk=0 ch=0 op=128 rm=231] [^^@ = "00 = 0 = <null>]
[sk=0 ch=0 op=128 rm=232] [^^@ = "00 = 0 = <null>]
[sk=0 ch=0 op=128 rm=233] [^^@ = "00 = 0 = <null>]
[sk=0 ch=0 op=128 rm=234] [^^@ = "00 = 0 = <null>]
[sk=0 ch=0 op=128 rm=235] [^^@ = "00 = 0 = <null>]
[sk=0 ch=0 op=128 rm=236] [^^@ = "00 = 0 = <null>]
[sk=0 ch=0 op=128 rm=237] [^^@ = "00 = 0 = <null>]
[sk=0 ch=0 op=128 rm=238] [^^@ = "00 = 0 = <null>]
[sk=0 ch=0 op=128 rm=239] [^^@ = "00 = 0 = <null>]
[sk=0 ch=0 op=128 rm=240] [^^@ = "00 = 0 = <null>]
[sk=0 ch=0 op=128 rm=241] [^^@ = "00 = 0 = <null>]
[sk=0 ch=0 op=128 rm=242] [^^@ = "00 = 0 = <null>]
[sk=0 ch=0 op=128 rm=243] [^^@ = "00 = 0 = <null>]
[sk=0 ch=0 op=128 rm=244] [^^@ = "00 = 0 = <null>]
[sk=0 ch=0 op=128 rm=245] [^^@ = "00 = 0 = <null>]
[sk=0 ch=0 op=128 rm=246] [^^@ = "00 = 0 = <null>]
[sk=0 ch=0 op=128 rm=247] [^^@ = "00 = 0 = <null>]
[sk=0 ch=0 op=128 rm=248] [^^@ = "00 = 0 = <null>]
[sk=0 ch=0 op=128 rm=249] [^^@ = "00 = 0 = <null>]
[sk=0 ch=0 op=128 rm=250] [^^@ = "00 = 0 = <null>]
[sk=0 ch=0 op=128 rm=251] [^^@ = "00 = 0 = <null>]
[sk=0 ch=0 op=128 rm=252] [^^@ = "00 = 0 = <null>]
[sk=0 ch=0 op=128 rm=253] [^^@ = "00 = 0 = <null>]
[sk=0 ch=0 op=128 rm=254] [^^@ = "00 = 0 = <null>]
[sk=0 ch=0 op=128 rm=255] [^^@ = "00 = 0 = <null>]
[sk=0 ch=0 op=129 rm=0] [^^@ = "00 = 0 = <null>]
[sk=0 ch=0 op=129 rm=1] [^^@ = "00 = 0 = <null>]
[sk=9 ch=114 op=11 rm=115]
[sk=0 ch=113 op=3 rm=114]
[sk=0 ch=114 op=7 rm=116]
[sk=128 ch=116 op=0 rm=116]

[sk=0 ch=117 op=3 rm=112]
[sk=0 ch=115 op=3 rm=114]
[sk=0 ch=116 op=128 rm=230]
[sk=2 ch=114 op=6 rm=116]
[sk=0 ch=117 op=1 rm=113]
[sk=128 ch=113 op=2 rm=117]

[sk=0 ch=112 op=3 rm=115]
[sk=128 ch=115 op=129 rm=2]

[sk=0 ch=112 op=5 rm=113]
[sk=128 ch=114 op=128 rm=230]

[sk=0 ch=90 op=2 rm=112]
[sk=128 ch=112 op=0 rm=114]

[sk=0 ch=113 op=1 rm=113]
[sk=0 ch=49 op=2 rm=53]
[sk=128 ch=45 op=128 rm=10]

```

```

295: if next=1 this=keep next=keep lig=2; else 296 [sk=0 ch=49 op=3 rm=50]
296: if next=2 this=keep next=keep lig=3; else 297 [sk=0 ch=50 op=3 rm=51]
297: if next=- this=keep next=toss lig=1 wrap=1; else +1=299 [sk=1 ch=45 op=6 rm=49]
298: if next=1 this=keep next=keep lig=3; else 299 [sk=0 ch=49 op=3 rm=51]
299: if next=3 this=keep next=keep lig=4; else +2=302 [sk=2 ch=51 op=3 rm=52]
300: if next=1 this=keep next=keep lig=4; else 301 [sk=0 ch=49 op=3 rm=52]
301: if next=2 this=keep next=keep lig=4; else 302 [sk=0 ch=50 op=3 rm=52]
302: if next=4 this=keep next=keep lig=5; else +3=306 [sk=3 ch=52 op=3 rm=53]
303: if next=1 this=keep next=keep lig=5; else 304 [sk=0 ch=49 op=3 rm=53]
304: if next=2 this=keep next=keep lig=5; else 305 [sk=0 ch=50 op=3 rm=53]
305: if next=3 this=keep next=keep lig=5; else 306 [sk=0 ch=51 op=3 rm=53]
306: if next=5 this=keep next=keep lig=6; else +4=311 [sk=4 ch=53 op=3 rm=54]
307: if next=1 this=keep next=keep lig=6; else 308 [sk=0 ch=49 op=3 rm=54]
308: if next=2 this=keep next=keep lig=6; else 309 [sk=0 ch=50 op=3 rm=54]
309: if next=3 this=keep next=keep lig=6; else 310 [sk=0 ch=51 op=3 rm=54]
310: if next=4 this=keep next=keep lig=6; else 311 [sk=0 ch=52 op=3 rm=54]
311: if next=6 this=keep next=keep lig=7; else +5=317 [sk=5 ch=54 op=3 rm=55]
312: if next=1 this=keep next=keep lig=7; else 313 [sk=0 ch=49 op=3 rm=55]
313: if next=2 this=keep next=keep lig=7; else 314 [sk=0 ch=50 op=3 rm=55]
314: if next=3 this=keep next=keep lig=7; else 315 [sk=0 ch=51 op=3 rm=55]
315: if next=4 this=keep next=keep lig=7; else 316 [sk=0 ch=52 op=3 rm=55]
316: if next=5 this=keep next=keep lig=7; else 317 [sk=0 ch=53 op=3 rm=55]
317: if next=Z this=keep next=keep lig=7 wrap=2; STOP [sk=128 ch=90 op=11 rm=55]

318: if next=Z ki=230 kern=1.0; else 319 [sk=0 ch=90 op=128 rm=230]
319: if next=A this=toss next=toss lig=A; else 320 [sk=0 ch=65 op=0 rm=65]
320: if next=B ki=259 kern=2.0; else 321 [sk=0 ch=66 op=129 rm=3]
321: if next=- ki=258 kern=3.0; else 322 [sk=0 ch=45 op=129 rm=2]
322: if next=1 ki=260 kern=-2.00002; STOP [sk=128 ch=49 op=129 rm=4]

323: if next=B this=toss next=toss lig=A; else 324 [sk=0 ch=66 op=0 rm=65]
324: if next=- this=toss next=toss lig=C; else 325 [sk=0 ch=45 op=0 rm=67]
325: if next=C ki=261 kern=4.0; STOP [sk=128 ch=67 op=129 rm=5]

326: if next=A this=toss next=toss lig=^82; else 327 [sk=0 ch=65 op=0 rm=130] [^- = "82 = 130]
327: if next=/ this=toss next=toss lig=B; STOP [sk=128 ch=47 op=0 rm=66]

328: boundary char=^@ goto=292 [sk=255 ch=0 op=1 rm=36] [^^@ = "00 = 0 = <null>]
Extensions table:
  0: no top, middle=A, bottom=B, no repeater [not extensible]
Hyphen character: - [^- = "2D = 45]
Skew character: B [^B = "42 = 66]

> vertical mode

"trip.tex"[Line 94]

{\tracingcommands}: 2 [all] [was 0]
{\tracingrestores}: 2 [unused code, presumed on] [was 0]
{\write}: [to log file] {log file only\the \prevgraf } [appending delayed output item]
{ }: [ignored in vertical mode]
{\openout} ...

>ERROR< | Found -7. Output file channels must be between 0 and 15. Using 0 instead.
Line 95 | \openout-'78terminal \openout10=tr\romannumeral1 \gobble\newcs pos
      ^^^
.. {\openout}: 0 8terminal.tex [appending delayed output item]
{\openout} ...

```

```

    {\romannumeral}: Pushing {i} [1 char] onto input
.. {\openout}: 10 tripos.tex [appending delayed output item]
  {\write}: 10 {} [appending delayed output item]
  { }: [ignored in vertical mode]
  {\write}: 10 {\uppercase {\number {\outputpenalty }}} [appending delayed output item]
  { }: [ignored in vertical mode]
  {\write}: 10 {\uppercase {\romannumeral -\the \outputpenalty }} [appending delayed output item]
  { }: [ignored in vertical mode]
  {\vsize}: 2000.0pt [was 0.0pt]
  {\vbadness}: 1 [was 0]
  {\topskip}: 20.0pt plus 1.0fil [was 0.0pt]
  {\penalty}: -12345 [always] [appending to vertical list]
  {\maxdepth}: 2.0pt [was 0.0pt]
  {\tracingoutput}: 1 [=on] [was 0]
  {\moveleft}: by 20.0pt ...
    {\copy}
.. {\moveleft}: shifting a copy of \box200 = vbox : [id=11] (10.4 + 0.0) x -2.0 [rigid] [2 items] by -20.0pt [actually upward] and appending
%% goal height=2000.0, max depth=2.0

% t=0.0                                g=2000.0 b=10000 p=0 c=100000# [# = best break so far]

  {\moveright}: by 20.0pt ...
    {\hbox}
>> restricted horizontal mode
    {}: entering \hbox group [level 1 at line 106]
      {\vrule}: appending vertical rule : (ht+dp)=(-19.0+20.0)=1.0 wd=1.0
    {}: leaving \hbox group [level 1 at line 106]
.. {\moveright}: appending hbox : [id=12] (0.0 + 20.0) x 1.0 [rigid] [1 item] shifted by 20.0pt

% t=20.0 plus 1.0fil                    g=2000.0 b=0 p=0 c=0#           [# = best break so far]

> vertical mode
  { }: [ignored in vertical mode]
  {\penalty}: -10000 [always] [appending to vertical list]

% t=48.0 plus 41.0 plus 1.0fil          g=2000.0 b=0 p=-10000 [always] c=-10000# [# = best break so far]

Shipping out a completed page [0.0.0.0.11]:
vbox : [id=13] (2000.0 + 2.0) x 21.0, stretched using 1952.0fil, contains 10 items
  file : \write [log file] {log file only\the \prevgraf }
  file : \openout 0 "8terminal.tex"
  file : \openout 10 "tripos.tex"
  file : \write 10 {}
  file : \write 10 {\uppercase {\number {\outputpenalty }}}
  file : \write 10 {\uppercase {\romannumeral -\the \outputpenalty }}
  glue : 9.6 plus 1.0fil [from \topskip]
vbox : [id=11] (10.4 + 0.0) x -2.0 [rigid, shifted by -20.0], contains 2 items
  rule : (ht+dp)=(0.4+0.0) wd=*
  glue : 10.0 plus 5.0filll [\vskip]
  glue : 10.0 plus 41.0 [\baselineskip (adjusted)]
hbox : [id=12] (0.0 + 20.0) x 1.0 [rigid, shifted by 20.0], contains 1 item
  rule : (ht+dp)=(-19.0+20.0)=1.0 wd=1.0

Executing and removing delayed output items (but retaining \specials) ...

> write [shipout] mode
  {\write} ...
  {\the} ...

```

```

    {\prevgraf}: 0 lines
... {\the}: value converted to text
.. {\write}: [to "trip.log"]

log file only0

{\openout}: 0 8terminal.tex
{\openout}: 10 tripos.tex
{\write}: 10 tripos.tex

{\write} ...
  {\number} ...

>ERROR< | Found '{'. Expecting an integer after "\number". Using 0.
TokList | \uppercase {\number {\outputpenalty }}
          | ^
Line 107 | \penalty-10000 % now we'll compute silently for awhile, after default output
          | ^^^^^^
... {\number}: using value 0, pushing {0} [1 char] onto input
.. {\write}: 10 tripos.tex
   \uppercase {0{\outputpenalty }}
   {\write} ...
   {\romannumeral} ...
   {\the} ...
   {\outputpenalty}: -10000 [parameter]
... {\the}: Pushing {-10000} [6 chars] onto input
... {\romannumeral}: Pushing {mmmmmmmmmm} [10 chars] onto input
.. {\write}: 10 tripos.tex
   [\uppercase {mmmmmmmmmm}]

... finished executing delayed output items.
<<<< Page 1 done >>>>

> vertical mode
  {\batchmode}: [was non-stop]
  {\output}: {\tracingcommands 0\showthe \outputpenalty \showboxbreadth 9999 \showboxdepth 999
             9 \hoffset 1sp {\setbox 254=\box 255\shipout \ifvbox 2\ifhbox 254 \error \fi
             54\copy 25\fi 4} \ifvoid 254\relax \else \error \fi }
             was->
  { } : [ignored in vertical mode]
  {\setbox} ...
    {\vbox}
>> internal vertical mode
.. {\setbox}: \box255 = \vbox ...
   {}: entering \vbox group [level 1 at line 113]
   {}: leaving \vbox group [level 1 at line 113]
.. {\setbox}: \box255 = vbox : [id=14] (0.0 + 0.0) x 0.0 [rigid] [empty] [was void]
> vertical mode
  { } : [ignored in vertical mode]
  {\dimen}: \dimen200 = 10000.0pt [was 0.0pt]
  {}: entering simple group [level 1 at line 115]
  {\output}: {\dimen 9=\ht 200\count 5=\dimen 9\global \countz =\outputpenalty \ifnum
             \holdinginserts >0\global \holdinginserts 0\unvbox 255\penalty \countz \else \setbox
             255\copy 255 \shipout \hbox {\box 100\box 200\vsplit 255 to 55pt} \unvcopy
             255\showlists \showthe \insertpenalties \showthe \pageshrink \globaldefs 1\halign
             {\# \tabskip \lineskip \cr } \showboxdepth 1\showboxbreadth 2\fi \message {\topmark
             :\firstmark :\botmark :\splitfirstmark :\splitbotmark }}
             was->{\tracingcommands 0\showthe \outputpenalty \showboxbreadth 9999 \showboxdepth 999

```

```

    9 \hoffset 1s ... [40 more tokens in list]
    { }: [ignored in vertical mode]
    {\insert}: using \count100, \dimen100, \skip100, and \box100 registers ...
>> internal vertical mode
    {{}: entering \insert100 group [level 2 at line 123]
    {\def}: \box->\vbox to 267.7pt{}
    { }: [ignored in internal vertical mode]
    {\vskip}: 0.0pt plus 1.0fil [appending to vertical list]
    {\baselineskip}: 0.0pt [was 10.0pt plus 41.0pt]
    {\lineskip}: 0.0pt minus 0.4pt [was 0.0pt plus 40.0pt]
    {\vbox}: to 267.7pt ...
        {{}: entering \vbox group [level 3 at line 125]
        {}}: leaving \vbox group [level 3 at line 125]
    ... {\vbox}: appending vbox : [id=15] (267.7 + 0.0) x 0.0 [empty]
    {\penalty}: -101 [appending to vertical list]
    {\vbox}: to 267.7pt ...
        {{}: entering \vbox group [level 3 at line 125]
        {}}: leaving \vbox group [level 3 at line 125]
    ... {\vbox}: appending vbox : [id=16] (267.7 + 0.0) x 0.0 [empty]
    {\penalty}: -100 [appending to vertical list]
    {\vbox}: to 267.7pt ...
        {{}: entering \vbox group [level 3 at line 125]
        {}}: leaving \vbox group [level 3 at line 125]
    ... {\vbox}: appending vbox : [id=17] (267.7 + 0.0) x 0.0 [empty]
    {\penalty}: -100 [appending to vertical list]
    {}}: leaving \insert100 group [level 2 at line 123]
    restoring [parameter] \lineskip to 0.0pt plus 40.0pt
    [parameter] \baselineskip to 10.0pt plus 41.0pt
    [macro] \box to \box
    ... {\insert}: appending \insert100 material to current list
    [using \splittopskip=1.0 plus 43.0, \splitmaxdepth=-2.0, \floatingpenalty=100]

%% goal height=2000.0, max depth=2.0
>ERROR< | Insertion's \box100 is horizontal, not vertical. Discarding its contents first.
Line 126 |     } % since \dimen100=803pt<3*267.7pt, the insertion splits;
          ^
Deleting the following box:
  hbox : [id=2] (7.0 + 1.0) x 2.0 [rigid], contains 1 item
        [uses font \rip = trip.tfm [unscaled]]
  text : \rip A [1 char, wd=2.0pt] [ `A = "41 = 65]

>ERROR< | Insertion's \skip100 is infinitely shrinkable glue [-6.0pt plus 3.0filll minus 9.0fil].
Line 126 | | Page-breaking requires correction glue with finite shrinkage, which will now be used instead.
          |     } % since \dimen100=803pt<3*267.7pt, the insertion splits;
          |     ^
% split100 to 803.0, 267.7 p=-101

> vertical mode
    { }: [ignored in vertical mode]
    {\topskip}: 1.0pt plus 44.0pt [was 20.0pt plus 1.0fil]
    {\vbox}: spread 1000.0pt ...
>> internal vertical mode
    {{}: entering \vbox group [level 2 at line 131]
    {}}: leaving \vbox group [level 2 at line 131]
    ... {\vbox}: appending vbox : [id=19] (1000.0 + 0.0) x 0.0 [empty]

% t=0.0 plus 3.0fillll minus 9.0          g=1470.63013 b=0 p=0 c=-101# [# = best break so far]

> vertical mode

```

```

{ }: [ignored in vertical mode]
{\insertpenalties}: -50
{\penalty}: 12345 [never] [appending to vertical list]
{\cleaders} ...
{\hbox}
>> restricted horizontal mode
  {}: entering \hbox group [level 2 at line 133]
    {\lower}: by 2.0pt ...
      {\vbox}
>>> internal vertical mode
  {}: entering \vbox group [level 3 at line 133]
  {}: leaving \vbox group [level 3 at line 133]
  ... {\lower}: appending vbox : [id=20] (17.0 + 0.0) × 0.0 [empty] shifted by 2.0pt
>> restricted horizontal mode
  {}: appending font's inter-word glue [4.0 plus 2.0 minus 1.0]
  {\leaders} ...
  {\hrule}
  {\hrule}: rule : (ht+dp)=(0.4+0.0) wd=*
  {\cleaders} ...
  {\hbox}
  {}: entering \hbox group [level 3 at line 135]
  {A}: [letter]
  {}: leaving \hbox group [level 3 at line 135]
  ... {\cleaders}: hbox : [id=21] (7.0 + 1.0) × 2.0 [rigid], contains 1 item
    [uses font \rip = trip.tfm [unscaled]]
    text : \rip A [1 char, wd=2.0pt] [ `A = "41 = 65]
  {\leaders} ...
  {\hbox}
  {}: entering \hbox group [level 3 at line 136]
  {A}: [letter]
  {}: leaving \hbox group [level 3 at line 136]
  ... {\leaders}: hbox : [id=22] (7.0 + 1.0) × 2.0 [rigid], contains 1 item
    [uses font \rip = trip.tfm [unscaled]]
    text : \rip A [1 char, wd=2.0pt] [ `A = "41 = 65]
  {\xleaders} ...
  {\hbox}
  {}: entering \hbox group [level 3 at line 137]
  {A}: [letter]
  {}: leaving \hbox group [level 3 at line 137]
  ... {\xleaders}: hbox : [id=23] (7.0 + 1.0) × 2.0 [rigid], contains 1 item
    [uses font \rip = trip.tfm [unscaled]]
    text : \rip A [1 char, wd=2.0pt] [ `A = "41 = 65]

"trip.tex"[Line 138]

  {\write}: [to log file and terminal] {\help } [appending delayed output item]
  { }: appending font's inter-word glue [4.0 plus 2.0 minus 1.0]
  {}: leaving \hbox group [level 2 at line 133]
  ... {\cleaders}: hbox : [id=24] (15.0 + 2.0) × 45.0 [rigid], contains 8 items
    vbox : [id=20] (17.0 + 0.0) × 0.0, shifted down by 2.0 [empty]
    glue : 4.0 plus 2.0 minus 1.0 [interword space]
    glue : \leaders 10.0 [1 item]
    rule : (ht+dp)=(0.4+0.0) wd=*
    glue : \cleaders 9.0 [1 item]
    hbox : [id=21] (7.0 + 1.0) × 2.0 [rigid], contains 1 item
      [uses font \rip = trip.tfm [unscaled]]
      text : \rip A [1 char, wd=2.0pt] [ `A = "41 = 65]
    glue : \leaders 9.0 [1 item]
    hbox : [id=22] (7.0 + 1.0) × 2.0 [rigid], contains 1 item

```



```

        [uses font \rip = trip.tfm [unscaled]]
        text : \rip A                                [1 char, wd=2.0pt] ['A = "41 = 65]
glue : \xleaders 9.0 [1 item]
        hbox : [id=23] (7.0 + 1.0) x 2.0 [rigid], contains 1 item
        [uses font \rip = trip.tfm [unscaled]]
        text : \rip A                                [1 char, wd=2.0pt] ['A = "41 = 65]
file : \write [terminal and log] {\help }
glue : 4.0 plus 2.0 minus 1.0                        [interword space]
> vertical mode
  {\mark} placing {\alpha} [5 chars] in an appended mark
  { } : [ignored in vertical mode]
  {A} : [postponing letter] starting new paragraph first
% t=1050.0 plus 44.0 plus 3.0filll minus 19.0      g=1470.63013 b=0 p=0 c=-50
>> horizontal mode
  {A} : [letter]
  {\insert} : using \count200, \dimen200, \skip200, and \box200 registers ...
>>> internal vertical mode
  {}: entering \insert200 group [level 2 at line 141]
  {\baselineskip} : 400.0pt [was 10.0pt plus 41.0pt]
  {\splittopskip} ...
  {\count} : 0 [= \count15]
  ... {\splittopskip} : 0.0pt [was 1.0pt plus 43.0pt]
  {\hbox} ...
>>>> restricted horizontal mode
  {}: entering adjusted \hbox group [level 3 at line 141]
  {\vadjust} ...
>>>>> internal vertical mode
  {}: entering \vadjust group [level 4 at line 141]
  {\penalty} : 999 [appending to vertical list]
  {}: leaving \vadjust group [level 4 at line 141]
  ... {\vadjust} : appending grouped material to current list
>>>> restricted horizontal mode
  {}: leaving adjusted \hbox group [level 3 at line 141]
  ... {\hbox} : appending hbox : [id=27] (0.0 + 0.0) x 0.0 [rigid] [empty]
>>> internal vertical mode
  {\hbox} : to -10.0pt ...
>>>> restricted horizontal mode
  {}: entering adjusted \hbox group [level 3 at line 141]
  {}: leaving adjusted \hbox group [level 3 at line 141]
  ... {\hbox} : appending hbox : [id=28] (0.0 + 0.0) x -10.0, shrunk using -0.0 [empty]
>>> internal vertical mode
  {}: leaving \insert200 group [level 2 at line 141]
  restoring [parameter] \splittopskip to 1.0pt plus 43.0pt
  [parameter] \baselineskip to 10.0pt plus 41.0pt
  ... {\insert} : appending \insert200 material to current list
  [using \splittopskip=0.0, \splitmaxdepth=-2.0, \floatingpenalty=100]
>> horizontal mode
  {\showthe} ...
  {\pagetotal} : 1050.0pt
  ... {\showthe} :
Line 141 | \showthe \pagetotal
1050.0pt
  {\showthe} ...
  {\pagegoal} : 1470.63013pt
  ... {\showthe} :

```

Line 141 | \showthe \pagegoal
1470.63013pt

```
{\advance}: \count15 [0 + 1 = 1]
{\mark} ...
  {\the} ...
    {\count}: 1 [= \count15]
... {\the}: value converted to text
... {\mark}: placing {1} [1 char] in an appended mark
{\splitmaxdepth}: -1.0pt [was -2.0pt]
{\paR}: [ending paragraph]
```

Typesetting paragraph #2 at source line 141:

[]\rip A[[]]

Relevant parameters:

```
\vsize=2000.0, \hsize=0.0, \leftskip=0.0, \rightskip=0.0, \vfuzz=0.0, \hfuzz=0.0
\pretolerance=0, \tolerance=10000, \emergencystretch=0.0 [no third pass]
\looseness=0 [normal], \hbadness=0
\linepenalty=0, \interlinepenalty=-125
\clubpenalty=125, \brokenpenalty=37, \hyphenpenalty=88, \exhyphenpenalty=89
\uchyph=0 [no uppercase word hyphenation]
\doublehyphemerits=1000, \finalhyphemerits=10000, \adjdemerits=0
\parshape=normal, \hangindent=0.0, \hangafter=1 [hanging indentation, if any, begins on line 2]
```

Finding line-breaks: [@=active @@=passive b=badness p=penalty d=demerits t=total demerits]

@firstpass

@secondpass

[]\rip A[[]]

@\par via @@ b=* p=-10000 d=*

@@1: line 1.3- t=0 -> @@0

Warning : Overfull horizontal box [id=30] [2.0pts too wide] in paragraph at line 141.

TokList : ... \pagegoal \advance \count 15by1\mark {\the \count 15}\splitmaxdepth -1pt \paR \gobble
: ^^^^

Line 141 : AAA\everypar=\errhelp % because of previous \everypar, this makes 3 paragraphs

[]\rip A|

Overfull hbox : [id=30] (7.0 + 1.0) x 0.0, shrunk using -1.0 [no change], contains 6 items

[uses font \rip = trip.tfm [unscaled]]

hbox : [id=25] (0.0 + 0.0) x 0.0 [rigid] [empty]

text : \rip A

[1 char, wd=2.0pt] [A = "41 = 65]

cost : \penalty 10000 [never]

glue : 0.0

[from \parfillskip]

glue : 0.0

[from \rightskip]

rule : (ht+dp)=(***) wd=5.0

> vertical mode

{A}: [postponing letter] starting new paragraph first

% t=1060.0 plus 127.0 plus 8.0filll minus 27.0 g=1255.43756 b=0 p=0 c=-50

>> horizontal mode

{A}: [letter]

{\insert}: using \count200, \dimen200, \skip200, and \box200 registers ...

>>> internal vertical mode

{{}: entering \insert200 group [level 2 at line 141]

{\baselineskip}: 400.0pt [was 10.0pt plus 41.0pt]

{\splittopskip} ...

```

        {\count}: 1  [=\\count15]
    ... {\splittopskip}: 1.0pt [was 1.0pt plus 43.0pt]
        {\hbox} ...
>>>> restricted horizontal mode
        {}: entering adjusted \hbox group [level 3 at line 141]
        {\vadjust} ...
>>>>> internal vertical mode
        {}: entering \vadjust group [level 4 at line 141]
        {\penalty}: 999 [appending to vertical list]
        {}: leaving \vadjust group [level 4 at line 141]
        ... {\vadjust}: appending grouped material to current list
>>>> restricted horizontal mode
        {}: leaving adjusted \hbox group [level 3 at line 141]
        ... {\hbox}: appending hbox : [id=33] (0.0 + 0.0) x 0.0 [rigid] [empty]
>>> internal vertical mode
        {\hbox}: to -10.0pt ...
>>>> restricted horizontal mode
        {}: entering adjusted \hbox group [level 3 at line 141]
        {}: leaving adjusted \hbox group [level 3 at line 141]
        ... {\hbox}: appending hbox : [id=34] (0.0 + 0.0) x -10.0, shrunk using -0.0 [empty]
>>> internal vertical mode
        {}: leaving \insert200 group [level 2 at line 141]
        restoring [parameter] \splittopskip to 1.0pt plus 43.0pt
        [parameter] \baselineskip to 10.0pt plus 41.0pt
    ... {\insert}: appending \insert200 material to current list
        [using \splittopskip=1.0, \splitmaxdepth=-1.0, \floatingpenalty=100]
>> horizontal mode
    {\showthe} ...
        {\pagetotal}: 1061.0pt
    ... {\showthe}:

```

```

Line 141 | \showthe \pagetotal
1061.0pt

```

```

    {\showthe} ...
        {\pagegoal}: 1255.43756pt
    ... {\showthe}:

```

```

Line 141 | \showthe \pagegoal
1255.43756pt

```

```

    {\advance}: \count15 [1 + 1 = 2]
    {\mark} ...
        {\the} ...
            {\count}: 2  [=\\count15]
        ... {\the}: value converted to text
    ... {\mark}: placing {2} [1 char] in an appended mark
    {\splitmaxdepth}: -1.0pt [no change]
    {\paR}: [ending paragraph]

```

```

Typesetting paragraph #3 at source line 141:

```

```

[]\rip A[][]

```

```

Relevant parameters:

```

```

\vsiz=2000.0, \hsiz=0.0, \leftskip=0.0, \rightskip=0.0, \vfuzz=0.0, \hfuzz=0.0
\pretolerance=0, \tolerance=10000, \emergencystretch=0.0 [no third pass]
\looseness=0 [normal], \hbadness=0
\linepenalty=0, \interlinepenalty=-125
\clubpenalty=125, \brokenpenalty=37, \hyphenpenalty=88, \exhyphenpenalty=89
\uchyph=0 [no uppercase word hyphenation]

```

```

\doublehyphendemerits=1000, \finalhyphendemerits=100000, \adjdemerits=0
\parshape=normal, \hangindent=0.0, \hangafter=1 [hanging indentation, if any, begins on line 2]

Finding line-breaks: [@=active @@=passive b=badness p=penalty d=demerits t=total demerits]
@firstpass
@secondpass
[]\rip A[][]
@\par via @@0 b=* p=-10000 d=*
@@1: line 1.3- t=0 -> @@0

Warning : Overfull horizontal box [id=36] [2.0pts too wide] in paragraph at line 141.
TokList : ... \pagegoal \advance \count 15by1\mark {\the \count 15}\splitmaxdepth -1pt \paR \gobble
:
Line 141 : AAA\everypar=\errhelp % because of previous \everypar, this makes 3 paragraphs

[]\rip A|
Overfull hbox : [id=36] (7.0 + 1.0) x 0.0, shrunk using -1.0 [no change], contains 6 items
  [uses font \rip = trip.tfm [unscaled]]
  hbox : [id=31] (0.0 + 0.0) x 0.0 [rigid] [empty]
  text : \rip A [1 char, wd=2.0pt] [ `A = "41 = 65]
  cost : \penalty 10000 [never]
  glue : 0.0 [from \parfillskip]
  glue : 0.0 [from \rightskip]
  rule : (ht+dp)=(***) wd=5.0

> vertical mode
  {A}: [postponing letter] starting new paragraph first

% t=1070.0 plus 210.0 plus 8.0filll minus 35.0 g=1055.44061 b=7 p=0 c=-43

>> horizontal mode
  {A}: [letter]
  {\insert}: using \count200, \dimen200, \skip200, and \box200 registers ...
>>> internal vertical mode
  {}: entering \insert200 group [level 2 at line 141]
  {\baselineskip}: 400.0pt [was 10.0pt plus 41.0pt]
  {\splittopskip} ...
  {\count}: 2 [= \count15]
  ... {\splittopskip}: 2.0pt [was 1.0pt plus 43.0pt]
  {\hbox} ...
>>>> restricted horizontal mode
  {}: entering adjusted \hbox group [level 3 at line 141]
  {\vadjust} ...
>>>>> internal vertical mode
  {}: entering \vadjust group [level 4 at line 141]
  {\penalty}: 999 [appending to vertical list]
  {}: leaving \vadjust group [level 4 at line 141]
  ... {\vadjust}: appending grouped material to current list
>>>> restricted horizontal mode
  {}: leaving adjusted \hbox group [level 3 at line 141]
  ... {\hbox}: appending hbox : [id=39] (0.0 + 0.0) x 0.0 [rigid] [empty]
>>> internal vertical mode
  {\hbox}: to -10.0pt ...
>>>> restricted horizontal mode
  {}: entering adjusted \hbox group [level 3 at line 141]
  {}: leaving adjusted \hbox group [level 3 at line 141]
  ... {\hbox}: appending hbox : [id=40] (0.0 + 0.0) x -10.0, shrunk using -0.0 [empty]
>>> internal vertical mode
  {}: leaving \insert200 group [level 2 at line 141]

```

```

restoring [parameter] \splittopskip to 1.0pt plus 43.0pt
[parameter] \baselineskip to 10.0pt plus 41.0pt
... {\insert}: appending \insert200 material to current list
[using \splittopskip=2.0, \splitmaxdepth=-1.0, \floatingpenalty=100]
>> horizontal mode
{\showthe} ...
{\pagetotal}: 1071.0pt
... {\showthe}:

Line 141 | \showthe \pagetotal
1071.0pt

{\showthe} ...
{\pagegoal}: 1055.44061pt
... {\showthe}:

Line 141 | \showthe \pagegoal
1055.44061pt

{\advance}: \count15 [2 + 1 = 3]
{\mark} ...
{\the} ...
{\count}: 3 [= \count15]
... {\the}: value converted to text
... {\mark}: placing {3} [1 char] in an appended mark
{\splitmaxdepth}: -1.0pt [no change]
{\paR}: [ending paragraph]

Typesetting paragraph #4 at source line 141:
[]\rip A[][]
Relevant parameters:
\size=2000.0, \hsize=0.0, \leftskip=0.0, \rightskip=0.0, \vfuzz=0.0, \hfuzz=0.0
\pretolerance=0, \tolerance=10000, \emergencystretch=0.0 [no third pass]
\looseness=0 [normal], \hbadness=0
\linepenalty=0, \interlinepenalty=-125
\clubpenalty=125, \brokenpenalty=37, \hyphenpenalty=88, \exhyphenpenalty=89
\uchyph=0 [no uppercase word hyphenation]
\doublehyphendemerits=1000, \finalhyphendemerits=100000, \adjdemerits=0
\parshape=normal, \hangindent=0.0, \hangafter=1 [hanging indentation, if any, begins on line 2]

Finding line-breaks: [@=active @@=passive b=badness p=penalty d=demerits t=total demerits]
@firstpass
@secondpass
[]\rip A[][]
@\par via @@0 b=* p=-10000 d=*
@@1: line 1.3- t=0 -> @@0

Warning : Overfull horizontal box [id=42] [2.0pts too wide] in paragraph at line 141.
TokList : ... \pagegoal \advance \count 15by1\mark {\the \count 15}\splitmaxdepth -1pt \paR \gobble
:
Line 141 : AAA\everypar=\errhelp % because of previous \everypar, this makes 3 paragraphs

[]\rip A]
Overfull hbox : [id=42] (7.0 + 1.0) x 0.0, shrunk using -1.0 [no change], contains 6 items
[uses font \rip = trip.tfm [unscaled]]
hbox : [id=37] (0.0 + 0.0) x 0.0 [rigid] [empty]
text : \rip A [1 char, wd=2.0pt] [^A = "41 = 65]
cost : \penalty 10000 [never]
glue : 0.0 [from \parfillskip]

```

```

glue : 0.0                                [from \rightskip]
rule : (ht+dp)=(***) wd=5.0

% split200 to -51.11694, 0.0 p=999

> vertical mode
  {\everypar} ...
  {\errhelp}: [parameter] ->
... {\everypar}:
  was->A\insert 200{\baselineskip 400pt\splittopskip \count 15pt\hbox { ... [46 more tokens in list]
  {\kern}: -50.0pt
  {A}: [postponing letter] starting new paragraph first

% t=1080.0 plus 293.0 plus 8.0filll minus 43.0   g=1055.44061 b=18 p=0 c=967

>> horizontal mode
  {A}: [letter]
  {\hfill}: 0.0pt plus 1.0fill [appending to horizontal list]
  {\vadjust} ...
>>> internal vertical mode
  {}: entering \vadjust group [level 2 at line 146]
  {\newlinechar}: ^^80 [was ^^@]           ['# = "80 = 128]
  {\special} ...

"trip.tex"[Line 146]

  {\the} ...
  {\prevdepth}: -1000.0pt
  ... {\the}: value converted to text
  ... {\special}: {^^80-1000.0pt} [appending external command information]
  {\penalty}: -5000 [appending to vertical list]
  {}: leaving \vadjust group [level 2 at line 146]
  restoring [parameter] \newlinechar to ^^@
  ... {\vadjust}: appending grouped material to current list
>> horizontal mode
  {\penalty}: -1000000000 [always] [appending to horizontal list]
  {A}: [letter]
  {\par}: [ending paragraph]

Typesetting paragraph #5 at source line 146:
[]\rip A []A
Relevant parameters:
  \vsize=2000.0, \hsize=0.0, \leftskip=0.0, \rightskip=0.0, \vfuzz=0.0, \hfuzz=0.0
  \pretolerance=0, \tolerance=10000, \emergencystretch=0.0 [no third pass]
  \looseness=0 [normal], \hbadness=0
  \linepenalty=0, \interlinepenalty=-125
  \clubpenalty=125, \brokenpenalty=37, \hyphenpenalty=88, \exhyphenpenalty=89
  \uchyph=0 [no uppercase word hyphenation]
  \doublehyphendemerits=1000, \finalhyphendemerits=100000, \adjdemerits=0
  \parshape=normal, \hangindent=0.0, \hangafter=1 [hanging indentation, if any, begins on line 2]

Finding line-breaks: [@=active @@=passive b=badness p=penalty d=demerits t=total demerits]
@firstpass
@secondpass
[]\rip A
@ via @@0 b=* p=0 d=*
@@1: line 1.3 t=0 -> @@0
[]
@\penalty via @1 b=0 p=-10000 d=*

```



```
[[ ===== Partially Built Page 2 ===== ]]
Height so far: 1060.0 plus 458.0 plus -1.0fil plus 8.0filll minus 51.0
Ultimate goal: 1055.44061pt
Awaiting insertions:
  \insert100 adds 535.36987, #1 might split
  \insert200 adds 405.19714, #3 might split
Contents:
-->> : \insert100 natural height=803.09999pt, split top=1.0 plus 43.0, max depth=-2.0pt, float cost=100 [9 items]
  glue : 0.0 plus 1.0fil [from \vskip]
  vbox : [id=15] (267.7 + 0.0) x 0.0 [empty]
  cost : \penalty -101
  glue : 0.0 minus 0.4 [from \lineskip]
  vbox : [id=16] (267.7 + 0.0) x 0.0 [empty]
  cost : \penalty -100
  glue : 0.0 minus 0.4 [from \lineskip]
  vbox : [id=17] (267.7 + 0.0) x 0.0 [empty]
  cost : \penalty -1000
  glue : 0.0 plus 44.0 [from \topskip]
  vbox : [id=19] (1000.0 + 0.0) x 0.0 [empty]
  cost : \penalty 12345 [never]
  glue : \cleaders 50.0 minus 10.0 [1 item]
  hbox : [id=24] (15.0 + 2.0) x 45.0 [rigid], contains 8 items
    vbox : [id=20] (17.0 + 0.0) x 0.0, shifted down by 2.0 [empty]
    glue : 4.0 plus 2.0 minus 1.0 [interword space]
    glue : \leaders 10.0 [1 item]
    rule : (ht+dp)=(0.4+0.0) wd=*
    glue : \cleaders 9.0 [1 item]
    hbox : [id=21] (7.0 + 1.0) x 2.0 [rigid], contains 1 item
      [uses font \rip = trip.tfm [unscaled]]
      text : \rip A [1 char, wd=2.0pt] [ `A = "41 = 65]
    glue : \leaders 9.0 [1 item]
    hbox : [id=22] (7.0 + 1.0) x 2.0 [rigid], contains 1 item
      [uses font \rip = trip.tfm [unscaled]]
      text : \rip A [1 char, wd=2.0pt] [ `A = "41 = 65]
    glue : \xleaders 9.0 [1 item]
    hbox : [id=23] (7.0 + 1.0) x 2.0 [rigid], contains 1 item
      [uses font \rip = trip.tfm [unscaled]]
      text : \rip A [1 char, wd=2.0pt] [ `A = "41 = 65]
  file : \write [terminal and log] {\help }
  glue : 4.0 plus 2.0 minus 1.0 [interword space]
mark : {alpha} [5 chars]
  glue : 0.0 plus 42.0 minus 8.0 [from \parskip]
  glue : 3.0 plus 41.0 [\baselineskip (adjusted)]
  hbox : [id=30] (7.0 + 1.0) x 0.0, shrunk using -1.0 [no change], contains 6 items
    [uses font \rip = trip.tfm [unscaled]]
    hbox : [id=25] (0.0 + 0.0) x 0.0 [rigid] [empty]
    text : \rip A [1 char, wd=2.0pt] [ `A = "41 = 65]
    cost : \penalty 10000 [never]
    glue : 0.0 [from \parfillskip]
    glue : 0.0 [from \rightskip]
    rule : (ht+dp)=(***) wd=5.0
-->> : \insert200 natural height=400.0pt, split top=0.0, max depth=-2.0pt, float cost=100 [4 items]
  hbox : [id=27] (0.0 + 0.0) x 0.0 [rigid] [empty]
  cost : \penalty 999
  glue : 400.0 [\baselineskip (adjusted)]
  hbox : [id=28] (0.0 + 0.0) x -10.0, shrunk using -0.0 [empty]
mark : {1} [1 char]
  glue : 0.0 plus 42.0 minus 8.0 [from \parskip]
  glue : 2.0 plus 41.0 [\baselineskip (adjusted)]
```



```

hbox : [id=36] (7.0 + 1.0) x 0.0, shrunk using -1.0 [no change], contains 6 items
  [uses font \rip = trip.tfm [unscaled]]
  hbox : [id=31] (0.0 + 0.0) x 0.0 [rigid] [empty]
  text : \rip A [1 char, wd=2.0pt] [`A = "41 = 65]
  cost : \penalty 10000 [never]
  glue : 0.0 [from \parfillskip]
  glue : 0.0 [from \rightskip]
  rule : (ht+dp)=(***) wd=5.0
--> : \insert200 natural height=400.0pt, split top=1.0, max depth=-1.0pt, float cost=100 [4 items]
  hbox : [id=33] (0.0 + 0.0) x 0.0 [rigid] [empty]
  cost : \penalty 999
  glue : 400.0 [\baselineskip (adjusted)]
  hbox : [id=34] (0.0 + 0.0) x -10.0, shrunk using -0.0 [empty]
mark : {2} [1 char]
glue : 0.0 plus 42.0 minus 8.0 [from \parskip]
glue : 2.0 plus 41.0 [\baselineskip (adjusted)]
hbox : [id=42] (7.0 + 1.0) x 0.0, shrunk using -1.0 [no change], contains 6 items
  [uses font \rip = trip.tfm [unscaled]]
  hbox : [id=37] (0.0 + 0.0) x 0.0 [rigid] [empty]
  text : \rip A [1 char, wd=2.0pt] [`A = "41 = 65]
  cost : \penalty 10000 [never]
  glue : 0.0 [from \parfillskip]
  glue : 0.0 [from \rightskip]
  rule : (ht+dp)=(***) wd=5.0
--> : \insert200 natural height=400.0pt, split top=2.0, max depth=-1.0pt, float cost=100 [4 items]
  hbox : [id=39] (0.0 + 0.0) x 0.0 [rigid] [empty]
  cost : \penalty 999
  glue : 400.0 [\baselineskip (adjusted)]
  hbox : [id=40] (0.0 + 0.0) x -10.0, shrunk using -0.0 [empty]
mark : {3} [1 char]
kern : -50.0 [explicit]
glue : 0.0 plus 42.0 minus 8.0 [from \parskip]
glue : 2.0 plus 41.0 [\baselineskip (adjusted)]
hbox : [id=45] (7.0 + 1.0) x 0.0, shrunk using -1.0 [no change], contains 4 items
  [uses font \rip = trip.tfm [unscaled]]
  hbox : [id=43] (0.0 + 0.0) x 0.0 [rigid] [empty]
  text : \rip A [1 char, wd=2.0pt] [`A = "41 = 65]
  glue : 0.0 [from \rightskip]
  rule : (ht+dp)=(***) wd=5.0
glue : 9.0 plus 41.0 [\baselineskip (adjusted)]
hbox : [id=46] (0.0 + 0.0) x 0.0 [rigid], contains 2 items
  cost : \penalty -1000000000 [always]
  glue : 0.0 [from \rightskip]
file : \special {^^80-1000.0pt}
cost : \penalty -5000
glue : 3.0 plus 41.0 [\baselineskip (adjusted)]
hbox : [id=47] (7.0 + 1.0) x 0.0, shrunk using -1.0 [no change], contains 5 items
  [uses font \rip = trip.tfm [unscaled]]
  text : \rip A [1 char, wd=2.0pt] [`A = "41 = 65]
  cost : \penalty 10000 [never]
  glue : 0.0 [from \parfillskip]
  glue : 0.0 [from \rightskip]
  rule : (ht+dp)=(***) wd=5.0
--> : \insert200 natural height=10000.0pt, split top=1.0 plus 43.0, max depth=-1.0pt, float cost=3 [1 item]
  glue : 10000.0 [\vskip]
  cost : \penalty 99999999 [never]

```

```

[[ ++++++ No Pending Contributions to Page 2 ++++++ ]]
Previous depth=1.0pt, 3 lines in previous paragraph

```

```

[[ ##### Current Nested Layout Lists ##### ]]
  [Line 0] vertical mode entered [0 items] [= pending contributions list]
[[ - - - - - End of Nested Layout Lists - - - - - ]]

    {\showthe} ...
      {\pagefilllstretch}: 8.0pt
    ... {\showthe}:

Line 151 | \showthe \pagefilllstretch
8.0pt

    {\vskip}: 1000.0pt [appending to vertical list]
    {\penalty}: -333 [appending to vertical list]

% t=2061.0 plus 458.0 plus -1.0fil plus 8.0filll minus 51.0 g=1055.44061 b=* p=-333 c=* [* = infinite]

>ERROR< | \box255 is not void. Discarding its contents and continuing.
Line 151 | \showthe\pagefilllstretch\vskip 1000pt\penalty-333\hbox to 23pt{} % output now
          ^^^^

Deleting the following box:
vbox : [id=14] (0.0 + 0.0) x 0.0 [rigid] [empty]

Pushing \output->{\dimen 9=\ht 200\count 5=\dimen 9\global \countz =\outputpenalty \ifnum
                \holdinginserts >0\global \holdinginserts 0\unvbox 255\penalty \countz \else \setbox
                255\copy 255 \shipout \hbox {\box 100\box 200\vsplit 255 to 55pt} \unvcopy
                255\showlists \showthe \insertpenalties \showthe \pageshrink \globaldefs 1\halign
                {##\tabskip \lineskip \cr } \showboxdepth 1\showboxbreadth 2\fi \message {\topmark
                :\firstmark :\botmark :\splitfirstmark :\splitbotmark }}

>> internal vertical mode
    {}: entering \output group [level 2 at line 151]
    {\dimen} ...
      {\ht}: [of \box200] [id=1] 10.4pt
    ... {\dimen}: \dimen9 = 10.4pt [was 0.0pt]
    {\count} ...
      {\dimen}: 10.4pt [= \dimen9]
    ... {\count}: \count5 = 681574 [was 0]
    {\global}
    {\countz} ...
      {\outputpenalty}: -5000 [parameter]
    ... {\countz}: \count0 = -5000 [was 0]
    {\ifnum} ...
      {\holdinginserts}: 1 [parameter]
    ... {\ifnum}: 1 > 0 ? true
    {\global}
      {\holdinginserts}: 0 [was 1]
    {\unvbox}: appending contents of \box255 to vertical list; voiding register
    {\penalty} ...
      {\countz}: -5000 [= \count0]
    ... {\penalty}: -5000 [appending to vertical list]
    {\else}: false
    {\fi}: [end of \ifnum on line 151]
    {\message} ...
      {\topmark}: [empty]
      {\firstmark}: Pushing ->alpha
      {\botmark}: Pushing ->3
      {\splitfirstmark}: [empty]
      {\splitbotmark}: [empty]
    ... {\message}: [to "trip.log" and terminal]

```

```

:alpha:3:
  {}: leaving \output group [level 2 at line 151]
    restoring [register] \count5 to 0
      [register] \dimen9 to 0.0pt

%% goal height=2000.0, max depth=2.0
>ERROR< | Insertion's \skip100 is infinitely shrinkable glue [-6.0pt plus 3.0filll minus 9.0fil].
| Page-breaking requires correction glue with finite shrinkage, which will now be used instead.
Line 151 | \showthe\pagefilllstretch\vskip 1000pt\penalty-333\hbox to 23pt{} % output now

% split100 to 803.0, 267.7 p=-101
% t=0.0 plus 3.0filll minus 9.0          g=1470.63013 b=0 p=0 c=-101# [# = best break so far]
% t=1050.0 plus 44.0 plus 3.0filll minus 19.0 g=1470.63013 b=0 p=0 c=-101# [# = best break so far]
% t=1060.0 plus 127.0 plus 8.0filll minus 27.0 g=1255.43756 b=0 p=0 c=-101# [# = best break so far]
% t=1070.0 plus 210.0 plus 8.0filll minus 35.0 g=1055.44061 b=7 p=0 c=-94
% split200 to -51.11694, 0.0 p=999
% t=1080.0 plus 293.0 plus 8.0filll minus 43.0 g=1055.44061 b=18 p=0 c=916
% t=1040.0 plus 376.0 plus 8.0filll minus 51.0 g=1055.44061 b=0 p=0 c=898
% t=1050.0 plus 417.0 plus 8.0filll minus 51.0 g=1055.44061 b=0 p=-5000 c=-4102# [# = best break so far]
% t=2061.0 plus 458.0 plus 8.0filll minus 51.0 g=1055.44061 b=* p=-333 c=* [* = infinite]

> vertical mode
  Pushing \output->{\dimen 9=\ht 200\count 5=\dimen 9\global \countz =\outputpenalty \ifnum
    \holdinginserts >0\global \holdinginserts 0\unvbox 255\penalty \countz \else \setbox
    255\copy 255 \shipout \hbox {\box 100\box 200\vsplit 255 to 55pt} \unvcopy
    255\showlists \showthe \insertpenalties \showthe \pageshrink \globaldefs 1\halign
    {##\tabskip \lineskip \cr } \showboxdepth 1\showboxbreadth 2\fi \message {\topmark
    :\firstmark :\botmark :\splitfirstmark :\splitbotmark }}

>> internal vertical mode
  {}: entering \output group [level 2 at line 151]
    {\dimen} ...
      {\ht}: [of \box200] [id=54] 810.4pt
    ... {\dimen}: \dimen9 = 810.4pt [was 0.0pt]
      {\count} ...
        {\dimen}: 810.4pt [= \dimen9]
    ... {\count}: \count5 = 53110374 [was 0]
      {\global}
        {\countz} ...
          {\outputpenalty}: -5000 [parameter]
    ... {\countz}: \count0 = -5000 [no change]
      {\ifnum} ...
        {\holdinginserts}: 0 [parameter]
    ... {\ifnum}: 0 > 0 ? false
      {\else}: true
        {\setbox} ...
          {\copy}
    ... {\setbox}: \box255 = a copy of \box255 = vbox : [id=56] (1055.44061 + 0.0) x 45.0, stretched using 0.01305 [24 items]
          [was vbox : [id=55] (1055.44061 + 0.0) x 45.0, stretched using 0.01305]
        {\shipout} ...
          {\hbox}

>>> restricted horizontal mode
  {}: entering \hbox group [level 3 at line 151]
    {\box}: appending \box100 = vbox : [id=52] (267.7 + 0.0) x 0.0 [rigid] [2 items] [voiding register]
    {\box}: appending \box200 = vbox : [id=54] (810.4 + 0.0) x 0.0 [rigid] [11 items] [voiding register]
    {\vsplit}: appending top part of \box255 split vertically to 55.0pt [\splitmaxdepth=-1.0pt, \splittopskip=1.0pt plus 43.0pt]
      \box255 = vbox : [id=56] (1055.44061 + 0.0) x 45.0, stretched using 0.01305, contains 24 items
        glue : 0.0 plus 44.0 [from \topskip]

```

```

vbox : [id=57] (1000.0 + 0.0) × 0.0 [empty]
cost : \penalty 12345 [never]
glue : \cledaders 50.0 minus 10.0 [1 item]
mark : {alpha} [5 chars]
split --> -----
glue : 0.0 plus 42.0 minus 8.0 [from \parskip]
glue : 3.0 plus 41.0 [\baselineskip (adjusted)]
hbox : [id=63] (7.0 + 1.0) × 0.0, shrunk using -1.0 [no change], contains 6 items
mark : {1} [1 char]
glue : 0.0 plus 42.0 minus 8.0 [from \parskip]
glue : 2.0 plus 41.0 [\baselineskip (adjusted)]
hbox : [id=65] (7.0 + 1.0) × 0.0, shrunk using -1.0 [no change], contains 6 items
mark : {2} [1 char]
glue : 0.0 plus 42.0 minus 8.0 [from \parskip]
glue : 2.0 plus 41.0 [\baselineskip (adjusted)]
hbox : [id=67] (7.0 + 1.0) × 0.0, shrunk using -1.0 [no change], contains 6 items
mark : {3} [1 char]
kern : -50.0 [explicit]
glue : 0.0 plus 42.0 minus 8.0 [from \parskip]
glue : 2.0 plus 41.0 [\baselineskip (adjusted)]
hbox : [id=69] (7.0 + 1.0) × 0.0, shrunk using -1.0 [no change], contains 4 items
glue : 9.0 plus 41.0 [\baselineskip (adjusted)]
hbox : [id=71] (0.0 + 0.0) × 0.0 [rigid], contains 2 items
file : \special {^80-1000.0pt}

```

Warning : Overfull vertical box [id=73] [986.0pts too high] occurred during \output.
Line 151 : \showthe\pagefillllstretch\vskip 1000pt\penalty-333\hbox to 23pt{} % output now

```

[] []
Overfull vbox : [id=73] (55.0 + -1.0) × 45.0, shrunk using -1.0 [no change], contains 5 items
glue : 0.0 plus 44.0 [from \topskip]
vbox : [id=57] (1000.0 + 0.0) × 0.0 [empty]
cost : \penalty 12345 [never]
glue : \cledaders 50.0 minus 10.0 [1 item]
hbox : [id=58] (15.0 + 2.0) × 45.0 [rigid], contains 8 items
vbox : [id=59] (17.0 + 0.0) × 0.0, shifted down by 2.0 [empty]
glue : 4.0 plus 2.0 minus 1.0 [interword space]
glue : \leaders 10.0 [1 item]
rule : (ht+dp)=(0.4+0.0) wd=*
glue : \cledaders 9.0 [1 item]
hbox : [id=60] (7.0 + 1.0) × 2.0 [rigid], contains 1 item
[uses font \rip = trip.tfm [unscaled]]
text : \rip A [1 char, wd=2.0pt] [A = "41 = 65]
glue : \leaders 9.0 [1 item]
hbox : [id=61] (7.0 + 1.0) × 2.0 [rigid], contains 1 item
[uses font \rip = trip.tfm [unscaled]]
text : \rip A [1 char, wd=2.0pt] [A = "41 = 65]
glue : \xleaders 9.0 [1 item]
hbox : [id=62] (7.0 + 1.0) × 2.0 [rigid], contains 1 item
[uses font \rip = trip.tfm [unscaled]]
text : \rip A [1 char, wd=2.0pt] [A = "41 = 65]
file : \write [terminal and log] {\help }
glue : 4.0 plus 2.0 minus 1.0 [interword space]
mark : {alpha} [5 chars]

{}}: leaving \hbox group [level 3 at line 151]
... {\shipout}: hbox : [id=74] (810.4 + 0.0) × 45.0 [rigid] [3 items]

```

Shipping out a completed page [-5000.0.0.0.11.53110374]:


```

[[ ===== Partially Built Page 3 ===== ]]
Height so far: 2061.0 plus 458.0 plus 8.0filll minus 51.0
Ultimate goal: 1055.44061pt
Contents [held over for next output]:
--> : \insert100 natural height=535.4pt, split top=1.0 plus 43.0, max depth=-2.0pt, float cost=100 [6 items]
  glue : 0.0 plus 43.0 [from \splittopskip]
  vbox : [id=16] (267.7 + 0.0) x 0.0 [empty]
  cost : \penalty -100
  glue : 0.0 minus 0.4 [from \lineskip]
  vbox : [id=17] (267.7 + 0.0) x 0.0 [empty]
  cost : \penalty -1000
--> : \insert200 natural height=2.0pt, split top=2.0, max depth=-1.0pt, float cost=100 [2 items]
  glue : 2.0 [from \splittopskip]
  hbox : [id=40] (0.0 + 0.0) x -10.0, shrunk using -0.0 [empty]

```

```

[[ ++++++ Pending Contributions to Page 3 ++++++ ]]
Previous depth=1.0pt, 3 lines in previous paragraph
8 items:
cost : \penalty 10000 [never]
cost : \penalty 10000 [never]
glue : 3.0 plus 41.0 [\baselineskip (adjusted)]
hbox : [id=47] (7.0 + 1.0) x 0.0, shrunk using -1.0 [no change], contains 5 items
  [uses font \rip = trip.tfm [unscaled]]
  text : \rip A [1 char, wd=2.0pt] [`A = "41 = 65]
  cost : \penalty 10000 [never]
  glue : 0.0 [from \parfillskip]
  glue : 0.0 [from \rightskip]
  rule : (ht+dp)=(***) wd=5.0
--> : \insert200 natural height=10000.0pt, split top=1.0 plus 43.0, max depth=-1.0pt, float cost=3 [1 item]
  glue : 10000.0 [\vskip]
cost : \penalty 9999999 [never]
glue : 1000.0 [\vskip]
cost : \penalty -333

```

```

[[ ##### Current Nested Layout Lists ##### ]]
[Line 151] internal vertical mode entered [prevdepth ignored] [\output routine] [18 items]
  glue : 0.0 plus 43.0 [from \splittopskip]
  hbox : [id=75] (7.0 + 1.0) x 0.0, shrunk using -1.0 [no change], contains 6 items
    [uses font \rip = trip.tfm [unscaled]]
    hbox : [id=76] (0.0 + 0.0) x 0.0 [rigid] [empty]
    text : \rip A [1 char, wd=2.0pt] [`A = "41 = 65]
    cost : \penalty 10000 [never]
    glue : 0.0 [from \parfillskip]
    glue : 0.0 [from \rightskip]
    rule : (ht+dp)=(***) wd=5.0
  mark : {1} [1 char]
  glue : 0.0 plus 42.0 minus 8.0 [from \parskip]
  glue : 2.0 plus 41.0 [\baselineskip (adjusted)]
  hbox : [id=77] (7.0 + 1.0) x 0.0, shrunk using -1.0 [no change], contains 6 items
    [uses font \rip = trip.tfm [unscaled]]
    hbox : [id=78] (0.0 + 0.0) x 0.0 [rigid] [empty]
    text : \rip A [1 char, wd=2.0pt] [`A = "41 = 65]
    cost : \penalty 10000 [never]
    glue : 0.0 [from \parfillskip]
    glue : 0.0 [from \rightskip]
    rule : (ht+dp)=(***) wd=5.0
  mark : {2} [1 char]
  glue : 0.0 plus 42.0 minus 8.0 [from \parskip]

```

```

glue : 2.0 plus 41.0 [\baselineskip (adjusted)]
hbox : [id=79] (7.0 + 1.0) × 0.0, shrunk using -1.0 [no change], contains 6 items
  [uses font \rip = trip.tfm [unscaled]]
  hbox : [id=80] (0.0 + 0.0) × 0.0 [rigid] [empty]
  text : \rip A [1 char, wd=2.0pt] [`A = "41 = 65]
  cost : \penalty 10000 [never]
  glue : 0.0 [from \parfillskip]
  glue : 0.0 [from \rightskip]
  rule : (ht+dp)=(***) wd=5.0
mark : {3} [1 char]
kern : -50.0 [explicit]
glue : 0.0 plus 42.0 minus 8.0 [from \parskip]
glue : 2.0 plus 41.0 [\baselineskip (adjusted)]
hbox : [id=81] (7.0 + 1.0) × 0.0, shrunk using -1.0 [no change], contains 4 items
  [uses font \rip = trip.tfm [unscaled]]
  hbox : [id=82] (0.0 + 0.0) × 0.0 [rigid] [empty]
  text : \rip A [1 char, wd=2.0pt] [`A = "41 = 65]
  glue : 0.0 [from \rightskip]
  rule : (ht+dp)=(***) wd=5.0
glue : 9.0 plus 41.0 [\baselineskip (adjusted)]
hbox : [id=83] (0.0 + 0.0) × 0.0 [rigid], contains 2 items
  cost : \penalty -1000000000 [always]
  glue : 0.0 [from \rightskip]
file : \special {^^80-1000.0pt}
[Line 0] vertical mode entered [8 items] [= pending contributions list]
[[ - - - - - End of Nested Layout Lists - - - - - ]]

  {\showthe} ...
  {\insertpenalties}: 2
  ... {\showthe}:

Line 151 | \showthe \insertpenalties
2

  {\showthe} ...
  {\pageshrink}: 51.0pt
  ... {\showthe}:

Line 151 | \showthe \pageshrink
51.0pt

  {\globaldefs}: 1 [was 0]
  {\halign}: building successive rows, each containing entries in horizontally tabbed columns ...
  {}: entering \halign group [level 3 at line 151]
  ... {\halign}: [preamble] recording templates for each column ...
  #: end of prefix material for column 1's template; collecting suffix
  {\tabskip}: [not recorded in template] ...
  {\lineskip}: 0.0pt plus 40.0pt [parameter]
  ... {\tabskip}: changing \tabskip [inter-column glue] to 0.0 plus 40.0 [global]
  {\cr}: end of column 1's suffix and template
  ... {\halign}: preamble has declared template for 1 column ...
  \tabskip [= 0.0]
  column 1: [no extra material to insert]
  \tabskip = 0.0 plus 40.0
  {column entry}: entering hidden alignment item group [level 4 at line 151]
  {column entry}: leaving hidden alignment item group [level 4 at line 151]
  {}: leaving \halign group [level 3 at line 151]
  ... {\halign}: [done] appending 0 rows of aligned material
  {}: [ignored in internal vertical mode]

```

```

{\showboxdepth}: 1 [was 9999]
{\showboxbreadth} ...
{\fi}: [end of \ifnum on line 151]
... {\showboxbreadth}: 2 [was 9999]
{\message} ...
{\topmark}: Pushing ->3
{\firstmark}: Pushing ->alpha
{\botmark}: Pushing ->3
{\splitfirstmark}: Pushing ->alpha
{\splitbotmark}: Pushing ->alpha
... {\message}: [to "trip.log" and terminal]

```

3:alpha:3:alpha:alpha

```

{}}: leaving \output group [level 2 at line 151]
restoring [parameter] \globaldefs to 0
[register] \box255 to vbox : [id=55] (1055.44061 + 0.0) × 45.0, stretched using 0.01305 [24 items]
[register] \count5 to 0
[register] \dimen9 to 0.0pt

```

```

>ERROR< | The \output routine didn't leave \box255 empty. Discarding its remaining contents.
Line 151 | \showthe\pagefilllstretch\vskip 1000pt\penalty-333\hbox to 23pt{} % output now

```

Deleting the following box:

```

vbox : [id=55] (1055.44061 + 0.0) × 45.0, stretched using 0.01305, contains 24 items
glue : 0.0 plus 44.0 [from \topskip]
vbox : [id=19] (1000.0 + 0.0) × 0.0 [empty]
etc. : 22 unshown items ... [\showboxbreadth=2]

```

% goal height=2000.0, max depth=2.0

```

>ERROR< | Insertion's \skip100 is infinitely shrinkable glue [-6.0pt plus 3.0filll minus 9.0fil].
| Page-breaking requires correction glue with finite shrinkage, which will now be used instead.
Line 151 | \showthe\pagefilllstretch\vskip 1000pt\penalty-333\hbox to 23pt{} % output now

```

```

% t=0.0 plus 8.0filll minus 9.0 g=924.23029 b=0 p=0 c=0# [# = best break so far]
% t=7.0 plus 44.0 plus 8.0filll minus 9.0 g=924.23029 b=0 p=0 c=0# [# = best break so far]
% t=17.0 plus 127.0 plus 8.0filll minus 17.0 g=924.23029 b=0 p=0 c=0# [# = best break so far]
% t=27.0 plus 210.0 plus 8.0filll minus 25.0 g=924.23029 b=0 p=0 c=0# [# = best break so far]
% t=-13.0 plus 293.0 plus 8.0filll minus 33.0 g=924.23029 b=0 p=0 c=0# [# = best break so far]
% split200 to 1832.4585, 10000.0 p=-10000
% t=1008.0 plus 375.0 plus 8.0filll minus 33.0 g=-4075.76971 b=* p=-333 c=* [* = infinite]

```

> vertical mode

```

Pushing \output->{\dimen 9=\ht 200\count 5=\dimen 9\global \countz =\outputpenalty \ifnum
\holdinginserts >0\global \holdinginserts 0\unvbox 255\penalty \countz \else \setbox
255\copy 255 \shipout \hbox {\box 100\box 200\vsplit 255 to 55pt} \unvcopy
255\showlists \showthe \insertpenalties \showthe \pageshrink \globaldefs 1\halign
{##\tabskip \lineskip \cr } \showboxdepth 1\showboxbreadth 2\fi \message {\topmark
:\firstmark :\botmark :\splitfirstmark :\splitbotmark }}

```

>> internal vertical mode

```

{}}: entering \output group [level 2 at line 151]
{\dimen} ...
{\ht}: [of \box200] [id=89] 2.0pt
... {\dimen}: \dimen9 = 2.0pt [was 0.0pt]
{\count} ...
{\dimen}: 2.0pt [= \dimen9]

```

"trip.tex"[Line 151]

etc. : 9 unshown items ... [\showboxbreadth=2]

```
[ [##### Current Nested Layout Lists ##### ]
 [Line 151] internal vertical mode entered [prevdepth ignored] [\output routine] [empty list]
 [Line 0] vertical mode entered [11 items] [= pending contributions list]
 [ - - - - - End of Nested Layout Lists - - - - - ]
```

```
    {\showthe} ...
      {\insertpenalties}: 0
    ... {\showthe}:
```

Line 151 | \showthe \insertpenalties
0

```
    {\showthe} ...
      {\pageshrink}: 33.0pt
    ... {\showthe}:
```

Line 151 | \showthe \pageshrink
33.0pt

```
    {\globaldefs}: 1 [was 0]
    {\halign}: building successive rows, each containing entries in horizontally tabbed columns ...
      {}: entering \halign group [level 3 at line 151]
    ... {\halign}: [preamble] recording templates for each column ...
      {#}: end of prefix material for column 1's template; collecting suffix
      {\tabskip}: [not recorded in template] ...
        {\lineskip}: 0.0pt plus 40.0pt [parameter]
      ... {\tabskip}: changing \tabskip [inter-column glue] to 0.0 plus 40.0 [global]
      {\cr}: end of column 1's suffix and template
    ... {\halign}: preamble has declared template for 1 column ...
      \tabskip [= 0.0 plus 40.0]
      column 1: [no extra material to insert]
      \tabskip
      {column entry}: entering hidden alignment item group [level 4 at line 151]
      {column entry}: leaving hidden alignment item group [level 4 at line 151]
      {}: leaving \halign group [level 3 at line 151]
    ... {\halign}: [done] appending 0 rows of aligned material
      { }: [ignored in internal vertical mode]
      {\showboxdepth}: 1 [no change]
      {\showboxbreadth} ...
      {\fi}: [end of \ifnum on line 151]
    ... {\showboxbreadth}: 2 [no change]
      {\message} ...
      {\topmark}: Pushing ->3
      {\firstmark}: Pushing ->1
      {\botmark}: Pushing ->3
      {\splitfirstmark}: Pushing ->1
      {\splitbotmark}: Pushing ->3
    ... {\message}: [to "trip.log" and terminal]
```

3:1:3:1:3

```
{}: leaving \output group [level 2 at line 151]
restoring [parameter] \globaldefs to 0
[register] \box255 to vbox : [id=90] (924.23029 + 1.0) × 0.0, stretched using 3.19875 [15 items]
[register] \count5 to 0
[register] \dimen9 to 0.0pt
```

```
>ERROR< | The \output routine didn't leave \box255 empty. Discarding its remaining contents.
Line 151 | \showthe\pagefilllstretch\vskip 1000pt\penalty-333\hbox to 23pt{} % output now
```

```
Deleting the following box:
```

```
vbox : [id=90] (924.23029 + 1.0) × 0.0, stretched using 3.19875, contains 15 items
glue : 0.0 plus 44.0 [from \topskip]
hbox : [id=75] (7.0 + 1.0) × 0.0, shrunk using -1.0 [no change], contains 6 items
etc. : 13 unshown items ... [\showboxbreadth=2]
```

```
%% goal height=2000.0, max depth=2.0
```

```
% split200 to 3955.99365, 10000.0 p=-10000
```

```
% t=1012.0 plus 85.0 plus 5.0filll g=-3010.0 b=* p=-333 c=*# [# = best break so far] [* = infinite]
```

```
> vertical mode
```

```
Pushing \output->{\dimen 9=\ht 200\count 5=\dimen 9\global \countz =\outputpenalty \ifnum
\holdinginserts >0\global \holdinginserts 0\unvbox 255\penalty \countz \else \setbox
255\copy 255 \shipout \hbox {\box 100\box 200\vsplit 255 to 55pt} \unvcopy
255\showlists \showthe \insertpenalties \showthe \pageshrink \globaldefs 1\halign
{##\tabskip \lineskip \cr } \showboxdepth 1\showboxbreadth 2\fi \message {\topmark
:\firstmark :\botmark :\splitfirstmark :\splitbotmark }}
```

```
>> internal vertical mode
```

```
{{}: entering \output group [level 2 at line 151]
{\dimen} ...
{\ht}: [of \box200] [id=105] 10000.0pt
... {\dimen}: \dimen9 = 10000.0pt [was 0.0pt]
{\count} ...
{\dimen}: 10000.0pt [= \dimen9]
... {\count}: \count5 = 655360000 [was 0]
{\global}
{\countz} ...
{\outputpenalty}: -333 [parameter]
... {\countz}: \count0 = -333 [was 10000]
{\ifnum} ...
{\holdinginserts}: 0 [parameter]
... {\ifnum}: 0 > 0 ? false
{\else}: true
{\setbox} ...
{\copy}
... {\setbox}: \box255 = a copy of \box255 = vbox : [id=107] (-3010.0 + 0.0) × 0.0, shrunk using -1.0 [no change] [9 items]
[was vbox : [id=106] (-3010.0 + 0.0) × 0.0, shrunk using -1.0 [no change]]
{\shipout} ...
{\hbox}
```

```
>>> restricted horizontal mode
```

```
{{}: entering \hbox group [level 3 at line 151]
{\box}: \box100 = void [nothing appended]
{\box}: appending \box200 = vbox : [id=105] (10000.0 + 0.0) × 0.0 [rigid] [1 item] [voiding register]
{\vsplit}: appending top part of \box255 split vertically to 55.0pt [\splitmaxdepth=-1.0pt, \splittopskip=1.0pt plus 43.0pt]
\box255 = vbox : [id=107] (-3010.0 + 0.0) × 0.0, shrunk using -1.0 [no change], contains 9 items
glue : 1.0 plus 44.0 [from \topskip]
hbox : [id=108] (0.0 + 0.0) × 0.0 [rigid], contains 2 items
etc. : 7 unshown items ... [\showboxbreadth=2]
```

```
Warning : Overfull vertical box [id=110] [958.0pts too high] occurred during \output.
```

```
Line 151 : \showthe\pagefilllstretch\vskip 1000pt\penalty-333\hbox to 23pt{} % output now
```

```
[][] []
```

```
Overfull vbox : [id=110] (55.0 + -1.0) × 0.0, shrunk using -1.0 [no change], contains 9 items
glue : 1.0 plus 44.0 [from \topskip]
hbox : [id=108] (0.0 + 0.0) × 0.0 [rigid], contains 2 items
```



```

    {}: entering \halign group [level 3 at line 151]
... {\halign}: [preamble] recording templates for each column ...
    {}: end of prefix material for column 1's template; collecting suffix
    {\tabskip}: [not recorded in template] ...
    {\lineskip}: 0.0pt plus 40.0pt [parameter]
... {\tabskip}: changing \tabskip [inter-column glue] to 0.0 plus 40.0 [global]
    {\cr}: end of column 1's suffix and template
... {\halign}: preamble has declared template for 1 column ...
    \tabskip [= 0.0 plus 40.0]
    column 1:      [no extra material to insert]
    \tabskip
    {column entry}: entering hidden alignment item group [level 4 at line 151]
    {column entry}: leaving hidden alignment item group [level 4 at line 151]
    {}: leaving \halign group [level 3 at line 151]
... {\halign}: [done] appending 0 rows of aligned material
{ }: [ignored in internal vertical mode]
{\showboxdepth}: 1 [no change]
{\showboxbreadth} ...
{\fi}: [end of \ifnum on line 151]
... {\showboxbreadth}: 2 [no change]
{\message} ...
    {\topmark}: Pushing ->3
    {\firstmark}: Pushing ->3
    {\botmark}: Pushing ->3
    {\splitfirstmark}: [empty]
    {\splitbotmark}: [empty]
... {\message}: [to "trip.log" and terminal]

```

3:3:3::

```

{}: leaving \output group [level 2 at line 151]
restoring [parameter] \globaldefs to 0
[register] \box255 to vbox : [id=106] (-3010.0 + 0.0) x 0.0, shrunk using -1.0 [no change] [9 items]
[register] \count5 to 0
[register] \dimen9 to 0.0pt

```

>ERROR< | The \output routine didn't leave \box255 empty. Discarding its remaining contents.
Line 151 | \showthe\pagefilllstretch\vskip 1000pt\penalty-333\hbox to 23pt{} % output now

Deleting the following box:

```

vbox : [id=106] (-3010.0 + 0.0) x 0.0, shrunk using -1.0 [no change], contains 9 items
glue : 1.0 plus 44.0 [from \topskip]
hbox : [id=83] (0.0 + 0.0) x 0.0 [rigid], contains 2 items
etc. : 7 unshown items ... [\showboxbreadth=2]

```

> vertical mode

```
{\hbox}: to 23.0pt ...
```

>> restricted horizontal mode

```
{}: entering adjusted \hbox group [level 2 at line 151]
```

```
{}: leaving adjusted \hbox group [level 2 at line 151]
```

```
... {\hbox}: appending hbox : [id=114] (0.0 + 0.0) x 23.0, stretched using 0.0 [empty]
```

%% goal height=2000.0, max depth=2.0

> vertical mode

```
{ }: [ignored in vertical mode]
```

```
{\vsize} ...
```

Warning : Expecting a digit after a lone decimal point. Assuming 0.0.

```

Line 152 : \vsize.pt\global\vsize=16383.99999237060546875pt % page size \approx infinity
... {\vsize}: 0.0pt [was 2000.0pt]
{\global}

"trip.tex"[Line 152]
{\vsize}: 16384.0pt [was 0.0pt] ...

>ERROR< | The dimension 16384.0 is outside the TeX range [-16383.99998,16383.99998]. Using closest legal value.
| [JSBox features, which support larger limits, are not enabled.]
Line 152 | \vsize.pt\global\vsize=16383.99999237060546875pt % page size \approx infinity
... {\vsize}: 16383.99998pt
{}: leaving simple group [level 1 at line 115]
retaining [parameter] \vsize as 16383.99998pt
restoring [parameter] \everypar->A\insert 200{\baselineskip 400pt\splittopskip \count 15pt\hbox {\vadjust {\penalty
999}}\hbox t ... [36 more tokens in list]
[parameter] \splitmaxdepth to -2.0pt
[register] \count15 to 0
[parameter] \topskip to 20.0pt plus 1.0fil
[parameter] \output->{\tracingcommands 0\showthe \outputpenalty \showboxbreadth 9999 \showboxdepth 999
9 \hoffset 1sp {\setbox 254=\box 2 ... [30 more tokens in list]
{ }: [ignored in vertical mode]
{}: entering simple group [level 1 at line 154]
{\tracingoutput}: -2 [=off] [was 1]
{\tracingstats}: 1 [was 4]
{\shipout} ...
{\hbox}
>> restricted horizontal mode
{}: entering \hbox group [level 2 at line 154]
{\closeout}: 10 [appending delayed output item]
{\closeout}: -10 [using 17] [but log file can't be closed with \closeout; ignoring it]
{}: leaving \hbox group [level 2 at line 154]
... {\shipout}: hbox : [id=115] (0.0 + 0.0) x 0.0 [rigid] [1 item]

[-333.0.0.0.11]
Executing and removing delayed output items (but retaining \specials) ...

> write [shipout] mode
{\closeout}: 10 tripos.tex

... finished executing delayed output items.
<<<< Page 5 done >>>>

> vertical mode
{}: leaving simple group [level 1 at line 154]
restoring [parameter] \tracingstats to 4
[parameter] \tracingoutput to 1
{ }: [ignored in vertical mode]
{\showthe} ...
{\everypar}: [parameter] ->A\insert 200{\baselineskip 400 ... [56 more tokens in list]
.. {\showthe}:

Line 155 | \showthe \everypar
A\insert 200{\baselineskip 400pt\splittopskip \count 15pt\hbox {\vadjust {\penalty 999}
}\hbox to -10pt{}}\showthe \pagetotal \showthe \pagegoal \advance \count 15by1\mark

```

```
{\the \count 15}\splitmaxdepth -1pt \paR \gobble
```

```
{\everypar}:
  was->A\insert 200{\baselineskip 400pt\splittopskip \count 15pt\hbox { ... [46 more tokens in list]
{\showthe} ...
  {\everypar}: [parameter] ->
.. {\showthe}:
```

```
Line 156 | \showthe \everypar
```

```
{\def}: \showlonglists->{\tracingcommands 0\pagefillstretch -1\dimen 100 \showboxbreadth 9999 \showboxdepth
  9999 \showlists \pagegoal =10000pt}
{ }: [ignored in vertical mode]
{\tracingmacros}: 1 [macro calls and arguments] [was 0]
{\def}: \t12#101001{->-.#1pt{
{ }: [ignored in vertical mode]
{\let}: \T = \t = macro:12#101001{->-.#1pt{
{\dimendef}: \varunit = \dimen222
{\varunit} ...
  {\ifdim} ...
    {\mag}: 2000 = "07D0 [parameter]
... {\ifdim}: 0.01526 > 0.0 ? true
  {\fi}: [end of \ifdim on line 161]
.. {\varunit}: \dimen222 = 1.001pt [was 0.0pt]
  {\ifdim} ...
    {\varunit}: 1.001pt [= \dimen222] [scaling by -0.01001]

  Calling \t 12#101001{->-.#1pt{
    #1: 01001010
.. {\ifdim}: -0.01001 = -0.01001 ? true
  {}: entering simple group [level 1 at line 162]
  {\relax}
  {}: leaving simple group [level 1 at line 162]
{\else}: false
{\fi}: [end of \ifdim on line 162]
{\countz}: \count0 = -1 [was -333]
{\ifodd} ...
  {\count}: -1 [= \count0]
.. {\ifodd}: -1 ? true
  {\advance} ...
  {\fi}: [end of \ifodd on line 164]
... {\advance}: \countz [-1 + -1 = -2]
{\penalty}: -12345 [always] [appending to vertical list]

% t=1.0 plus 44.0                g=2000.0 b=10000 p=-12345 [always] c=-12345# [# = best break so far]
```

```
Pushing \output->{\tracingcommands 0\showthe \outputpenalty \showboxbreadth 9999 \showboxdepth 999
  9 \hoffset 1sp {\setbox 254=\box 255\shipout \ifvbox 2\ifhbox 254 \error \fi
  54\copy 25\fi 4} \ifvoid 254\relax \else \error \fi }
>> internal vertical mode
  {}: entering \output group [level 1 at line 165]
  {\tracingcommands}: 0 [=off] [was 2]
```

```
Line 165 | \showthe \outputpenalty
-12345
```

```
Shipping out a completed page [-2.0.0.0.11]:
  vbox : [id=117] (2000.0 + 0.0) × 23.0, stretched using 45.43182, contains 2 items
```

```
glue : 1.0 plus 44.0 [from \topskip]
hbox : [id=118] (0.0 + 0.0) × 23.0, stretched using 0.0 [empty]
```

No delayed output items to execute.

<<<< Page 6 done >>>>

```
{}): leaving simple group [level 2 at line 165]
restoring [register] \box254 to void
{}): leaving \output group [level 1 at line 165]
restoring [parameter] \hoffset to 0.0pt
[parameter] \showboxdepth to 1
[parameter] \showboxbreadth to 2
[parameter] \tracingcommands to 2
```

> vertical mode

```
{\tracingmacros} ...
```

```
{\tracingstats}: 4 [parameter]
```

```
.. {\tracingmacros}: 4 [unused code, presumed on] [was 1]
```

```
{\adjdemerits}: 782 [was 0]
```

```
{\linepenalty}: 1 [was 0]
```

```
{\def}: \1#1->\hbox to#1pt{}
```

```
{ }: [ignored in vertical mode]
```

```
{\valign}: [postponing it, starting new paragraph first]
```

>> horizontal mode

```
{\valign}: building successive columns, each containing entries in vertically tabbed rows ...
```

>>> restricted horizontal mode

```
{{}: entering \valign group [level 1 at line 172]
```

```
.. {\valign}: [preamble] recording templates for each row ...
```

```
{\baselineskip}
```

```
{20ptplus1pt}: [11 chars]
```

```
{\global}
```

```
{\parfillskip}
```

```
{0pt}: [3 chars]
```

```
{ }
```

```
{\global}
```

```
{\global}
```

```
{\leftskip}
```

```
{4pt}: [3 chars]
```

```
{ }
```

```
{\rightskip}
```

```
{-1pt}: [4 chars]
```

```
{ }
```

```
{\global}
```

```
{\hsize}
```

```
{13pt}: [4 chars]
```

```
{ }
```

```
{\setbox}
```

```
{2}
```

```
{\1}
```

```
{2}
```

```
{ }
```

```
{\noindent}
```

```
{\copy}
```

```
{2}
```

```
{\hskip}
```

```
{2pt}: [3 chars]
```

```
{ }
```

```
{plus5pt}: [7 chars]
```

```
{ }
```

```
{minus1pt}: [8 chars]
```



```

{ }
{\copy}
{2}
{\hskip}
{5pt}: [3 chars]
{ }
{minus2pt}: [8 chars]
{ }
{\lower}
{2pt}: [3 chars]
{\1}
{1}
{\hskip}
{3pt}: [3 chars]
{ }
{\copy}
{2}
{ }
{\hskip}
{2pt}: [3 chars]
{ }
{plus.5pc}: [8 chars]
{ }
{\box}
{2}
{#}: end of prefix material for row 1's template; collecting suffix

```

"trip.tex"[Line 181]

```

{\cr}: end of row 1's suffix and template
.. {\valign}: preamble has declared template for 1 row ...
   \tabskip [= 0.0 plus 40.0]
   row 1 prefix: \baselineskip 20ptp[... ]5pc \box 2
   \tabskip
{row entry}: entering hidden alignment item group [level 2 at line 181]
  {\noalign}
  {}: entering \noalign group [level 3 at line 182]
    {\spacefactor}: 2000
    {\global}
    {\xspaceskip}: -1.0pt [was 0.0pt]
  {}: leaving \noalign group [level 3 at line 182]
  {\noalign}
  {}: entering \noalign group [level 3 at line 183]
    { }: appending unscaled \xspaceskip glue [-1.0] [(\spacefactor=2000)/1000 is at least 2.0]
    {\vrule}: appending vertical rule : (ht+dp)=(***) wd=0.0 [invisible]
    {}: entering simple group [level 4 at line 183]
      { }: appending font's inter-word glue [4.0 plus 2.0 minus 1.0]
    {}: leaving simple group [level 4 at line 183]
  {}: leaving \noalign group [level 3 at line 183]
>>>> internal vertical mode
.. {\valign}: [column 1] building row 1, inserting its template prefix ...
   {\baselineskip}: 20.0pt plus 1.0pt [was 10.0pt plus 41.0pt]
   {\global}
   {\parfillskip}: 0.0pt [no change]
   {\global}
   {\global}: [ignoring redundant prefix]
   {\leftskip}: 4.0pt [was 0.0pt]
   {\rightskip}: -1.0pt [was 0.0pt]
   {\global}

```

```
{\hsize}: 13.0pt [was 0.0pt]
{\setbox} ...
```

```
Calling \1#1->\hbox to#1pt{}
```

```
#1: 2
```

```
{\hbox}
```

```
>>>>> restricted horizontal mode
```

```
... {\setbox}: \box2 = \hbox to 2.0pt ...
```

```
{\}: entering \hbox group [level 3 at line 184]
```

```
{\}: leaving \hbox group [level 3 at line 184]
```

```
... {\setbox}: \box2 = hbox : [id=120] (0.0 + 0.0) x 2.0, stretched using 0.0 [empty] [was void]
```

```
Returning from \1, resuming reading from file "trip.tex"
```

```
>>>>> internal vertical mode
```

```
{\}: [ignored in internal vertical mode]
```

```
{\noindent}: [starting new paragraph]
```

```
>>>>> horizontal mode
```

```
{\copy}: appending a copy of \box2 = hbox : [id=121] (0.0 + 0.0) x 2.0, stretched using 0.0 [empty]
```

```
{\hskip}: 2.0pt plus 5.0pt minus 1.0pt [appending to horizontal list]
```

```
{\copy}: appending a copy of \box2 = hbox : [id=122] (0.0 + 0.0) x 2.0, stretched using 0.0 [empty]
```

```
{\hskip}: 5.0pt minus 2.0pt [appending to horizontal list]
```

```
{\lower} ...
```

```
Calling \1#1->\hbox to#1pt{}
```

```
#1: 1
```

```
{\hbox}
```

```
>>>>>> restricted horizontal mode
```

```
{\}: entering \hbox group [level 3 at line 184]
```

```
{\}: leaving \hbox group [level 3 at line 184]
```

```
... {\lower}: appending hbox : [id=123] (0.0 + 0.0) x 1.0, stretched using 0.0 [empty] shifted by 2.0pt
```

```
Returning from \1, resuming reading from file "trip.tex"
```

```
>>>>> horizontal mode
```

```
{\hskip}: 3.0pt [appending to horizontal list]
```

```
{\copy}: appending a copy of \box2 = hbox : [id=124] (0.0 + 0.0) x 2.0, stretched using 0.0 [empty]
```

```
{\hskip}: 2.0pt plus 6.0pt [appending to horizontal list]
```

```
{\box} ...
```

```
{\cr}: column 1 of row 1 is ending; no template suffix
```

```
... {\box}: appending \box2 = hbox : [id=120] (0.0 + 0.0) x 2.0, stretched using 0.0 [empty] [voiding register]
```

```
Typesetting paragraph #6 at source line 184:
```

```
[] [] [] [] []
```

```
Relevant parameters:
```

```
\vsize=16383.99998, \hsize=13.0, \leftskip=4.0, \rightskip=-1.0, \vfuzz=0.0, \hfuzz=0.0
```

```
\pretolerance=0, \tolerance=10000, \emergencystretch=0.0 [no third pass]
```

```
\looseness=0 [normal], \hbadness=0
```

```
\linepenalty=1, \interlinepenalty=-125
```

```
\clubpenalty=125, \brokenpenalty=37, \hyphenpenalty=88, \exhyphenpenalty=89
```

```
\uchyph=0 [no uppercase word hyphenation]
```

```
\doublehyphendemerits=1000, \finalhyphendemerits=100000, \adjdemerits=782
```

```
\parshape=normal, \hangindent=0.0, \hangafter=1 [hanging indentation, if any, begins on line 2]
```

```
Finding line-breaks: [@=active @@=passive b=badness p=penalty d=demerits t=total demerits]
```

```
@firstpass
```

```
@secondpass
```

```
[]
```

```
@ via @@ b=10000 p=0 d=100000782
```

```
@@1: line 1.0 t=100000782 -> @@0
```

```
[]
```

```
@ via @@ b=51 p=0 d=2704
```

```
@ via @@1 b=10000 p=0 d=100000000
```

```

@@2: line 1.1 t=2704 -> @@0
[]
@ via @@0 b=30 p=0 d=961
@ via @@1 b=10000 p=0 d=100000000
@ via @@2 b=10000 p=0 d=100000000
@@3: line 1.3 t=961 -> @@0
[]
@ via @@2 b=10000 p=0 d=100000000
@ via @@3 b=10000 p=0 d=100000782
@@4: line 2.0 t=100001743 -> @@3
[]
@\par via @@2 b=0 p=-10000 d=1
@\par via @@3 b=30 p=-10000 d=1743
@\par via @@4 b=10000 p=-10000 d=100000000
@@5: line 2.1- t=2704 -> @@3
@@6: line 2.2- t=2705 -> @@2

```

```

Warning : Found a tight horizontal box [id=125] [badness=30] in paragraph at line 184.
Line 184 : \cr % set that paragraph with a=782, l=1 (demerits 2704 vs 2705)

```

```

[] [] []
Tight hbox : [id=125] (0.0 + 2.0) x 13.0, shrunk using -0.66667, contains 7 items
glue : 4.0 [from \leftskip]
hbox : [id=121] (0.0 + 0.0) x 2.0, stretched using 0.0 [empty]
etc. : 5 unshown items ... [\showboxbreadth=2]

```

```

Warning : Found a loose horizontal box [id=126] [badness=30] in paragraph at line 184.
Line 184 : \cr % set that paragraph with a=782, l=1 (demerits 2704 vs 2705)

```

```

[] []
Loose hbox : [id=126] (0.0 + 0.0) x 13.0, stretched using 0.66667, contains 7 items
glue : 4.0 [from \leftskip]
hbox : [id=124] (0.0 + 0.0) x 2.0, stretched using 0.0 [empty]
etc. : 5 unshown items ... [\showboxbreadth=2]

```

```

>>>> internal vertical mode
{row entry}: leaving hidden alignment item group [level 2 at line 181]
restoring [register] \box2 to void
[parameter] \rightskip to 0.0pt
[parameter] \baselineskip to 10.0pt plus 41.0pt
{row entry}: entering hidden alignment item group [level 2 at line 184]
.. {\valign}: ending column 1 ...
.. {\valign}: [column 2] building row 1, inserting its template prefix ...
{\baselineskip}: 20.0pt plus 1.0pt [was 10.0pt plus 41.0pt]
{\global}
{\parfillskip}: 0.0pt [no change]
{\global}
{\global}: [ignoring redundant prefix]
{\leftskip}: 4.0pt [no change]
{\rightskip}: -1.0pt [was 0.0pt]
{\global}
{\hsize}: 13.0pt [no change]
{\setbox} ...

```

```

Calling \1#1->\hbox to#1pt{}
#1: 2

```

```
{\hbox}
```

```

>>>>> restricted horizontal mode
... {\setbox}: \box2 = \hbox to 2.0pt ...

```

```

    {}: entering \hbox group [level 3 at line 185]
    {}: leaving \hbox group [level 3 at line 185]
... {\setbox}: \box2 = hbox : [id=129] (0.0 + 0.0) x 2.0, stretched using 0.0 [empty] [was void]
    Returning from \1, resuming reading from file "trip.tex"
>>>> internal vertical mode
    {}: [ignored in internal vertical mode]
    {\noindent}: [starting new paragraph]
>>>>> horizontal mode
    {\copy}: appending a copy of \box2 = hbox : [id=130] (0.0 + 0.0) x 2.0, stretched using 0.0 [empty]
    {\hskip}: 2.0pt plus 5.0pt minus 1.0pt [appending to horizontal list]
    {\copy}: appending a copy of \box2 = hbox : [id=131] (0.0 + 0.0) x 2.0, stretched using 0.0 [empty]
    {\hskip}: 5.0pt minus 2.0pt [appending to horizontal list]
    {\lower} ...

    Calling \1#1->\hbox to#1pt{}
    #1: 1
    {\hbox}
>>>>>> restricted horizontal mode
    {}: entering \hbox group [level 3 at line 185]
    {}: leaving \hbox group [level 3 at line 185]
... {\lower}: appending hbox : [id=132] (0.0 + 0.0) x 1.0, stretched using 0.0 [empty] shifted by 2.0pt
    Returning from \1, resuming reading from file "trip.tex"
>>>>>> horizontal mode
    {\hskip}: 3.0pt [appending to horizontal list]
    {\copy}: appending a copy of \box2 = hbox : [id=133] (0.0 + 0.0) x 2.0, stretched using 0.0 [empty]
    {\hskip}: 2.0pt plus 6.0pt [appending to horizontal list]
    {\box}: appending \box2 = hbox : [id=129] (0.0 + 0.0) x 2.0, stretched using 0.0 [empty] [voiding register]
    {\adjdemerits}: 784 [was 782]
    {\cr}: column 2 of row 1 is ending; no template suffix

```

Typesetting paragraph #7 at source line 185:

```
[ ] [ ] [ ] [ ] [ ]
```

Relevant parameters:

```

\size=16383.99998, \hsize=13.0, \leftskip=4.0, \rightskip=-1.0, \vfuzz=0.0, \hfuzz=0.0
\pretolerance=0, \tolerance=10000, \emergencystretch=0.0 [no third pass]
\looseness=0 [normal], \hbadness=0
\linepenalty=1, \interlinepenalty=-125
\clubpenalty=125, \brokenpenalty=37, \hyphenpenalty=88, \exhyphenpenalty=89
\uchyph=0 [no uppercase word hyphenation]
\doublehyphendemerits=1000, \finalhyphendemerits=100000, \adjdemerits=784
\parshape=normal, \hangindent=0.0, \hangafter=1 [hanging indentation, if any, begins on line 2]

```

Finding line-breaks: [@=active @@=passive b=badness p=penalty d=demerits t=total demerits]

@firstpass

@secondpass

```
[ ]
```

@ via @@ b=10000 p=0 d=100000784

@@1: line 1.0 t=100000784 -> @@

```
[ ]
```

@ via @@ b=51 p=0 d=2704

@ via @1 b=10000 p=0 d=100000000

@@2: line 1.1 t=2704 -> @@

```
[ ]
```

@ via @@ b=30 p=0 d=961

@ via @1 b=10000 p=0 d=100000000

@ via @2 b=10000 p=0 d=100000000

@@3: line 1.3 t=961 -> @@

```
[ ]
```

@ via @2 b=10000 p=0 d=100000000

```
@ via @3 b=10000 p=0 d=100000784
@@4: line 2.0 t=100001745 -> @3
[]
@\par via @2 b=0 p=-10000 d=1
@\par via @3 b=30 p=-10000 d=1745
@\par via @4 b=10000 p=-10000 d=100000000
@5: line 2.1- t=2706 -> @3
@6: line 2.2- t=2705 -> @2
```

```
Warning : Found a loose horizontal box [id=134] [badness=51] in paragraph at line 185.
Line 185 : \adjdemerits=784 \cr % increase a, so the second alternative is better
      ^^^^
```

```
[] []
Loose hbox : [id=134] (0.0 + 0.0) x 13.0, stretched using 0.8, contains 5 items
  glue : 4.0 [from \leftskip]
  hbox : [id=130] (0.0 + 0.0) x 2.0, stretched using 0.0 [empty]
  etc. : 3 unshown items ... [\showboxbreadth=2]
```

```
>>>> internal vertical mode
  {row entry}: leaving hidden alignment item group [level 2 at line 184]
    restoring [parameter] \adjdemerits to 782
    [register] \box2 to void
    [parameter] \rightskip to 0.0pt
    [parameter] \baselineskip to 10.0pt plus 41.0pt
  {row entry}: entering hidden alignment item group [level 2 at line 185]
.. {\valign}: ending column 2 ...
.. {\valign}: [column 3] building row 1, inserting its template prefix ...
  {\baselineskip}: 20.0pt plus 1.0pt [was 10.0pt plus 41.0pt]
  {\global}
  {\parfillskip}: 0.0pt [no change]
  {\global}
  {\global}: [ignoring redundant prefix]
  {\leftskip}: 4.0pt [no change]
  {\rightskip}: -1.0pt [was 0.0pt]
  {\global}
  {\hsize}: 13.0pt [no change]
  {\setbox} ...
```

```
  Calling \1#1->\hbox to#1pt{}
  #1: 2
```

```
  {\hbox}
```

```
>>>>> restricted horizontal mode
  ... {\setbox}: \box2 = \hbox to 2.0pt ...
    {}: entering \hbox group [level 3 at line 186]
    {}: leaving \hbox group [level 3 at line 186]
  ... {\setbox}: \box2 = hbox : [id=138] (0.0 + 0.0) x 2.0, stretched using 0.0 [empty] [was void]
    Returning from \1, resuming reading from file "trip.tex"
```

```
>>>> internal vertical mode
  { } : [ignored in internal vertical mode]
  {\noindent}: [starting new paragraph]
```

```
>>>>> horizontal mode
  {\copy}: appending a copy of \box2 = hbox : [id=139] (0.0 + 0.0) x 2.0, stretched using 0.0 [empty]
  {\hskip}: 2.0pt plus 5.0pt minus 1.0pt [appending to horizontal list]
  {\copy}: appending a copy of \box2 = hbox : [id=140] (0.0 + 0.0) x 2.0, stretched using 0.0 [empty]
  {\hskip}: 5.0pt minus 2.0pt [appending to horizontal list]
  {\lower} ...
```

```
  Calling \1#1->\hbox to#1pt{}
  #1: 1
```

```

{\hbox}
>>>>> restricted horizontal mode
      { }: entering \hbox group [level 3 at line 186]
      { }: leaving \hbox group [level 3 at line 186]
... {\lower}: appending hbox : [id=141] (0.0 + 0.0) × 1.0, stretched using 0.0 [empty] shifted by 2.0pt
      Returning from \1, resuming reading from file "trip.tex"
>>>>> horizontal mode

      "trip.tex"[Line 186]

      {\hskip}: 3.0pt [appending to horizontal list]
      {\copy}: appending a copy of \box2 = hbox : [id=142] (0.0 + 0.0) × 2.0, stretched using 0.0 [empty]
      {\hskip}: 2.0pt plus 6.0pt [appending to horizontal list]
      {\box}: appending \box2 = hbox : [id=138] (0.0 + 0.0) × 2.0, stretched using 0.0 [empty] [voiding register]
      {\linepenalty}: 2 [was 1]
      {\hbadness} ...
      {\cr}: column 3 of row 1 is ending; no template suffix
... {\hbadness}: 51 [was 0]

```

Typesetting paragraph #8 at source line 186:

```
[ ] [ ] [ ] [ ] [ ]
```

Relevant parameters:

```

\vsizel=16383.99998, \hsizel=13.0, \leftskip=4.0, \rightskip=-1.0, \vfuzz=0.0, \hfuzz=0.0
\pretolerance=0, \tolerance=10000, \emergencystretch=0.0 [no third pass]
\looseness=0 [normal], \hbadness=51
\linepenalty=2, \interlinepenalty=-125
\clubpenalty=125, \brokenpenalty=37, \hyphenpenalty=88, \exhyphenpenalty=89
\uchyph=0 [no uppercase word hyphenation]
\doublehyphendemerits=1000, \finalhyphendemerits=100000, \adjdemerits=782
\parshape=normal, \hangindent=0.0, \hangafter=1 [hanging indentation, if any, begins on line 2]

```

Finding line-breaks: [a=active @=passive b=badness p=penalty d=demerits t=total demerits]

@firstpass

@secondpass

[]

@ via @@0 b=10000 p=0 d=100000782

@@1: line 1.0 t=100000782 -> @@0

[]

@ via @@0 b=51 p=0 d=2809

@ via @@1 b=10000 p=0 d=100000000

@@2: line 1.1 t=2809 -> @@0

[]

@ via @@0 b=30 p=0 d=1024

@ via @@1 b=10000 p=0 d=100000000

@ via @@2 b=10000 p=0 d=100000000

@@3: line 1.3 t=1024 -> @@0

[]

@ via @@2 b=10000 p=0 d=100000000

@ via @@3 b=10000 p=0 d=100000782

@@4: line 2.0 t=100001806 -> @@3

[]

@\par via @@2 b=0 p=-10000 d=4

@\par via @@3 b=30 p=-10000 d=1806

@\par via @@4 b=10000 p=-10000 d=100000000

@@5: line 2.1- t=2830 -> @@3

@@6: line 2.2- t=2813 -> @@2

>>>>> internal vertical mode

```
{row entry}: leaving hidden alignment item group [level 2 at line 185]
```

```

restoring [parameter] \hbadness to 0
[parameter] \linepenalty to 1
[register] \box2 to void
[parameter] \rightskip to 0.0pt
[parameter] \baselineskip to 10.0pt plus 41.0pt
{row entry}: entering hidden alignment item group [level 2 at line 186]
.. {\valign}: ending column 3 ...
>>> restricted horizontal mode
{\noalign}
{{}: entering \noalign group [level 3 at line 187]
{ }: appending font's inter-word glue [4.0 plus 2.0 minus 1.0]
{\spacefactor}: 1
{}}: leaving \noalign group [level 3 at line 187]
{row entry}: leaving hidden alignment item group [level 2 at line 186]
{}}: leaving \valign group [level 1 at line 172]
.. {\valign}: [done] appending 3 columns of aligned material
>> horizontal mode
{\message} ...
{\the} ...
{\spacefactor}: 1
... {\the}: value converted to text
.. {\message}: [to "trip.log" and terminal]

1

{ }: appending font's inter-word glue [4.0 plus 2.0 minus 1.0] [and magnified by (\spacefactor=1)/1000]
{{}: entering simple group [level 1 at line 188]
{\hspace}: 1000.0pt [was 13.0pt]
{\par}: [ending paragraph]

```

Typesetting paragraph #9 at source line 186:

```

[] | [][]
Relevant parameters:
\vsiz=16383.99998, \hsiz=1000.0, \leftskip=4.0, \rightskip=0.0, \vfuzz=0.0, \hfuzz=0.0
\pretolerance=0, \tolerance=10000, \emergencystretch=0.0 [no third pass]
\looseness=0 [normal], \hbadness=0
\linepenalty=1, \interlinepenalty=-125
\clubpenalty=125, \brokenpenalty=37, \hyphenpenalty=88, \exhyphenpenalty=89
\uchyph=0 [no uppercase word hyphenation]
\doublehyphendemerits=1000, \finalhyphendemerits=100000, \adjdemerits=782
\parshape=normal, \hangindent=0.0, \hangafter=1 [hanging indentation, if any, begins on line 2]

```

Finding line-breaks: [@=active @@=passive b=badness p=penalty d=demerits t=total demerits]

```

@firstpass
@secondpass
[]
@ via @@ b=10000 p=0 d=100000782
@@1: line 1.0 t=100000782 -> @@
|
@ via @@ b=10000 p=0 d=100000782
@ via @@1 b=10000 p=0 d=100000000
@@2: line 1.0 t=100000782 -> @@
[]
@ via @@ b=10000 p=0 d=100000782
@ via @@1 b=10000 p=0 d=100000000
@ via @@2 b=10000 p=0 d=100000000
@@3: line 1.0 t=100000782 -> @@

@\par via @@ b=10000 p=-10000 d=100000782

```

```
@\par via @@1 b=10000 p=-10000 d=100000000
@\par via @@2 b=10000 p=-10000 d=100000000
@\par via @@3 b=10000 p=-10000 d=100000000
@@4: line 1.0- t=100000782 -> @@0
```

```
Warning : Found an underfull horizontal box [id=149] [badness=infinite] in paragraph at lines 172--188.
Line 188 : {\hsize1000pt\par\parindent1pt\indent}\leftskip3pt\def\?{\vrule width-2pt
```

```
[ ] | [ ] [ ] [ ]
Underfull hbox : [id=149] (22.0 + 0.0) × 1000.0, stretched using 237.5, contains 12 items
  glue : 4.0 [from \leftskip]
  hbox : [id=119] (0.0 + 0.0) × 0.0 [rigid] [empty]
  etc. : 10 unshown items ... [\showboxbreadth=2]
```

```
%% goal height=16383.99998, max depth=2.0
```

```
> vertical mode
  {\parindent}: 1.0pt [was 0.0pt]
  {\indent}: [starting new paragraph]
```

```
% t=22.0 plus 1.0fil g=16383.99998 b=0 p=0 c=0# [# = best break so far]
```

```
>> horizontal mode
  {}: leaving simple group [level 1 at line 188]
  restoring [parameter] \parindent to 0.0pt
  [parameter] \hsize to 13.0pt
  {\leftskip}: 3.0pt [was 4.0pt]
  {\def}: \?->\vrule width-2pt \hbox spread2pt{}
  {\noindent}: [ignored]
  {\indent}: [inserting \parindent space]
  {\hbox}: spread 2.0pt ...
```

```
>>> restricted horizontal mode
  {}: entering \hbox group [level 1 at line 189]
  {\hskip}: 0.0pt plus -1.00374pt [appending to horizontal list]
  {}: leaving \hbox group [level 1 at line 189]
```

```
Warning : Found an underfull horizontal box [id=152] [badness=infinite] found at line 189.
Line 189 : \hbox spread2pt{}}\noindent\indent\hbox spread2pt{\hskip0pt plus-1bp}%
^
```

```
Underfull hbox : [id=152] (0.0 + 0.0) × 2.0, stretched using -1.99255, contains 1 item
  glue : 0.0 plus -1.00374 [\hskip]
```

```
.. {\hbox}: appending hbox : [id=152] (0.0 + 0.0) × 2.0, stretched using -1.99255 [1 item]
```

```
>> horizontal mode
  {\discretionary} ...
  {}: entering first \discretionary group [level 1 at line 190]
```

```
>>> restricted horizontal mode
  Calling \?->\vrule width-2pt \hbox spread2pt{}
  {\vrule}: appending vertical rule : (ht+dp)=(***) wd=-2.0 [invisible]
  {\hbox}: spread 2.0pt ...
  {}: entering \hbox group [level 2 at line 190]
  {}: leaving \hbox group [level 2 at line 190]
  ... {\hbox}: appending hbox : [id=153] (0.0 + 0.0) × 2.0, stretched using 0.0 [empty]
  Returning from \?, resuming reading from file "trip.tex"
  {AAAB}: [4 letters]
```

```
>> horizontal mode
  {}: leaving first \discretionary group [level 1 at line 190]
```



```

{{}: entering second \discretionary group [level 1 at line 190]
>>> restricted horizontal mode
  Calling \?->\vrule width-2pt \hbox spread2pt{}
  {\vrule}: appending vertical rule : (ht+dp)=(***) wd=-2.0 [invisible]
  {\hbox}: spread 2.0pt ...
    {{}: entering \hbox group [level 2 at line 190]
    {}}: leaving \hbox group [level 2 at line 190]
  ... {\hbox}: appending hbox : [id=154] (0.0 + 0.0) x 2.0, stretched using 0.0 [empty]
  Returning from \?, resuming reading from file "trip.tex"
  {B-}: [2 letters or characters]
>> horizontal mode
  {{}: leaving second \discretionary group [level 1 at line 190]
  {{}: entering third \discretionary group [level 1 at line 190]

>>> restricted horizontal mode
  Calling \?->\vrule width-2pt \hbox spread2pt{}
  {\vrule}: appending vertical rule : (ht+dp)=(***) wd=-2.0 [invisible]
  {\hbox}: spread 2.0pt ...
    {{}: entering \hbox group [level 2 at line 190]
    {}}: leaving \hbox group [level 2 at line 190]
  ... {\hbox}: appending hbox : [id=155] (0.0 + 0.0) x 2.0, stretched using 0.0 [empty]
  Returning from \?, resuming reading from file "trip.tex"
  {/A}: [2 letters or characters]
  {\kern}: 2.0pt
>> horizontal mode
  {{}: leaving third \discretionary group [level 1 at line 190]
  ... {\discretionary}: [appending 3 groups of discretionary break material]
  {\unkern}: [can't delete trailing kern item---a previous \discretionary break requires its presence]
  {\showthe} ...
  {\lastkern}: 2.0pt
.. {\showthe}:

Line 191 | \showthe \lastkern
2.0pt

  {\vbox} ...
>>> internal vertical mode
  {{}: entering \vbox group [level 1 at line 191]
  {\hrule}: appending horizontal rule : (ht+dp)=(0.4+0.0) wd=6.0
  {}}: leaving \vbox group [level 1 at line 191]
.. {\vbox}: appending vbox : [id=156] (0.4 + 0.0) x 6.0 [rigid] [1 item]
>> horizontal mode
  { } : appending font's inter-word glue [4.0 plus 2.0 minus 1.0]
  {\par}: [ending paragraph]

Typesetting paragraph #10 at source line 191:
[] [] [] [] \rip AAAB [] B- []
Relevant parameters:
\vsiz=16383.99998, \hsiz=13.0, \leftskip=3.0, \rightskip=0.0, \vfuzz=0.0, \hfuzz=0.0
\pretolerance=0, \tolerance=10000, \emergencystretch=0.0 [no third pass]
\looseness=0 [normal], \hbadness=0
\linepenalty=1, \interlinepenalty=-125
\clubpenalty=125, \brokenpenalty=37, \hyphenpenalty=88, \exhyphenpenalty=89
\uchyph=0 [no uppercase word hyphenation]
\doubledhyphenemerits=1000, \finalhyphenemerits=100000, \adjdemerits=782
\parshape=normal, \hangindent=0.0, \hangafter=1 [hanging indentation, if any, begins on line 2]

Finding line-breaks: [@=active @@=passive b=badness p=penalty d=demerits t=total demerits]

```

```

@firstpass
[ ] [ ] [ ] [ ] \rip AAAB [ ] B-
@\discretionary via @@0 b=0 p=88 d=7745
@@1: line 1.2- t=7745 -> @@0
[ ]
@\par via @@1 b=0 p=-10000 d=100001
@@2: line 2.2- t=107746 -> @@1
% t=32.0 plus 83.0 plus 1.0fil minus 8.0          g=16383.99998 b=0 p=162 c=162

> vertical mode
  {\penalty}: -22222 [always] [appending to vertical list]

% t=42.0 plus 124.0 plus 1.0fil minus 8.0          g=16383.99998 b=0 p=-22222 [always] c=-22222# [# = best break so far]

  Pushing \output->{\tracingcommands 0\showthe \outputpenalty \showboxbreadth 9999 \showboxdepth 999
    9 \offset 1sp {\setbox 254=\box 255\shipout \ifvbox 2\ifhbox 254 \error \fi
    54\copy 25\fi 4} \ifvoid 254\relax \else \error \fi }

>> internal vertical mode
  {}: entering \output group [level 1 at line 192]
  {\tracingcommands}: 0 [=off] [was 2]

Line 192 | \showthe \outputpenalty
-22222

Shipping out a completed page [-2.0.0.0.11]:
vbox : [id=160] (16383.99998 + 0.0) x 1000.0, stretched using 16342.0fil, contains 8 items
  glue : 0.0 plus 1.0fil [from \topskip]
hbox : [id=161] (22.0 + 0.0) x 1000.0, stretched using 237.5, contains 12 items
  glue : 4.0 [from \leftskip]
hbox : [id=162] (0.0 + 0.0) x 0.0 [rigid] [empty]
  glue : -1.0 [from \xspaceskip]
rule : (ht+dp)=(22.0+0.0) wd=0.0 [invisible]
  glue : 4.0 plus 2.0 minus 1.0 [interword space]
vbox : [id=163] (22.0 + 0.0) x 13.0 [rigid], contains 3 items
  glue : 0.0 plus 40.0 [from \tabskip]
vbox : [id=164] (22.0 + 0.0) x 13.0, stretched using 2.0, contains 4 items
  hbox : [id=165] (0.0 + 2.0) x 13.0, shrunk using -0.66667, contains 7 items
    glue : 4.0 [from \leftskip]
    hbox : [id=166] (0.0 + 0.0) x 2.0, stretched using 0.0 [empty]
    glue : 2.0 plus 5.0 minus 1.0 [\hskip]
    hbox : [id=167] (0.0 + 0.0) x 2.0, stretched using 0.0 [empty]
    glue : 5.0 minus 2.0 [\hskip]
    hbox : [id=168] (0.0 + 0.0) x 1.0, shifted right by 2.0, stretched using 0.0 [empty]
    glue : -1.0 [from \rightskip]
  cost : \penalty 125
  glue : 18.0 plus 1.0 [\baselineskip (adjusted)]
hbox : [id=169] (0.0 + 0.0) x 13.0, stretched using 0.66667, contains 7 items
  glue : 4.0 [from \leftskip]
  hbox : [id=170] (0.0 + 0.0) x 2.0, stretched using 0.0 [empty]
  glue : 2.0 plus 6.0 [\hskip]
  hbox : [id=171] (0.0 + 0.0) x 2.0, stretched using 0.0 [empty]
  cost : \penalty 10000 [never]
  glue : 0.0 [from \parfillskip]
  glue : -1.0 [from \rightskip]
  glue : 0.0 plus 40.0 [from \tabskip]
vbox : [id=172] (22.0 + 0.0) x 13.0 [rigid], contains 3 items
  glue : 0.0 plus 40.0 [from \tabskip]
vbox : [id=173] (22.0 + 0.0) x 13.0 [rigid], contains 4 items
  hbox : [id=174] (0.0 + 0.0) x 13.0, stretched using 0.8, contains 5 items

```

```

glue : 4.0 [from \leftskip]
hbox : [id=175] (0.0 + 0.0) x 2.0, stretched using 0.0 [empty]
glue : 2.0 plus 5.0 minus 1.0 [\hskip]
hbox : [id=176] (0.0 + 0.0) x 2.0, stretched using 0.0 [empty]
glue : -1.0 [from \rightskip]
cost : \penalty 125
glue : 20.0 plus 1.0 [\baselineskip (adjusted)]
hbox : [id=177] (0.0 + 2.0) x 13.0 [rigid], contains 9 items
glue : 4.0 [from \leftskip]
hbox : [id=178] (0.0 + 0.0) x 1.0, shifted right by 2.0, stretched using 0.0 [empty]
glue : 3.0 [\hskip]
hbox : [id=179] (0.0 + 0.0) x 2.0, stretched using 0.0 [empty]
glue : 2.0 plus 6.0 [\hskip]
hbox : [id=180] (0.0 + 0.0) x 2.0, stretched using 0.0 [empty]
cost : \penalty 10000 [never]
glue : 0.0 [from \parfillskip]
glue : -1.0 [from \rightskip]
glue : 0.0 plus 40.0 [from \tabskip]
vbox : [id=181] (22.0 + 0.0) x 13.0 [rigid], contains 3 items
glue : 0.0 plus 40.0 [from \tabskip]
vbox : [id=182] (22.0 + 0.0) x 13.0 [rigid], contains 4 items
hbox : [id=183] (0.0 + 0.0) x 13.0, stretched using 0.8, contains 5 items
glue : 4.0 [from \leftskip]
hbox : [id=184] (0.0 + 0.0) x 2.0, stretched using 0.0 [empty]
glue : 2.0 plus 5.0 minus 1.0 [\hskip]
hbox : [id=185] (0.0 + 0.0) x 2.0, stretched using 0.0 [empty]
glue : -1.0 [from \rightskip]
cost : \penalty 125
glue : 20.0 plus 1.0 [\baselineskip (adjusted)]
hbox : [id=186] (0.0 + 2.0) x 13.0 [rigid], contains 9 items
glue : 4.0 [from \leftskip]
hbox : [id=187] (0.0 + 0.0) x 1.0, shifted right by 2.0, stretched using 0.0 [empty]
glue : 3.0 [\hskip]
hbox : [id=188] (0.0 + 0.0) x 2.0, stretched using 0.0 [empty]
glue : 2.0 plus 6.0 [\hskip]
hbox : [id=189] (0.0 + 0.0) x 2.0, stretched using 0.0 [empty]
cost : \penalty 10000 [never]
glue : 0.0 [from \parfillskip]
glue : -1.0 [from \rightskip]
glue : 0.0 plus 40.0 [from \tabskip]
glue : 4.0 plus 2.0 minus 1.0 [interword space]
cost : \penalty 10000 [never]
glue : 0.0 [from \parfillskip]
glue : 0.0 [from \rightskip]
glue : 0.0 plus 42.0 minus 8.0 [from \parskip]
glue : 2.0 plus 41.0 [\baselineskip (adjusted)]
hbox : [id=190] (8.0 + 2.0) x 13.0 [rigid], contains 11 items
[uses font \rip = trip.tfm [unscaled]]
glue : 3.0 [from \leftskip]
hbox : [id=191] (0.0 + 0.0) x 1.0 [rigid] [empty]
hbox : [id=192] (0.0 + 0.0) x 0.0 [rigid] [empty]
hbox : [id=193] (0.0 + 0.0) x 2.0, stretched using -1.99255, contains 1 item
glue : 0.0 plus -1.00374 [\hskip]
disc : if breaking here, leave as is
rule : (ht+dp)=(*** wd=-2.0 [invisible]
hbox : [id=194] (0.0 + 0.0) x 2.0, stretched using 0.0 [empty]
liga : \rip A <-- {AAA} [3-char] [1 char, wd=2.0pt] [ `A = "41 = 65]
kern : 2.0
text : \rip B [1 char, wd=3.0pt] [ `B = "42 = 66]

```

```

glue : 0.0 [from \rightskip]
cost : \penalty 162
glue : 7.6 plus 41.0 [\baselineskip (adjusted)]
hbox : [id=195] (0.4 + 0.0) x 13.0 [rigid], contains 8 items
[uses font \rip = trip.tfm [unscaled]]
glue : 3.0 [from \leftskip]
rule : (ht+dp)=(***) wd=-2.0 [invisible]
hbox : [id=196] (0.0 + 0.0) x 2.0, stretched using 0.0 [empty]
liga : \rip C <-- {B-} [2-char] [1 char, wd=4.0pt] [C = "43 = 67]
vbox : [id=197] (0.4 + 0.0) x 6.0 [rigid], contains 1 item
rule : (ht+dp)=(0.4+0.0) wd=6.0
cost : \penalty 10000 [never]
glue : 0.0 [from \parfillskip]
glue : 0.0 [from \rightskip]

```

No delayed output items to execute.

<<<< Page 7 done >>>>

```

{}}: leaving simple group [level 2 at line 192]
restoring [register] \box254 to void
{}}: leaving \output group [level 1 at line 192]
restoring [parameter] \hoffset to 0.0pt
[parameter] \showboxdepth to 1
[parameter] \showboxbreadth to 2
[parameter] \tracingcommands to 2

```

Returning from \output

> vertical mode

```

{\looseness}: -10 [was 0]
{\uchyph}: 1 [was 0]
{\hsizel}: 100.0pt [was 13.0pt]
{A}: [postponing letter] starting new paragraph first

```

>> horizontal mode

```

{A}: [letter]
{ } : appending font's inter-word glue [4.0 plus 2.0 minus 1.0] [and magnified by (\spacefactor=999)/1000]
{/A}: [2 letters or characters]
{\char}: building character [A = "41 = 65]
{ABBBBCACAC//}: [12 letters or characters]
{\vadjust} ...

```

>>> internal vertical mode

```

{{}: entering \vadjust group [level 1 at line 201]
{\uchyph}: 0 [was 1]
{\ } : [postponing it, starting new paragraph first]

```

>>>> horizontal mode

```

{\ } : appending font's inter-word glue [4.0 plus 2.0 minus 1.0]
{BBBBBB}: [6 letters]

```

Typesetting paragraph #11 at source line 201:

[] \rip BBBBBB

Relevant parameters:

```

\vsizel=16383.99998, \hsizel=100.0, \leftskip=3.0, \rightskip=0.0, \vfuzz=0.0, \hfuzz=0.0
\pretolerance=0, \tolerance=10000, \emergencystretch=0.0 [no third pass]
\looseness=0 [normal], \hbadness=0
\linepenalty=1, \interlinepenalty=-125
\clubpenalty=125, \brokenpenalty=37, \hyphenpenalty=88, \exhyphenpenalty=89
\uchyph=0 [no uppercase word hyphenation]
\doubledemerits=1000, \finalhyphenemerits=100000, \adjdemerits=782
\parshape=normal, \hangindent=0.0, \hangafter=1 [hanging indentation, if any, begins on line 2]

```

Finding line-breaks: [@=active @=@=passive b=badness p=penalty d=demerits t=total demerits]

```

@firstpass
@secondpass
[]
@ via @@0 b=10000 p=0 d=100000782
@@1: line 1.0 t=100000782 -> @@0
\rip BBBBBB
\par via @@0 b=10000 p=-10000 d=100000782
\par via @@1 b=10000 p=-10000 d=100000000
@@2: line 1.0- t=100000782 -> @@0

Warning : Found an underfull horizontal box [id=200] [badness=infinite] in paragraph at line 201.
Line 201 : \vadjust{\uchyph=0\ BBBBBB}% underfull box will show no hyphens
      ^

[] \rip BBBBBB
Underfull hbox : [id=200] (7.0 + 1.0) x 100.0, stretched using 41.5, contains 11 items
                [uses font \rip = trip.tfm [unscaled]]
                glue : 3.0 [from \leftskip]
                hbox : [id=199] (0.0 + 0.0) x 0.0 [rigid] [empty]
                etc. : 9 unshown items ... [\showboxbreadth=2]

>>> internal vertical mode
      {}: leaving \vadjust group [level 1 at line 201]
        restoring [parameter] \uchyph to 1
          [parameter] \looseness to -10
    ... {\vadjust}: appending grouped material to current list
>> horizontal mode
    {\vadjust} ...
>>> internal vertical mode
      {}: entering \vadjust group [level 1 at line 202]
        {\ } : [postponing it, starting new paragraph first]
>>>> horizontal mode
      {\ } : appending font's inter-word glue [4.0 plus 2.0 minus 1.0]
        {\closeout}: 1 [appending delayed output item]
        {BBBBBB}: [6 letters]

Typesetting paragraph #12 at source line 202:
[] []\rip BBBBBB
Relevant parameters:
  \vsize=16383.99998, \hsize=100.0, \leftskip=3.0, \rightskip=0.0, \vfuzz=0.0, \hfuzz=0.0
  \pretolerance=0, \tolerance=10000, \emergencystretch=0.0 [no third pass]
  \looseness=0 [normal], \hbadness=0
  \linepenalty=1, \interlinepenalty=-125
  \clubpenalty=125, \brokenpenalty=37, \hyphenpenalty=88, \exhyphenpenalty=89
  \uchyph=1 [permit uppercase word hyphenation]
  \doublehyphendemerits=1000, \finalhyphendemerits=100000, \adjdemerits=782
  \parshape=normal, \hangindent=0.0, \hangafter=1 [hanging indentation, if any, begins on line 2]

Finding line-breaks: [@=active @@=passive b=badness p=penalty d=demerits t=total demerits]
@firstpass
@secondpass
[]
@ via @@0 b=10000 p=0 d=100000782
@@1: line 1.0 t=100000782 -> @@0
[]\rip BBBBBB
\par via @@0 b=10000 p=-10000 d=100000782
\par via @@1 b=10000 p=-10000 d=100000000
@@2: line 1.0- t=100000782 -> @@0

Warning : Found an underfull horizontal box [id=203] [badness=infinite] in paragraph at line 202.

```

```

Line 202 : \vadjust{\ \closeout1BBBBBB}{\hyphenchar\trip`C}% this time we get hyphens
      ^
[] []\rip BBBBBB
Underfull hbox : [id=203] (7.0 + 1.0) x 100.0, stretched using 41.5, contains 12 items
      [uses font \rip = trip.tfm [unscaled]]
      glue : 3.0 [from \leftskip]
      hbox : [id=202] (0.0 + 0.0) x 0.0 [rigid] [empty]
      etc. : 10 unshown items ... [showboxbreadth=2]

>>> internal vertical mode
      {}: leaving \vadjust group [level 1 at line 202]
      restoring [parameter] \looseness to -10
... {\vadjust}: appending grouped material to current list
>> horizontal mode
      {}: entering simple group [level 1 at line 202]
      {\hyphenchar}: using `C for font \trip = trip.tfm [ `C = "43 = 67] [was `- = "2D = 45]
      {}: leaving simple group [level 1 at line 202]
      {\hyphenation}: re-defining exception {bbb-bbb} ...

Warning : Exception duplicates one that is already installed. Re-defining it.
Line 203 : \hyphenation{BbB-BbB}\vadjust{\ BBBBBB\kern0ptB}% different hyphens
      ^
.. {\hyphenation}: Added or changed 1 more exception [1 total for language 0]
   {\vadjust} ...
>>> internal vertical mode
      {}: entering \vadjust group [level 1 at line 203]
      {\ } : [postponing it, starting new paragraph first]
>>>> horizontal mode
      {\ } : appending font's inter-word glue [4.0 plus 2.0 minus 1.0]
      {BBBBBB}: [6 letters]
      {\kern}: 0.0pt
      {B}: [letter]

Typesetting paragraph #13 at source line 203:
[] \rip BBBBBBB
Relevant parameters:
  \vsiz=16383.99998, \hsiz=100.0, \leftskip=3.0, \rightskip=0.0, \vfuzz=0.0, \hfuzz=0.0
  \pretolerance=0, \tolerance=10000, \emergencystretch=0.0 [no third pass]
  \looseness=0 [normal], \hbadness=0
  \linepenalty=1, \interlinepenalty=-125
  \clubpenalty=125, \brokenpenalty=37, \hyphenpenalty=88, \exhyphenpenalty=89
  \uchyph=1 [permit uppercase word hyphenation]
  \doublehyphendemerits=1000, \finalhyphendemerits=10000, \adjdemerits=782
  \parshape=normal, \hangindent=0.0, \hangafter=1 [hanging indentation, if any, begins on line 2]

Finding line-breaks: [@=active @@=passive b=badness p=penalty d=demerits t=total demerits]
@firstpass
@secondpass
[]
@ via @@ b=10000 p=0 d=100000782
@@1: line 1.0 t=100000782 -> @@
\rip BBBBBBB
@\par via @@ b=10000 p=-10000 d=100000782
@\par via @1 b=10000 p=-10000 d=100000000
@@2: line 1.0- t=100000782 -> @@

Warning : Found an underfull horizontal box [id=206] [badness=infinite] in paragraph at line 203.
Line 203 : \hyphenation{BbB-BbB}\vadjust{\ BBBBBB\kern0ptB}% different hyphens
      ^

```

```

[] \rip BBBB
Underfull hbox : [id=206] (8.0 + 2.0) x 100.0, stretched using 40.0, contains 13 items
  [uses font \rip = trip.tfm [unscaled]]
  glue : 3.0 [from \leftskip]
  hbox : [id=205] (0.0 + 0.0) x 0.0 [rigid] [empty]
  etc. : 11 unshown items ... [showboxbreadth=2]

>>> internal vertical mode

"trip.tex"[Line 203]
  {}: leaving \vadjust group [level 1 at line 203]
  restoring [parameter] \looseness to -10
  ... {\vadjust}: appending grouped material to current list
>> horizontal mode
  {\hyphenchar}: using ` - for font \rip = trip.tfm [ - = "2D = 45] [was `C = "43 = 67]
  {\vadjust} ...
>>> internal vertical mode
  {}: entering \vadjust group [level 1 at line 204]
  {\def}: \B->B
  {\ } : [postponing it, starting new paragraph first]
>>>> horizontal mode
  {\ } : appending font's inter-word glue [4.0 plus 2.0 minus 1.0]
  {\pretolerance}: 10000 [was 0]
  {B}: [letter]

  Calling \B ->B
  {B}: [letter]
  Returning from \B, resuming reading from file "trip.tex"
  {BBBB}: [4 letters]

```

Typesetting paragraph #14 at source line 204:

```

[] \rip BBBB
Relevant parameters:
\vsiz=16383.99998, \hsiz=100.0, \leftskip=3.0, \rightskip=0.0, \vfuzz=0.0, \hfuzz=0.0
\pretolerance=10000, \tolerance=10000, \emergencystretch=0.0 [no third pass]
\looseness=0 [normal], \hbadness=0
\linepenalty=1, \interlinepenalty=-125
\clubpenalty=125, \brokenpenalty=37, \hyphenpenalty=88, \exhyphenpenalty=89
\uchyph=1 [permit uppercase word hyphenation]
\doublehyphendemerits=1000, \finalhyphendemerits=10000, \adjdemerits=782
\parshape=normal, \hangindent=0.0, \hangafter=1 [hanging indentation, if any, begins on line 2]

```

Finding line-breaks: [@=active @@=passive b=badness p=penalty d=demerits t=total demerits]

```

@firstpass
[]
@ via @@ b=10000 p=0 d=100000782
@@1: line 1.0 t=100000782 -> @@
\rip BBBB
@\par via @@ b=10000 p=-10000 d=100000782
@\par via @@1 b=10000 p=-10000 d=100000000
@@2: line 1.0- t=100000782 -> @@

```

Warning : Found an underfull horizontal box [id=209] [badness=infinite] in paragraph at line 204.
Line 204 : \hyphenchar\rip`-\vadjust{\def\B{B}\ \pretolerance10000 B\B BBB} % no hyphens
^

```

[] \rip BBBB
Underfull hbox : [id=209] (7.0 + 1.0) x 100.0, stretched using 41.5, contains 11 items
  [uses font \rip = trip.tfm [unscaled]]

```

```

glue : 3.0 [from \leftskip]
hbox : [id=208] (0.0 + 0.0) x 0.0 [rigid] [empty]
etc. : 9 unshown items ... [\showboxbreadth=2]

>>> internal vertical mode
    {}: leaving \vadjust group [level 1 at line 204]
    restoring [parameter] \pretolerance to 0
        [macro] \B to undefined
        [parameter] \looseness to -10
    ... {\vadjust}: appending grouped material to current list
>> horizontal mode
    {}: appending font's inter-word glue [4.0 plus 2.0 minus 1.0]
    {\par}: [ending paragraph]

Typesetting paragraph #15 at source line 204:
[]\rip A /AABBBBCACAC//[] [] [] []
Relevant parameters:
  \vsize=16383.99998, \hsize=100.0, \leftskip=3.0, \rightskip=0.0, \vfuzz=0.0, \hfuzz=0.0
  \pretolerance=0, \tolerance=10000, \emergencystretch=0.0 [no third pass]
  \looseness=-10 [10 lines shorter], \hbadness=0
  \linepenalty=1, \interlinepenalty=-125
  \clubpenalty=125, \brokenpenalty=37, \hyphenpenalty=88, \exhyphenpenalty=89
  \uchyph=1 [permit uppercase word hyphenation]
  \doublehyphendemerits=1000, \finalhyphendemerits=100000, \adjdemerits=782
  \parshape=normal, \hangindent=0.0, \hangafter=1 [hanging indentation, if any, begins on line 2]

Finding line-breaks: [@=active @@=passive b=badness p=penalty d=demerits t=total demerits]
@firstpass
@secondpass
[]\rip A
@ via @@ b=10000 p=0 d=100000782
@@1: line 1.0 t=100000782 -> @@
/AABBBBCACAC//[] [] [] []
@\par via @@ b=10000 p=-10000 d=100000782
@@2: line 1.0- t=100000782 -> @@
@\par via @1 b=10000 p=-10000 d=100000000
@@3: line 2.0- t=200000782 -> @1

Warning : Found an underfull horizontal box [id=211] [badness=infinite] in paragraph at lines 196--205.
Line 205 :
^
[]\rip A /AABBBBCACAC//
Underfull hbox : [id=211] (8.0 + 2.0) x 100.0, stretched using 33.53377, contains 18 items
    [uses font \rip = trip.tfm [unscaled]]
    glue : 3.0 [from \leftskip]
    hbox : [id=198] (0.0 + 0.0) x 0.0 [rigid] [empty]
    etc. : 16 unshown items ... [\showboxbreadth=2]

%% goal height=16383.99998, max depth=2.0

> vertical mode
  {\hbox} ...
>> restricted horizontal mode
  {}: entering adjusted \hbox group [level 1 at line 206]
  {\sfcode}: Space factor for `B set to 1234 [was 999]
  {AB}: [2 letters]
  {}: appending font's inter-word glue [4.0 plus 2.0 minus 1.0]
  {aB}: [2 letters]
  {}: appending font's inter-word glue [4.0 plus 2.0 minus 1.0] [and magnified by (\spacefactor=1234)/1000]

```



```

    {}): leaving adjusted \hbox group [level 1 at line 206]
      restoring [mapping] \sfcode of `B to 999
.. {\hbox}: appending hbox : [id=212] (8.0 + 2.0) × 20.0 [rigid] [7 items]

% t=55.0 plus 1.0fil          g=16383.99998 b=0 p=0 c=0#    [# = best break so far]

> vertical mode
  {\noindent}: [starting new paragraph]

% t=64.0 plus 41.0 plus 1.0fil      g=16383.99998 b=0 p=0 c=0#    [# = best break so far]

>> horizontal mode
  {\scriptscriptfont}: (family 3) \smalltrip [was \nullfont]
> vertical mode
  {$$: entering math display group [level 1 at line 207]
>> display math mode
  {\eqno}: entering math group [level 2 at line 207]
>>> math mode
  {\^}: [superscript]
  {\{}: entering superscript math group [level 3 at line 207]
  {\}}: leaving superscript math group [level 3 at line 207]

>ERROR< | The \scriptfont [= \nullfont] for family 3 [extensions] has fewer (12) than
Line 207 | the required 13 \fontdimen parameters. Deleting untypesettable formula.
          | $$\eqno^{\scriptfont3=\rip\fontdimen2\smalltrip=0pt
          | ^
          | {$} ...

>ERROR< | Found "\scriptfont". Expecting a second '$' to end previous math display. Inserting second $.
Line 207 | $$\eqno^{\scriptfont3=\rip\fontdimen2\smalltrip=0pt
          | ^^^^^^^^^^^
          |
>> display math mode
  ... {$}: leaving math display group [level 2 at line 207]
  restoring [parameter] \fam to -1

>ERROR< | The \scriptfont [= \nullfont] for family 3 [extensions] has fewer (12) than
Line 207 | the required 13 \fontdimen parameters. Deleting untypesettable formula.
          | $$\eqno^{\scriptfont3=\rip\fontdimen2\smalltrip=0pt
          | ^^^^^^^^^^^
          |
          | restoring [parameter] \displayindent to 0.0pt
          | [parameter] \displaywidth to 0.0pt
          | [parameter] \prelaysize to 0.0pt
          | [parameter] \fam to 0

% t=66.0 plus 83.0 plus 1.0fil minus 8.0      g=16383.99998 b=0 p=0 c=0#    [# = best break so far]
% t=85.0 plus 210.0 plus 1.0fil minus 811.0   g=16383.99998 b=0 p=0 c=0#    [# = best break so far]

{\scriptfont}:      (family 3) \rip [was \nullfont]
>> horizontal mode
  {\fontdimen}: Dimension #2 [interword space] of font \smalltrip set to 0pt [was 2pt]
  {\{}: entering simple group [level 1 at line 208]
  {\rightskip}: 0.0pt plus 104.0pt minus 100.0fil [was 0.0pt]
  {\looseness}: 5 [was 0]
  {\spaceskip}: 4.0pt plus 2.0pt minus 1.0fil [was 0.0pt]
  {A}: [letter]
  {\spacefactor}: 32767
  {\discretionary} ...
  {\{}: entering first \discretionary group [level 2 at line 210]
  {\}}: leaving first \discretionary group [level 2 at line 210]
  {\{}: entering second \discretionary group [level 2 at line 210]

```

```

>>> restricted horizontal mode
      {\kern}: 2.0pt
      {-}: [character]
>> horizontal mode
      {}: leaving second \discretionary group [level 2 at line 210]
      {}: entering third \discretionary group [level 2 at line 210]
>>> restricted horizontal mode
      {B}: [letter]
      {\kern}: 2.0pt
>> horizontal mode
      {}: leaving third \discretionary group [level 2 at line 210]
... {\discretionary}: [appending 3 groups of discretionary break material]
      { }: appending unscaled \xspaceskip glue [-1.0] [(\spacefactor=32767)/1000 is at least 2.0]
      {C}: [letter]
      {$}: entering math group [level 2 at line 210]
>>> math mode
      { }: [ignored in math mode]
      {\scriptfont}: (family 2) \trip [was \smalltrip]
      {\mathsurround}: 143.0pt [was 0.0pt]

>ERROR< | The \scriptfont [= \rip] for family 2 [symbols] has fewer (13) than
         | the required 22 \fontdimen parameters. Deleting untypesettable formula.
Line 211 | \mathsurround143pt$ C $\mathsurround40pt$\mathsurround60pt\hbox{$}$\par
         | ^
      {$}: leaving math group [level 2 at line 211]
      appending hbox, with \mathsurround=143.0pt on either side
      restoring [parameter] \mathsurround to 0.0pt
      [math font] \scriptfont2 to \smalltrip
      [parameter] \fam to 0
>> horizontal mode
      { }: appending \spaceskip glue [4.0 plus 2.0 minus 1.0fil]
      {C}: [letter]
      { }: appending \spaceskip glue [4.0 plus 2.0 minus 1.0fil]
      {$}: entering math group [level 2 at line 211]
>>> math mode
      {\mathsurround}: 40.0pt [was 0.0pt]
      {$}: leaving math group [level 2 at line 211]
      appending hbox, with \mathsurround=40.0pt on either side
      restoring [parameter] \mathsurround to 0.0pt
      [parameter] \fam to 0
>> horizontal mode
      {$}: entering math group [level 2 at line 211]
>>> math mode
      {\mathsurround}: 60.0pt [was 0.0pt]
      {\hbox} ...
>>>> restricted horizontal mode
      {}: entering \hbox group [level 3 at line 211]
      {$}: entering math group [level 4 at line 211]
      {$}: leaving math group [level 4 at line 211]
      appending hbox, with \mathsurround=60.0pt on either side
      restoring [parameter] \fam to -1
      {}: leaving \hbox group [level 3 at line 211]
... {\hbox}: appending hbox : [id=215] (0.0 + 0.0) × 120.0 [rigid] [2 items]
      {$}: leaving math group [level 2 at line 211]
      appending hbox, with \mathsurround=60.0pt on either side
      restoring [parameter] \mathsurround to 0.0pt
      [parameter] \fam to 0
>> horizontal mode
      {\par}: [ending paragraph]

```

```
>ERROR< | Paragraph contains glue with infinite shrinkage [0.0pt plus 104.0pt minus 100.0fil].
          | To avoid compressing paragraph to one line, treating this as finite shrinkage.
Line 211 | \mathsurround143pt$ C $\mathsurround40pt$\mathsurround60pt\hbox{$}$\par}
          | ^^^^
```

Typesetting paragraph #16 at source line 211:

```
\rip A- C$$ C $$$[]$
```

Relevant parameters:

```
\vsize=16383.99998, \hsize=100.0, \leftskip=3.0, \rightskip=0.0 plus 104.0 minus 100.0, \vfuzz=0.0, \hfuzz=0.0
\pretolerance=0, \tolerance=10000, \emergencystretch=0.0 [no third pass]
\looseness=5 [5 lines longer], \hbadness=0
\linepenalty=1, \interlinepenalty=-125
\clubpenalty=125, \brokenpenalty=37, \hyphenpenalty=88, \exhyphenpenalty=89
\uchyph=1 [permit uppercase word hyphenation]
\doublehyphdemerits=1000, \finalhyphdemerits=10000, \adjdemerits=782
\parshape=normal, \hangindent=0.0, \hangafter=1 [hanging indentation, if any, begins on line 2]
```

Finding line-breaks: [@=active @@=passive b=badness p=penalty d=demerits t=total demerits]

@firstpass

@secondpass

```
\rip A-
```

```
@\discretionary via @@ b=76 p=89 d=13850
```

```
@@1: line 4.1- t=13850 -> @@0
```

```
@ via @@0 b=65 p=0 d=4356
```

```
@@2: line 4.1 t=4356 -> @@0
```

```
@ via @@1 b=91 p=0 d=8464
```

```
@@3: line 5.1 t=22314 -> @@1
```

```
C$$
```

```
@\math via @@0 b=17 p=0 d=324
```

```
@@4: line 4.3 t=324 -> @@0
```

```
@\math via @@2 b=12 p=0 d=169
```

```
@\math via @@1 b=9 p=0 d=100
```

```
@@5: line 5.2 t=4525 -> @@2
```

```
@\math via @@3 b=12 p=0 d=169
```

```
@@6: line 6.2 t=22483 -> @@3
```

```
C
```

```
@ via @@4 b=71 p=0 d=5966
```

```
@@7: line 5.1 t=6290 -> @@4
```

```
@ via @@5 b=71 p=0 d=5184
```

```
@@8: line 6.1 t=9709 -> @@5
```

```
@ via @@6 b=71 p=0 d=5184
```

```
@@9: line 7.1 t=27667 -> @@6
```

```
$$$[]$
```

```
@\par via @@7 b=57 p=-10000 d=4146
```

```
@@10: line 6.3- t=10436 -> @@7
```

```
@\par via @@8 b=57 p=-10000 d=4146
```

```
@@11: line 7.3- t=13855 -> @@8
```

```
@\par via @@9 b=57 p=-10000 d=4146
```

```
@@12: line 8.3- t=31813 -> @@9
```

Warning : Found a loose horizontal box [id=217] [badness=76] in paragraph at lines 207--211.

```
Line 211 : \mathsurround143pt$ C $\mathsurround40pt$\mathsurround60pt\hbox{$}$\par}
          | ^^^^
```

```
\rip A
```

Loose hbox : [id=217] (7.0 + 1.0) × 100.0, stretched using 0.91347, contains 4 items

[uses font \rip = trip.tfm [unscaled]]

glue : 3.0

[from \leftskip]

text : \rip A

[1 char, wd=2.0pt] [A = "41 = 65]

```

etc. : 2 unshown items ... [\showboxbreadth=2]

Warning : Found a loose horizontal box [id=218] [badness=91] in paragraph at lines 207--211.
Line 211 : \mathsurround143pt$ C $\mathsurround40pt$\mathsurround60pt\hbox{C}$\par}
          ^^^^
\rip -
Loose hbox : [id=218] (0.0 + 0.0) x 100.0, stretched using 0.97116, contains 5 items
            [uses font \rip = trip.tfm [unscaled]]
glue : 3.0 [from \leftskip]
kern : 2.0 [explicit]
etc. : 3 unshown items ... [\showboxbreadth=2]

Warning : Found a tight horizontal box [id=219] [badness=12] in paragraph at lines 207--211.
Line 211 : \mathsurround143pt$ C $\mathsurround40pt$\mathsurround60pt\hbox{C}$\par}
          ^^^^
\rip C$$
Tight hbox : [id=219] (0.0 + 0.0) x 100.0, shrunk using -0.5, contains 5 items
            [uses font \rip = trip.tfm [unscaled]]
glue : 3.0 [from \leftskip]
text : \rip C [1 char, wd=4.0pt] [\C = "43 = 67]
etc. : 3 unshown items ... [\showboxbreadth=2]

Warning : Found a loose horizontal box [id=220] [badness=71] in paragraph at lines 207--211.
Line 211 : \mathsurround143pt$ C $\mathsurround40pt$\mathsurround60pt\hbox{C}$\par}
          ^^^^
\rip C
Loose hbox : [id=220] (0.0 + 0.0) x 100.0, stretched using 0.89423, contains 3 items
            [uses font \rip = trip.tfm [unscaled]]
glue : 3.0 [from \leftskip]
text : \rip C [1 char, wd=4.0pt] [\C = "43 = 67]
glue : 0.0 plus 104.0 minus 100.0 [from \rightskip]

Warning : Found a tight horizontal box [id=221] [badness=57] in paragraph at lines 207--211.
Line 211 : \mathsurround143pt$ C $\mathsurround40pt$\mathsurround60pt\hbox{C}$\par}
          ^^^^
[]$
Tight hbox : [id=221] (0.0 + 0.0) x 100.0, shrunk using -0.83, contains 6 items
glue : 3.0 [from \leftskip]
hbox : [id=215] (0.0 + 0.0) x 120.0 [rigid], contains 2 items
etc. : 4 unshown items ... [\showboxbreadth=2]

% t=95.0 plus 251.0 plus 1.0fil minus 811.0 g=16383.99998 b=0 p=37 c=37
% t=105.0 plus 292.0 plus 1.0fil minus 811.0 g=16383.99998 b=0 p=-125 c=-125# [# = best break so far]
% t=115.0 plus 333.0 plus 1.0fil minus 811.0 g=16383.99998 b=0 p=-125 c=-125# [# = best break so far]
% t=125.0 plus 374.0 plus 1.0fil minus 811.0 g=16383.99998 b=0 p=0 c=0

> vertical mode
  {}: leaving simple group [level 1 at line 208]
    restoring [parameter] \spaceskip to 0.0pt
      [parameter] \looseness to 0
        [parameter] \rightskip to 0.0pt
  { } : ignored in vertical mode
  {\uccode}: uppercase equivalent of `m is `m [was `M]
  {\font} ...
    {\input}: tripos.tex ...
  .. {\font}: loading \mumble = mumble.tfm [unscaled] ...

Context | "trip.tex"[Line 212] > "trijos.tex"[0]

```

```

>ERROR< | Font metric file "mumble.tfm" not found. Using \nullfont instead.

    {\input}
    {\par}
    {\uppercase}: Pushing token list [length 4] onto input
      {0}: [postponing character] starting new paragraph first

% t=135.0 plus 415.0 plus 1.0fil minus 811.0      g=16383.99998 b=0 p=0 c=0

>> horizontal mode
    {0}: [character]

Warning : Ignoring missing character [ `0 = "30 = 48]. It's not available in font \rip [from trip.tfm].
Line 2 : \uppercase {0{\outputpenalty }}
          ^
          {}: entering simple group [level 1 at line 2]
            {\outputpenalty} ...

>ERROR< | Found '|. Expecting an integer after "\outputpenalty". Using 0.
Line 2 | \uppercase {0{\outputpenalty }}
          ^
          ... {\outputpenalty}: 0 [was -22222]
            {}: leaving simple group [level 1 at line 2]
              restoring [parameter] \outputpenalty to -22222
            { }: appending font's inter-word glue [4.0 plus 2.0 minus 1.0]
            {}: [character]

Warning : Ignoring missing character [ ` = "5B = 91]. It's not available in font \rip [from trip.tfm].
Line 3 : [\uppercase {mmmmmmmmmm}]
          ^
          {\uppercase}: Pushing character list [length 10] onto input
            {AAAAAAAAA}: [11 letters or characters]

Warning : Ignoring missing character [ ` = "5B = 91]. It's not available in font \rip [from trip.tfm].
Line 3 : [\uppercase {mmmmmmmmmm}]
          ^
          { }: appending font's inter-word glue [4.0 plus 2.0 minus 1.0]
    {\input}(cont'd): end of tripos.tex [3 lines read]
    {\par}: [ending paragraph]

Typesetting paragraph #17 at source line 3:
[] \rip AAAAAAAAAA
Relevant parameters:
\size=16383.99998, \hsize=100.0, \leftskip=3.0, \rightskip=0.0, \vfuzz=0.0, \hfuzz=0.0
\pretolerance=0, \tolerance=10000, \emergencystretch=0.0 [no third pass]
\looseness=0 [normal], \hbadness=0
\linepenalty=1, \interlinepenalty=-125
\clubpenalty=125, \brokenpenalty=37, \hyphenpenalty=88, \exhyphenpenalty=89
\uchyph=1 [permit uppercase word hyphenation]
\doubledemerits=1000, \finalhyphenemerits=100000, \adjdemerits=782
\parshape=normal, \hangindent=0.0, \hangafter=1 [hanging indentation, if any, begins on line 2]

Finding line-breaks: [@=active @@=passive b=badness p=penalty d=demerits t=total demerits]
@firstpass
@secondpass
[]
@ via @@ b=10000 p=0 d=100000782
@@1: line 1.0 t=100000782 -> @@
\rip AAAAAAAAAA

```

```
@\par via @@0 b=10000 p=-10000 d=100000782
@\par via @@1 b=10000 p=-10000 d=100000000
@@2: line 1.0- t=100000782 -> @@0
```

```
Context : "trip.tex"[Line 213]
```

```
Warning : Found an underfull horizontal box [id=223] [badness=infinite] in paragraph at lines 2--213.
Line 213 : \par\penalty-33333 % end hyphenation, math is next
      ^^^^
```

```
[ ] \rip AAAAAAAAAA
```

```
Underfull hbox : [id=223] (7.0 + 1.0) x 100.0, stretched using 45.5, contains 7 items
                [uses font \rip = trip.tfm [unscaled]]
                glue : 3.0 [from \leftskip]
                hbox : [id=222] (0.0 + 0.0) x 0.0 [rigid] [empty]
                etc. : 5 unshown items ... [showboxbreadth=2]
```

```
> vertical mode
```

```
{\penalty}: -33333 [always] [appending to vertical list]
```

```
% t=145.0 plus 498.0 plus 1.0fil minus 819.0 g=16383.99998 b=0 p=-33333 [always] c=-33333# [# = best break so far]
```

```
Pushing \output->{\tracingcommands 0\showthe \outputpenalty \showboxbreadth 9999 \showboxdepth 999
9 \hoffset 1sp {\setbox 254=\box 255\shipout \ifvbox 2\ifhbox 254 \error \fi
54\copy 25\fi 4} \ifvoid 254\relax \else \error \fi }
```

```
>> internal vertical mode
```

```
{{}: entering \output group [level 1 at line 213]
{\tracingcommands}: 0 [=off] [was 2]
```

```
Line 213 | \showthe \outputpenalty
-33333
```

```
Shipping out a completed page [-2.0.0.0.11]:
```

```
vbox : [id=225] (16383.99998 + 1.0) x 100.0, stretched using 16239.0fil, contains 33 items
glue : 12.0 plus 1.0fil [from \topskip]
hbox : [id=226] (8.0 + 2.0) x 100.0, stretched using 33.53377, contains 18 items
[uses font \rip = trip.tfm [unscaled]]
glue : 3.0 [from \leftskip]
hbox : [id=227] (0.0 + 0.0) x 0.0 [rigid] [empty]
text : \rip A [1 char, wd=2.0pt] [ `A = "41 = 65]
glue : 4.0 plus 1.99799 minus 1.00099 [interword space]
text : \rip / [1 char, wd=1.0pt] [ `/ = "2F = 47]
kern : 1.0
liga : \rip A <-- {AA} [2-char] [1 char, wd=2.0pt] [ `A = "41 = 65]
kern : 2.0
liga : \rip A <-- {BB} [2-char] [1 char, wd=2.0pt] [ `A = "41 = 65]
kern : 2.0
liga : \rip A <-- {BB} [2-char] [1 char, wd=2.0pt] [ `A = "41 = 65]
liga : \rip ^^82 <-- {CA} [2-char] [1 char, wd=4.0pt] [ `^ = "82 = 130]
liga : \rip ^^82 <-- {CA} [2-char] [1 char, wd=4.0pt] [ `^ = "82 = 130]
liga : \rip B <-- {C/} [2-char] [1 char, wd=3.0pt] [ `B = "42 = 66]
text : \rip / [1 char, wd=1.0pt] [ `/ = "2F = 47]
cost : \penalty 10000 [never]
glue : 0.0 [from \parfillskip]
glue : 0.0 [from \rightskip]
hbox : [id=228] (7.0 + 1.0) x 100.0, stretched using 41.5, contains 11 items
[uses font \rip = trip.tfm [unscaled]]
glue : 3.0 [from \leftskip]
hbox : [id=229] (0.0 + 0.0) x 0.0 [rigid] [empty]
glue : 4.0 plus 2.0 minus 1.0 [interword space]
```

```

liga : \rip A <-- {BB} [2-char]          [1 char, wd=2.0pt] [ `A = "41 = 65]
kern : 2.0
liga : \rip A <-- {BB} [2-char]          [1 char, wd=2.0pt] [ `A = "41 = 65]
kern : 2.0
liga : \rip A <-- {BB} [2-char]          [1 char, wd=2.0pt] [ `A = "41 = 65]
cost : \penalty 10000 [never]
glue : 0.0                               [from \parfillskip]
glue : 0.0                               [from \rightskip]
hbox : [id=230] (7.0 + 1.0) × 100.0, stretched using 41.5, contains 12 items
[uses font \rip = trip.tfm [unscaled]]
glue : 3.0                               [from \leftskip]
hbox : [id=231] (0.0 + 0.0) × 0.0 [rigid] [empty]
glue : 4.0 plus 2.0 minus 1.0           [interword space]
file : \closeout 1
liga : \rip A <-- {BB} [2-char]          [1 char, wd=2.0pt] [ `A = "41 = 65]
kern : 2.0
liga : \rip A <-- {BB} [2-char]          [1 char, wd=2.0pt] [ `A = "41 = 65]
kern : 2.0
liga : \rip A <-- {BB} [2-char]          [1 char, wd=2.0pt] [ `A = "41 = 65]
cost : \penalty 10000 [never]
glue : 0.0                               [from \parfillskip]
glue : 0.0                               [from \rightskip]
hbox : [id=232] (8.0 + 2.0) × 100.0, stretched using 40.0, contains 13 items
[uses font \rip = trip.tfm [unscaled]]
glue : 3.0                               [from \leftskip]
hbox : [id=233] (0.0 + 0.0) × 0.0 [rigid] [empty]
glue : 4.0 plus 2.0 minus 1.0           [interword space]
liga : \rip A <-- {BB} [2-char]          [1 char, wd=2.0pt] [ `A = "41 = 65]
kern : 2.0
liga : \rip A <-- {BB} [2-char]          [1 char, wd=2.0pt] [ `A = "41 = 65]
kern : 2.0
liga : \rip A <-- {BB} [2-char]          [1 char, wd=2.0pt] [ `A = "41 = 65]
kern : 0.0 [explicit]
text : \rip B                            [1 char, wd=3.0pt] [ `B = "42 = 66]
cost : \penalty 10000 [never]
glue : 0.0                               [from \parfillskip]
glue : 0.0                               [from \rightskip]
hbox : [id=234] (7.0 + 1.0) × 100.0, stretched using 41.5, contains 11 items
[uses font \rip = trip.tfm [unscaled]]
glue : 3.0                               [from \leftskip]
hbox : [id=235] (0.0 + 0.0) × 0.0 [rigid] [empty]
glue : 4.0 plus 2.0 minus 1.0           [interword space]
liga : \rip A <-- {BB} [2-char]          [1 char, wd=2.0pt] [ `A = "41 = 65]
kern : 2.0
liga : \rip A <-- {BB} [2-char]          [1 char, wd=2.0pt] [ `A = "41 = 65]
kern : 2.0
liga : \rip A <-- {BB} [2-char]          [1 char, wd=2.0pt] [ `A = "41 = 65]
cost : \penalty 10000 [never]
glue : 0.0                               [from \parfillskip]
glue : 0.0                               [from \rightskip]
glue : 0.0 plus 41.0                    [\baselineskip (adjusted)]
hbox : [id=236] (8.0 + 2.0) × 20.0 [rigid], contains 7 items
[uses font \rip = trip.tfm [unscaled]]
text : \rip A                            [1 char, wd=2.0pt] [ `A = "41 = 65]
kern : 2.0
text : \rip B                            [1 char, wd=3.0pt] [ `B = "42 = 66]
glue : 4.0 plus 2.0 minus 1.0           [interword space]
text : \rip aB                           [2 chars, total wd=5.0pt] [ `a = "61 = 97] [ `B = "42 = 66]
glue : 4.0 plus 2.46799 minus 0.81036   [interword space]

```

```

glue : 0.0 plus 42.0 minus 8.0          [from \parskip]
cost : \penalty 0
glue : 1.0 plus 45.0 minus 803.0        [from \abovedisplayshortskip]
glue : 8.0 plus 41.0                    [\baselineskip (adjusted)]
hbox : [id=237] (0.0 + 0.0) × 0.0 [rigid, shifted by 50.0] [empty]
cost : \penalty 10000 [never]
glue : 10.0 plus 41.0                   [\baselineskip (adjusted)]
hbox : [id=238] (0.0 + 0.0) × 0.0 [rigid, shifted by 100.0] [empty]
cost : \penalty 0
glue : 3.0 plus 41.0                    [\baselineskip (adjusted)]
hbox : [id=239] (7.0 + 1.0) × 100.0, stretched using 0.91347, contains 4 items
      [uses font \rip = trip.tfm [unscaled]]
      glue : 3.0                        [from \leftskip]
      text : \rip A                      [1 char, wd=2.0pt] [ `A = "41 = 65]
      disc : if breaking here, leave as is
      glue : 0.0 plus 104.0 minus 100.0 [from \rightskip]
cost : \penalty 37
glue : 9.0 plus 41.0                    [\baselineskip (adjusted)]
hbox : [id=240] (0.0 + 0.0) × 100.0, stretched using 0.97116, contains 5 items
      [uses font \rip = trip.tfm [unscaled]]
      glue : 3.0                        [from \leftskip]
      kern : 2.0 [explicit]
      kern : -1.00002
      text : \rip -                      [1 char, wd=-5.0pt] [ ` - = "2D = 45]
      glue : 0.0 plus 104.0 minus 100.0 [from \rightskip]
cost : \penalty -125
glue : 10.0 plus 41.0                   [\baselineskip (adjusted)]
hbox : [id=241] (0.0 + 0.0) × 100.0, shrunk using -0.5, contains 5 items
      [uses font \rip = trip.tfm [unscaled]]
      glue : 3.0                        [from \leftskip]
      text : \rip C                      [1 char, wd=4.0pt] [ `C = "43 = 67]
      $mth : inserting \mathsurround=143.0pt before starting math formula
      mth$ : inserting \mathsurround=0.0pt after ending math formula
      glue : 0.0 plus 104.0 minus 100.0 [from \rightskip]
cost : \penalty -125
glue : 10.0 plus 41.0                   [\baselineskip (adjusted)]
hbox : [id=242] (0.0 + 0.0) × 100.0, stretched using 0.89423, contains 3 items
      [uses font \rip = trip.tfm [unscaled]]
      glue : 3.0                        [from \leftskip]
      text : \rip C                      [1 char, wd=4.0pt] [ `C = "43 = 67]
      glue : 0.0 plus 104.0 minus 100.0 [from \rightskip]
glue : 10.0 plus 41.0                   [\baselineskip (adjusted)]
hbox : [id=243] (0.0 + 0.0) × 100.0, shrunk using -0.83, contains 6 items
      glue : 3.0                        [from \leftskip]
      hbox : [id=244] (0.0 + 0.0) × 120.0 [rigid], contains 2 items
      $mth : inserting \mathsurround=60.0pt before starting math formula
      mth$ : inserting \mathsurround=60.0pt after ending math formula
      mth$ : inserting \mathsurround=60.0pt after ending math formula
      cost : \penalty 10000 [never]
      glue : 0.0                        [from \parfillskip]
      glue : 0.0 plus 104.0 minus 100.0 [from \rightskip]
glue : 0.0 plus 42.0 minus 8.0          [from \parskip]
glue : 3.0 plus 41.0                    [\baselineskip (adjusted)]
hbox : [id=245] (7.0 + 1.0) × 100.0, stretched using 45.5, contains 7 items
      [uses font \rip = trip.tfm [unscaled]]
      glue : 3.0                        [from \leftskip]
      hbox : [id=246] (0.0 + 0.0) × 0.0 [rigid] [empty]
      glue : 4.0 plus 2.0 minus 1.0      [interword space]
      liga : \rip A <-- {AAAAAAAAA} [10-char] [1 char, wd=2.0pt] [ `A = "41 = 65]

```



```
cost : \penalty 10000 [never]
glue : 0.0                [from \parfillskip]
glue : 0.0                [from \rightskip]
```

Executing and removing delayed output items (but retaining \specials) ...

... finished executing delayed output items.

<<<< Page 8 done >>>>

```
{}}: leaving simple group [level 2 at line 213]
      restoring [register] \box254 to void
{}}: leaving \output group [level 1 at line 213]
      restoring [parameter] \hoffset to 0.0pt
              [parameter] \showboxdepth to 1
              [parameter] \showboxbreadth to 2
              [parameter] \tracingcommands to 2
```

Returning from \output

> vertical mode

```
{{}: entering simple group [level 1 at line 214]
{\catcode}: `? <- 13    [active]          [was 12 = character]
{\font} ...
```

>ERROR< | Found 0.0pt. Font size after "at" must be positive and less than 2048.0. Using 10pt instead.

Line 214 | {\catcode`=13 \font?xyzy at0pt\font ? xyzy scaled1?} % nonexistent
^{^^^}

... {\font}: loading ? = xyzy.tfm at 10.0pt ...

>ERROR< | Font metric file "xyzy.tfm" not found. Using \nullfont instead.

Line 214 | {\catcode`=13 \font?xyzy at0pt\font ? xyzy scaled1?} % nonexistent
^{^^^^^^}

{\font}: loading ? = xyzy.tfm magnified by 1/1000 [0.00099] ...

>ERROR< | Font metric file "xyzy.tfm" not found. Using \nullfont instead.

Line 214 | {\catcode`=13 \font?xyzy at0pt\font ? xyzy scaled1?} % nonexistent
[^]

```
{?}: current font now \nullfont [was \rip]
{}}: leaving simple group [level 1 at line 214]
      restoring [font] current font to \rip
              [font] ? to \undefined
              [mapping] \catcode of `? to 12 [character]
{ } : [ignored in vertical mode]
{\font}: \enorm = trip.tfm at 2047.99998pt [creating rescaled copy of already loaded font metrics] [was undefined]
{\font} ...
```

>ERROR< | Found -10.0pt. Font size after "at" must be positive and less than 2048.0. Using 10pt instead.

Line 216 | \font\ip trip at -10pt % through the looking glass
^{^^^^^^}

.. {\font}: \ip = \rip [already loaded from trip.tfm] [now using new name]

{\showthe} ...

>ERROR< | Found math shift character \$. Expecting an internal quantity after \the or \showthe. Using 0 instead.

Line 217 | \showthe\$
[^]

.. {\showthe}:

Line 217 | \showthe \$

0

```
{ } : [ignored in vertical mode]
{\showthe} ...
  {\font}: \ip
.. {\showthe}:
```

```
Line 218 | \showthe \font
\ip
```

```
{\message} ...
  {\fontname}: Pushing {trip} [4 chars] onto input
.. {\message}: [to "trip.log" and terminal]
```

trip

"trip.tex"[Line 219]

```
{ } : [ignored in vertical mode]
{\rip}: current font now trip.tfm [unscaled] [no change]
{\textfont}: (family 1) current font [was ?]
{\scriptfont}: (family 1) \smalltrip [was ?]
{\scriptscriptfont}: (family 1) \bigtr^@p [was ?]
{\def}: \symbolpar#1 #2 #3 ->\global \fontdimen #1\smalltrip = #3 pt
{ } : [ignored in vertical mode]
{{}: entering simple group [level 1 at line 223]
  {\tracingmacros}: -1 [=off] [was 4]
  {\global}
  {\fontdimen}: Dimension #8 [num1] of font \smalltrip set to 9.1pt [was 0.25pt]
  {\global}
  {\fontdimen}: Dimension #9 [num2] of font \smalltrip set to 9.2pt [was 0.5pt]
  {\global}
  {\fontdimen}: Dimension #10 [num3] of font \smalltrip set to 9.3pt [was 1pt]
  {\global}
  {\fontdimen}: Dimension #11 [denom1] of font \smalltrip set to 3.1pt [was 1.5pt]
  {\global}
  {\fontdimen}: Dimension #12 [denom2] of font \smalltrip set to 3.2pt [was 2pt]
  {\global}
  {\fontdimen}: Dimension #13 [sup1] of font \smalltrip set to 8.1pt [was 2.5pt]
  {\global}
  {\fontdimen}: Dimension #14 [sup2] of font \smalltrip set to 8.2pt [was 0pt]
  {\global}
  {\fontdimen}: Dimension #15 [sup3] of font \smalltrip set to 8.3pt [was 0pt]
  {\global}
  {\fontdimen}: Dimension #16 [sub1] of font \smalltrip set to 4.1pt [was 0pt]
  {\global}
  {\fontdimen}: Dimension #17 [sub2] of font \smalltrip set to 4.2pt [was 0pt]
  {\global}
  {\fontdimen}: Dimension #18 [sup drop] of font \smalltrip set to 0.3pt [was 0pt]
  {\global}
  {\fontdimen}: Dimension #19 [sub drop] of font \smalltrip set to 0.4pt [was 0pt]
  {\global}
  {\fontdimen}: Dimension #20 [delim1] of font \smalltrip set to 10pt [was 0pt]
  {\global}
  {\fontdimen}: Dimension #21 [delim2] of font \smalltrip set to 20pt [was 0pt]
}}: leaving simple group [level 1 at line 223]
  restoring [parameter] \tracingmacros to 4
{ } : [ignored in vertical mode]
```

```

{\mathcode}: `+ <- "212F [class 2 (binary op); \fam 1 \char "2F = 47 = /] [was "2B [class 0 (ordinary); \fam 0 \char "2B = 43 = +]]
{\mathcode}: `= <- "322D [class 3 (relation); \fam 2 \char "2D = 45 = -] [was "3D [class 0 (ordinary); \fam 0 \char "3D = 61 = =]]
{\delcode}: `[ <- "161361 = "0161361 = class (ordinary), small \fam 1 a, large \fam 3 a [a = "61 = 97] [was -1 (none)]
{\catcode}: `( <- 13 [active] [was 12 = character]
{\catcode}: `( <- 13 [active] [no change]
{\mathcode}: `y <- "7320 [class 7 (inner); \fam 3 \char "20 = 32 = ] [was "7179 [class 7 (inner); \fam 1 \char "79 = 121 = y]]
{\mathcode}: `z <- "8000 [active; class 0 (ordinary); \fam 0 \char "00 = 0 = ^^@] [was "717A [class 7 (inner); \fam 1 \char "7A = 122 = z]]
{\def}: (->\delimiter "4162362
{ }: entering simple group [level 1 at line 243]
  {\catcode}: `z <- 13 [active] [was 11 = letter]
  {\global}
  {\let}: z = ( = macro:->\delimiter "4162362
{ }: leaving simple group [level 1 at line 243]
  restoring [mapping] \catcode of `z to 11 [letter]
{ }: [ignored in vertical mode]
{\parshape}: paragraph's first 10 lines are sized (in pts) at ...

  Calling \a ->1pt 11.0pt2pt 12.0pt3pt 13.0pt4pt 14.0pt5pt 15.0pt6pt 16.0pt7pt 17.0pt8pt 18.0
  pt9pt 19.0pt10pt 20.0pt
  Returning from \a, resuming reading from file "trip.tex"
.. {\parshape}: 1: indent=1.0, width=11.0
  2: indent=2.0, width=12.0
  3: indent=3.0, width=13.0
  4: indent=4.0, width=14.0
  5: indent=5.0, width=15.0
  6: indent=6.0, width=16.0
  7: indent=7.0, width=17.0
  8: indent=8.0, width=18.0
  9: indent=9.0, width=19.0
  10: indent=10.0, width=20.0
{\chardef}: \x=200 [È = "C8 = 200]
{\hangindent} ...
  {\parshape}: 10 [number of lines]
.. {\hangindent}: -10.0pt [was 0.0pt]
  {\hangafter}: -12 [was 1]
  {\begingroup}: entering semi simple group [level 1 at line 246]
    {\looseness}: 2 [was 0]
    {\rightskip}: 0.0pt plus 10.0fil minus 0.00002pt [was 0.0pt]
    {\-}: [postponing it, starting new paragraph first]
>> horizontal mode
  {\-}: using current font's \hyphenchar, same as \discretionary{-}{-} [ - = "2D = 45]
  {-}: [character]
  {\-}: using current font's \hyphenchar, same as \discretionary{-}{-} [ - = "2D = 45]
  {-}: [character]
  {\char}: building character [^^@ = "00 = 0 = <null>]
  {^^@-A}: [3 letters or characters]
  {\-}: using current font's \hyphenchar, same as \discretionary{-}{-} [ - = "2D = 45]
  { }: appending font's inter-word glue [4.0 plus 2.0 minus 1.0] [and magnified by (\spacefactor=999)/1000]

Typesetting paragraph #18 at source line 249:
[]\ip ----^^@-A-
Relevant parameters:
\vsiz=16383.99998, \hsiz=100.0, \leftskip=3.0, \rightskip=0.0 plus 10.0fil minus 0.00002, \vfuzz=0.0, \hfuzz=0.0
\pretolerance=0, \tolerance=10000, \emergencystretch=0.0 [no third pass]
\looseness=2 [2 lines longer], \hbadness=0
\linepenalty=1, \interlinepenalty=-125
\clubpenalty=125, \brokenpenalty=37, \hyphenpenalty=88, \exhyphenpenalty=89
\uchyph=1 [permit uppercase word hyphenation]
\doublehyphendemerits=1000, \finalhyphendemerits=10000, \adjdemerits=782

```

```

\parshape=10 lines
#1: left margin=1.0 width=11.0
#2: left margin=2.0 width=12.0
#3: left margin=3.0 width=13.0
#4: left margin=4.0 width=14.0
#5: left margin=5.0 width=15.0
#6: left margin=6.0 width=16.0
#7: left margin=7.0 width=17.0
#8: left margin=8.0 width=18.0
#9: left margin=9.0 width=19.0
#10: left margin=10.0 width=20.0

Finding line-breaks: [@=active @@=passive b=badness p=penalty d=demerits t=total demerits]
@firstpass
[]\lip -
@\discretionary via @@0 b=0 p=88 d=7745
@@1: line 1.2- t=7745 -> @@0
-
@\discretionary via @@0 b=0 p=89 d=7922
@@2: line 1.2- t=7922 -> @@0
@\discretionary via @@1 b=0 p=89 d=8922
@@3: line 2.2- t=16667 -> @@1
-
@\discretionary via @@0 b=0 p=88 d=7745
@@4: line 1.2- t=7745 -> @@0
@\discretionary via @@2 b=0 p=88 d=8745
@\discretionary via @@1 b=0 p=88 d=8745
@@5: line 2.2- t=16490 -> @@1
@\discretionary via @@3 b=0 p=88 d=8745
@@6: line 3.2- t=25412 -> @@3
-^^@-
@\discretionary via @@0 b=0 p=89 d=7922
@@7: line 1.2- t=7922 -> @@0
@\discretionary via @@4 b=0 p=89 d=8922
@\discretionary via @@2 b=0 p=89 d=8922
@\discretionary via @@1 b=0 p=89 d=8922
@@8: line 2.2- t=16667 -> @@1
@\discretionary via @@5 b=0 p=89 d=8922
@\discretionary via @@3 b=0 p=89 d=8922
@@9: line 3.2- t=25412 -> @@5
@\discretionary via @@6 b=0 p=89 d=8922
@@10: line 4.2- t=34334 -> @@6
A-
@\discretionary via @@0 b=0 p=88 d=7745
@@11: line 1.2- t=7745 -> @@0
@\discretionary via @@7 b=0 p=88 d=8745
@\discretionary via @@4 b=0 p=88 d=8745
@\discretionary via @@2 b=0 p=88 d=8745
@\discretionary via @@1 b=0 p=88 d=8745
@@12: line 2.2- t=16490 -> @@1
@\discretionary via @@8 b=0 p=88 d=8745
@\discretionary via @@5 b=0 p=88 d=8745
@\discretionary via @@3 b=0 p=88 d=8745
@@13: line 3.2- t=25235 -> @@5
@\discretionary via @@9 b=0 p=88 d=8745
@\discretionary via @@6 b=0 p=88 d=8745
@@14: line 4.2- t=34157 -> @@6
@\discretionary via @@10 b=0 p=88 d=8745
@@15: line 5.2- t=43079 -> @@10

```

```

@\\par via @@0 b=0 p=-10000 d=1
@@16: line 1.2- t=1 -> @@0
@\\par via @@11 b=0 p=-10000 d=100001
@\\par via @@7 b=0 p=-10000 d=100001
@\\par via @@4 b=0 p=-10000 d=100001
@\\par via @@2 b=0 p=-10000 d=100001
@\\par via @@1 b=0 p=-10000 d=100001
@@17: line 2.2- t=107746 -> @@1
@\\par via @@12 b=0 p=-10000 d=100001
@\\par via @@8 b=0 p=-10000 d=100001
@\\par via @@5 b=0 p=-10000 d=100001
@\\par via @@3 b=0 p=-10000 d=100001
@@18: line 3.2- t=116491 -> @@5
@\\par via @@13 b=0 p=-10000 d=100001
@\\par via @@9 b=0 p=-10000 d=100001
@\\par via @@6 b=0 p=-10000 d=100001
@@19: line 4.2- t=125236 -> @@13
@\\par via @@14 b=0 p=-10000 d=100001
@\\par via @@10 b=0 p=-10000 d=100001
@@20: line 5.2- t=134158 -> @@14
@\\par via @@15 b=0 p=-10000 d=100001
@@21: line 6.2- t=143080 -> @@15

> vertical mode
  {$$}: entering math display group [level 2 at line 250]

%% goal height=16383.99998, max depth=2.0

% t=20.0 plus 1.0fil          g=16383.99998 b=0 p=37 c=37# [# = best break so far]
% t=30.0 plus 41.0 plus 1.0fil g=16383.99998 b=0 p=-213 c=-213# [# = best break so far]

>> display math mode
  {\\number} ...
  {\\the} ...
  {\\delcode} ...

>ERROR< | Found "\\relax". A ` can only be followed by a character, or a 1-character command name. Using \\^^@ instead.
Line 250 | $$\\number\\the\\delcode`\\relax\\over{{{}}}`\\pagestretch=-1\\pagetotal\\showlists
          ^^^^^^
  ... {\\delcode}: `^^@ maps to -1 [none]
  ... {\\the}: Pushing {-1} [2 chars] onto input
  ... {\\number}: using value -1, pushing {-1} [2 chars] onto input
    {-}: character maps (via \\mathcode) to itself
    {1}: character maps (via \\mathcode) to "7031 [class 7 (inner);    \\fam 0 \\char "31 = 49 = 1]
  {\\relax}
  {\\over}: numerator saved, thickness = default, starting denominator
  {}: entering math group [level 3 at line 250]
>>> math mode
  {}: entering math group [level 4 at line 250]
  {}: entering math group [level 5 at line 250]
  {}: leaving math group [level 5 at line 250]
  {}: leaving math group [level 4 at line 250]
  {}: leaving math group [level 3 at line 250]

>ERROR< | Found an extra '}', or there is a missing '$'. Ignoring brace character.
Line 250 | $$\\number\\the\\delcode`\\relax\\over{{{}}}`\\pagestretch=-1\\pagetotal\\showlists
          ^
>> display math mode

```



```

{#}: end of prefix material for column 1's template; collecting suffix
{&}: end of column 1's suffix and template, collecting prefix of column 2's template
{#}: end of prefix material for column 2's template; collecting suffix
{\crrc}: end of column 2's suffix and template
... {\halign}: preamble has declared templates for 2 columns ...
      \tabskip [= 0.0 plus 40.0]
      column 1:      [no extra material to insert]
      \tabskip
      column 2:      [no extra material to insert]
      \tabskip
      {column entry}: entering hidden alignment item group [level 4 at line 251]
      {\crrc}: [ignoring]
>>>> restricted horizontal mode
... {\halign}: [row 1] building column 1 [no prefix] ...
      {\cr}: row 1 of column 1 is ending; no template suffix
      {column entry}: leaving hidden alignment item group [level 4 at line 251]
      {column entry}: entering hidden alignment item group [level 4 at line 251]
... {\halign}: ending row 1 ...
>>> internal vertical mode
      {column entry}: leaving hidden alignment item group [level 4 at line 251]
      {}: leaving \halign group [level 3 at line 251]
... {\halign}: [done] appending 1 row of aligned material

Warning : Found a loose horizontal box [id=255] [badness=1] in alignment at line 251.
Line 251 : \begingroup\halign to\the\displaywidth{#&#\crrc\crrc\cr} % makes lines 4--6
          ^

[] []
Loose hbox : [id=255] (0.0 + 0.0) x 15.0, stretched using 0.1875, contains 5 items
  glue : 0.0 plus 40.0 [from \tabskip]
  unbx : [id=253] (0.0 + 0.0) x 0.0 [rigid] [empty]
  etc. : 3 unshown items ... [\showboxbreadth=2]

>> display math mode
      {\global}
      {\count} ...
      {\displayindent}: 5.0pt [parameter]
... {\count}: \count6 = 327680 [was 0]
      {\predisplaypenalty}: 101 [was 0]
      {\global}
      {\postdisplaypenalty} ...
      {\preplaysize}: 17.99998pt [parameter]
... {\postdisplaypenalty}: -1179647 [was 0]

"trip.tex"[Line 254]
      {\global}
      {\setbox}

>ERROR< | A \setbox is not allowed after an \halign in a math display.
Line 254 | \global\postdisplaypenalty-\preplaysize* \global\setbox=
          ^^^^^^^
>ERROR< | Found '='. Expecting an integer after "\setbox". Using 0.
Line 254 | \global\postdisplaypenalty-\preplaysize* \global\setbox=
          ^
>ERROR< | Found "\eqno". Alignment must be the only material between $$'s. Missing $$ inserted.
Line 255 | \eqno % another error (actually causes two error messages and inserts $$)
          ^^^^^^
      {$$}: leaving math display group [level 2 at line 250]
            restoring [parameter] \predisplaypenalty to 0

```

```

[parameter] \displayindent to 0.0pt
[parameter] \displaywidth to 0.0pt
[parameter] \predisplaysize to 0.0pt
[parameter] \fam to 0
% t=40.0 plus -40.0 plus 1.0fil          g=16383.99998 b=0 p=101 c=101
% t=53.0 plus 1.0 plus 1.0fil          g=16383.99998 b=0 p=-1179647 [always] c=-1179647# [# = best break so far]

>> horizontal mode
  Pushing \output->{\tracingcommands 0\showthe \outputpenalty \showboxbreadth 9999 \showboxdepth 999
    9 \hoffset 1sp {\setbox 254=\box 255\shipout \ifvbox 2\ifhbox 254 \error \fi
    54\copy 25\fi 4} \ifvoid 254\relax \else \error \fi }
>>> internal vertical mode
  {}: entering \output group [level 2 at line 255]
  {\tracingcommands}: 0 [=off] [was 2]

Line 255 | \showthe \outputpenalty
-1179647

Shipping out a completed page [-2.0.0.0.11.0.327680]:
vbox : [id=257] (16383.99998 + 0.0) × 20.0, stretched using 16331.0fil, contains 12 items
  glue : 20.0 plus 1.0fil [from \topskip]
  hbox : [id=258] (0.0 + 0.0) × 11.0, shifted right by 1.0, stretched using 1.3fil, contains 5 items
    [uses font \ip = trip.tfm [unscaled]]
    glue : 3.0 [from \leftskip]
    hbox : [id=259] (0.0 + 0.0) × 0.0 [rigid] [empty]
    disc : if breaking here, leave as is
    text : \ip - [1 char, wd=-5.0pt] [^- = "2D = 45]
    glue : 0.0 plus 10.0fil minus 0.00002 [from \rightskip]
  cost : \penalty 37
  glue : 10.0 plus 41.0 [\baselineskip (adjusted)]
  hbox : [id=260] (0.0 + 0.0) × 12.0, shifted right by 2.0, stretched using 2.0fil, contains 7 items
    [uses font \ip = trip.tfm [unscaled]]
    glue : 3.0 [from \leftskip]
    kern : -1.00002
    text : \ip - [1 char, wd=-5.0pt] [^- = "2D = 45]
    disc : if breaking here, leave as is
    disc : if breaking here, leave as is
    text : \ip - [1 char, wd=-5.0pt] [^- = "2D = 45]
    glue : 0.0 plus 10.0fil minus 0.00002 [from \rightskip]
  cost : \penalty -213
  glue : 3.0 plus 41.0 [\baselineskip (adjusted)]
  hbox : [id=261] (7.0 + 1.0) × 13.0, shifted right by 3.0, stretched using 1.8fil, contains 11 items
    [uses font \ip = trip.tfm [unscaled]]
    glue : 3.0 [from \leftskip]
    kern : -1.00002
    liga : \ip - <--- {-^^@} [2-char] [1 char, wd=-5.0pt] [^- = "2D = 45]
    text : \ip - [1 char, wd=-5.0pt] [^- = "2D = 45]
    disc : if breaking here, leave as is
    kern : 1.0
    text : \ip A [1 char, wd=2.0pt] [^A = "41 = 65]
    disc : if breaking here, insert \ip - [1 item before break, 0 after]:
      text : \ip - [1 char, wd=-5.0pt] [^- = "2D = 45]
    cost : \penalty 10000 [never]
    glue : 0.0 [from \parfillskip]
    glue : 0.0 plus 10.0fil minus 0.00002 [from \rightskip]
  cost : \penalty 101
  glue : 3.0 [from \abovedisplayskip]
  glue : 9.0 plus 41.0 [\baselineskip (adjusted)]
  hbox : [id=262] (0.0 + 0.0) × 15.0, shifted right by 5.0, stretched using 0.1875, contains 3 items

```



```

glue : 0.0 plus 40.0 [from \tabskip]
hbox : [id=263] (0.0 + 0.0) x 0.0 [rigid] [empty]
glue : 0.0 plus 40.0 [from \tabskip]

```

No delayed output items to execute.

<<<< Page 9 done >>>>

```

{}}: leaving simple group [level 3 at line 255]
    restoring [register] \box254 to void
{}}: leaving \output group [level 2 at line 255]
    restoring [parameter] \hoffset to 0.0pt
    [parameter] \showboxdepth to 1
    [parameter] \showboxbreadth to 2
    [parameter] \tracingcommands to 2
    [parameter] \parshape to 10 custom lines
    [parameter] \hangafter to -12
    [parameter] \hangindent to -10.0pt
    [parameter] \looseness to 2

```

Returning from \output

```

>> horizontal mode
    {\eqno}

```

```

>ERROR< | \eqno is illegal outside of math mode. Ignoring it
Line 255 | \eqno % another error (actually causes two error messages and inserts $$)

```

```

    {\looseness}: -2 [was 2]
    {$}: entering math group [level 2 at line 257]

```

```

>>> math mode
    {\right} ...

```

```

>ERROR< | Ignoring \right and its following delimiter. There was no previous matching \left command.
Line 257 | $\right\relax\mathchardef\minus="322D % locally \minus is the same as =

```

```

    {\mathchardef}

```

```

>ERROR< | Found "\mathchardef". Expecting a \delimiter command, or a character to map via \delcode.
| Using a null delimiter [.] instead.

```

```

Line 257 | $\right\relax\mathchardef\minus="322D % locally \minus is the same as =

```

```

... {\right}: [command and delimiter ignored]
    {\mathchardef}: \minus = "322D [class 3 (relation); \fam 2 \char "2D = 45 = -]
    {\left} ...
    {.}: character maps (via \mathcode) to itself

```

```

... {\left}: entering math \left .. \right group [level 3 at line 258]
    {A}: letter maps (via \mathcode) to "7141 [class 7 (inner); \fam 1 \char "41 = 65 = A]
    {\over}: numerator saved, thickness = default, starting denominator
    {A}: letter maps (via \mathcode) to "7141 [class 7 (inner); \fam 1 \char "41 = 65 = A]
    {\abovewithdelims} ...
    {.}: character maps (via \mathcode) to itself
    {?}: character maps (via \mathcode) to itself

```

```

>ERROR< | Missing delimiter. Found '?'. There is no \delcode-defined math delimiter for this character.
| Using a null delimiter [.] instead.

```

```

Line 258 | \left.A\over A\abovewithdelims.?\right(+\mskip1A\minus=A+\penalty+1000A

```

```

>ERROR< | Missing or unknown measurement unit. Assuming "pt".
| Expecting em, ex, pt, pc, in, cm, mm, dd, cc, bp, sp, or true.

```

```

Line 258 | \left.A\over A\abovewithdelims.?\right(+\mskip1A\minus=A+\penalty+1000A

```

```

>ERROR< | Found '?'. Expecting a dimension after "\abovewithdelims". Using 0.0.
Line 258 | \left.A\over A\abovewithdelims.?\right(+\mskip1A\minus=A\penalty+1000A
          ^
... {\abovewithdelims}: left/right delims recorded, numerator saved, thickness = 0.0pt [no bar], starting denominator

>ERROR< | Ignoring \abovewithdelims. Without { and }, its precedence with respect to previous \over is ambiguous.
Line 258 | \left.A\over A\abovewithdelims.?\right(+\mskip1A\minus=A\penalty+1000A
          ^
      {?}: character maps (via \mathcode) to itself
      {\right} ...

      Calling (->\delimiter "4162362
      {\delimiter}: delimiter "4162362 = class (open), small \fam 1 b, large \fam 3 b      [ `b = "62 = 98]
... {\right}: leaving math \left .. \right group [level 3 at line 258]
      Returning from (, resuming reading from file "trip.tex"
      {+}: character maps (via \mathcode) to "212F [class 2 (binary op); \fam 1 \char "2F = 47 = /]
      {\mskip} ...

>ERROR< | Expecting "mu" measurement unit for math glue. "mu" inserted.
Line 258 | \left.A\over A\abovewithdelims.?\right(+\mskip1A\minus=A\penalty+1000A
          ^
... {\mskip}: 1.0mu appended
      {A}: letter maps (via \mathcode) to "7141 [class 7 (inner); \fam 1 \char "41 = 65 = A]
      {\minus}: math character "322D [class 3 (relation); \fam 2 \char "2D = 45 = -]
      {=: character maps (via \mathcode) to "322D [class 3 (relation); \fam 2 \char "2D = 45 = -]
      {A}: letter maps (via \mathcode) to "7141 [class 7 (inner); \fam 1 \char "41 = 65 = A]
      {+}: character maps (via \mathcode) to "212F [class 2 (binary op); \fam 1 \char "2F = 47 = /]
      {\penalty}: 1000 [appending to horizontal list]
      {A}: letter maps (via \mathcode) to "7141 [class 7 (inner); \fam 1 \char "41 = 65 = A]
      { }: [ignored in math mode]
      {\relpenalty}: -2222 [was 0]
      {\binoppenalty}: -3333 [was 0]
      {\mathsurround}: 1.1pt [was 0.0pt]
      {$}: leaving math group [level 2 at line 261]
      appending hbox, with \mathsurround=1.1pt on either side

>ERROR< | The character `? = [ `? = "3F = 63] somewhere within the now-ending math formula can't be typeset.
| Its font, \scriptfont 0, hasn't been declared. Ignoring character.
Line 261 | \mathsurround.11em$\x % this formula goes on line 7
          ^
      restoring [parameter] \mathsurround to 0.0pt
      [parameter] \binoppenalty to 0
      [parameter] \relpenalty to 0
      [math character] \minus to "232D
      [parameter] \fam to 0

>> horizontal mode
      {\x}: character ^c8 [ `È = "C8 = 200] (treated as type "other")
      {^c8}: [character]

Warning : Ignoring missing character [ `È = "C8 = 200]. It's not available in font \ip [from trip.tfm].
Line 261 : \mathsurround.11em$\x % this formula goes on line 7
          ^^^

Typesetting paragraph #19 at source line 261:
$[] \ip / A \smalltrip -- \ip A / A$
Relevant parameters:
\vsiz=16383.99998, \hsiz=100.0, \leftskip=3.0, \rightskip=0.0 plus 10.0fil minus 0.00002, \vfuzz=0.0, \hfuzz=0.0
\pretolerance=0, \tolerance=10000, \emergencystretch=0.0 [no third pass]
\looseness=-2 [2 lines shorter], \hbadness=0
\linepenalty=1, \interlinepenalty=-125

```

```

\clubpenalty=125, \brokenpenalty=37, \hyphenpenalty=88, \exhyphenpenalty=89
\uchyph=1 [permit uppercase word hyphenation]
\doublehyphendemerits=1000, \finalhyphendemerits=100000, \adjdemerits=782
\parshape=10 lines
#1: left margin=1.0 width=11.0
#2: left margin=2.0 width=12.0
#3: left margin=3.0 width=13.0
#4: left margin=4.0 width=14.0
#5: left margin=5.0 width=15.0
#6: left margin=6.0 width=16.0
#7: left margin=7.0 width=17.0
#8: left margin=8.0 width=18.0
#9: left margin=9.0 width=19.0
#10: left margin=10.0 width=20.0

Finding line-breaks: [@=active @@=passive b=badness p=penalty d=demerits t=total demerits]
@firstpass
${} \ip /
@\penalty via @@0 b=0 p=-3333 d=-11108888
@@1: line 7.2 t=-11108888 -> @@0
  A \smalltrip --
@\penalty via @@0 b=0 p=-2222 d=-4937283
@@2: line 7.2 t=-4937283 -> @@0
@\penalty via @@1 b=0 p=-2222 d=-4937283
@@3: line 8.2 t=-16046171 -> @@1
  \ip A /
@\penalty via @@0 b=0 p=1000 d=1000001
@@4: line 7.2 t=1000001 -> @@0
@\penalty via @@2 b=0 p=1000 d=1000001
@\penalty via @@1 b=0 p=1000 d=1000001
@@5: line 8.2 t=-10108887 -> @@1
@\penalty via @@3 b=0 p=1000 d=1000001
@@6: line 9.2 t=-15046170 -> @@3
  A$
@\par via @@0 b=0 p=-10000 d=1
@@7: line 7.2- t=1 -> @@0
@\par via @@4 b=0 p=-10000 d=1
@\par via @@2 b=0 p=-10000 d=1
@\par via @@1 b=0 p=-10000 d=1
@@8: line 8.2- t=-11108887 -> @@1
@\par via @@5 b=0 p=-10000 d=1
@\par via @@3 b=0 p=-10000 d=1
@@9: line 9.2- t=-16046170 -> @@3
@\par via @@6 b=0 p=-10000 d=1
@@10: line 10.2- t=-15046169 -> @@6

> vertical mode
  {{{}}: entering math display group [level 2 at line 262]

% goal height=16383.99998, max depth=2.0

>> display math mode
  { }: [ignored in display math mode]
  {\vadjust} ...
>>> internal vertical mode
  {{{}}: entering \vadjust group [level 3 at line 263]
  {\penalty}: 7 [appending to vertical list]
  {{{}}: leaving \vadjust group [level 3 at line 263]
  restoring [parameter] \parshape to 10 custom lines

```

```

        [parameter] \hangafter to -12
        [parameter] \hangindent to -10.0pt
        [parameter] \looseness to -2
... {\vadjust}: appending grouped material to current list
>> display math mode
    {\mkern} ...
    {\the} ...
        {\prevgraf}: 7 lines
... {\the}: Pushing {7} [1 char] onto input
... {\mkern}: -9.0mu
    {7}: character maps (via \mathcode) to "7037 [class 7 (inner);    \fam 0 \char "37 = 55 = 7]
    {\prevgraf}: previous paragraph's line count set to 8
    {\insert} ...

>ERROR< | "\insert" can't be used with index 255 because \box255 is reserved. Using 0 instead.
| [JSBox features, which support \box-1 as a replacement for \box255, are not enabled.]
Line 263 | \vadjust{\penalty7}\mkern-9mu\the\prevgraf \prevgraf=8 \insert255{\penalty999}
        ... {\insert}: using \count0, \dimen0, \skip0, and \box0 registers ...
>>> internal vertical mode
    {}: entering \insert0 group [level 3 at line 263]
    {\penalty}: 999 [appending to vertical list]
    {}: leaving \insert0 group [level 3 at line 263]
        restoring [parameter] \parshape to 10 custom lines
        [parameter] \hangafter to -12
        [parameter] \hangindent to -10.0pt
        [parameter] \looseness to -2
... {\insert}: appending \insert0 material to current list
    [using \splittopskip=1.0 plus 43.0, \splitmaxdepth=-2.0, \floatingpenalty=100]
>> display math mode
    {}: [ignored in display math mode]
    {\x}: character ^c8 [\`E = "C8 = 200] (treated as type "other")
    {^c8}: character maps (via \mathcode) to itself
    {\vcenter}: spread -2.0pt ...
>>> internal vertical mode
    {}: entering \vcenter group [level 3 at line 264]
    {}: leaving \vcenter group [level 3 at line 264]
        restoring [parameter] \parshape to 10 custom lines
        [parameter] \hangafter to -12
        [parameter] \hangindent to -10.0pt
        [parameter] \looseness to -2
... {\vcenter}: appending math vbox : [id=288] (-2.0 + 0.0) x 0.0 [empty]
>> display math mode
    {}: [ignored in display math mode]
    {}: entering math group [level 3 at line 264]
>>> math mode
    {\mathaccent}: math character "032D [class 0 (ordinary); \fam 3 \char "2D = 45 = -]
    {}: entering \mathaccent group [level 4 at line 264]
        {A}: letter maps (via \mathcode) to "7141 [class 7 (inner);    \fam 1 \char "41 = 65 = A]
    {}: leaving \mathaccent group [level 4 at line 264]
    {}: leaving math group [level 3 at line 264]
>> display math mode
    {}: [subscript]
    {-}: character maps to itself
    {}: [ignored in display math mode]
    {^}: [superscript]
    {}: entering superscript math group [level 3 at line 265]
>>> math mode
    {\raise}: by 2.0pt ...

```

```

{\hbox}
>>> restricted horizontal mode
  {}: entering \hbox group [level 4 at line 265]
    {a}: [letter]
  {}: leaving \hbox group [level 4 at line 265]
... {\raise}: appending hbox : [id=289] (7.0 + 1.0) x 2.0 [rigid] [1 item] shifted by -2.0pt [actually upward]
>>> math mode
  {\displaystyle}: appending a style change
  {\char}: building character [ += "2B = 43]
  {+}: character maps (via \mathcode) to "212F [class 2 (binary op); \fam 1 \char "2F = 47 = /]
  {\textstyle}: appending a style change
  {}: leaving superscript math group [level 3 at line 265]
>> display math mode
  {}: [ignored in display math mode]
  {\overline}
  {}: entering \overline group [level 3 at line 266]
>>> math mode
  {}: [superscript]
  {A}: letter maps to "7141 [class 7 (inner); \fam 1 \char "41 = 65 = A]
  {}: [ignored in math mode]
  {A}: letter maps (via \mathcode) to "7141 [class 7 (inner); \fam 1 \char "41 = 65 = A]
  {}: [subscript]
  {\mathinner}
  {}: entering \mathinner group [level 4 at line 266]
  {}: leaving \mathinner group [level 4 at line 266]
  {}: [superscript]
  {}: entering superscript math group [level 4 at line 267]
  {A}: letter maps (via \mathcode) to "7141 [class 7 (inner); \fam 1 \char "41 = 65 = A]
  {}: [ignored in math mode]
  {\mathchar}: "0141 [class 0 (ordinary); \fam 1 \char "41 = 65 = A]
  {\char}: building character [ `B = "42 = 66]
  {B}: character maps (via \mathcode) to "7142 [class 7 (inner); \fam 1 \char "42 = 66 = B]
  {^A}: [subscript]
  {}: entering subscript math group [level 5 at line 267]
  {\mathaccent}: math character "7161 [class 7 (inner); \fam 1 \char "61 = 97 = a]
  {}: entering \mathaccent group [level 6 at line 268]
    {\mathop}
    {A}: letter maps to "7141 [class 7 (inner); \fam 1 \char "41 = 65 = A]
    {}: [ignored in math mode]
    {\mathbin}
    {A}: letter maps to "7141 [class 7 (inner); \fam 1 \char "41 = 65 = A]
    {}: [ignored in math mode]
    {\mathopen}

"trip.tex"[Line 268]

  {A}: letter maps to "7141 [class 7 (inner); \fam 1 \char "41 = 65 = A]
  {}: [ignored in math mode]
  {\mathpunct}
  {A}: letter maps to "7141 [class 7 (inner); \fam 1 \char "41 = 65 = A]
  {\mathclose}
  {A}: letter maps to "7141 [class 7 (inner); \fam 1 \char "41 = 65 = A]
  {}: [ignored in math mode]
  {\mathrel}
  {A}: letter maps to "7141 [class 7 (inner); \fam 1 \char "41 = 65 = A]
  {}: [ignored in math mode]
  {\global}
  {\scriptscriptfont}: (family 0) \trip [was ?]
  {\mathaccent}: math character "0161 [class 0 (ordinary); \fam 1 \char "61 = 97 = a]

```

```

{{}: entering \mathaccent group [level 7 at line 270]
  {\fam}: 13 [was -1]
  {A}: letter maps (via \mathcode) to "7141 [class 7 (inner);   \fam 1 \char "41 = 65 = A]
  {9}: character maps (via \mathcode) to "7039 [class 7 (inner);   \fam 0 \char "39 = 57 = 9]
  {\the} ...
  {\scriptscriptfont} ...

```

```

>ERROR< | Found -1. Expecting a math font family between 0 and 15. Using 0 instead.
Line 270 | \mathaccent"161 {\fam13A9\the\scriptscriptfont-1}}}}

```

```

... {\scriptscriptfont}: for \fam 0 = \ip
... {\the}: Pushing {\ip } onto input
  {\ip}: current font now trip.tfm [unscaled] [no change]
  {}: leaving \mathaccent group [level 7 at line 270]
    restoring [parameter] \fam to -1
  {}: leaving \mathaccent group [level 6 at line 268]
  {}: leaving subscript math group [level 5 at line 267]
  {}: leaving superscript math group [level 4 at line 267]
  {}: leaving \overline group [level 3 at line 266]

```

```
>> display math mode
```

```

{ }: [ignored in display math mode]
{\mathop}
{B}: character maps to "7142 [class 7 (inner);   \fam 1 \char "42 = 66 = B]
{^}: [superscript]
{\mathop}
{b}: letter maps to "7162 [class 7 (inner);   \fam 1 \char "62 = 98 = b]
{\nolimits}
{\limits}
{|}: [subscript]
{C}: letter maps to "7143 [class 7 (inner);   \fam 1 \char "43 = 67 = C]
{ }: [ignored in display math mode]
{\mathord}
{\radical}

```

```

>ERROR< | Found "\radical". Expecting a math character or left brace after "\mathord". Inserting '{'.
Line 273 | \mathord \radical"161 % missing { will be inserted

```

```

{{}: entering \mathord group [level 3 at line 273]

```

```
>>> math mode
```

```

{\radical}: using delimiter "0161 = class (ordinary), no small delimiter, large \fam 1 a = [ `a = "61 = 97]
{{}: entering \radical group [level 4 at line 274]
  {\textstyle}: appending a style change
  {\radical}: using delimiter "0282382 = class (ordinary), small \fam 2 ^^82, large \fam 3 ^^82    [ ` = "82 = 130]
  {}: entering \radical group [level 5 at line 274]
  {\left} ...

```

```
Calling (->\delimiter "4162362
```

```

  {\delimiter}: delimiter "4162362 = class (open), small \fam 1 b, large \fam 3 b    [ `b = "62 = 98]
... {\left}: entering math \left .. \right group [level 6 at line 274]
Returning from (, resuming reading from file "trip.tex"
  {\scriptscriptstyle}: appending a style change
  {\mathop}
  {}: entering \mathop group [level 7 at line 274]
    {\underline}
    {}: entering \underline group [level 8 at line 274]
      { }: [ignored in math mode]
      {A}: letter maps (via \mathcode) to "7141 [class 7 (inner);   \fam 1 \char "41 = 65 = A]
      {\atop}: numerator saved, no bar, starting denominator
      {\displaystyle}: appending a style change

```

```

{A}: letter maps (via \mathcode) to "7141 [class 7 (inner);    \fam 1 \char "41 = 65 = A]
{[]}: [subscript]
{}}: entering subscript math group [level 9 at line 275]
  {A}: letter maps (via \mathcode) to "7141 [class 7 (inner);    \fam 1 \char "41 = 65 = A]
  {\hfil}: 0.0pt plus 1.0fil [appending to horizontal list]
  {\over}: numerator saved, thickness = default, starting denominator
  {B}: letter maps (via \mathcode) to "7142 [class 7 (inner);    \fam 1 \char "42 = 66 = B]
  {\nonscript}: inserting 0.0mu glue [suppresses next glue/kern in \scriptstyle or \scriptscriptstyle]
  {\kern}: 1.0pt
{}}: leaving subscript math group [level 9 at line 275]
{^}: [superscript]
{=}: character maps to "322D [class 3 (relation); \fam 2 \char "2D = 45 = -]
{}}: leaving \underline group [level 8 at line 274]
{}}: leaving \mathop group [level 7 at line 274]
{ }: [ignored in math mode]
{\nolimits}
{[]}: [subscript]
{}}: entering subscript math group [level 7 at line 276]
  {\mathop}
  {y}: letter maps to "7320 [class 7 (inner);    \fam 3 \char "20 = 32 = ]
  {\nonscript}: inserting 0.0mu glue [suppresses next glue/kern in \scriptstyle or \scriptscriptstyle]
  {\textstyle}: appending a style change
  {\nonscript}: inserting 0.0mu glue [suppresses next glue/kern in \scriptstyle or \scriptscriptstyle]
  {\mskip}: 9.0mu minus 1.0fil appended
  {\showthe} ...
  {\lastskip}: 9.0mu minus 1.0fil
... {\showthe}:

```

```

Line 277 | \showthe \lastskip
9.0mu minus 1.0fil

```

```

{B}: letter maps (via \mathcode) to "7142 [class 7 (inner);    \fam 1 \char "42 = 66 = B]
{\abovewithdelims} ...

Calling (->\delimiter "4162362
  {\delimiter}: delimiter "4162362 = class (open), small \fam 1 b, large \fam 3 b    [ `b = "62 = 98]
Returning from (, resuming reading from file "trip.tex"
  {.:} character maps (via \mathcode) to itself
... {\abovewithdelims}: left/right delims recorded, numerator saved, thickness = 2.0pt, starting denominator
{\displaylimits}

```

```

>ERROR< | Ignoring \displaylimits. It does not immediately follow a math operator.
Line 277 | \showthe\lastskip B\abovewithdelims(.2pt\displaylimits)^z

```

```

{}}: leaving subscript math group [level 7 at line 276]
{^}: [superscript]
{z}: letter maps to "8000 [active; class 0 (ordinary); \fam 0 \char "00 = 0 = ^^@]
[looking up active math char's definition and expanding it instead]

```

```

Calling z->\delimiter "4162362
Returning from z, resuming reading from file "trip.tex"
{ }: [ignored in math mode]
{\discretionary} ...
{}}: entering first \discretionary group [level 7 at line 278]

```

```

>>>>>> restricted horizontal mode
  {\showthe} ...
  {\spacefactor}: 1000
... {\showthe}:

```

Line 278 | \showthe \spacefactor
1000

{-}: [character]

>>>>> math mode

{}}: leaving first \discretionary group [level 7 at line 278]
{{}: entering second \discretionary group [level 7 at line 278]

>>>>> restricted horizontal mode

{\smalltrip}: current font now trip.tfm magnified by 500/1000 [0.5] [was \ip]
{A}: [letter]
{\hss}: 0.0pt plus 1.0fil minus 1.0fil [appending to horizontal list]

>>>>> math mode

{}}: leaving second \discretionary group [level 7 at line 278]
restoring [font] current font to \ip

>ERROR< | Item 2 of type glue in second \discretionary group is not a character, ligature,
| box, rule, or kern. Ignoring it and rest of list.

Line 278 | \discretionary{\showthe\spacefactor-}{\smalltrip A\hss}{\smalltrip A}

The following discretionary list item has been removed:

glue : 0.0 plus 1.0fil minus 1.0fil [\hss]

{{}: entering third \discretionary group [level 7 at line 278]

>>>>> restricted horizontal mode

{\smalltrip}: current font now trip.tfm magnified by 500/1000 [0.5] [was \ip]
{A}: [letter]

>>>>> math mode

{}}: leaving third \discretionary group [level 7 at line 278]
restoring [font] current font to \ip

>ERROR< | In math mode, a \discretionary's third group must be empty. Ignoring third group.

Line 278 | \discretionary{\showthe\spacefactor-}{\smalltrip A\hss}{\smalltrip A}

... {\discretionary}: [appending 3 groups of discretionary break material]

{ }: [ignored in math mode]

{\right} ...

{[]: character maps (via \mathcode) to itself

... {\right}: leaving math \left .. \right group [level 6 at line 279]

{A}: letter maps (via \mathcode) to "7141 [class 7 (inner); \fam 1 \char "41 = 65 = A]

{}}: leaving \radical group [level 5 at line 274]

{}}: leaving \radical group [level 4 at line 274]

{}}: leaving \mathord group [level 3 at line 273]

>> display math mode

{ }: [ignored in display math mode]

{\let}: \penalty = \mathchar"232D

"trip.tex"[Line 280]

{\aftergroup}: postponing \expandafter until after this math display group ends

{\eqno}: entering math group [level 3 at line 281]

>>> math mode

{\aftergroup}: postponing \relax until after this math group ends

{\scriptstyle}: appending a style change

{\penalty}: math character "232D [class 2 (binary op); \fam 3 \char "2D = 45 = -]

Calling (->\delimiter "4162362

{\delimiter}: "4162362 = class (open), small \fam 1 b, large \fam 3 b [`b = "62 = 98] (using small delimiter only)

Returning from (, resuming reading from file "trip.tex"


```

{\mathpunct}
{{}: entering \mathpunct group [level 4 at line 282]
  {A}: letter maps (via \mathcode) to "7141 [class 7 (inner);   \fam 1 \char "41 = 65 = A]
  {A}: letter maps (via \mathcode) to "7141 [class 7 (inner);   \fam 1 \char "41 = 65 = A]
{}}: leaving \mathpunct group [level 4 at line 282]
{ }: [ignored in math mode]
{[]}: [subscript]
{{}: entering subscript math group [level 4 at line 283]
  {B}: letter maps (via \mathcode) to "7142 [class 7 (inner);   \fam 1 \char "42 = 66 = B]
  {\fam}: 1 [was -1]
  {-}: character maps (via \mathcode) to itself
{}}: leaving subscript math group [level 4 at line 283]
  restoring [parameter] \fam to -1
{^}: [superscript]
{{}: entering superscript math group [level 4 at line 283]
  {\hbox} ...
>>>> restricted horizontal mode
  {{}: entering \hbox group [level 5 at line 283]
    {A}: [letter]
  }}: leaving \hbox group [level 5 at line 283]
... {\hbox}: appending hbox : [id=290] (7.0 + 1.0) x 2.0 [rigid] [1 item]
{{}: leaving superscript math group [level 4 at line 283]
>>> math mode
  {{}: entering math group [level 4 at line 283]
    {\above}: numerator saved, thickness = 9.0pt, starting denominator
  {{}: entering math group [level 5 at line 283]
    {v}: letter maps (via \mathcode) to "7176 [class 7 (inner);   \fam 1 \char "76 = 118 = v]
    {\overwithdelims} ...
      {.:}: character maps (via \mathcode) to itself
      {.:}: character maps (via \mathcode) to itself
    ... {\overwithdelims}: left/right delims recorded, numerator saved, thickness = default, starting denominator
    { }: [ignored in math mode]
    {\displaystyle}: appending a style change
  {{}: entering math group [level 6 at line 284]
    {p}: letter maps (via \mathcode) to "7170 [class 7 (inner);   \fam 1 \char "70 = 112 = p]
    {q}: letter maps (via \mathcode) to "3171 [class 3 (relation); \fam 1 \char "71 = 113 = q]
    {\atopwithdelims} ...

    Calling (->\delimiter "4162362
      {\delimiter}: delimiter "4162362 = class (open), small \fam 1 b, large \fam 3 b   [ `b = "62 = 98]
    Returning from (, resuming reading from file "trip.tex"

    Calling (->\delimiter "4162362
      {\delimiter}: delimiter "4162362 = class (open), small \fam 1 b, large \fam 3 b   [ `b = "62 = 98]
    ... {\atopwithdelims}: left/right delims recorded, numerator saved, no bar, starting denominator
    Returning from (, resuming reading from file "trip.tex"
    {\vrule}: appending vertical rule : (ht+dp)=(9.0+*) wd=0.4
  }}: leaving math group [level 6 at line 284]
{}}: leaving math group [level 5 at line 283]
{ }: [ignored in math mode]
{\show}: \penalty

```

```

Line 285 | \show \penalty
\mathchar"232D

```

```

Calling \showlonglists ->{\tracingcommands 0\pagefillstretch -1\dimen 100 \showboxbreadth 9999 \showboxdepth
9999 \showlists \pagegoal =10000pt}
{{}: entering math group [level 5 at line 285]

```



```

glue : -1.11108 [from \thickmuskip]
text : \smalltrip -- [2 chars, total wd=-5.0pt] [- = "2D = 45] [- = "2D = 45]
cost : \penalty -2222
glue : -1.11108 [from \thickmuskip]
text : \ip A [1 char, wd=2.0pt] [A = "41 = 65]
glue : 0.55554 minus 0.83331 [from \medmuskip]
text : \ip / [1 char, wd=1.0pt] [/ = "2F = 47]
cost : \penalty 1000
glue : 0.55554 minus 0.83331 [from \medmuskip]
text : \ip A [1 char, wd=2.0pt] [A = "41 = 65]
kern : 1.0
mth$: inserting \mathsurround=1.1pt after ending math formula
cost : \penalty 10000 [never]
glue : 0.0 [from \parfillskip]
glue : 0.0 plus 10.0fil minus 0.00002 [from \rightskip]

```

```

[[ ++++++ No Pending Contributions to Page 10 ++++++ ]]
Previous depth=3.7pt, 8 lines in previous paragraph

```

```

[[ ##### Current Nested Layout Lists ##### ]]

```

```

[Line 285] math mode entered [empty list]
[Line 283] math mode entered [fraction under construction] [2 items]
math : [ordinary] list [1 item]
  math : [fraction] thickness=default
    numer = list [1 item]
    math : [ordinary] \fam 1 v [-v = "76 = 118]
    denom = list [2 items]
    styl : \displaystyle
    math : [ordinary] list [1 item]
      math : [fraction] thickness=0.0pt [no bar]
        left-delim="4162362 = class (open), small \fam 1 b, large \fam 3 b [-b = "62 = 98]
        right-delim="4162362 = class (open), small \fam 1 b, large \fam 3 b [-b = "62 = 98]
        numer = list [2 items]
        math : [ordinary] \fam 1 p [-p = "70 = 112]
        math : [relation] \fam 1 q [-q = "71 = 113]
        denom = list [1 item]
        rule : (ht+dp)=(9.0+*) wd=0.4
      math : [ordinary] empty
      ---- [end of denominator of fraction being built; next comes the numerator] ----
      math : [fraction] thickness=9.0pt
        numer = {}
        denom = empty
[Line 281] math mode entered [5 items]
styl : \scriptstyle
math : [binary] \fam 3 - [- = "2D = 45]
math : [open] \fam 1 b [-b = "62 = 98]
math : [punct] list [2 items]
  math : [ordinary] \fam 1 A [A = "41 = 65]
  math : [ordinary] \fam 1 A [A = "41 = 65]
  superscript = hbox : [id=290] (7.0 + 1.0) x 2.0 [rigid], contains 1 item
  [uses font \ip = trip.tfm [unscaled]]
  text : \ip A [1 char, wd=2.0pt] [A = "41 = 65]
  subscript = list [2 items]
  math : [ordinary] \fam 1 B [-B = "42 = 66]
  math : [ordinary] \fam 0 - [- = "2D = 45]
math : [ordinary] empty
[Line 262] display math mode entered [11 items]
vadj : [1 item]
cost : \penalty 7

```

```

kern : -9.0mu
math : [ordinary] \fam 0 7    [\`7 = "37 = 55]
--> : \insert0 natural height=0.0pt, split top=1.0 plus 43.0, max depth=-2.0pt, float cost=100 [1 item]
cost : \penalty 999
math : [ordinary] \fam 0 È    [\`È = "C8 = 200]
math : [vcenter] vbox : [id=288] (-2.0 + 0.0) × 0.0 [empty]
math : [accent] \fam 3 -    [\`- = "2D = 45]
nucleus = \fam 1 A    [\`A = "41 = 65]
superscript = list [4 items]
math : [ordinary] hbox : [id=289] (7.0 + 1.0) × 2.0 [rigid, shifted by -2.0], contains 1 item
      [uses font \ip = trip.tfm [unscaled]]
text : \ip a                                [1 char, wd=2.0pt] [\`a = "61 = 97]
styl : \displaystyle
math : [binary] \fam 1 /    [\`/ = "2F = 47]
styl : \textstyle
subscript = \fam 0 -    [\`- = "2D = 45]
math : [overline] list [3 items]
math : [ordinary] empty; superscript = \fam 1 A    [\`A = "41 = 65]
math : [ordinary] \fam 1 A    [\`A = "41 = 65]
subscript = \fam 3 -    [\`- = "2D = 45]
math : [inner] {}
superscript = list [3 items]
math : [ordinary] \fam 1 A    [\`A = "41 = 65]
math : [ordinary] \fam 1 A    [\`A = "41 = 65]
math : [ordinary] \fam 1 B    [\`B = "42 = 66]
subscript = list [1 item]
math : [accent] \fam 1 a    [\`a = "61 = 97]
nucleus = list [7 items]
math : [operator] \fam 1 A    [\`A = "41 = 65]
math : [binary] \fam 1 A    [\`A = "41 = 65]
math : [open] \fam 1 A    [\`A = "41 = 65]
math : [punct] \fam 1 A    [\`A = "41 = 65]
math : [close] \fam 1 A    [\`A = "41 = 65]
math : [relation] \fam 1 A    [\`A = "41 = 65]
math : [accent] \fam 1 a    [\`a = "61 = 97]
nucleus = list [2 items]
math : [ordinary] \fam13 A    [\`A = "41 = 65]
math : [ordinary] \fam13 9    [\`9 = "39 = 57]
math : [operator] \fam 1 B    [\`B = "42 = 66]
superscript = \fam 1 C    [\`C = "43 = 67]
math : [operator] [\limits] \fam 1 b    [\`b = "62 = 98]
subscript = \fam 1 C    [\`C = "43 = 67]
math : [ordinary] list [1 item]
math : [radical] root="0161 = class (ordinary), no small delimiter, large \fam 1 a = [\`a = "61 = 97] list [2 items]
styl : \textstyle
math : [radical] root="0282382 = class (ordinary), small \fam 2 ^^82, large \fam 3 ^^82    [\`- = "82 = 130] list [2 items]
math : [inner] list [5 items]
math : [left] delimiter=["4162362 = class (open), small \fam 1 b, large \fam 3 b    [\`b = "62 = 98]]
styl : \scriptscriptstyle
math : [operator] [\nolimits] list [1 item]
math : [underline] list [1 item]
math : [fraction] thickness=0.0pt [no bar]
numer = list [1 item]
math : [ordinary] \fam 1 A    [\`A = "41 = 65]
denom = list [2 items]
styl : \displaystyle
math : [ordinary] \fam 1 A    [\`A = "41 = 65]
superscript = \fam 2 -    [\`- = "2D = 45]
subscript = list [1 item]

```

```

math : [fraction] thickness=default
      numer = list [2 items]
      math : [ordinary] \fam 1 A   [`A = "41 = 65]
      glue : 0.0 plus 1.0fil
      denom = list [3 items]
      math : [ordinary] \fam 1 B   [`B = "42 = 66]
      glue : \nonscript [suppress next glue/kern]
      kern : 1.0 [explicit]
      superscript = \fam 1 b   [`b = "62 = 98]
      subscript = list [1 item]
math : [fraction] thickness=2.0pt left-delim="4162362 = class (open), small \fam 1 b, large \fam 3 b   [`b = "62 = 98]
      numer = list [6 items]
      math : [operator] \fam 3   [` = "20 = 32]
      glue : \nonscript [suppress next glue/kern]
      styl : \textstyle
      glue : \nonscript [suppress next glue/kern]
      glue : 9.0mu minus 1.0fil
      math : [ordinary] \fam 1 B   [`B = "42 = 66]
      denom = {}
disc : if breaking here, insert \ip -\smalltrip A [2 items before break, 1 after]:
      kern : -1.00002
      text : \ip -
      text : \smalltrip A
math : [right] delimiter=["0161361 = class (ordinary), small \fam 1 a, large \fam 3 a   [`a = "61 = 97]]
math : [ordinary] \fam 1 A   [`A = "41 = 65]
[Line 0] vertical mode entered [0 items] [= pending contributions list]
[[ - - - - - End of Nested Layout Lists - - - - - ]]

```

```

{}}: leaving math group [level 5 at line 285]
      restoring [parameter] \showboxdepth to 1
      [parameter] \showboxbreadth to 2
      [parameter] \tracingcommands to 2

```

```

Returning from \showlonglists, resuming reading from file "trip.tex"
{$}

```

```

>ERROR< | Unexpected '$'. Inserting '}' to end current math group context.
Line 286 | ^ $\expandafter$\csname!\endcsname % end of hairy display, missing } inserted

```

```

{}}: leaving math group [level 4 at line 283]
{$} ...
>> display math mode
{\expandafter}: postponing {$} until after expanding {\csname}
{\csname}: 1 character collected
{\endcsname}: \! constructed [= \relax [internal]]
... {$$: leaving math display group [level 3 at line 286]

```

```

Warning : Ignoring missing character [ `v = "76 = 118]. It's not available in font \bigtr^^@p [from trip.tfm].
Line 286 : ^ $\expandafter$\csname!\endcsname % end of hairy display, missing } inserted

```

```

restoring [constructed name] \! to undefined
[parameter] \fam to -1
inserting \relax onto input [from earlier \aftergroup]

```

```

>ERROR< | The character `7 = [ `7 = "37 = 55] somewhere within the now-ending math formula can't be typeset.
| Its font, \textfont 0, hasn't been declared. Ignoring character.
Line 286 | ^ $\expandafter$\csname!\endcsname % end of hairy display, missing } inserted

```

```

>ERROR< | The character ^^c8 = [ `E = "C8 = 200] somewhere within the now-ending math formula can't be typeset.

```

```

Line 286 | Its font, \textfont 0, hasn't been declared. Ignoring character.
Line 286 | $\expandafter$\csname!\endcsname % end of hairy display, missing } inserted
>ERROR< | The character ` = [= "2D = 45] somewhere within the now-ending math formula can't be typeset.
Line 286 | Its font, \scriptfont 0, hasn't been declared. Ignoring character.
Line 286 | $\expandafter$\csname!\endcsname % end of hairy display, missing } inserted
>ERROR< | The character `A = [= "41 = 65] somewhere within the now-ending math formula can't be typeset.
Line 286 | Its font, \scriptscriptfont 13, hasn't been declared. Ignoring character.
Line 286 | $\expandafter$\csname!\endcsname % end of hairy display, missing } inserted
>ERROR< | The character `9 = [= "39 = 57] somewhere within the now-ending math formula can't be typeset.
Line 286 | Its font, \scriptscriptfont 13, hasn't been declared. Ignoring character.
Line 286 | $\expandafter$\csname!\endcsname % end of hairy display, missing } inserted
Warning : Ignoring missing character [= "20 = 32]. It's not available in font \smalltrip [from trip.tfm].
Line 286 : $\expandafter$\csname!\endcsname % end of hairy display, missing } inserted
Warning : Overfull horizontal box [id=468] [48.4746pts too wide] found at line 286.
Line 286 : $\expandafter$\csname!\endcsname % end of hairy display, missing } inserted

[] [] [] [] [] []
Overfull hbox : [id=468] (68.26251 + 98.15005) × 19.0, shrunk using -1.0 [no change], contains 11 items
kern : -2.49994 [explicit]
vbox : [id=288] (6.0 + -8.0) × 0.0 [empty]
etc. : 9 unshown items ... [\showboxbreadth=2]

restoring [name] \penalty to \penalty
[parameter] \displayindent to 0.0pt
[parameter] \displaywidth to 0.0pt
[parameter] \predisplaysize to 0.0pt
[parameter] \fam to 0
inserting \expandafter onto input [from earlier \aftergroup]
{\expandafter}: postponing {\relax} until after expanding {\!}
>> horizontal mode
{\!}

>ERROR< | Undefined control sequence "\!".
Line 286 | $\expandafter$\csname!\endcsname % end of hairy display, missing } inserted

% t=21.7 plus 1.0fil plus -803.0fill g=10000.0 b=0 p=0 c=0# [# = best break so far]
% t=262.41258 plus 80.0 plus 1.0fil plus -803.0fill g=10000.0 b=0 p=7 c=7
% t=262.41258 plus 80.0 plus 1.0fil plus -803.0fill g=10000.0 b=0 p=-1179647 [always] c=-1179647# [# = best break so far]

Pushing \output->{\tracingcommands 0\showthe \outputpenalty \showboxbreadth 9999 \showboxdepth 999
9 \hoffset 1sp {\setbox 254=\box 255\shipout \ifvbox 2\ifhbox 254 \error \fi
54\copy 25\fi 4} \ifvoid 254\relax \else \error \fi }
>>> internal vertical mode
{ }: entering \output group [level 2 at line 286]
{\tracingcommands}: 0 [=off] [was 2]

Line 286 | \showthe \outputpenalty
-1179647

Shipping out a completed page [-2.0.0.0.11.0.327680]:
vbox : [id=472] (10000.0 + 2.0) × 28.0, stretched using 9737.58789fil, contains 10 items
glue : 7.3 plus 1.0fil [from \topskip]
hbox : [id=473] (12.7 + 3.7) × 17.0, shifted right by 7.0, stretched using 0.17223fil, contains 26 items
[uses font \ip = trip.tfm [unscaled]]

```

```

[uses font \smalltrip = trip.tfm magnified by 500/1000 [0.5]]
glue : 3.0 [from \leftskip]
$math : inserting \mathsurround=1.1pt before starting math formula
hbox : [id=474] (12.7 + 3.7) × 4.80002 [rigid], contains 3 items
  hbox : [id=475] (0.0 + 0.0) × 0.1 [rigid, shifted by -7.0] [empty]
  hbox : [id=476] (12.7 + 3.7) × 1.70001 [rigid], contains 3 items
  hbox : [id=477] (0.0 + 0.0) × 0.1 [rigid, shifted by -7.0] [empty]
  vbox : [id=478] (12.7 + 3.7) × 1.5 [rigid], contains 5 items
    hbox : [id=479] (3.5 + 0.5) × 1.5 [rigid], contains 1 item
      [uses font \smalltrip = trip.tfm magnified by 500/1000 [0.5]]
      text : \smalltrip A [1 char, wd=1.0pt] [ `A = "41 = 65]
    kern : 1.2
    rule : (ht+dp)=(1.0+0.0) wd=*
    kern : 6.2
  hbox : [id=480] (3.5 + 0.5) × 1.5 [rigid], contains 1 item
    [uses font \smalltrip = trip.tfm magnified by 500/1000 [0.5]]
    text : \smalltrip A [1 char, wd=1.0pt] [ `A = "41 = 65]
  hbox : [id=481] (0.0 + 0.0) × 0.1 [rigid, shifted by -7.0] [empty]
  hbox : [id=482] (8.0 + 2.0) × 3.0 [rigid, shifted by -4.0], contains 1 item
    [uses font \ip = trip.tfm [unscaled]]
    text : \ip b [1 char, wd=3.0pt] [ `b = "62 = 98]
glue : 0.55554 minus 0.83331 [from \medmuskip]
text : \ip / [1 char, wd=1.0pt] [ `/ = "2F = 47]
cost : \penalty -3333
glue : 0.27777
glue : 0.55554 minus 0.83331 [from \medmuskip]
text : \ip A [1 char, wd=2.0pt] [ `A = "41 = 65]
kern : 1.0
glue : -1.11108 [from \thickmuskip]
text : \smalltrip -- [2 chars, total wd=-5.0pt] [ ` - = "2D = 45] [ ` - = "2D = 45]
cost : \penalty -2222
glue : -1.11108 [from \thickmuskip]
text : \ip A [1 char, wd=2.0pt] [ `A = "41 = 65]
glue : 0.55554 minus 0.83331 [from \medmuskip]
text : \ip / [1 char, wd=1.0pt] [ `/ = "2F = 47]
cost : \penalty 1000
glue : 0.55554 minus 0.83331 [from \medmuskip]
text : \ip A [1 char, wd=2.0pt] [ `A = "41 = 65]
kern : 1.0
math$ : inserting \mathsurround=1.1pt after ending math formula
cost : \penalty 10000 [never]
glue : 0.0 [from \parfillskip]
glue : 0.0 plus 10.0fil minus 0.00002 [from \rightskip]
cost : \penalty 0
glue : 3.0 [from \abovedisplayskip]
glue : 0.0 plus 40.0 [from \lineskip]
hbox : [id=483] (68.26251 + 98.15005) × 19.0, shifted right by 9.0, shrunk using -1.0 [no change], contains 11 items
  kern : -2.49994 [explicit]
  vbox : [id=484] (6.0 + -8.0) × 0.0 [empty]
  vbox : [id=485] (17.1 + 4.2) × 5.99 [rigid], contains 4 items
    kern : 17.1
    hbox : [id=486] (0.0 + 0.0) × 0.0 [rigid, shifted by 8.5], contains 1 item
      [uses font \bigtr^^@p = trip.tfm at 20.0pt]
      text : \bigtr^^@p - [1 char, wd=-10.0pt] [ ` - = "2D = 45]
    kern : -17.1
    hbox : [id=487] (17.1 + 4.2) × 5.99 [rigid], contains 2 items
      [uses font \ip = trip.tfm [unscaled]]
      text : \ip A [1 char, wd=2.0pt] [ `A = "41 = 65]
    vbox : [id=488] (21.3 + 0.0) × 3.99 [rigid, shifted by 4.2], contains 3 items

```

```

hbox : [id=489] (9.0 + 0.0) × 2.99 [rigid, shifted by 1.0], contains 2 items
  [uses font \ip = trip.tfm [unscaled]]
hbox : [id=490] (7.0 + 1.0) × 2.0 [rigid, shifted by -2.0], contains 1 item
  [uses font \ip = trip.tfm [unscaled]]
  text : \ip a [1 char, wd=2.0pt] [ `a = "61 = 97]
  text : \ip / [1 char, wd=1.0pt] [ `/ = "2F = 47]
kern : 12.3
hbox : [id=491] (0.0 + 0.0) × -0.01 [rigid] [empty]
vbox : [id=492] (25.76251 + 4.1) × 15.0156 [rigid], contains 4 items
kern : 1.0
rule : (ht+dp)=(1.0+0.0) wd=*
kern : 3.0
hbox : [id=493] (20.76251 + 4.1) × 15.0156 [rigid], contains 6 items
  [uses font \ip = trip.tfm [unscaled]]
hbox : [id=494] (3.5 + 0.5) × 1.49 [rigid, shifted by -8.3], contains 1 item
  [uses font \smalltrip = trip.tfm magnified by 500/1000 [0.5]]
  text : \smalltrip A [1 char, wd=1.0pt] [ `A = "41 = 65]
  text : \ip A [1 char, wd=2.0pt] [ `A = "41 = 65]
hbox : [id=495] (0.0 + 0.0) × -5.01 [rigid, shifted by 4.1], contains 1 item
  [uses font \ip = trip.tfm [unscaled]]
  text : \ip - [1 char, wd=-5.0pt] [ ` - = "2D = 45]
glue : 0.27777 plus 2.0fill minus 0.83331 [from \thinmuskip]
hbox : [id=496] (0.0 + 0.0) × 0.0 [rigid] [empty]
hbox : [id=497] (4.0 + 16.20003) × 16.25781 [rigid, shifted by -16.76251], contains 5 items
  [uses font \smalltrip = trip.tfm magnified by 500/1000 [0.5]]
  text : \smalltrip A [1 char, wd=1.0pt] [ `A = "41 = 65]
  kern : 0.5
  kern : 1.0
  text : \smalltrip B [1 char, wd=1.5pt] [ `B = "42 = 66]
vbox : [id=498] (16.00002 + 2.0) × 12.2678 [rigid, shifted by 14.20003], contains 4 items
  kern : 8.99998
  hbox : [id=499] (0.0 + 0.0) × 0.0 [rigid, shifted by 2.1389], contains 1 item
    [uses font \bigtr^^@p = trip.tfm at 20.0pt]
    text : \bigtr^^@p ^^82 [1 char, wd=8.0pt] [ ` - = "82 = 130]
  kern : -8.99998
  hbox : [id=500] (16.00002 + 2.0) × 12.2778 [rigid], contains 5 items
    [uses font \bigtr^^@p = trip.tfm at 20.0pt]
    hbox : [id=501] (14.00002 + 2.0) × 6.00002 [rigid, shifted by -0.99998], contains 1 item
      [uses font \bigtr^^@p = trip.tfm at 20.0pt]
      text : \bigtr^^@p A [1 char, wd=4.00002pt] [ `A = "41 = 65]
    glue : 0.27777 plus 2.0fill minus 0.83331 [from \thinmuskip]
    text : \bigtr^^@p A [1 char, wd=4.00002pt] [ `A = "41 = 65]
    kern : 2.0
  vbox : [id=502] (16.00002 + 0.0) × 0.0 [rigid], contains 3 items
    hbox : [id=503] (14.00002 + 2.0) × 0.0 [rigid, shifted by -3.0], contains 1 item
      [uses font \bigtr^^@p = trip.tfm at 20.0pt]
      text : \bigtr^^@p a [1 char, wd=4.00002pt] [ `a = "61 = 97]
    kern : 0.0
    hbox : [id=504] (0.0 + 0.0) × 0.0 [rigid] [empty]
glue : 0.27777 plus 2.0fill minus 0.83331 [from \thinmuskip]
vbox : [id=505] (28.0 + 0.0) × 3.0 [rigid], contains 4 items
  kern : 10.0
  hbox : [id=506] (0.0 + 0.0) × 3.0, stretched using 0.5fil, contains 3 items
    [uses font \smalltrip = trip.tfm magnified by 500/1000 [0.5]]
    glue : 0.0 plus 1.0fil minus 1.0fil [ \hss]
    text : \smalltrip C [1 char, wd=2.0pt] [ `C = "43 = 67]
    glue : 0.0 plus 1.0fil minus 1.0fil [ \hss]
  kern : 6.0
  hbox : [id=507] (12.0 + 0.0) × 3.0 [rigid], contains 1 item

```



```

hbox : [id=508] (8.0 + 2.0) × 3.0 [rigid, shifted by -4.0], contains 1 item
  [uses font \ip = trip.tfm [unscaled]]
  text : \ip B [1 char, wd=3.0pt] [\`B = "42 = 66]
glue : 0.27777 plus 2.0fill minus 0.83331 [from \thinmuskip]
vbox : [id=509] (7.0 + 18.0) × 8.0 [rigid], contains 4 items
  hbox : [id=510] (7.0 + 0.0) × 8.0 [rigid], contains 1 item
  hbox : [id=511] (0.0 + 0.0) × 8.0 [rigid, shifted by -7.0], contains 1 item
    [uses font \ip = trip.tfm [unscaled]]
    text : \ip M [1 char, wd=6.0pt] [\`M = "4D = 77]
kern : 8.0
hbox : [id=512] (0.0 + 0.0) × 8.0, shifted right by -1.0, stretched using 3.0fil, contains 3 items
  [uses font \smalltrip = trip.tfm magnified by 500/1000 [0.5]]
  glue : 0.0 plus 1.0fil minus 1.0fil [\hss]
  text : \smalltrip C [1 char, wd=2.0pt] [\`C = "43 = 67]
  glue : 0.0 plus 1.0fil minus 1.0fil [\hss]
kern : 10.0
glue : 0.27777 plus 2.0fill minus 0.83331 [from \thinmuskip]
hbox : [id=513] (68.26251 + 98.15005) × 39.63556 [rigid], contains 1 item
hbox : [id=514] (68.26251 + 98.15005) × 39.63556 [rigid], contains 2 items
hbox : [id=515] (7.0 + 1.0) × 3.0 [rigid, shifted by -54.26251], contains 1 item
  [uses font \ip = trip.tfm [unscaled]]
  text : \ip a [1 char, wd=2.0pt] [\`a = "61 = 97]
vbox : [id=516] (68.26251 + 98.15005) × 36.63556 [rigid], contains 4 items
kern : 7.0
rule : (ht+dp)=(7.0+0.0) wd=*
kern : 1.56248
hbox : [id=517] (52.70003 + 98.15005) × 36.63556 [rigid], contains 2 items
  hbox : [id=518] (0.0 + 0.0) × 0.1 [rigid, shifted by -52.70003] [empty]
  vbox : [id=519] (52.70003 + 98.15005) × 36.53555 [rigid], contains 4 items
    kern : 0.0
    rule : (ht+dp)=(0.0+0.0) wd=* [invisible]
    kern : 1.25
  hbox : [id=520] (51.45003 + 98.15005) × 36.53555 [rigid], contains 4 items
    [uses font \ip = trip.tfm [unscaled]]
  hbox : [id=521] (51.45003 + 98.15005) × 33.25778 [rigid], contains 5 items
  vbox : [id=522] (-1.00002 + 22.99995) × 7.0 [rigid, shifted by -18.99998], contains 6 items
    hbox : [id=523] (-1.00002 + 2.0) × 7.0 [rigid], contains 1 item
      [uses font \ip = trip.tfm [unscaled]]
      text : \ip ^^@ [1 char, wd=7.0pt] [\`^^@ = "00 = 0 = <null>]
    hbox : [id=524] (-1.00002 + 2.0) × 7.0 [rigid], contains 1 item
      [uses font \ip = trip.tfm [unscaled]]
      text : \ip ^^@ [1 char, wd=7.0pt] [\`^^@ = "00 = 0 = <null>]
    hbox : [id=525] (7.0 + 1.0) × 3.0 [rigid], contains 1 item
      [uses font \ip = trip.tfm [unscaled]]
      text : \ip A [1 char, wd=2.0pt] [\`A = "41 = 65]
    hbox : [id=526] (-1.00002 + 2.0) × 7.0 [rigid], contains 1 item
      [uses font \ip = trip.tfm [unscaled]]
      text : \ip ^^@ [1 char, wd=7.0pt] [\`^^@ = "00 = 0 = <null>]
    hbox : [id=527] (-1.00002 + 2.0) × 7.0 [rigid], contains 1 item
      [uses font \ip = trip.tfm [unscaled]]
      text : \ip ^^@ [1 char, wd=7.0pt] [\`^^@ = "00 = 0 = <null>]
    hbox : [id=528] (8.0 + 2.0) × 3.0 [rigid], contains 1 item
      [uses font \ip = trip.tfm [unscaled]]
      text : \ip B [1 char, wd=3.0pt] [\`B = "42 = 66]
  hbox : [id=529] (35.75003 + 94.55006) × 8.39005 [rigid], contains 1 item
  vbox : [id=530] (35.75003 + 94.55006) × 8.39005 [rigid], contains 3 items
    hbox : [id=531] (35.75003 + 49.05003) × 8.39005 [rigid], contains 3 items
      hbox : [id=532] (0.0 + 0.0) × 0.1 [rigid, shifted by -7.0] [empty]
      vbox : [id=533] (35.75003 + 49.05003) × 8.19003 [rigid], contains 3 items

```

```

hbox : [id=534] (14.00002 + 2.0) × 8.19003, stretched using 1.09502fil, contains 4 items
  [uses font \bigtr^^@p = trip.tfm at 20.0pt]
  glue : 0.0 plus 1.0fil minus 1.0fil [\hss]
  text : \bigtr^^@p A [1 char, wd=4.00002pt] [`A = "41 = 65]
  kern : 2.0
  glue : 0.0 plus 1.0fil minus 1.0fil [\hss]
kern : 27.30002
hbox : [id=535] (8.1 + 33.40002) × 8.19003 [rigid], contains 2 items
  [uses font \ip = trip.tfm [unscaled]]
  text : \ip A [1 char, wd=2.0pt] [`A = "41 = 65]
vbox : [id=536] (27.75002 + 13.75002) × 6.19003 [rigid, shifted by 19.65001], contains 3 items
  hbox : [id=537] (0.0 + 0.0) × -2.51 [rigid, shifted by 1.0], contains 1 item
    [uses font \smalltrip = trip.tfm magnified by 500/1000 [0.5]]
    text : \smalltrip - [1 char, wd=-2.5pt] [`- = "2D = 45]
  kern : 4.0
  hbox : [id=538] (23.75002 + 13.75002) × 6.19003 [rigid], contains 3 items
    hbox : [id=539] (0.0 + 0.0) × 0.1 [rigid, shifted by -7.0] [empty]
    vbox : [id=540] (23.75002 + 13.75002) × 6.00002 [rigid], contains 5 items
      hbox : [id=541] (14.00002 + 2.0) × 6.00002 [rigid], contains 3 items
        [uses font \bigtr^^@p = trip.tfm at 20.0pt]
        text : \bigtr^^@p A [1 char, wd=4.00002pt] [`A = "41 = 65]
        kern : 2.0
        glue : 0.0 plus 1.0fil [\hfil]
        kern : 0.5
        rule : (ht+dp)=(0.5+0.0) wd=*
        kern : 0.5
      hbox : [id=542] (16.0 + 4.00002) × 6.00002, stretched using 0.00002fil, contains 4 items
        [uses font \bigtr^^@p = trip.tfm at 20.0pt]
        glue : 0.0 plus 1.0fil minus 1.0fil [\hss]
        text : \bigtr^^@p B [1 char, wd=6.0pt] [`B = "42 = 66]
        glue : \nonscript [suppress next glue/kern]
        glue : 0.0 plus 1.0fil minus 1.0fil [\hss]
        hbox : [id=543] (0.0 + 0.0) × 0.1 [rigid, shifted by -7.0] [empty]
      hbox : [id=544] (0.0 + 0.0) × 0.1 [rigid, shifted by -7.0] [empty]
    kern : 27.30002
    rule : (ht+dp)=(9.1+0.0) wd=*
  vbox : [id=545] (146.40009 + 3.2) × 11.86772 [rigid, shifted by 94.95006], contains 3 items
    hbox : [id=546] (16.0 + 4.00002) × 5.99 [rigid], contains 1 item
      [uses font \bigtr^^@p = trip.tfm at 20.0pt]
      text : \bigtr^^@p b [1 char, wd=6.0pt] [`b = "62 = 98]
    kern : 106.40007
    hbox : [id=547] (20.0 + 3.2) × 11.86772 [rigid], contains 3 items
      hbox : [id=548] (16.0 + 4.00002) × 6.0 [rigid, shifted by -1.0], contains 1 item
        [uses font \bigtr^^@p = trip.tfm at 20.0pt]
        text : \bigtr^^@p b [1 char, wd=6.0pt] [`b = "62 = 98]
      vbox : [id=549] (20.0 + 3.2) × 5.77771 [rigid], contains 5 items
        hbox : [id=550] (8.0 + 2.0) × 5.77771 [rigid], contains 6 items
          [uses font \ip = trip.tfm [unscaled]]
          hbox : [id=551] (0.0 + 0.0) × 0.0 [rigid, shifted by -7.0] [empty]
          glue : \nonscript [suppress next glue/kern]
          glue : \nonscript [suppress next glue/kern]
          glue : 2.49994 minus 1.0fil
          glue : 0.27777 plus 2.0fill minus 0.83331 [from \thinmuskip]
          text : \ip B [1 char, wd=3.0pt] [`B = "42 = 66]
        kern : 2.0
        rule : (ht+dp)=(2.0+0.0) wd=*
        kern : 9.2
        hbox : [id=552] (0.0 + 0.0) × 5.77771 [rigid] [empty]
      hbox : [id=553] (0.0 + 0.0) × 0.1 [rigid, shifted by -7.0] [empty]

```

```

disc : if breaking here, insert \ip -\smalltrip A [2 items before break, 1 after]:
      kern : -1.00002
      text : \ip - [1 char, wd=-5.0pt] [^- = "2D = 45]
      ----
      text : \smalltrip A [1 char, wd=1.0pt] [^A = "41 = 65]
hbox : [id=554] (14.00002 + 2.0) × 6.00002 [rigid, shifted by -0.99998], contains 1 item
      [uses font \bigtr^^@p = trip.tfm at 20.0pt]
      text : \bigtr^^@p a [1 char, wd=4.00002pt] [^a = "61 = 97]
      glue : 0.27777 plus 2.0fill minus 0.83331 [from \thinmuskip]
      text : \ip A [1 char, wd=2.0pt] [^A = "41 = 65]
      kern : 1.0
rule : (ht+dp)=(***) wd=5.0
cost : \penalty 1000 [never]
glue : 0.0 plus 40.0 [from \lineskip]
hbox : [id=555] (20.5 + 50.80002) × 8.27895 [rigid, shifted by 19.72105], contains 5 items
      [uses font \ip = trip.tfm [unscaled]]
      [uses font \smalltrip = trip.tfm magnified by 500/1000 [0.5]]
      text : \ip - [1 char, wd=-5.0pt] [^- = "2D = 45]
      text : \smalltrip b [1 char, wd=1.5pt] [^b = "62 = 98]
hbox : [id=556] (3.5 + 0.5) × 1.5 [rigid], contains 2 items
      [uses font \smalltrip = trip.tfm magnified by 500/1000 [0.5]]
      text : \smalltrip A [1 char, wd=1.0pt] [^A = "41 = 65]
      kern : 0.5
vbox : [id=557] (26.0 + 4.00002) × 1.99 [rigid, shifted by 10.8], contains 3 items
      hbox : [id=558] (7.0 + 1.0) × 1.99 [rigid], contains 1 item
            [uses font \ip = trip.tfm [unscaled]]
            text : \ip A [1 char, wd=2.0pt] [^A = "41 = 65]
            kern : 2.0
            hbox : [id=559] (16.0 + 4.00002) × 0.99 [rigid], contains 2 items
                  [uses font \bigtr^^@p = trip.tfm at 20.0pt]
                  [uses font \ip = trip.tfm [unscaled]]
                  text : \bigtr^^@p B [1 char, wd=6.0pt] [^B = "42 = 66]
                  text : \ip - [1 char, wd=-5.0pt] [^- = "2D = 45]
hbox : [id=560] (20.5 + 50.80002) × 8.28894 [rigid], contains 1 item
      hbox : [id=561] (20.5 + 50.80002) × 8.28894 [rigid], contains 3 items
      hbox : [id=562] (0.0 + 0.0) × 0.1 [rigid, shifted by -7.0] [empty]
      vbox : [id=563] (20.5 + 50.80002) × 8.08893 [rigid], contains 5 items
            hbox : [id=564] (0.0 + 0.0) × 8.08893 [rigid] [empty]
            kern : 9.0
            rule : (ht+dp)=(9.0+0.0) wd=*
            kern : 9.0
            hbox : [id=565] (20.65001 + 23.65001) × 8.08893 [rigid], contains 2 items
                  hbox : [id=566] (20.65001 + 23.65001) × 8.08893 [rigid], contains 1 item
                  hbox : [id=567] (20.65001 + 23.65001) × 8.08893 [rigid], contains 3 items
                  hbox : [id=568] (0.0 + 0.0) × 0.1 [rigid, shifted by -7.0] [empty]
                  vbox : [id=569] (20.65001 + 23.65001) × 7.88892 [rigid], contains 5 items
                        hbox : [id=570] (0.0 + 0.0) × 7.88892 [rigid] [empty]
                        kern : 9.1
                        rule : (ht+dp)=(9.1+0.0) wd=*
                        kern : 9.1
                        hbox : [id=571] (12.0 + 5.0) × 7.88892 [rigid], contains 1 item
                              hbox : [id=572] (12.0 + 5.0) × 7.88892 [rigid], contains 3 items
                              hbox : [id=573] (8.0 + 2.0) × 3.0 [rigid, shifted by -4.0], contains 1 item
                                    [uses font \ip = trip.tfm [unscaled]]
                                    text : \ip b [1 char, wd=3.0pt] [^b = "62 = 98]
                              vbox : [id=574] (11.0 + 5.0) × 1.88892 [rigid], contains 3 items
                                    hbox : [id=575] (0.0 + 0.0) × 1.88892 [rigid], contains 10 items
                                          [uses font \ip = trip.tfm [unscaled]]
                                          text : \ip ptsqt [5 chars, total wd=0.0pt]

```

```

"74 = 116]
kern : 3.0
text : \ip qp
glue : -1.11108
text : \ip u
kern : 7.0
hbox : [id=576] (9.0 + 0.0) × 1.88892, stretched using 0.74446fil, contains 3 items
glue : 0.0 plus 1.0fil minus 1.0fil
rule : (ht+dp)=(9.0+*) wd=0.4
glue : 0.0 plus 1.0fil minus 1.0fil
hbox : [id=577] (8.0 + 2.0) × 3.0 [rigid, shifted by -4.0], contains 1 item
[uses font \ip = trip.tfm [unscaled]]
text : \ip b
hbox : [id=578] (0.0 + 0.0) × 0.1 [rigid, shifted by -7.0]
hbox : [id=579] (0.0 + 0.0) × 0.0 [rigid]
hbox : [id=580] (0.0 + 0.0) × 0.1 [rigid, shifted by -7.0]
cost : \penalty 7

```

No delayed output items to execute.

<<< Page 10 done >>>

```

{}}: leaving simple group [level 3 at line 286]
restoring [register] \box254 to void
{}}: leaving \output group [level 2 at line 286]
restoring [parameter] \hoffset to 0.0pt
[parameter] \showboxdepth to 1
[parameter] \showboxbreadth to 2
[parameter] \tracingcommands to 2
[parameter] \parshape to 10 custom lines
[parameter] \hangafter to -12
[parameter] \hangindent to -10.0pt
[parameter] \looseness to -2

```

Returning from \output

>> horizontal mode

```

{\relax}
{\relax [internal]}
{\parshape} ...

```

Warning : Found -1. The number of lines in a paragraph can't be negative. Using 0 instead.

Line 287 : \parshape=-1 % now the hanging indentation is relevant

^^

```

... {\parshape}: no custom line sizes
{\leftskip} ...
{\parshape}: 0 [no custom lines]
... {\leftskip}: 0.0pt plus -10.0fil [was 3.0pt]
{\spacefactor}: 1
{\raise}: by 1.0pt ...
{\hbox}

```

>>> restricted horizontal mode

```

{}}: entering \hbox group [level 2 at line 289]
{\special} ...
{\the} ...
{\hangafter}: -12 [parameter]
... {\the}: value converted to text
... {\special}: {-12} [appending external command information]
{ }: appending font's inter-word glue [4.0 plus 2.0 minus 1.0]
{}}: leaving \hbox group [level 2 at line 289]

```

```

... {\raise}: appending hbox : [id=581] (0.0 + 0.0) × 4.0 [rigid] [2 items] shifted by -1.0pt [actually upward]

```

```

>> horizontal mode
  { }: appending font's inter-word glue [4.0 plus 2.0 minus 1.0]
  {\penalty}: -10000 [always] [appending to horizontal list]
  {\showbox}: \box0

Line 290 | \showbox 0
vbox : [id=470] (0.0 + 0.0) × 0.0 [rigid], contains 1 item
cost : \penalty 999

      {\spacefactor}: 0

>ERROR< | Can't set \spacefactor to 0. The legal range is [1 .. 32767].
Line 290 | \showbox0\spacefactor=0
          ^
          {\write}: 10 {\the \spacefactor } [appending delayed output item]
          {\par}: [ending paragraph]

Typesetting paragraph #20 at source line 290:
[] []
Relevant parameters:
 \vsize=16383.99998, \hsize=100.0, \leftskip=0.0 plus -10.0fil, \rightskip=0.0 plus 10.0fil minus 0.00002, \vfuzz=0.0, \hfuzz=0.0
 \pretolerance=0, \tolerance=10000, \emergencystretch=0.0 [no third pass]
 \looseness=-2 [2 lines shorter], \hbadness=0
 \linepenalty=1, \interlinepenalty=-125
 \clubpenalty=125, \brokenpenalty=37, \hyphenpenalty=88, \exhyphenpenalty=89
 \uchyph=1 [permit uppercase word hyphenation]
 \doublehyphemerits=1000, \finalhyphemerits=100000, \adjdemerits=782
 \parshape=normal, \hangindent=-10.0, \hangafter=-12 [hanging indentation, if any, used on lines 1-12]

Finding line-breaks: [@=active @@=passive b=badness p=penalty d=demerits t=total demerits]
@firstpass
@secondpass
[]
@ via @@ b=10000 p=0 d=100000782
@@1: line 12.0 t=100000782 -> @@0

@\penalty via @@ b=10000 p=-10000 d=100000782
@@2: line 12.0 t=100000782 -> @@0
@\penalty via @@1 b=10000 p=-10000 d=100000000
@@3: line 13.0 t=200000782 -> @@1
[]
@\par via @@2 b=10000 p=-10000 d=100000000
@@4: line 13.0- t=200000782 -> @@2
@\par via @@3 b=10000 p=-10000 d=100000000
@@5: line 14.0- t=300000782 -> @@3

Warning : Found an underfull horizontal box [id=582] [badness=infinite] in paragraph at lines 286--291.
Line 291 : \write10{\the\spacefactor}\par % it's illegal to \write the space factor
          ^^^^^

[]
Underfull hbox : [id=582] (1.0 + 0.0) × 90.0, stretched using 41.0, contains 5 items
  glue : 0.0 plus -10.0fil [from \leftskip]
  hbox : [id=581] (0.0 + 0.0) × 4.0 [rigid, shifted by -1.0], contains 2 items
  etc. : 3 unshown items ... [showboxbreadth=2]

Warning : Found an underfull horizontal box [id=583] [badness=infinite] in paragraph at lines 286--291.
Line 291 : \write10{\the\spacefactor}\par % it's illegal to \write the space factor
          ^^^^^

[]

```

```

Underfull hbox : [id=583] (0.0 + 0.0) x 100.0, stretched using 0.0, contains 5 items
  glue : 0.0 plus -10.0fil [from \leftskip]
  file : \write 10 {\the \spacefactor }
  etc. : 3 unshown items ... [\showboxbreadth=2]

%% goal height=16383.99998, max depth=2.0
% t=20.0 plus 1.0fil g=16383.99998 b=0 p=125 c=125# [# = best break so far]

>ERROR< | Found an extra '}', or there is a missing \endgroup. Ignoring brace character.
Line 292 | } % this fails to match \begingroup
         ^

> vertical mode
  { }: [ignored in vertical mode]
  {\aftergroup}: postponing \lccode until after this semi simple group ends
  {\aftergroup}: postponing ` until after this semi simple group ends
{\endgroup}: leaving semi simple group [level 1 at line 246]
  restoring [parameter] \hangafter to -12
  [parameter] \hangindent to -10.0pt
  [parameter] \leftskip to 3.0pt
  [parameter] \parshape to 10 custom lines
  [parameter] \rightskip to 0.0pt
  [parameter] \looseness to 0
  inserting ` onto input [from earlier \aftergroup]
  inserting \lccode onto input [from earlier \aftergroup]
  {\lccode}: lowercase equivalent of `A is `A [was `^^A]
  {\mark} ...
  {\the} ...

>ERROR< | The layout is in vertical mode, but \spacefactor is only
         | readable in a horizontal mode. Using 0 instead.
Line 294 | \mark{\the\spacefactor} % \spacefactor: not in vertical mode
         ^^^^^^^^^^^^^^^^^
         {\spacefactor}: 0
... {\the}: value converted to text
.. {\mark}: placing {0} [1 char] in an appended mark
  { }: [ignored in vertical mode]
  {$}: [postponing it, starting new paragraph first]

% t=30.0 plus 41.0 plus 1.0fil g=16383.99998 b=0 p=0 c=0# [# = best break so far]

Typesetting paragraph #21 at source line 295:
[]
Relevant parameters:
\size=16383.99998, \hsize=100.0, \leftskip=3.0, \rightskip=0.0, \vfuzz=0.0, \hfuzz=0.0
\pretolerance=0, \tolerance=10000, \emergencystretch=0.0 [no third pass]
\looseness=0 [normal], \hbadness=0
\linepenalty=1, \interlinepenalty=-125
\clubpenalty=125, \brokenpenalty=37, \hyphenpenalty=88, \exhyphenpenalty=89
\uchyph=1 [permit uppercase word hyphenation]
\doubledyphdemerits=1000, \finalhyphdemerits=100000, \adjdemerits=782
\parshape=10 lines
#1: left margin=1.0 width=11.0
#2: left margin=2.0 width=12.0
#3: left margin=3.0 width=13.0
#4: left margin=4.0 width=14.0
#5: left margin=5.0 width=15.0
#6: left margin=6.0 width=16.0
#7: left margin=7.0 width=17.0
#8: left margin=8.0 width=18.0

```

```
#9: left margin=9.0 width=19.0
#10: left margin=10.0 width=20.0
```

```
Finding line-breaks: [@=active @@=passive b=badness p=penalty d=demerits t=total demerits]
```

```
@firstpass
```

```
@secondpass
```

```
[]
```

```
@\par via @@ b=10000 p=-10000 d=*
```

```
@@1: line 1.0- t=0 -> @@
```

```
Warning : Found an underfull horizontal box [id=585] [badness=infinite] in paragraph at line 295.
```

```
Line 295 : $$\global\count7=\predisplaysize
```

```
^
[]
Underfull hbox : [id=585] (0.0 + 0.0) x 11.0, stretched using 0.0, contains 5 items
  glue : 3.0 [from \leftskip]
  hbox : [id=584] (0.0 + 0.0) x 0.0 [rigid] [empty]
  etc. : 3 unshown items ... [\showboxbreadth=2]
```

```
{}: entering math display group [level 1 at line 295]
```

```
>> display math mode
```

```
{\global}
```

```
{\count} ...
```

```
{\predisplaysize}: 24.0pt [parameter]
```

```
... {\count}: \count7 = 1572864 [was 0]
```

```
{\mskip}: 18.0mu minus 18.0mu appended
```

```
{\catcode}: `J <- 13 [active] [was 11 = letter]
```

```
{\catcode} ...
```

```
{\the} ...
```

```
{\catcode}: `J maps to 13
```

```
... {\the}: Pushing {13} [2 chars] onto input
```

```
... {\catcode}: `j <- 13 [active] [was 11 = letter]
```

```
{\def}: j->\relax
```

```
{}: [ignored in display math mode]
```

```
{\vtop} ...
```

```
{\displaywidth}: 13.0pt [parameter]
```

```
>>> internal vertical mode
```

```
... {\vtop}: to 13.0pt ...
```

```
"trip.tex"[Line 297]
```

```
{{}: entering \vtop group [level 2 at line 297]
```

```
{\everydisplay}: \global
```

```
was->
```

```
{\vbox}: to -0.00002pt ...
```

```
{{}: entering \vbox group [level 3 at line 297]
```

```
{{}: leaving \vbox group [level 3 at line 297]
```

```
... {\vbox}: appending vbox : [id=586] (-0.00002 + 0.0) x 0.0 [empty]
```

```
{\noindent}: [starting new paragraph]
```

```
{}: entering math display group [level 3 at line 297]
```

```
>>>> display math mode
```

```
Executing \everydisplay->\global
```

```
{\global}
```

```
{\count} ...
```

```
{\predisplaysize}: -16383.99998pt [parameter]
```

```
... {\count}: \count9 = -1073741823 [was 0]
```

```
{\lowercase}: Pushing character list [length 3] onto input
```

```
{a}: letter maps (via \mathcode) to "7161 [class 7 (inner); \fam 1 \char "61 = 97 = a]
```

```
{a}: letter maps (via \mathcode) to "7161 [class 7 (inner); \fam 1 \char "61 = 97 = a]
```

```

        Calling j->\relax
        {\relax}
        Returning from j, resuming reading from file "trip.tex"
    {$} ...
>>> internal vertical mode
    {\ifvmode}: [now internal vertical mode] ? true
    ... {$}$: leaving math display group [level 3 at line 298]
        restoring [parameter] \displayindent to 3.0pt
        [parameter] \displaywidth to 13.0pt
        [parameter] \predisplaywidth to 24.0pt
        [parameter] \fam to -1
>>>> horizontal mode
    {\fi}: [end of \ifvmode on line 298]
>>> internal vertical mode
    {}: leaving \vtop group [level 2 at line 297]
        restoring [parameter] \everydisplay->
        [parameter] \parshape to 10 custom lines
        [parameter] \hangafter to -12
        [parameter] \hangindent to -10.0pt
    ... {\vtop}: appending vbox : [id=590] (-0.00002 + 13.00002) x 52.5, shrunk using -0.00247 [8 items]
>> display math mode
    {\hss}: 0.0pt plus 1.0fil minus 1.0fil [appending to horizontal list]
    {\leqno}: entering math group [level 2 at line 299]
>>> math mode
    {\mathchardef} ...

>ERROR< | Found 'A'. Expecting a math character name to be defined.
Line 299 | \leqno\mathchardef A\left(\over\left(\global\errorcontextlines5$$
        ^

>ERROR< | Found 'A'. Expecting a math character integer. Using 0.
Line 299 | \leqno\mathchardef A\left(\over\left(\global\errorcontextlines5$$
        ^

    ... {\mathchardef}: \MISSINGNAME [internal] = "00 [class 0 (ordinary); \fam 0 \char "00 = 0 = ^^@]
    {A}: letter maps (via \mathcode) to "7141 [class 7 (inner); \fam 1 \char "41 = 65 = A]
    {\}: appending 0.0pt kern for italic correction
    {\left} ...

        Calling (->\delimiter "4162362
        {\delimiter}: delimiter "4162362 = class (open), small \fam 1 b, large \fam 3 b    [ `b = "62 = 98]
    ... {\left}: entering math \left .. \right group [level 3 at line 299]
        Returning from (, resuming reading from file "trip.tex"
        {\over}: numerator saved, thickness = default, starting denominator
        {\left} ...

        Calling (->\delimiter "4162362
        {\delimiter}: delimiter "4162362 = class (open), small \fam 1 b, large \fam 3 b    [ `b = "62 = 98]
    ... {\left}: entering math \left .. \right group [level 4 at line 299]
        Returning from (, resuming reading from file "trip.tex"
        {\global}
        {\errorcontextlines}: 5 [was 0]
        {$}

>ERROR< | Unexpected '$'. Inserting "\right ." to end current math \left .. \right group context.
Line 299 | \leqno\mathchardef A\left(\over\left(\global\errorcontextlines5$$
        ^

        {\right [internal]} ...

>ERROR< | Missing delimiter. Found '$'. Not a letter or other character that can be mapped to a delimiter.

```



```

Line 299 | Using a null delimiter [.] instead.
Line 299 | \leqno\mathchardef A\left(\over\left(\global\errorcontextlines5$$
          |                                     ^
          | ... {\right [internal]}: leaving math \left .. \right group [level 4 at line 299]
          | {$}
>ERROR< | Unexpected '$'. Inserting "\right ." to end current math \left .. \right group context.
Line 299 | \leqno\mathchardef A\left(\over\left(\global\errorcontextlines5$$
          |                                     ^
          | {\right [internal]} ...
>ERROR< | Missing delimiter. Found '$'. Not a letter or other character that can be mapped to a delimiter.
Line 299 | Using a null delimiter [.] instead.
Line 299 | \leqno\mathchardef A\left(\over\left(\global\errorcontextlines5$$
          |                                     ^
          | ... {\right [internal]}: leaving math \left .. \right group [level 3 at line 299]
          | {$$: leaving math display group [level 2 at line 299]
          |   restoring [math character] \MISSINGNAME [internal] to \undefined
          |   [parameter] \fam to -1
          |   restoring [active character] j to \undefined
          |   [mapping] \catcode of `j to 11 [letter]
          |   [mapping] \catcode of `J to 11 [letter]
          |   [parameter] \displayindent to 0.0pt
          |   [parameter] \displaywidth to 0.0pt
          |   [parameter] \prelshsize to 0.0pt
          |   [parameter] \fam to 0
% t=40.0 plus 124.0 plus 1.0fil minus 8.0      g=16383.99998 b=0 p=0 c=0#   [# = best break so far]
% t=66.00002 plus 164.0 plus 1.0fil minus 8.0  g=16383.99998 b=0 p=-1179647 [always] c=-1179647# [# = best break so far]
Pushing \output->{\tracingcommands 0\showthe \outputpenalty \showboxbreadth 9999 \showboxdepth 999
                9 \hoffset 1sp {\setbox 254=\box 255\shipout \ifvbox 2\ifhbox 254 \error \fi
                54\copy 25\fi 4} \ifvoid 254\relax \else \error \fi }
>>> internal vertical mode
      {}: entering \output group [level 1 at line 299]
      {\tracingcommands}: 0 [=off] [was 2]
Line 299 | \showthe \outputpenalty
-1179647
Shipping out a completed page [-2.0.0.11.0.327680.1572864.0.-1073741823]:
vbox : [id=612] (16383.99998 + 2.0) x 100.0, stretched using 16318.0fil, contains 13 items
  glue : 19.0 plus 1.0fil [from \topskip]
  hbox : [id=613] (1.0 + 0.0) x 90.0, stretched using 41.0, contains 5 items
    glue : 0.0 plus -10.0fil [from \leftskip]
    hbox : [id=614] (0.0 + 0.0) x 4.0 [rigid, shifted by -1.0], contains 2 items
      file : \special {-12}
      glue : 4.0 plus 2.0 minus 1.0 [interword space]
      glue : 4.0 plus 2.0 minus 1.0 [interword space]
      cost : \penalty -10000 [always]
      glue : 0.0 plus 10.0fil minus 0.00002 [from \rightskip]
cost : \penalty 125
glue : 10.0 plus 41.0 [baselineskip (adjusted)]
hbox : [id=615] (0.0 + 0.0) x 100.0, stretched using 0.0, contains 5 items
  glue : 0.0 plus -10.0fil [from \leftskip]
  file : \write 10 {\the \spacefactor }
  cost : \penalty 10000 [never]
  glue : 0.0 [from \parfillskip]
  glue : 0.0 plus 10.0fil minus 0.00002 [from \rightskip]

```

```

mark : {0} [1 char]
glue : 0.0 plus 42.0 minus 8.0 [from \parskip]
glue : 10.0 plus 41.0 [\baselineskip (adjusted)]
hbox : [id=616] (0.0 + 0.0) × 11.0, shifted right by 1.0, stretched using 0.0, contains 5 items
  glue : 3.0 [from \leftskip]
  hbox : [id=617] (0.0 + 0.0) × 0.0 [rigid] [empty]
  cost : \penalty 10000 [never]
  glue : 0.0 [from \parfillskip]
  glue : 0.0 [from \rightskip]
cost : \penalty 0
glue : 3.0 [from \abovedisplayskip]
glue : 0.0 plus 40.0 [from \lineskip]
hbox : [id=618] (12.0 + 13.00002) × 13.0 [rigid, shifted by 3.0], contains 3 items
  hbox : [id=619] (12.0 + 4.0) × 8.1778 [rigid], contains 5 items
    [uses font \ip = trip.tfm [unscaled]]
  text : \ip A [1 char, wd=2.0pt] [\A = "41 = 65]
  kern : 1.0
  kern : 0.0
  glue : 0.27777 plus 2.0fill minus 0.83331 [from \thinmuskip]
  hbox : [id=620] (12.0 + 4.0) × 4.90002 [rigid], contains 3 items
    hbox : [id=621] (8.0 + 2.0) × 3.0 [rigid, shifted by -4.0], contains 1 item
      [uses font \ip = trip.tfm [unscaled]]
    text : \ip b [1 char, wd=3.0pt] [\b = "62 = 98]
  hbox : [id=622] (9.2 + 4.0) × 1.80002 [rigid], contains 3 items
    hbox : [id=623] (0.0 + 0.0) × 0.1 [rigid, shifted by -7.0] [empty]
    vbox : [id=624] (9.2 + 4.0) × 1.6 [rigid], contains 5 items
      hbox : [id=625] (0.0 + 0.0) × 1.6 [rigid] [empty]
      kern : 1.7
      rule : (ht+dp)=(1.0+0.0) wd=*
      kern : 1.0
      hbox : [id=626] (9.5 + 0.0) × 1.6 [rigid], contains 2 items
        hbox : [id=627] (4.0 + 1.0) × 1.5 [rigid, shifted by -5.5], contains 1 item
          [uses font \smalltrip = trip.tfm magnified by 500/1000 [0.5]]
          text : \smalltrip b [1 char, wd=1.5pt] [\b = "62 = 98]
        hbox : [id=628] (0.0 + 0.0) × 0.1 [rigid, shifted by -7.0] [empty]
        hbox : [id=629] (0.0 + 0.0) × 0.1 [rigid, shifted by -7.0] [empty]
        hbox : [id=630] (0.0 + 0.0) × 0.1 [rigid, shifted by -7.0] [empty]
      kern : 5.0
    hbox : [id=631] (0.0 + 13.00002) × -0.1778, shrunk using -57.67767fil, contains 3 items
      glue : 4.99988 minus 4.99988
      vbox : [id=632] (-0.00002 + 13.00002) × 52.5, shrunk using -0.00247, contains 8 items
        vbox : [id=633] (-0.00002 + 0.0) × 0.0 [empty]
        glue : 0.0 plus 42.0 minus 8.0 [from \parskip]
        cost : \penalty 0
        glue : 1.0 plus 45.0 minus 803.0 [from \abovedisplayshortskip]
        glue : 3.0 plus 41.0 [\baselineskip (adjusted)]
        hbox : [id=634] (7.0 + 1.0) × 5.0 [rigid, shifted by 47.5], contains 3 items
          [uses font \ip = trip.tfm [unscaled]]
          text : \ip aa [2 chars, total wd=4.0pt] [\a = "61 = 97] [\a = "61 = 97]
          kern : 1.0
          cost : \penalty -1179647 [always]
          glue : 3.0 plus 46.0 [from \belowdisplayshortskip]
          glue : 0.0 plus 1.0fil minus 1.0fil [\hss]

```

Executing and removing delayed output items (but retaining \specials) ...

```

>ERROR< | The layout is in write [shipout] mode, but \spacefactor is only
| readable in a horizontal mode. Using 0 instead.
TokList | \the \spacefactor

```

```

Line 299 | ^^^^^^^^^^^
| \leqno\mathchardef A\left(\over\left(\global\errorcontextlines5$$
0
... finished executing delayed output items.
<<<< Page 11 done >>>>

    {}: leaving simple group [level 2 at line 299]
      restoring [register] \box254 to void
    {}: leaving \output group [level 1 at line 299]
      restoring [parameter] \hoffset to 0.0pt
        [parameter] \showboxdepth to 1
        [parameter] \showboxbreadth to 2
        [parameter] \tracingcommands to 2
        [parameter] \parshape to 10 custom lines
        [parameter] \hangafter to -12
        [parameter] \hangindent to -10.0pt
Returning from \output
>> horizontal mode
  {\par}: [ending paragraph]
> vertical mode
  {\hangindent}: 1.0pt [was 0.0pt]
  {\par}: [resetting paragraph parameters]
  {\showthe} ...
    {\hangindent}: 0.0pt [parameter]
.. {\showthe}:

Line 301 | \showthe \hangindent
0.0pt

  {\hangindent}: 7227.0pt [was 0.0pt]
  {\parfillskip}: 0.0pt plus 100.0pt [was 0.0pt]
  {\fontdimen} ...
    {\the} ...
      {\scriptfont}: for \fam 2 = \smalltrip
.. {\the}: Pushing {\smalltrip} onto input
.. {\fontdimen}: Dimension #6 [em/quad width] of font \smalltrip set to -0.00029pt [was 5pt]
  {\the} ...
    {\fam}: 0 [parameter]
.. {\the}: Pushing {0} [1 char] onto input
  {0}: [postponing character] starting new paragraph first
>> horizontal mode
  {0}: [character]

Warning : Ignoring missing character [ `0 = "30 = 48]. It's not available in font \ip [from trip.tfm].
Line 303 : \the\fam % begins a paragraph, but there's no 0 in the font
| ^^^^^
  {A}: [letter]
  { }: appending font's inter-word glue [4.0 plus 2.0 minus 1.0] [and magnified by (\spacefactor=999)/1000]
  {\char}: building character [ ` = "82 = 130]
  {^^82}: [character]

Typesetting paragraph #22 at source line 303:
[ ]\ip A ^^82
Relevant parameters:
\vsiz=16383.99998, \hsiz=100.0, \leftskip=3.0, \rightskip=0.0, \vfuzz=0.0, \hfuzz=0.0
\pretolerance=0, \tolerance=10000, \emergencystretch=0.0 [no third pass]
\looseness=0 [normal], \badness=0

```

```

\linepenalty=1, \interlinepenalty=-125
\clubpenalty=125, \brokenpenalty=37, \hyphenpenalty=88, \exhyphenpenalty=89
\uchyph=1 [permit uppercase word hyphenation]
\doubledhyphemerits=1000, \finalhyphemerits=100000, \adjdemerits=782
\parshape=normal, \hangindent=7227.0, \hangafter=1 [hanging indentation, if any, begins on line 2]

Finding line-breaks: [@=active @@=passive b=badness p=penalty d=demerits t=total demerits]
@firstpass
@secondpass
[]\ip A
@ via @@0 b=10000 p=0 d=100000782
@@1: line 1.0 t=100000782 -> @@0
^^82
@\par via @@0 b=62 p=-10000 d=3969
@@2: line 1.1- t=3969 -> @@0

Warning : Found a loose horizontal box [id=636] [badness=62] in paragraph at lines 303--304.
Line 304 : A \char'202$\global\count8=\prelaysize\leqno\kern1009pt$\par
      ^
[]\ip A ^^82
Loose hbox : [id=636] (7.0 + 1.0) x 100.0, stretched using 0.85295, contains 8 items
      [uses font \ip = trip.tfm [unscaled]]
      glue : 3.0 [from \leftskip]
      hbox : [id=635] (0.0 + 0.0) x 0.0 [rigid] [empty]
      etc. : 6 unshown items ... [\showboxbreadth=2]

> vertical mode
  {$$: entering math display group [level 1 at line 304]

%% goal height=16383.99998, max depth=2.0

>> display math mode
  {\global}
  {\count} ...
  {\prelaysize}: 16383.99998pt [parameter]
  ... {\count}: \count8 = 1073741823 [was 0]
  {\leqno}: entering math group [level 2 at line 304]
>>> math mode
  {\kern}: 1009.0pt
  {$} ...

>ERROR< | Found "\par". Expecting a second '$' to end previous math display. Inserting second $.
Line 304 | A \char'202$\global\count8=\prelaysize\leqno\kern1009pt$\par
      ^^^^

>> display math mode
  ... {$$: leaving math display group [level 2 at line 304]
  restoring [parameter] \fam to -1
  restoring [parameter] \displayindent to 0.0pt
  [parameter] \displaywidth to 0.0pt
  [parameter] \prelaysize to 0.0pt
  [parameter] \fam to 0

% t=20.0 plus 1.0fil          g=16383.99998 b=0 p=0 c=0#   [# = best break so far]
% t=40.0 plus 82.0 plus 1.0fil  g=16383.99998 b=0 p=-1179647 [always] c=-1179647# [# = best break so far]

Pushing \output->{\tracingcommands 0\showthe \outputpenalty \showboxbreadth 9999 \showboxdepth 999
  9 \offset 1sp {\setbox 254=\box 255\shipout \ifvbox 2\ifhbox 254 \error \fi
  54\copy 25\fi 4} \ifvoid 254\relax \else \error \fi }
>>> internal vertical mode

```



```

[Line 0] vertical mode entered [0 items] [= pending contributions list]
[[ - - - - - End of Nested Layout Lists - - - - - ]]

{{}: entering simple group [level 1 at line 305]
  {\catcode}: `! <- 13 [active] [was 12 = character]
  {\global}
  {\everyhbox}: \def !{}
    was->
  {}}: leaving simple group [level 1 at line 305]
    restoring [mapping] \catcode of `! to 12 [character]
{ }: [ignored in vertical mode]
{\count} ...
  {\lastskip}: 3.0pt plus 44.0pt minus 10.0pt
.. {\count}: \count5 = 196608 [was 0]
  {\baselineskip}: 10.0pt [was 10.0pt plus 41.0pt]
{{}: entering simple group [level 1 at line 308]
  {\sfcode}: Space factor for `A set to 500 [was 999]
  {\vfuzz}: 18.0pt [was 0.0pt]
  {\everyvbox}:
    was->
  {\vbox} ...
>> internal vertical mode
  Executing \everyvBox->
... {\vbox}: to 11.0pt ...
  {{}: entering \vbox group [level 2 at line 309]
  { }: [ignored in internal vertical mode]
  {\hsize}: 10.0pt [was 100.0pt]
  {\tolerance}: 1 [was 10000]
  {A}: [postponing letter] starting new paragraph first
>>> horizontal mode
  {A}: [letter]
  { }: appending font's inter-word glue [4.0 plus 2.0 minus 1.0] [and magnified by (\spacefactor=500)/1000]
  {A}: [letter]
  { }: appending font's inter-word glue [4.0 plus 2.0 minus 1.0] [and magnified by (\spacefactor=500)/1000]
  {A}: [letter]
  { }: appending font's inter-word glue [4.0 plus 2.0 minus 1.0] [and magnified by (\spacefactor=500)/1000]
  {A}: [letter]
  { }: appending font's inter-word glue [4.0 plus 2.0 minus 1.0] [and magnified by (\spacefactor=500)/1000]
  {A}: [letter]
  {\clubpenalty}: 10000 [was 125]

"trip.tex"[Line 309]

  {\par}: [ending paragraph]

Typesetting paragraph #23 at source line 309:
[]\ip A A A A A
Relevant parameters:
  \vsize=16383.99998, \hsize=10.0, \leftskip=3.0, \rightskip=0.0, \vfuzz=18.0, \hfuzz=0.0
  \pretolerance=0, \tolerance=1, \emergencystretch=0.0 [no third pass]
  \looseness=0 [normal], \hbadness=0
  \linepenalty=1, \interlinepenalty=-125
  \clubpenalty=10000, \brokenpenalty=37, \hyphenpenalty=88, \exhyphenpenalty=89
  \uchyph=1 [permit uppercase word hyphenation]
  \doublehyphendemerits=1000, \finalhyphendemerits=10000, \adjdemerits=782
  \parshape=normal, \hangindent=0.0, \hangafter=1 [hanging indentation, if any, begins on line 2]

Finding line-breaks: [@=active @@=passive b=badness p=penalty d=demerits t=total demerits]
@firstpass

```

```

@secondpass
[]\ip A A A
@ via @@0 b=* p=0 d=*
@@1: line 1.3 t=0 -> @@0
A A
@\par via @@1 b=12 p=-10000 d=*
@@2: line 2.2- t=0 -> @@1

Warning : Overfull horizontal box [id=647] [3.0pts too wide] in paragraph at line 309.
Line 309 : \vbox to 11pt{\hsize 10pt\tolerance 1 A A A A A\clubpenalty10000\par
          ^^^^^
[]\ip A A A
Overfull hbox : [id=647] (7.0 + 1.0) x 10.0, shrunk using -1.0 [no change], contains 9 items
               [uses font \ip = trip.tfm [unscaled]]
               glue : 3.0 [from \leftskip]
               hbox : [id=646] (0.0 + 0.0) x 0.0 [rigid] [empty]
               etc. : 7 unshown items ... [\showboxbreadth=2]

Warning : Found a tight horizontal box [id=648] [badness=12] in paragraph at line 309.
Line 309 : \vbox to 11pt{\hsize 10pt\tolerance 1 A A A A A\clubpenalty10000\par
          ^^^^^
\ip A A
Tight hbox : [id=648] (7.0 + 1.0) x 10.0, shrunk using -0.5, contains 7 items
             [uses font \ip = trip.tfm [unscaled]]
             glue : 3.0 [from \leftskip]
             text : \ip A [1 char, wd=2.0pt] [\A = "41 = 65]
             etc. : 5 unshown items ... [\showboxbreadth=2]

>> internal vertical mode
{\hbadness}: 100 [was 0]
{\hfuzz}: 3.0pt [was 0.0pt]
{A}: [postponing letter] starting new paragraph first
>>> horizontal mode
{A}: [letter]
{ }: appending font's inter-word glue [4.0 plus 2.0 minus 1.0] [and magnified by (\spacefactor=500)/1000]
{A}: [letter]
{ }: appending font's inter-word glue [4.0 plus 2.0 minus 1.0] [and magnified by (\spacefactor=500)/1000]
{A}: [letter]
{ }: appending font's inter-word glue [4.0 plus 2.0 minus 1.0] [and magnified by (\spacefactor=500)/1000]
{A}: [letter]
{ }: appending font's inter-word glue [4.0 plus 2.0 minus 1.0] [and magnified by (\spacefactor=500)/1000]
{A}: [letter]
{\leaders} ...
{\vrule}
{\vrule}: rule : (ht+dp)=(***) wd=0.4
{\par}: [ending paragraph]

Typesetting paragraph #24 at source line 310:
[]\ip A A A A A
Relevant parameters:
\vsizel=16383.99998, \hsize=10.0, \leftskip=3.0, \rightskip=0.0, \vfuzz=18.0, \hfuzz=3.0
\pretolerance=0, \tolerance=1, \emergencystretch=0.0 [no third pass]
\looseness=0 [normal], \hbadness=100
\linepenalty=1, \interlinepenalty=-125
\clubpenalty=10000, \brokenpenalty=37, \hyphenpenalty=88, \exhyphenpenalty=89
\uchyph=1 [permit uppercase word hyphenation]
\doublehyphendemerits=1000, \finalhyphendemerits=100000, \adjdemerits=782
\parshape=normal, \hangindent=0.0, \hangafter=1 [hanging indentation, if any, begins on line 2]

```

```

Finding line-breaks: [@=active @@=passive b=badness p=penalty d=demerits t=total demerits]
@firstpass
@secondpass
[]\ip A A A
@ via @@0 b=* p=0 d=*
@@1: line 1.3 t=0 -> @@0
A A
@\par via @@1 b=12 p=-10000 d=*
@@2: line 2.2- t=0 -> @@1

>> internal vertical mode
  {}: leaving \vbox group [level 2 at line 309]
    restoring [parameter] \hfuzz to 0.0pt
      [parameter] \hbadness to 0
      [parameter] \clubpenalty to 125
      [parameter] \tolerance to 10000
      [parameter] \hsize to 100.0pt

Warning : Overfull vertical box [id=652] [18.0pts too high] found at line 310.
Line 310 : \hbadness100\hfuzz 3pt A A A A A\leaders\vrule\hskip5pt\par}
                                                ^

[] [] [] []
Overfull vbox : [id=652] (11.0 + 1.0) x 10.0, shrunk using -1.0 [no change], contains 10 items
  hbox : [id=647] (7.0 + 1.0) x 10.0, shrunk using -1.0 [no change], contains 9 items
  cost : \penalty 10000 [never]
  etc. : 8 unshown items ...
                                     [\showboxbreadth=2]

... {\vbox}: appending vbox : [id=652] (11.0 + 1.0) x 10.0, shrunk using -1.0 [no change] [10 items]
%% goal height=16383.99998, max depth=2.0

> vertical mode
  {}: [ignored in vertical mode]
  {\message} ...
  {\the} ...
    {\badness}: 1000000
  ... {\the}: value converted to text
  ... {\message}: [to "trip.log" and terminal]

1000000

  {}: leaving simple group [level 1 at line 308]
    restoring [parameter] \everyvbox->
      [parameter] \vfuzz to 0.0pt
      [mapping] \sfcode of `A' to 999
  {}: [ignored in vertical mode]
  {\vbox}: to 10.0pt ...
>> internal vertical mode
  {}: entering \vbox group [level 1 at line 312]
    {\hbadness}: 99 [was 0]
    {\hfuzz}: 1.0pt [was 0.0pt]
    {\hbox} ...
>>> restricted horizontal mode
  Executing \everyhbox->\def !{}
  ... {\hbox}: to 0.0pt ...
    {}: entering adjusted \hbox group [level 2 at line 312]
      {\def}: !->
      {\hskip}: 10.0pt minus 9.0pt [appending to horizontal list]
    {}: leaving adjusted \hbox group [level 2 at line 312]
      restoring [active character] ! to \undefined

```



```

Warning : Overfull horizontal box [id=653] [1.0pt too wide] found at line 312.
Line 312 : \vbox to 10pt{\hbadness 99\hfuzz1pt\hbox to 0pt{\hskip 10pt minus 9pt}
^
Overfull hbox : [id=653] (0.0 + 0.0) x 0.0, shrunk using -1.0 [no change], contains 1 item
glue : 10.0 minus 9.0 [\hskip]

... {\hbox}: appending hbox : [id=653] (0.0 + 0.0) x 0.0, shrunk using -1.0 [no change] [1 item]
>> internal vertical mode
{ }: [ignored in internal vertical mode]
{\hbadness}: 100 [was 99]
{\hbox} ...
>>> restricted horizontal mode
Executing \everyhbox->\def !{}
... {\hbox}: to 10.03749pt ...
{{}: entering adjusted \hbox group [level 2 at line 313]
{\def}: !->
{\hskip}: 0.0pt plus 10.0pt [appending to horizontal list]
{}}: leaving adjusted \hbox group [level 2 at line 313]
restoring [active character] ! to \undefined

Warning : Found an underfull horizontal box [id=654] [badness=101] found at line 313.
Line 313 : \hbadness100\hbox to 10bp{\hskip 0pt plus 10pt}\tracingcommands1
^
Underfull hbox : [id=654] (0.0 + 0.0) x 10.03749, stretched using 1.00375, contains 1 item
glue : 0.0 plus 10.0 [\hskip]

... {\hbox}: appending hbox : [id=654] (0.0 + 0.0) x 10.03749, stretched using 1.00375 [1 item]
>> internal vertical mode
{\tracingcommands}: 1 [non-expanding only] [was 2]
{\badness}: 101
{\message} ...
{\the} ...
{\badness}: 101
... {\the}: value converted to text
... {\message}: [to "trip.log" and terminal]

101

{}}: leaving \vbox group [level 1 at line 312]
restoring [parameter] \tracingcommands to 2
[parameter] \hfuzz to 0.0pt
[parameter] \hbadness to 0
.. {\vbox}: appending vbox : [id=655] (10.0 + 0.0) x 10.03749 [rigid] [3 items]

% t=20.0 plus 1.0fil g=16383.99998 b=0 p=0 c=0# [# = best break so far]

> vertical mode
{\lineskiplimit}: -1.0pt [was 0.0pt]
{\everyhbox}:
was->\def !{}
{ }: [ignored in vertical mode]
{\def}: \space->
{ }: [ignored in vertical mode]
{\dimendef}: \df = \dimen188
{\dimen}: \dimen188 = 1.0pt [was 0.0pt]
{\vbox}: to 11.0pt ...

```

```

>> internal vertical mode
  {}: entering \vbox group [level 1 at line 316]
  {\tracinglostchars}: -9 [=off] [was 2]
  {A}: [postponing letter] starting new paragraph first
>>> horizontal mode
  {A}: [letter]
  {\/}: appending 1.0pt explicit kern for italic correction

Calling \space ->
  {}: appending font's inter-word glue [4.0 plus 2.0 minus 1.0] [and magnified by (\spacefactor=999)/1000]
Returning from \space, resuming reading from file "trip.tex"

Calling \space ->
  {}: appending font's inter-word glue [4.0 plus 2.0 minus 1.0] [and magnified by (\spacefactor=999)/1000]
Returning from \space, resuming reading from file "trip.tex"
{\ignorespaces}

Calling \space ->
Returning from \space, resuming reading from file "trip.tex"

Calling \space ->
Returning from \space, resuming reading from file "trip.tex"
{J}: [letter]
  {}: appending font's inter-word glue [4.0 plus 2.0 minus 1.0] [and magnified by (\spacefactor=999)/1000]
{\vskip}: [changing to vertical mode first]
{\par}: [ending paragraph]

```

Typesetting paragraph #25 at source line 316:

```

[]\ip A
Relevant parameters:
 \vsize=16383.99998, \hsize=100.0, \leftskip=3.0, \rightskip=0.0, \vfuzz=0.0, \hfuzz=0.0
 \pretolerance=0, \tolerance=10000, \emergencystretch=0.0 [no third pass]
 \looseness=0 [normal], \hbadness=0
 \linepenalty=1, \interlinepenalty=-125
 \clubpenalty=125, \brokenpenalty=37, \hyphenpenalty=88, \exhyphenpenalty=89
 \uchyph=1 [permit uppercase word hyphenation]
 \doublehyphendemerits=1000, \finalhyphendemerits=100000, \adjdemerits=782
 \parshape=normal, \hangindent=0.0, \hangafter=1 [hanging indentation, if any, begins on line 2]

```

Finding line-breaks: [@=active @@=passive b=badness p=penalty d=demerits t=total demerits]

```

@firstpass
@secondpass
[]\ip A
@\kern via @@0 b=10000 p=0 d=100000782
@@1: line 1.0 t=100000782 -> @@0

@\par via @@0 b=56 p=-10000 d=3249
@\par via @@1 b=10000 p=-10000 d=100000000
@@2: line 1.1- t=3249 -> @@0

```

Warning : Found a loose horizontal box [id=657] [badness=56] in paragraph at lines 316--317.

```

Line 317 : \vskip2pt\moveleft1pt\vbox to10pt{\boxmaxdepth=-1pt\mark{vii}}\vskip3pt
          ^^^^^^

```

```

[]\ip A
Loose hbox : [id=657] (7.0 + 1.0) × 100.0, stretched using 0.82695, contains 9 items
             [uses font \ip = trip.tfm [unscaled]]
             glue : 3.0 [from \leftskip]
             hbox : [id=656] (0.0 + 0.0) × 0.0 [rigid] [empty]
             etc. : 7 unshown items ... [showboxbreadth=2]

```

```

>> internal vertical mode
    {\vskip}: 2.0pt [appending to vertical list]
    {\moveleft}: by 1.0pt ...
    {\vbox}
    {}: entering \vbox group [level 2 at line 317]
      {\boxmaxdepth}: -1.0pt [was 1000.0pt]
      {\mark} placing {vii} [3 chars] in an appended mark
    {}: leaving \vbox group [level 2 at line 317]
      restoring [parameter] \boxmaxdepth to 1000.0pt

Warning : Found an underfull vertical box [id=658] [badness=infinite] found at line 317.
Line 317 : \vskip2pt\moveleft1pt\vbox to10pt{\boxmaxdepth=-1pt\mark{vii}}\vskip3pt
          ^

[]
Underfull vbox : [id=658] (10.0 + -1.0) x 0.0, contains 1 item
  mark : {vii} [3 chars]

... {\moveleft}: appending vbox : [id=658] (10.0 + -1.0) x 0.0 [1 item] shifted by -1.0pt [actually upward]
  {\vskip}: 3.0pt [appending to vertical list]
  {\unskip}: [last item deleted]
  {\setbox} ...
  {\lastbox}
... {\setbox}: \box22 = \lastbox = vbox : [id=658] (10.0 + -1.0) x 0.0 [1 item] [was void]
  [removing list's last box]
  {\showthe} ...
  {\lastskip}: -1.0pt
... {\showthe}:

Line 318 | \showthe \lastskip
-1.0pt

  {\unskip}: [last item deleted]
  {\vskip} ...
  {\lastskip}: 2.0pt
... {\vskip}: -2.0pt [appending to vertical list]
  {\kern} ...
  {\lastkern}: 0.0pt
... {\kern}: 0.0pt
  {\penalty} ...
  {\lastkern}: 0.0pt
... {\penalty}: 0 [appending to vertical list]
  {\showbox}: \box22

Line 319 | \showbox 22
vbox : [id=658] (10.0 + -1.0) x 0.0, contains 1 item
  mark : {vii} [3 chars]

  {}: leaving \vbox group [level 1 at line 316]
  restoring [register] \box22 to void
  [parameter] \tracinglostchars to 2

Warning : Found an underfull vertical box [id=659] [badness=infinite] found at line 319.
Line 319 : \unskip\vskip-\lastskip\kern\lastkern\penalty\lastkern\showbox22}
          ^^^

[]
Underfull vbox : [id=659] (11.0 + 0.0) x 100.0, stretched using 0.0, contains 5 items
  hbox : [id=657] (7.0 + 1.0) x 100.0, stretched using 0.82695, contains 9 items
  glue : 2.0 [vskip]

```

```

etc. : 3 unshown items ...                [\showboxbreadth=2]
.. {\vbox}: appending vbox : [id=659] (11.0 + 0.0) × 100.0, stretched using 0.0 [5 items]
% t=31.0 plus 40.0 plus 1.0fil             g=16383.99998 b=0 p=0 c=0#    [# = best break so far]
> vertical mode
{ }: [ignored in vertical mode]
{\showbox}: \box22
Line 320 | \showbox 22
void
{\kern}: 3.0pt
{\message}: ...
{\the}: ...
{\lastkern}: 3.0pt
... {\the}: value converted to text
.. {\message}: [to "trip.log" and terminal]
3.0pt
{\unkern}: [last item deleted]
{\show}: \botmark
Line 321 | \show \botmark
0
{\catcode}: `; <- 13    [active]          [was 12 = character]
{\def}: ;->\setbox `;
{ }: [ignored in vertical mode]
"trip.tex"[Line 322]
{\lineskiplimit} ...
    Calling \space ->
    Returning from \space, resuming reading from file "trip.tex"
    {\df}: 1.0pt    [= \dimen188] [scaling by -0.9999]
.. {\lineskiplimit}: -0.9999pt [was -1.0pt]
    Calling \space ->
    { }: [ignored in vertical mode]
    Returning from \space, resuming reading from file "trip.tex"
    {\count}: \count9 = 0 [was -1073741823]
    {\vbox} ...
        Calling \space ->
        Returning from \space, resuming reading from file "trip.tex"
>> internal vertical mode
.. {\vbox}: to 11.0pt ...
    {}: entering \vbox group [level 1 at line 323]
    {\accent}: [postponing it, starting new paragraph first]
>>> horizontal mode
    {\accent} ...
    {\x}: ^^c8 = [È = "C8 = 200]
Warning : Ignoring missing character [È = "C8 = 200]. It's not available in font \ip [from trip.tfm].
Line 323 : \vbox\space to 11pt{\accent\x\space\accent\space}42 \def^^M{\ } ; \char'101

```

```

... {\accent}: ignoring character `È = "C8 = 200 [missing from current font \ip]

Calling \space ->
{ }: appending font's inter-word glue [4.0 plus 2.0 minus 1.0]
Returning from \space, resuming reading from file "trip.tex"
{\accent} ...

Calling \space ->
Returning from \space, resuming reading from file "trip.tex"
{\def}: \^^M->\

Calling ;->\setbox `;
{\setbox}

>ERROR< | A \setbox is not allowed between \accent and its accented character.
TokList | \setbox `;
         | ^^^^^^^
Line 323 | \vbox\space to 11pt{\accent\x\space\accent\space"42 \def\^^M{\ } }; \char'101
         | ^

Returning from ;, resuming reading from file "trip.tex"
... {\accent}: adding accent B to character A in current font \ip
{A}: [letter]
{\ }: appending font's inter-word glue [4.0 plus 2.0 minus 1.0]
{\fontdimen}: Dimension #4 [interword shrink] of font \ip set to 88pt [was 1pt]
{\ }: appending font's inter-word glue [rebuilding it after component change]
{\spaceskip} ...

Calling \^^M->\
... {\spaceskip}: 2.0pt [was 0.0pt]
{\ }: appending \spaceskip glue [2.0]
Returning from \^^M, resuming reading from file "trip.tex"
{\vskip}: [changing to vertical mode first]
{\par}: [ending paragraph]

Typesetting paragraph #26 at source line 323:
[] []\ip AA
Relevant parameters:
\vsiz=16383.99998, \hsiz=100.0, \leftskip=3.0, \rightskip=0.0, \vfuzz=0.0, \hfuzz=0.0
\pretolerance=0, \tolerance=10000, \emergencystretch=0.0 [no third pass]
\looseness=0 [normal], \hbadness=0
\linepenalty=1, \interlinepenalty=-125
\clubpenalty=125, \brokenpenalty=37, \hyphenpenalty=88, \exhyphenpenalty=89
\uchyph=1 [permit uppercase word hyphenation]
\doublehyphendemerits=1000, \finalhyphendemerits=100000, \adjdemerits=782
\parshape=normal, \hangindent=0.0, \hangafter=1 [hanging indentation, if any, begins on line 2]

Finding line-breaks: [@=active @@=passive b=badness p=penalty d=demerits t=total demerits]
@firstpass
@secondpass
[]
@ via @@0 b=10000 p=0 d=100000782
@@1: line 1.0 t=100000782 -> @@0
[]\ip AA
@ via @@0 b=10000 p=0 d=100000782
@ via @@1 b=10000 p=0 d=100000000
@@2: line 1.0 t=100000782 -> @@0

@\par via @@0 b=44 p=-10000 d=2025
@\par via @@1 b=54 p=-10000 d=3025

```

@\par via @@2 b=10000 p=-10000 d=100000000

@@3: line 1.1- t=2025 -> @@0

Warning : Found a loose horizontal box [id=662] [badness=44] in paragraph at lines 323--325.

Line 325 : \vskip 10pt minus 10pt}

^^^^^^

[] []\ip AA

Loose hbox : [id=662] (10.50002 + 1.0) × 100.0, stretched using 0.76414, contains 13 items

[uses font \ip = trip.tfm [unscaled]]

glue : 3.0 [from \leftskip]

hbox : [id=660] (0.0 + 0.0) × 0.0 [rigid] [empty]

etc. : 11 unshown items ... [\showboxbreadth=2]

>> internal vertical mode

{\vskip}: 10.0pt minus 10.0pt [appending to vertical list]

{}: leaving \vbox group [level 1 at line 323]

restoring [parameter] \spaceskip to 0.0pt

[macro] \^^M to undefined

Warning : Overfull vertical box [id=663] [0.50002pt too high] found at line 325.

Line 325 : \vskip 10pt minus 10pt}

^

[]

Overfull vbox : [id=663] (11.0 + 0.0) × 100.0, shrunk using -1.0 [no change], contains 2 items

hbox : [id=662] (10.50002 + 1.0) × 100.0, stretched using 0.76414, contains 13 items

glue : 10.0 minus 10.0 [\vskip]

.. {\vbox}: appending vbox : [id=663] (11.0 + 0.0) × 100.0, shrunk using -1.0 [no change] [2 items]

% t=41.0 plus 40.0 plus 1.0fil g=16383.99998 b=0 p=0 c=0# [# = best break so far]

> vertical mode

{ } : [ignored in vertical mode]

{\penalty}: -2147483647 [always] [appending to vertical list]

% t=52.0 plus 80.0 plus 1.0fil

g=16383.99998 b=0 p=-2147483647 [always] c=-2147483647# [# = best break so far]

Pushing \output->{\tracingcommands 0\showthe \outputpenalty \showboxbreadth 9999 \showboxdepth 999

9 \hoffset 1sp {\setbox 254=\box 255\shipout \ifvbox 2\ifhbox 254 \error \fi

54\copy 25\fi 4} \ifvoid 254\relax \else \error \fi }

>> internal vertical mode

{}: entering \output group [level 1 at line 326]

{\tracingcommands}: 0 [=off] [was 2]

Line 326 | \showthe \outputpenalty

-2147483647

Shipping out a completed page [-2.0.0.0.11.196608.327680.1572864.1073741823]:

vbox : [id=665] (16383.99998 + 0.0) × 100.0, stretched using 16332.0fil, contains 8 items

glue : 9.0 plus 1.0fil [from \topskip]

vbox : [id=666] (11.0 + 1.0) × 10.0, shrunk using -1.0 [no change], contains 10 items

hbox : [id=667] (7.0 + 1.0) × 10.0, shrunk using -1.0 [no change], contains 9 items

[uses font \ip = trip.tfm [unscaled]]

glue : 3.0 [from \leftskip]

hbox : [id=668] (0.0 + 0.0) × 0.0 [rigid] [empty]

text : \ip A [1 char, wd=2.0pt] [^A = "41 = 65]

glue : 4.0 plus 1.0 minus 2.0 [interword space]

text : \ip A [1 char, wd=2.0pt] [^A = "41 = 65]

glue : 4.0 plus 1.0 minus 2.0 [interword space]

text : \ip A [1 char, wd=2.0pt] [^A = "41 = 65]

```

glue : 0.0 [from \rightskip]
rule : (ht+dp)=(***) wd=5.0
cost : \penalty 10000 [never]
glue : 2.0 [\baselineskip (adjusted)]
hbox : [id=669] (7.0 + 1.0) × 10.0, shrunk using -0.5, contains 7 items
      [uses font \ip = trip.tfm [unscaled]]
glue : 3.0 [from \leftskip]
text : \ip A [1 char, wd=2.0pt] [\A = "41 = 65]
glue : 4.0 plus 1.0 minus 2.0 [interword space]
text : \ip A [1 char, wd=2.0pt] [\A = "41 = 65]
cost : \penalty 10000 [never]
glue : 0.0 plus 100.0 [from \parfillskip]
glue : 0.0 [from \rightskip]
glue : 0.0 plus 42.0 minus 8.0 [from \parskip]
glue : 2.0 [\baselineskip (adjusted)]
hbox : [id=670] (7.0 + 1.0) × 10.0, shrunk using -1.0 [no change], contains 8 items
      [uses font \ip = trip.tfm [unscaled]]
glue : 3.0 [from \leftskip]
hbox : [id=671] (0.0 + 0.0) × 0.0 [rigid] [empty]
text : \ip A [1 char, wd=2.0pt] [\A = "41 = 65]
glue : 4.0 plus 1.0 minus 2.0 [interword space]
text : \ip A [1 char, wd=2.0pt] [\A = "41 = 65]
glue : 4.0 plus 1.0 minus 2.0 [interword space]
text : \ip A [1 char, wd=2.0pt] [\A = "41 = 65]
glue : 0.0 [from \rightskip]
cost : \penalty 10000 [never]
glue : 2.0 [\baselineskip (adjusted)]
hbox : [id=672] (7.0 + 1.0) × 10.0, shrunk using -0.5, contains 7 items
      [uses font \ip = trip.tfm [unscaled]]
glue : 3.0 [from \leftskip]
text : \ip A [1 char, wd=2.0pt] [\A = "41 = 65]
glue : 4.0 plus 1.0 minus 2.0 [interword space]
text : \ip A [1 char, wd=2.0pt] [\A = "41 = 65]
cost : \penalty 10000 [never]
glue : 0.0 plus 100.0 [from \parfillskip]
glue : 0.0 [from \rightskip]
glue : 0.0 plus 40.0 [from \lineskip]
vbox : [id=673] (10.0 + 0.0) × 10.03749 [rigid], contains 3 items
hbox : [id=674] (0.0 + 0.0) × 0.0, shrunk using -1.0 [no change], contains 1 item
glue : 10.0 minus 9.0 [\hskip]
glue : 10.0 [\baselineskip (adjusted)]
hbox : [id=675] (0.0 + 0.0) × 10.03749, stretched using 1.00375, contains 1 item
glue : 0.0 plus 10.0 [\hskip]
glue : -1.0 [\baselineskip (adjusted)]
vbox : [id=676] (11.0 + 0.0) × 100.0, stretched using 0.0, contains 5 items
hbox : [id=677] (7.0 + 1.0) × 100.0, stretched using 0.82695, contains 9 items
      [uses font \ip = trip.tfm [unscaled]]
glue : 3.0 [from \leftskip]
hbox : [id=678] (0.0 + 0.0) × 0.0 [rigid] [empty]
text : \ip A [1 char, wd=2.0pt] [\A = "41 = 65]
kern : 1.0 [explicit]
glue : 4.0 plus 1.99799 minus 1.00099 [interword space]
glue : 4.0 plus 1.99799 minus 1.00099 [interword space]
cost : \penalty 10000 [never]
glue : 0.0 plus 100.0 [from \parfillskip]
glue : 0.0 [from \rightskip]
glue : 2.0 [\vskip]
glue : -2.0 [\vskip]
kern : 0.0 [explicit]

```

```

cost : \penalty 0
glue : 0.0 plus 40.0 [from \lineskip]
vbox : [id=679] (11.0 + 0.0) × 100.0, shrunk using -1.0 [no change], contains 2 items
hbox : [id=680] (10.50002 + 1.0) × 100.0, stretched using 0.76414, contains 13 items
      [uses font \ip = trip.tfm [unscaled]]
glue : 3.0 [from \leftskip]
hbox : [id=681] (0.0 + 0.0) × 0.0 [rigid] [empty]
glue : 4.0 plus 2.0 minus 1.0 [interword space]
kern : -5.50003 [for accent]
hbox : [id=682] (8.0 + 2.0) × 3.0 [rigid, shifted by -2.50002], contains 1 item
      [uses font \ip = trip.tfm [unscaled]]
text : \ip B [1 char, wd=3.0pt] [`B = "42 = 66]
kern : 2.50003 [for accent]
text : \ip AA [2 chars, total wd=4.0pt] [`A = "41 = 65] [`A = "41 = 65]
glue : 4.0 plus 2.0 minus 1.0 [interword space]
glue : 4.0 plus 2.0 minus 88.0 [interword space]
cost : \penalty 10000 [never]
glue : 0.0 plus 100.0 [from \parfillskip]
glue : 0.0 [from \rightskip]
glue : 10.0 minus 10.0 [\vskip]

```

No delayed output items to execute.

<<<< Page 13 done >>>>

```

{}}: leaving simple group [level 2 at line 326]
      restoring [register] \box254 to void
{}}: leaving \output group [level 1 at line 326]
      restoring [parameter] \hoffset to 0.0pt
              [parameter] \showboxdepth to 1
              [parameter] \showboxbreadth to 2
              [parameter] \tracingcommands to 2

```

Returning from \output

> vertical mode

```
{\penalty} ...
```

```

>ERROR< | The most negative integer -2147483648 is unsupported. Using -2147483647 instead.
         | [JSBox features, which permit -2147483648 as legal input, are not enabled.]
Line 327 | \penalty-2147483648 % see?
         | ^

```

```

.. {\penalty}: -2147483647 [always] [appending to vertical list]
   {\tabskip}: 0.0154pt minus 3.21002pt [was 0.0pt plus 40.0pt]
   {\let}: \A = \relax
   {\count}: \count1 = 2 [was 0]
   {}}: entering simple group [level 1 at line 329]
       {\errhelp}: all is lost
       was->
       {\errmessage}: [to "trip.log" and terminal] [no message] [using \errhelp instead]

```

>ERROR< | all is lost

```

{}}: leaving simple group [level 1 at line 329]
      restoring [parameter] \errhelp->
{ } : [ignored in vertical mode]
{\def}: \d#1\d ->#1#1
{ } : [ignored in vertical mode]
{\looseness}: -1 [was 0]
{\setbox} ...
{\vtop}

```

>> internal vertical mode


```

.. {\setbox}: \box3 = \vtop ...
  {}: entering \vtop group [level 1 at line 331]
  {\vskip}: -8.53581pt [appending to vertical list]
  {}: leaving \vtop group [level 1 at line 331]
  restoring [parameter] \looseness to -1
.. {\setbox}: \box3 = vbox : [id=683] (0.0 + -8.53581) x 0.0 [rigid] [1 item] [was void]
> vertical mode
  { }: [ignored in vertical mode]
  {\halign}: building successive rows, each containing entries in horizontally tabbed columns ...
>> internal vertical mode
  {}: entering \halign group [level 1 at line 332]
.. {\halign}: [preamble] recording templates for each column ...
  {}: preamble's column templates will repeat periodically
  {}: end of prefix material for column 1's template; collecting suffix
  {\span}: the next token "\iftrue" will be expanded
  {\iftrue}: true
  {\A}
  {\span}: the next token "\else" will be expanded
  {\else}: false
  {\fi}: [end of \iftrue on line 332]
  {\span}: ignored [the '&' following is not expandable]
  {}: end of column 1's suffix and template, collecting prefix of column 2's template
  {}: ignoring initial spaces in column 2's template
  {\vbox}
  {}: [braces unbalanced by 1]
  {\halign}
  {to}: [2 chars]
  { }
  {0pt}: [3 chars]
  {}: [braces unbalanced by 2]
  {\t}
  {2}
  {\dp}
  {3}
  {\A}
  {\crrc}: recording \crrc in column 2's template prefix because of an as-yet unmatched brace
  {}: [braces unbalanced by 1]
  {}: end of prefix material for column 2's template [braces not balanced]; collecting suffix
  {A}
  {}: braces are balanced
  { }
  {}: end of column 2's suffix and template, collecting prefix of column 3's template
  {\hss}
  {\tabskip}: [not recorded in template] ...
  {\wd} ...

      Calling \d #1\d ->#1#1
      #1: ##
... {\wd}: [of \box4] [void] 0.0pt [scaling by 4.0]
... {\tabskip}: changing \tabskip [inter-column glue] to 4.49998 plus 7227.0
  {}: end of prefix material for column 3's template; collecting suffix

```

Context | "trip.tex"[Line 334] > \d

>ERROR< | Found '#'. Only one # allowed per column. Check for a missing & tab character.

TokList | #1#1

Line 334 | &\hss\tabskip1ex plus7200bp minus 4\wd4\d#\d\cr % \d#\d becomes (erroneous) ##

```

    Returning from \d, resuming reading from file "trip.tex"
    {\cr}: end of column 3's suffix and template
.. {\halign}: preamble has declared templates for 3 columns, all repeatable ...
    \tabskip [= 0.0154 minus 3.21002]
    column 1 suffix: \A
    \tabskip
    column 2 prefix: \vbox {\halign to [...]2\dp 3\A \cr cr }
    suffix: A}
    \tabskip
    column 3 prefix: \hss
    \tabskip = 4.49998 plus 7227.0
{column entry}: entering hidden alignment item group [level 2 at line 334]
>>>> restricted horizontal mode
.. {\halign}: [row 1] building column 1 [no prefix] ...
    {\global}
    {\let}: \t = \tabskip
    {\spaceskip}: 4.0pt minus 0.00002pt [was 0.0pt]
    {\def}: \A->B
    {\def}: \xx->\global \gdef \A {\global \count \count 1=####\cr \omit \cr \tabskip }
    {\expandafter} ...
    {\span}: coalescing columns 1 and 2 in row 1; inserting template suffix for column 1
... {\expandafter}: postponing {\xx} until after expanding {\A}

    Calling \A ->B

    Calling \xx ->\global \gdef \A {\global \count \count 1=####\cr \omit \cr \tabskip }
    {\global}

"trip.tex"[Line 337]

    {\gdef}: \A->\global \count \count 1=##\cr \omit \cr \tabskip
    Returning from \xx
    {B}: [letter]
    Returning from \A, resuming reading from file "trip.tex"
.. {\halign}: [row 1] ending column 1, building column 2, inserting its template prefix ...
    {\vbox} ...
>>>>> internal vertical mode
    {}: entering \vbox group [level 3 at line 338]
    {\halign}[2]: building successive rows, each containing entries in horizontally tabbed columns ...
    {}: entering \halign group [level 4 at line 338]
    ... {\halign}[2]: [preamble] recording templates for each column ...
        {\t}: [not recorded in template] ...
        {\dp} ...

        Calling \A ->\global \count \count 1=##\cr \omit \cr \tabskip
        ... {\dp}: [of \box3] [id=683] -8.53581pt [scaling by 2.0]
        ... {\t}: changing \tabskip [inter-column glue] to -17.07162
        {\global}
        {\count}
        {\count}
        {1=}: [2 chars]
        {#}: end of prefix material for column 1's template; collecting suffix
        {\cr}: end of column 1's suffix and template
    ... {\halign}[2]: preamble has declared template for 1 column ...
        \tabskip [= 4.49998 plus 7227.0]
        column 1 prefix: \global \count \count 1=
        \tabskip = -17.07162
        {column entry}: entering hidden alignment item group [level 5 at line 338]
>>>>>>> restricted horizontal mode

```

```

... {\halign}[2]: [row 1] building column 1 ...
    {\omit}: suppressing template for column 1 in row 1; omitting prefix
    {\cr}: row 1 of column 1 is ending; no template suffix
    {column entry}: leaving hidden alignment item group [level 5 at line 338]
    {column entry}: entering hidden alignment item group [level 5 at line 338]
... {\halign}[2]: ending row 1 ...
... {\halign}[2]: [row 2] building column 1, inserting its template prefix ...
    {\global}
    {\count} ...
    {\count}: 2 [= \count1]
    {\tabskip}: -17.07162pt [parameter]
... {\count}: \count2 = -1118806 [was 0]
    Returning from \A, resuming reading from file "trip.tex"
    {\crcr}: row 2 of column 1 is ending; no template suffix
    {column entry}: leaving hidden alignment item group [level 5 at line 338]
    {column entry}: entering hidden alignment item group [level 5 at line 338]
... {\halign}[2]: ending row 2 ...
>>>>> internal vertical mode
    {column entry}: leaving hidden alignment item group [level 5 at line 338]
    {}: leaving \halign group [level 4 at line 338]
    restoring [parameter] \tabskip to 4.49998pt plus 7227.0pt
... {\halign}: [done] appending 2 rows of aligned material
    {A}: [postponing letter] starting new paragraph first
>>>>> horizontal mode
    {A}: [letter]
    {&}: material in column 2 of row 1 now ending; inserting template suffix
    {A}: [letter]

```

Typesetting paragraph #27 at source line 338:

```

[]\ip AA
Relevant parameters:
 \vsize=16383.99998, \hsize=100.0, \leftskip=3.0, \rightskip=0.0, \vfuzz=0.0, \hfuzz=0.0
 \pretolerance=0, \tolerance=10000, \emergencystretch=0.0 [no third pass]
 \looseness=0 [normal], \hbadness=0
 \linepenalty=1, \interlinepenalty=-125
 \clubpenalty=125, \brokenpenalty=37, \hyphenpenalty=88, \exhyphenpenalty=89
 \uchyph=1 [permit uppercase word hyphenation]
 \doublehyphendemerits=1000, \finalhyphendemerits=100000, \adjdemerits=782
 \parshape=normal, \hangindent=0.0, \hangafter=1 [hanging indentation, if any, begins on line 2]

```

Finding line-breaks: [@=active @@=passive b=badness p=penalty d=demerits t=total demerits]

```

@firstpass
@secondpass
[]\ip AA
@\par via @@ b=86 p=-10000 d=*
@@1: line 1.1- t=0 -> @@0

```

Context : "trip.tex"[Line 338]

Warning : Found a loose horizontal box [id=691] [badness=86] in paragraph at line 338.

```

Line 338 : A&\omit\valign to -5pt{#\&\cr A\char`}\span\cr{ }\span\cr}\cr
          ^

```

```

[]\ip AA
Loose hbox : [id=691] (7.0 + 1.0) x 100.0, stretched using 0.95, contains 6 items
             [uses font \ip = trip.tfm [unscaled]]
             glue : 3.0 [from \leftskip]
             hbox : [id=690] (0.0 + 0.0) x 0.0 [rigid] [empty]
             etc. : 4 unshown items ... [showboxbreadth=2]

```

```

>>>> internal vertical mode
      {}: leaving \vbox group [level 3 at line 338]
        restoring [parameter] \looseness to -1
      ... {\vbox}: appending vbox : [id=692] (20.0 + 1.0) x 100.0 [rigid] [6 items]
>>>> restricted horizontal mode
      { }: appending \spaceskip glue [4.0 minus 0.00002]
      {column entry}: leaving hidden alignment item group [level 2 at line 334]
        retaining [macro] \A as macro:->\global \count \count 1=##\cr \omit \cr \tabskip
        restoring [macro] \xx to undefined
          [parameter] \spaceskip to 0.0pt
      {column entry}: entering hidden alignment item group [level 2 at line 338]
.. {\halign}: [row 1] ending column 2, building column 3 ...
  {\omit}: suppressing template for column 3 in row 1; omitting prefix
  {\valign}[2]: building successive columns, each containing entries in vertically tabbed rows ...
    {}: entering \valign group [level 3 at line 338]
  ... {\valign}[2]: [preamble] recording templates for each row ...
    {}: end of prefix material for row 1's template; collecting suffix
    {}: end of row 1's suffix and template, collecting prefix of row 2's template
    {}: end of prefix material for row 2's template; collecting suffix
    {\cr}: end of row 2's suffix and template
  ... {\valign}[2]: preamble has declared templates for 2 rows ...
    \tabskip [= 4.49998 plus 7227.0]
    row 1: [no extra material to insert]
    \tabskip
    row 2: [no extra material to insert]
    \tabskip
  {row entry}: entering hidden alignment item group [level 4 at line 338]
>>>>>> internal vertical mode
  ... {\valign}[2]: [column 1] building row 1 [no prefix] ...
    {A}: [postponing letter] starting new paragraph first
>>>>>>> horizontal mode
  {A}: [letter]
  {\char} ...
  {\span}: coalescing rows 1 and 2 in column 1; no suffix for row 1
  ... {\char}: building character [`] = "7D = 125]
  {}: [character]

```

Warning : Ignoring missing character [`] = "7D = 125]. It's not available in font \ip [from trip.tfm].

Line 338 : A&\omit\valign to -5pt{##\cr A\char`}\span\cr{ }\span\cr}\cr
^^^^

Typesetting paragraph #28 at source line 338:

[]\ip A

Relevant parameters:

```

\size=16383.99998, \hsize=100.0, \leftskip=3.0, \rightskip=0.0, \vfuzz=0.0, \hfuzz=0.0
\pretolerance=0, \tolerance=10000, \emergencystretch=0.0 [no third pass]
\looseness=0 [normal], \hbadness=0
\linepenalty=1, \interlinepenalty=-125
\clubpenalty=125, \brokenpenalty=37, \hyphenpenalty=88, \exhyphenpenalty=89
\uchyph=1 [permit uppercase word hyphenation]
\doubledemerits=1000, \finalhyphenemerits=100000, \adjdemerits=782
\parshape=normal, \hangindent=0.0, \hangafter=1 [hanging indentation, if any, begins on line 2]

```

Finding line-breaks: [@=active @@=passive b=badness p=penalty d=demerits t=total demerits]

@firstpass

@secondpass

[]\ip A

@\par via @@ b=86 p=-10000 d=*

@@1: line 1.1- t=0 -> @@0

Warning : Found a loose horizontal box [id=695] [badness=86] in paragraph at line 338.

Line 338 : A&\omit\valign to -5pt{#&#\cr A\char`}\span\cr{ }\span\cr}\cr
 ^^^^

[]\ip A

Loose hbox : [id=695] (7.0 + 1.0) × 100.0, stretched using 0.95, contains 6 items

[uses font \ip = trip.tfm [unscaled]]
 glue : 3.0 [from \leftskip]
 hbox : [id=694] (0.0 + 0.0) × 0.0 [rigid] [empty]
 etc. : 4 unshown items ... [\showboxbreadth=2]

>>>>> internal vertical mode

... {\valign}[2]: [column 1] ending row 1, building row 2 [no prefix] ...
 {\cr}: column 1 of row 2 is ending; no template suffix
 {row entry}: leaving hidden alignment item group [level 4 at line 338]
 restoring [parameter] \looseness to -1
 {row entry}: entering hidden alignment item group [level 4 at line 338]
 ... {\valign}[2]: ending column 1 ...
 ... {\valign}[2]: [column 2] building row 1 [no prefix] ...
 {}: entering simple group [level 5 at line 338]
 { }: [ignored in internal vertical mode]
 {}: leaving simple group [level 5 at line 338]
 {\span}: coalescing rows 1 and 2 in column 2; no suffix for row 1
 ... {\valign}[2]: [column 2] ending row 1, building row 2 [no prefix] ...
 {\cr}: column 2 of row 2 is ending; no template suffix
 {row entry}: leaving hidden alignment item group [level 4 at line 338]
 restoring [parameter] \looseness to -1
 {row entry}: entering hidden alignment item group [level 4 at line 338]
 ... {\valign}[2]: ending column 2 ...

>>>> restricted horizontal mode

{row entry}: leaving hidden alignment item group [level 4 at line 338]
 {}: leaving \valign group [level 3 at line 338]
 ... {\valign}: [done] appending 2 columns of aligned material

Warning : Overfull vertical box [id=702] [21.99997pts too high] in alignment at line 338.

Line 338 : A&\omit\valign to -5pt{#&#\cr A\char`}\span\cr{ }\span\cr}\cr
 ^

[][]

Overfull vbox : [id=702] (-5.0 + 0.0) × 0.0, shrunk using -1.0 [no change], contains 5 items

glue : 4.49998 plus 7227.0 [from \tabskip]
 unbx : [id=700] (0.0 + 0.0) × 0.0 [rigid] [empty]
 etc. : 3 unshown items ... [\showboxbreadth=2]

{\cr}: row 1 of column 3 is ending; no template suffix
 {column entry}: leaving hidden alignment item group [level 2 at line 338]
 {column entry}: entering hidden alignment item group [level 2 at line 338]
 .. {\halign}: ending row 1 ...
 .. {\halign}: [row 2] building column 1 [no prefix] ...
 {\global}
 {\edef}: \A ...
 {\fontname}: Pushing {trip} [4 chars] onto input
 {\the} ...
 {\font}: \ip
 ... {\the}: value converted to text
 {\romannumeral}: Pushing {mix} [3 chars] onto input
 ... {\edef}: \A->\uppercase { \message {trip at 5.0pt\ip mix}\lowercase {vq}}
 { }: appending font's inter-word glue [4.0 plus 2.0 minus 88.0]
 {\lccode}: lowercase equivalent of `Q is `q [was `q]
 {\span}: coalescing columns 1 and 2 in row 2; inserting template suffix for column 1

```
Calling \A ->\uppercase { \message {trip at 5.0pt\ip mix}\lowercase {vq}}
{\uppercase}: Pushing token list [length 26] onto input
{ }: appending font's inter-word glue [4.0 plus 2.0 minus 88.0]
{\message}: [to "trip.log" and terminal]
```

TRIP AT 5.0PT\ip AIX

```
{\lowercase}: Pushing character list [length 2] onto input
{v}: [letter]
```

Context : "trip.tex"[Line 341] > \A

Warning : Ignoring missing character [\v = "76 = 118]. It's not available in font \ip [from trip.tfm].

Line 341 : \lccode`Q=`b \span\omit\$\span\A&\show\cr\omit\cr

```
{b}: [letter]
```

```
{ }: appending font's inter-word glue [4.0 plus 2.0 minus 88.0]
```

```
Returning from \A, resuming reading from file "trip.tex"
```

```
.. {\halign}: [row 2] ending column 1, building column 2 ...
```

```
{\omit}: suppressing template for column 2 in row 2; omitting prefix
```

```
{$: entering math group [level 3 at line 341]
```

```
{$: leaving math group [level 3 at line 341]
```

```
appending hbox, with \mathsurround=0.0pt on either side
```

```
restoring [parameter] \fam to 0
```

```
{\span}: coalescing columns 2 and 3 in row 2; omitting suffix for column 2
```

```
Calling \A ->\uppercase { \message {trip at 5.0pt\ip mix}\lowercase {vq}}
```

```
.. {\halign}: [row 2] ending column 2, building column 3, inserting its template prefix ...
```

```
{\hss}: 0.0pt plus 1.0fil minus 1.0fil [appending to horizontal list]
```

```
{\uppercase}: Pushing token list [length 26] onto input
```

```
{ }: appending font's inter-word glue [4.0 plus 2.0 minus 88.0]
```

```
{\message}: [to "trip.log" and terminal]
```

TRIP AT 5.0PT\ip AIX

```
{\lowercase}: Pushing character list [length 2] onto input
{v}: [letter]
```

Warning : Ignoring missing character [\v = "76 = 118]. It's not available in font \ip [from trip.tfm].

Line 341 : \lccode`Q=`b \span\omit\$\span\A&\show\cr\omit\cr

```
{b}: [letter]
```

```
{ }: appending font's inter-word glue [4.0 plus 2.0 minus 88.0]
```

"trip.tex"[Line 341]

```
Returning from \A, resuming reading from file "trip.tex"
```

```
{&}: material in column 3 of row 2 now ending; no suffix
```

```
.. {\halign}: [row 2] adding column 4, using the template from column 1 ...
```

```
{column entry}: leaving hidden alignment item group [level 2 at line 338]
```

```
restoring [mapping] \lccode of `Q to 113
```

```
{column entry}: entering hidden alignment item group [level 2 at line 341]
```

```
.. {\halign}: [row 2] ending column 3, building column 4 [no prefix] ...
```

```
{\show} ...
```

```
{\cr}: row 2 of column 4 is ending; inserting template suffix
```

```
... {\show}: \A
```

Line 341 | \show \A

macro:->\uppercase { \message {trip at 5.0pt\ip mix}\lowercase {vq}}

```

    {column entry}: leaving hidden alignment item group [level 2 at line 341]
    {column entry}: entering hidden alignment item group [level 2 at line 341]
.. {\halign}: ending row 2 ...
.. {\halign}: [row 3] building column 1 ...
    {\omit}: suppressing template for column 1 in row 3; omitting prefix
    {\cr}: row 3 of column 1 is ending; omitting suffix
    {column entry}: leaving hidden alignment item group [level 2 at line 341]
    {column entry}: entering hidden alignment item group [level 2 at line 341]
.. {\halign}: ending row 3 ...
>> internal vertical mode
    {\noalign}
    {}: entering \noalign group [level 3 at line 342]
        {\global}
        {\prevdepth}: 20.0 pt
        {\errmessage} ...
        {\the} ...
        {\count}: -1118806 [= \count2]
        ... {\the}: value converted to text
        ... {\errmessage}: [to "trip.log" and terminal]

```

```

Context | "trip.tex"[Line 342]
>ERROR< | \count 2=-1118806

```

```

    {}: leaving \noalign group [level 3 at line 342]
    restoring [parameter] \looseness to -1
>>>> restricted horizontal mode
.. {\halign}: [row 4] building column 1 ...
    {\omit}: suppressing template for column 1 in row 4; omitting prefix
    {\mark} placing {a} [1 char] in an appended mark
    {\&}: material in column 1 of row 4 now ending; omitting suffix
    {column entry}: leaving hidden alignment item group [level 2 at line 341]
    {column entry}: entering hidden alignment item group [level 2 at line 343]
.. {\halign}: [row 4] ending column 1, building column 2 ...
    {\omit}: suppressing template for column 2 in row 4; omitting prefix
    {\mark} placing {b} [1 char] in an appended mark
    {\cr}: row 4 of column 2 is ending; omitting suffix
    {column entry}: leaving hidden alignment item group [level 2 at line 343]
    {column entry}: entering hidden alignment item group [level 2 at line 343]
.. {\halign}: ending row 4 ...
>> internal vertical mode
    {column entry}: leaving hidden alignment item group [level 2 at line 343]
    {}: leaving \halign group [level 1 at line 332]
    restoring [parameter] \tabskip to 0.0154pt minus 3.21002pt
.. {\halign}: [done] appending 4 rows of aligned material

```

```

Warning : Found a tight horizontal box [id=719] [badness=12] in alignment at lines 332--343.
Line 343 : \omit\mark{a}&\omit\mark{b}\cr} % \count2 was set to -6mm=-1118806sp

```

```

[] [] [] []
Tight hbox : [id=719] (0.0 + 0.0) x 205.12613, shrunk using -0.5, contains 9 items
glue : 0.0154 minus 3.21002 [from \tabskip]
unbx : [id=715] (0.0 + 0.0) x 0.0 [rigid] [empty]
etc. : 7 unshown items ... [\showboxbreadth=2]

```

```
%% goal height=16383.99998, max depth=2.0
```

```

% t=20.0 plus 1.0fil          g=16383.99998 b=0 p=0 c=0#   [# = best break so far]
% t=30.0 plus 1.0fil          g=16383.99998 b=0 p=0 c=0#   [# = best break so far]
% t=40.0 plus 1.0fil          g=16383.99998 b=0 p=0 c=0#   [# = best break so far]

```

```

> vertical mode
{ }: [ignored in vertical mode]
{\errmessage} ...
  {\the} ...
  {\prevdepth}: 0.0pt
... {\the}: value converted to text
.. {\errmessage}: [to "trip.log" and terminal]

>ERROR< | \prevdepth =0.0pt

{ }: [ignored in vertical mode]
{\penalty}: -88888 [always] [appending to vertical list]

% t=40.0 plus 40.0 plus 1.0fil          g=16383.99998 b=0 p=-88888 [always] c=-88888# [# = best break so far]

Pushing \output->{\tracingcommands 0\showthe \outputpenalty \showboxbreadth 9999 \showboxdepth 999
9 \hoffset 1sp {\setbox 254=\box 255\shipout \ifvbox 2\ifhbox 254 \error \fi
54\copy 25\fi 4} \ifvoid 254\relax \else \error \fi }

>> internal vertical mode
{{}: entering \output group [level 1 at line 345]
  {\tracingcommands}: 0 [=off] [was 2]

Line 345 | \showthe \outputpenalty
-88888

Shipping out a completed page [-2.2.-1118806.0.11.196608.327680.1572864.1073741823]:
vbox : [id=724] (16383.99998 + 0.0) × 205.12613, stretched using 16344.0fil, contains 10 items
  glue : 0.0 plus 1.0fil [from \topskip]
  hbox : [id=725] (20.0 + 2.0) × 205.12613, shrunk using -0.5, contains 7 items
    glue : 0.0154 minus 3.21002 [from \tabskip]
    hbox : [id=726] (20.0 + 2.0) × 0.0, shrunk using -1.0 [no change], contains 3 items
      [uses font \ip = trip.tfm [unscaled]]
      text : \ip B [1 char, wd=3.0pt] [ `B = "42 = 66]
        vbox : [id=727] (20.0 + 1.0) × 100.0 [rigid], contains 6 items
          hbox : [id=728] (0.0 + 0.0) × 0.0, stretched using 0.00174, contains 3 items
            glue : 4.49998 plus 7227.0 [from \tabskip]
            hbox : [id=729] (0.0 + 0.0) × 0.0 [rigid] [empty]
              glue : -17.07162 [from \tabskip]
              glue : 10.0 [\baselineskip (adjusted)]
            hbox : [id=730] (0.0 + 0.0) × 0.0, stretched using 0.00174, contains 3 items
              glue : 4.49998 plus 7227.0 [from \tabskip]
              hbox : [id=731] (0.0 + 0.0) × 0.0 [rigid] [empty]
                glue : -17.07162 [from \tabskip]
                glue : 0.0 plus 42.0 minus 8.0 [from \parskip]
                glue : 3.0 [\baselineskip (adjusted)]
              hbox : [id=732] (7.0 + 1.0) × 100.0, stretched using 0.95, contains 6 items
                [uses font \ip = trip.tfm [unscaled]]
                glue : 3.0 [from \leftskip]
                hbox : [id=733] (0.0 + 0.0) × 0.0 [rigid] [empty]
                  liga : \ip A <-- {AA} [2-char] [1 char, wd=2.0pt] [ `A = "41 = 65]
                  cost : \penalty 10000 [never]
                  glue : 0.0 plus 100.0 [from \parfillskip]
                  glue : 0.0 [from \rightskip]
                glue : 4.0 minus 0.00002 [interword space]
                glue : 0.0154 minus 3.21002 [from \tabskip]
                hbox : [id=734] (0.0 + 0.0) × 106.9846 [rigid] [empty]
                  glue : 0.0154 minus 3.21002 [from \tabskip]
                  hbox : [id=735] (20.0 + 2.0) × 100.0 [rigid], contains 2 items

```



```

vbox : [id=736] (-5.0 + 0.0) × 100.0, shrunk using -1.0 [no change], contains 5 items
glue : 4.49998 plus 7227.0 [from \tabskip]
vbox : [id=737] (0.0 + 0.0) × 100.0 [rigid], contains 1 item
hbox : [id=738] (7.0 + 1.0) × 100.0, stretched using 0.95, contains 6 items
[uses font \ip = trip.tfm [unscaled]]
glue : 3.0 [from \leftskip]
hbox : [id=739] (0.0 + 0.0) × 0.0 [rigid] [empty]
text : \ip A [1 char, wd=2.0pt] [`A = "41 = 65]
cost : \penalty 10000 [never]
glue : 0.0 plus 100.0 [from \parfillskip]
glue : 0.0 [from \rightskip]
glue : 0.0 [from \tabskip]
vbox : [id=740] (8.0 + 0.0) × 0.0 [rigid] [empty]
glue : 4.49998 plus 7227.0 [from \tabskip]
vbox : [id=741] (-5.0 + 0.0) × 0.0, shrunk using -1.0 [no change], contains 5 items
glue : 4.49998 plus 7227.0 [from \tabskip]
vbox : [id=742] (0.0 + 0.0) × 0.0 [empty]
glue : 0.0 [from \tabskip]
vbox : [id=743] (8.0 + 0.0) × 0.0 [rigid] [empty]
glue : 4.49998 plus 7227.0 [from \tabskip]
glue : 4.49998 plus 7227.0 [from \tabskip]
glue : 0.0 [\baselineskip (adjusted)]
hbox : [id=744] (8.0 + 2.0) × 205.12613, shrunk using -0.5, contains 9 items
glue : 0.0154 minus 3.21002 [from \tabskip]
hbox : [id=745] (8.0 + 2.0) × 0.0, stretched using 177.80537fil, contains 10 items
[uses font \ip = trip.tfm [unscaled]]
glue : 4.0 plus 2.0 minus 88.0 [interword space]
glue : 4.0 plus 2.0 minus 88.0 [interword space]
text : \ip b [1 char, wd=3.0pt] [`b = "62 = 98]
glue : 4.0 plus 2.0 minus 88.0 [interword space]
$math : inserting \mathsurround=0.0pt before starting math formula
math$ : inserting \mathsurround=0.0pt after ending math formula
glue : 0.0 plus 1.0fil minus 1.0fil [\hss]
glue : 4.0 plus 2.0 minus 88.0 [interword space]
text : \ip b [1 char, wd=3.0pt] [`b = "62 = 98]
glue : 4.0 plus 2.0 minus 88.0 [interword space]
glue : 0.0154 minus 3.21002 [from \tabskip]
hbox : [id=746] (0.0 + 0.0) × 106.9846 [rigid] [empty]
glue : 0.0154 minus 3.21002 [from \tabskip]
hbox : [id=747] (0.0 + 0.0) × 100.0 [rigid] [empty]
glue : 4.49998 plus 7227.0 [from \tabskip]
hbox : [id=748] (8.0 + 2.0) × 0.0 [rigid] [empty]
glue : 0.0154 minus 3.21002 [from \tabskip]
glue : 8.0 [\baselineskip (adjusted)]
hbox : [id=749] (0.0 + 0.0) × 205.12613, shrunk using -0.5, contains 3 items
glue : 0.0154 minus 3.21002 [from \tabskip]
hbox : [id=750] (0.0 + 0.0) × 0.0 [rigid] [empty]
glue : 0.0154 minus 3.21002 [from \tabskip]
glue : 0.0 plus 40.0 [from \lineskip]
hbox : [id=751] (0.0 + 0.0) × 205.12613, shrunk using -0.5, contains 5 items
glue : 0.0154 minus 3.21002 [from \tabskip]
hbox : [id=752] (0.0 + 0.0) × 0.0 [rigid] [empty]
glue : 0.0154 minus 3.21002 [from \tabskip]
hbox : [id=753] (0.0 + 0.0) × 106.9846, stretched using 0.0 [empty]
glue : 0.0154 minus 3.21002 [from \tabskip]
mark : {a} [1 char]
mark : {b} [1 char]

```

No delayed output items to execute.

<<<< Page 14 done >>>>

```

{}: leaving simple group [level 2 at line 345]
  restoring [register] \box254 to void
{}: leaving \output group [level 1 at line 345]
  restoring [parameter] \hoffset to 0.0pt
    [parameter] \showboxdepth to 1
    [parameter] \showboxbreadth to 2
    [parameter] \tracingcommands to 2
    [parameter] \looseness to -1

```

Returning from \output

> vertical mode

```

{\newlinechar}: Y [was ^^@]          [^Y = "59 = 89]
{\global}

```

>ERROR< | Prefix "\global" can't modify \unskip". Ignoring the prefix.

```

Line 346 | \newlinechar^Y\global\unskip\show^^Y\newlinechar\lastpenalty\unpenalty\unkern
          | ^^^^^^^^

```

```

Warning : Custom \newlinechar = [^Y = "59 = 89] found in last message's text was left alone.
         : [JSBox doesn't modify internally generated message strings, context dumps, or traces]

```

```

{\unskip}: [ignoring; last item is wrong type]

```

Line 346 | \show ^^Y

the character ^^Y

```

{\newlinechar} ...
  {\lastpenalty}: 10000 [never]
.. {\newlinechar}: 10000 [disabled]

```

```

Warning : ␣ is a legal Unicode, but not an 8-bit, character code [^␣ = ^u2710 = 10000].
         : [JSBox features, which support 21-bit Unicode character values, are not enabled.]

```

```

Line 346 : \newlinechar^Y\global\unskip\show^^Y\newlinechar\lastpenalty\unpenalty\unkern
          | ^^^^^^^^^^^^^^^
          |
          | {\unpenalty}

```

>ERROR< | No final penalty to remove using "\unpenalty". List is empty.

```

Line 346 | \newlinechar^Y\global\unskip\show^^Y\newlinechar\lastpenalty\unpenalty\unkern
          | ^^^^^^^^^^^^^^^
          |
          | {\unkern}

```

>ERROR< | No final kern to remove using "\unkern". List is empty.

```

Line 346 | \newlinechar^Y\global\unskip\show^^Y\newlinechar\lastpenalty\unpenalty\unkern
          | ^^^^^^^^^^^^^^^
          |
          | {\lastbox} ...

```

>ERROR< | The current page is empty. Using a void box instead.

```

Line 347 | \lastbox\penalty5\message{\the\lastpenalty\the\newlinechar}\textfont16=\relax
          | ^^^^^^^^

```

```

.. {\lastbox}: \lastbox = void [nothing appended]
  {\penalty}: 5 [appending to vertical list]
  {\message} ...
    {\the} ...
      {\lastpenalty}: 5
... {\the}: value converted to text
  {\the} ...
    {\newlinechar}: ␣ = [^␣ = ^u2710 = 10000] [parameter]
... {\the}: value converted to text

```

```

.. {\message}: [to "trip.log" and terminal]

510000

  {\textfont} ...

>ERROR< | Found 16. Expecting a math font family between 0 and 15. Using 0 instead.
Line 347 | \lastbox\penalty5\message{\the\lastpenalty\the\newlinechar}\textfont16=\relax
                                                ^^

>ERROR< | Found "\relax". Expecting \font, a name defined with \font, or a font family. Using \nullfont.
Line 347 | \lastbox\penalty5\message{\the\lastpenalty\the\newlinechar}\textfont16=\relax
                                                ^^^^^^

.. {\textfont}:      (family 0) \nullfont [no change]
  {\relax}
  {\outer}
  {\def} ...

>ERROR< | Found '{'. Expecting a macro name or active character to be defined.
Line 348 | \outer\def{ }?
          ^

.. {\def}: \MISSINGNAME [internal]->
  {?}: [postponing character] starting new paragraph first
>> horizontal mode
  {?}: [character]

Warning : Ignoring missing character [ `? = "3F = 63]. It's not available in font \ip [from trip.tfm].
Line 348 : \outer\def{ }?
          ^

  { } : appending font's inter-word glue [4.0 plus 2.0 minus 88.0]
  {\dimen}: \dimen5 = -16383.99998pt [was 20.0pt]
  {\showthe} ...
    {\dimen}: -16383.99998pt [= \dimen5]
.. {\showthe}:

Line 349 | \showthe \dimen5
-16383.99998pt

  {\dimen} ...

>ERROR< | Dimension will be too large after converting from points.
        | The maximum is about 32767 points (32767.99998 to be exact).
Line 350 | \dimen6=-'40000pt\showthe\dimen6 % this should overflow
          ^^^^^^^^^^

.. {\dimen}: \dimen6 = -16383.99998pt [was 0.0pt]
  {\showthe} ...
    {\dimen}: -16383.99998pt [= \dimen6]
.. {\showthe}:

Line 350 | \showthe \dimen6
-16383.99998pt

  {\dimen} ...
    {\dimen}: -16383.99998pt [= \dimen5] [scaling by 0.51]
.. {\dimen}: \dimen7 = -8355.74998pt [was 0.0pt]
  {\showthe} ...
    {\dimen}: -8355.74998pt [= \dimen7]
.. {\showthe}:

Line 351 | \showthe \dimen7

```

-8355.74998pt

{\multiply}: \dimen7 [-8355.74998 * 2 = -16711.49997]pt ...

>ERROR< | A \multiply result -16711.49997 is outside the TeX range [-16383.99998,16383.99998]. Keeping original value.
| [JSBox features, which support larger limits, are not enabled.]

Line 351 | \dimen7=.51\dimen5\showthe\dimen7 \multiply\dimen7 2\showthe\dimen7

{\showthe} ...

{\dimen}: -8355.74998pt [= \dimen7]

.. {\showthe}:

Line 351 | \showthe \dimen7

-8355.74998pt

{\a^^@^^@}

>ERROR< | Undefined control sequence "\a^^@^^@".

Line 352 | \a^^@^^@ % an undefined control sequence followed by invalid character
| ^^^^^^^

{\relax [internal]}

>ERROR< | Scanned an invalid character (@). Ignoring it.

Line 352 | \a^^@^^@ % an undefined control sequence followed by invalid character
| ^

{{}: entering simple group [level 1 at line 353]

{\aftergroup}: postponing \gobble until after this simple group ends

{\aftergroup}: postponing \c until after this simple group ends

{\gdef}: \b->\c

{ }: appending font's inter-word glue [4.0 plus 2.0 minus 88.0]

{\def}: \c->

{ }: appending font's inter-word glue [4.0 plus 2.0 minus 88.0]

Calling \b ->\c

Calling \c ->

Returning from \c [empty body]

Returning from \b while collecting next arguments

{{}: leaving simple group [level 1 at line 353]

restoring [macro] \c to undefined

inserting \c onto input [from earlier \aftergroup]

inserting \gobble onto input [from earlier \aftergroup]

Calling \gobble #1->

#1: \c

Returning from \gobble [empty body]

{ }: appending font's inter-word glue [4.0 plus 2.0 minus 88.0]

{\def}: \b#1\par ->

{ }: appending font's inter-word glue [4.0 plus 2.0 minus 88.0]

{\outer}

{\gdef}: \a^^@^^@#1\par #2->

{\tokens} ...

>ERROR< | Runaway!? Found \outer macro \a^^@^^@ while reading brace-enclosed text.

| A missing '}' is the likely culprit. Inserting a '}' in front of \a^^@^^@ and continuing.

Line 355 | \outer\gdef\a^^@^^@#1\par#2{\tokens{\a^^@^^@\par!

"trip.tex"[Line 355]

```

.. {\tokens}: \toks0 = { }
      was->

Calling \a^^@^^@a #1\par #2->
      #1:
      #2: !
Returning from \a^^@^^@a [empty body]
{ }: appending font's inter-word glue [4.0 plus 2.0 minus 88.0]
{\long}
{\gdef}: \l#1->
{ }: appending font's inter-word glue [4.0 plus 2.0 minus 88.0]
{\outer}
{\global}
{\long}
{\edef}: \lo ...

>ERROR< | Non-consecutive macro parameter number. Expecting a #9, but found #8. Inserting '9' between # and 8.
Line 357 | \outer\global\long\edef\lo#1#2U3#4#5#6#7#8#8#9#\relax}
      ^^^

>ERROR< | No more than 9 macro parameters can be handled. Ignoring the '#'.
Line 357 | \outer\global\long\edef\lo#1#2U3#4#5#6#7#8#8#9#\relax}
      ^

.. {\edef}: \lo#1#2U3#4#5#6#7#8#989{->\relax {
{ }: appending font's inter-word glue [4.0 plus 2.0 minus 88.0]
{\ifcase}: looking for case 1
{\or}: [case 1 matched!]

      Calling \l #1->
      #1: \par
      Returning from \l [empty body]

      Calling \b #1\par ->

>ERROR< | Unexpected end of paragraph while collecting argument #1 of \b.
| Check for missing } or missing \long prefix.
Line 358 | \ifcase 1 \undefined\or\l\par\b{\par % occurrence of \par aborts \b
      ^^^^^

      {\par}: [ending paragraph]
Typesetting paragraph #29 at source line 358:
[]
Relevant parameters:
\vsiz=16383.99998, \hsiz=100.0, \leftskip=3.0, \rightskip=0.0, \vfuzz=0.0, \hfuzz=0.0
\pretolerance=0, \tolerance=10000, \emergencystretch=0.0 [no third pass]
\looseness=-1 [1 line shorter], \hbadness=0
\linepenalty=1, \interlinepenalty=-125
\clubpenalty=125, \brokenpenalty=37, \hyphenpenalty=88, \exhyphenpenalty=89
\uchyph=1 [permit uppercase word hyphenation]
\doublehyphendemerits=1000, \finalhyphendemerits=10000, \adjdemerits=782
\parshape=normal, \hangindent=0.0, \hangafter=1 [hanging indentation, if any, begins on line 2]

Finding line-breaks: [@=active @@=passive b=badness p=penalty d=demerits t=total demerits]
@firstpass
@secondpass
[]
@ via @@0 b=10000 p=0 d=100000782
@@1: line 1.0 t=100000782 -> @@0

@\par via @@0 b=22 p=-10000 d=529

```

```

@@2: line 1.1- t=529 -> @@0
@\par via @@1 b=10000 p=-10000 d=100000000
@@3: line 2.0- t=200000782 -> @@1

```

```

Warning : Found a loose horizontal box [id=755] [badness=22] in paragraph at lines 348--358.
Line 358 : \ifcase 1 \undefined\or\l\par\b{\par % occurrence of \par aborts \b

```

```

[]
Loose hbox : [id=755] (0.0 + 0.0) x 100.0, stretched using 0.60527, contains 12 items
glue : 3.0 [from \leftskip]
hbox : [id=754] (0.0 + 0.0) x 0.0 [rigid] [empty]
etc. : 10 unshown items ... [\showboxbreadth=2]

```

```

%% goal height=16383.99998, max depth=2.0

```

```

> vertical mode
{\par}

```

```

Calling \b #1\par ->

```

```

#1: \l \undefined

```

```

Returning from \b [empty body]

```

```

{\else}: false [previous case 1 was matched]

```

```

{\fi}: [end of \ifcase on line 358]

```

```

{\ifcase} ...

```

```

{\iftrue}: true

```

```

.. {\ifcase}: looking for case -1 [only matches an \else clause, if any]

```

```

{\else}: false

```

```

{\fi}: [end of \iftrue on line 360]

```

```

{\ifcase}: looking for case 0 [matched]

```

```

{\relax [internal]}

```

```

{\fi}: [end of \ifcase on line 360]

```

```

{\else}: true [no previous case matched -1]

```

```

{\ifcase}: looking for case 5

```

```

{\fi}: [end of \ifcase on line 360]

```

```

{\fi}: [end of \ifcase on line 360] [no case matched]

```

```

{\catcode}: \^^C <- 6 [macro parameter] [was 12 = character] [\^^C = "03 = 3 = <ETX>]

```

```

{\let}: \^^C = \halign

```

```

{\def}: \^^@{->{

```

```

{ } : [ignored in vertical mode]

```

```

{\^^C}: building successive rows, each containing entries in horizontally tabbed columns ...

```

```

>> internal vertical mode

```

```

{{}: entering \halign group [level 1 at line 364]

```

```

.. {\^^C}: [preamble] recording templates for each column ...

```

```

{{}: [braces unbalanced by 1]

```

```

{\span}: the next token "\ifcase" will be expanded

```

```

{\ifcase}: looking for case 3

```

```

>ERROR< | Runaway!? Found \outer macro \lo while skipping material in an \ifcase.
| A missing \fi is the likely culprit. Inserting a \fi in front of \lo and continuing.
Line 364 | \^^C{{\span\ifcase3 \lo#\cr.....89{\cr} % runaway preamble?

```

```

{\fi [internal]}: [end of \ifcase on line 364]

```

```

>ERROR< | Runaway!? Found \outer macro \lo while recording column 1's template prefix in \^^C's preamble.
| Prefix: {
| Inserting a \cr and } in front of \lo.

```

```

Line 364 | \^^C{{\span\ifcase3 \lo#\cr.....89{\cr} % runaway preamble?

```

```

{ }

```



```
{\xdef}: \a ...
```

```
Calling \d #1\d ->#1#1
```

```
#1: ##1
```

```
Returning from \d, resuming reading from file "trip.tex"
```

```
Calling \l #1->
```

```
#1: ##2
```

```
Returning from \l [empty body]
```

```
Calling \l #1->
```

```
#1: ##
```

```
Returning from \l [empty body]
```

```
>ERROR< | Runaway!? Found \outer macro \a^^@^^@a while collecting the definition of macro \a.
| Inserting a } in front of \a^^@^^@a and continuing.
Line 366 | \xdef\a^^C1{\d#1\d\l{#2}\l#1\par\a^^@^^@a#1\par# % runaway in definition; #2 OK!
| ^^^^^^^^^
```

```
Calling \a^^@^^@a #1\par #2->
```

```
#1: ##1
```

```
#2: ##
```

```
Returning from \a^^@^^@a [empty body]
```

```
{ } : [ignored in vertical mode]
```

```
Calling \T 12#101001{->-.#1pt{
```

```
>ERROR< | Runaway!? Found \outer macro \a^^@^^@a while collecting initial delimiter of \T.
| Inserting a \par in front of \a^^@^^@a, treating \T temporarily as \long, and continuing.
Line 367 | \T^^?a^^@^^@a\par{\lo\par % runaway in use
| ^^^^^^^^^
```

```
>ERROR< | Found "\par". Macro \T's use does not match the required initial
| delimiters in its definition. Ignoring call.
Line 367 | \T^^?a^^@^^@a\par{\lo\par % runaway in use
| ^^^^^^^^^
```

```
Calling \a^^@^^@a #1\par #2->
```

```
>ERROR< | Runaway!? Found \outer macro \lo while collecting delimiter or argument #2 of \a^^@^^@a.
| Inserting a \par in front of \lo, treating \a^^@^^@a temporarily as \long, and continuing.
Line 367 | \T^^?a^^@^^@a\par{\lo\par % runaway in use
| ^^^
```

```
{\par}
```

```
{\par}
```

```
Calling \lo #1#2U3#4#5#6#7#8#989{->\relax {
```

```
>ERROR< | Runaway!? Found \outer macro \lo while collecting delimiter or argument #2 of \lo.
| Inserting a \par in front of \lo, treating \lo temporarily as \long, and continuing.
Line 368 | \lo\par\par\par P \par\par\par\par\par\par89{} \muskip3=-\thickmuskip
| ^^^
```

```
{\par}
```

```
{\par}
```

```
Calling \lo #1#2U3#4#5#6#7#8#989{->\relax {
```

```
#1: \par
```

```
#2: \par
```

```
U3: \par
```



```

#4: P
#5: \par
#6: \par
#7: \par
#8: \par
#9: \par \par
{\relax}
{{}: entering simple group [level 1 at line 368]
Returning from \lo, resuming reading from file "trip.tex"
{}}: leaving simple group [level 1 at line 368]
{ }: [ignored in vertical mode]
{\muskip} ...
{\thickmuskip}: -4.0mu [parameter]
.. {\muskip}: \muskip3 = 4.0mu [was 0.0mu]
{\muskipdef}: \shnip = \muskip3
{\shnip} ...
{\muskip}: 4.0mu [= \muskip3]
{\shnip}: 4.0mu [= \muskip3] [scaling by 0.5]
.. {\shnip}: \muskip3 = 5.0mu plus 4.0mu minus 2.0mu [was 4.0mu]
{\showthe} ...
{\shnip}: 5.0mu plus 4.0mu minus 2.0mu [= \muskip3]
.. {\showthe}:

Line 369 | \showthe \shnip [\muskip3]
5.0mu plus 4.0mu minus 2.0mu

{{}: entering simple group [level 1 at line 370]
{\advance} ...
{\shkip}: -6.0pt plus 3.0filll minus 9.0fil [= \skip100]

>ERROR< | Can't convert math glue to skip glue. Assuming 1pt = 1mu.
Line 370 | {\advance\shnip by \shkip\endlinechar-1
          ^^^^^^
... {\advance}: \shnip [ (5.0mu plus 4.0mu minus 2.0mu) + (-6.0mu plus 3.0filll minus 9.0fil) = (-1.0mu plus 3.0filll minus 9.0fil) ]
{\endlinechar}: -1 [disabled]
{\divide} ...
{\shkip}: -6.0pt plus 3.0filll minus 9.0fil [= \skip100]
... {\divide}: \shnip [ (-1.0mu plus 3.0filll minus 9.0fil) / -393216 = (0.0mu minus -0.00002fil) ]
[setting \lastskiprem to -1.0mu plus 3.0mu minus 3.0mu]
{\endlinechar}: } [was -1 [disabled]] [ ` = "7D = 125]
{\global}
{\multiply}: \shnip [ (0.0mu minus -0.00002fil) * 2 = (0.0mu minus -0.00003fil) ]
{\showthe} ...
{\shnip}: 0.0mu minus -0.00003fil [= \muskip3]
... {\showthe}:

Line 373 | \showthe \shnip [\muskip3]
0.0mu minus -0.00003fil

{}}: leaving simple group [level 1 at line 370]
retaining [register] \muskip3 as 0.0mu minus -0.00003fil
restoring [parameter] \endlinechar to ^M
{\divide}: \count88 [0 / 0 divide by 0 overflows] [no change]

>ERROR< | Integer divide by 0. Leaving original value unchanged.
Line 375 | By ^p \toks1={\a\test}
          ^^^^^
{\toks}: \toks1 = {\a \test }
was->

```

```

{ } : [ignored in vertical mode]
{^} : [superscript]

>ERROR< | Found '^'. A superscript character is only legal in math mode. Inserting a '$' to enter math mode.
Line 376 | ^\leaders\vrule\mskip\shnip M\leaders\hrule\nonscript\hskip\thinmuskip
          ^
    {$}: [postponing it, starting new paragraph first]
% t=20.0 plus 1.0fil          g=16383.99998 b=0 p=0 c=0#    [# = best break so far]

>> horizontal mode
    {$}: entering math group [level 1 at line 376]
>>> math mode
    {^}: [superscript]
    {\leaders}

>ERROR< | Found "\leaders". Expecting a math character or left brace after '^'. Inserting '{'.
Line 376 | ^\leaders\vrule\mskip\shnip M\leaders\hrule\nonscript\hskip\thinmuskip
          ^^^^^^^
    {{}: entering superscript math group [level 2 at line 376]
    {\leaders} ...

"trip.tex"[Line 376]
    {\vrule}
    {\vrule}: rule : (ht+dp)=(***) wd=0.4

>ERROR< | Found "\mskip". Expecting \hskip or \vskip for a leader in math mode. Ignoring leaders.
Line 376 | ^\leaders\vrule\mskip\shnip M\leaders\hrule\nonscript\hskip\thinmuskip
          ^^^^^^^
    {\mskip} ...
    {\shnip}: 0.0mu minus -0.00003fil [= \muskip3]
... {\mskip}: 0.0mu minus -0.00003fil appended
    {M}: letter maps (via \mathcode) to "714D [class 7 (inner);    \fam 1 \char "4D = 77 = M]
    {\leaders} ...
    {\hrule}
    {\hrule}: rule : (ht+dp)=(0.4+0.0) wd=*

>ERROR< | Found "\nonscript". Expecting \hskip or \vskip for a leader in math mode. Ignoring leaders.
Line 376 | ^\leaders\vrule\mskip\shnip M\leaders\hrule\nonscript\hskip\thinmuskip
          ^^^^^^^^^^^
    {\nonscript}: inserting 0.0mu glue [suppresses next glue/kern in \scriptstyle or \scriptscriptstyle]
    {\hskip} ...
    {\thinmuskip}: 1.0mu plus 2.0fill minus 3.0mu    [parameter]

>ERROR< | Can't convert math glue to skip glue. Assuming 1pt = 1mu.
Line 376 | ^\leaders\vrule\mskip\shnip M\leaders\hrule\nonscript\hskip\thinmuskip
          ^^^^^^^^^^^^^^^
... {\hskip}: 1.0pt plus 2.0fill minus 3.0pt [appending to horizontal list]
    {\par}: [leaving math mode first]

>ERROR< | Missing '$' inserted in front of "\par" to exit math mode
Line 377 | ^
          ^
    {$}

>ERROR< | Unexpected '$'. Inserting '}' to end current superscript math group context.
Line 377 | ^
          ^
    {}}: leaving superscript math group [level 2 at line 376]

```

```

{ }: leaving math group [level 1 at line 377]
  appending hbox, with \mathsurround=0.0pt on either side
  restoring [parameter] \fam to 0
>> horizontal mode
{\par}: [ending paragraph]

Typesetting paragraph #30 at source line 377:
[]$[]$
Relevant parameters:
 \vsize=16383.99998, \hsize=100.0, \leftskip=3.0, \rightskip=0.0, \vfuzz=0.0, \hfuzz=0.0
 \pretolerance=0, \tolerance=10000, \emergencystretch=0.0 [no third pass]
 \looseness=0 [normal], \hbadness=0
 \linepenalty=1, \interlinepenalty=-125
 \clubpenalty=125, \brokenpenalty=37, \hyphenpenalty=88, \exhyphenpenalty=89
 \uchyph=1 [permit uppercase word hyphenation]
 \doublehyphendemerits=1000, \finalhyphendemerits=100000, \adjdemerits=782
 \parshape=normal, \hangindent=0.0, \hangafter=1 [hanging indentation, if any, begins on line 2]

Finding line-breaks: [@=active @@=passive b=badness p=penalty d=demerits t=total demerits]
@firstpass
@secondpass
[]$[]$
@\par via @@ b=80 p=-10000 d=*
@@1: line 1.1- t=0 -> @@

Warning : Found a loose horizontal box [id=763] [badness=80] in paragraph at lines 376--377.
Line 377 :
  ^
  []$[]$
Loose hbox : [id=763] (8.2 + 0.0) x 100.0, stretched using 0.9301, contains 8 items
  glue : 3.0 [from \leftskip]
  hbox : [id=758] (0.0 + 0.0) x 0.0 [rigid] [empty]
  etc. : 6 unshown items ... [\showboxbreadth=2]

> vertical mode
  {}: entering simple group [level 1 at line 378]
  {\setbox} ...
  {\hbox}
>> restricted horizontal mode
  ... {\setbox}: \box3 = \hbox ...
  {}: entering \hbox group [level 2 at line 378]
  {\vfill}: [changing to vertical mode first]

>ERROR< | Unexpected \vfill. Inserting '}' to end current \hbox group context.
Line 378 | {\setbox3\hbox{\vfill\vsplit 3 0pt}
  ^^^^^^
  {}: leaving \hbox group [level 2 at line 378]
  ... {\setbox}: \box3 = hbox : [id=764] (0.0 + 0.0) x 0.0 [rigid] [empty]
  [was vbox : [id=683] (0.0 + -8.53581) x 0.0 [rigid] [1 item]]

> vertical mode
  {\vfill}: 0.0pt plus 1.0fill [appending to vertical list]
  {\vsplit} ...

>ERROR< | Found an \hbox. The "\vsplit3" command requires a \vbox. Ignoring this box split.
Line 378 | {\setbox3\hbox{\vfill\vsplit 3 0pt}
  ^

>ERROR< | Expecting a "to" after \vsplit3. Inserting it and continuing.
Line 378 | {\setbox3\hbox{\vfill\vsplit 3 0pt}
  ^

```

```

... {\vsplit}: [ignored]
{}}: leaving simple group [level 1 at line 378]
    restoring [register] \box3 to vbox : [id=683] (0.0 + -8.53581) × 0.0 [rigid] [1 item]
{ }: [ignored in vertical mode]
{\def}: \a ...

>ERROR< | Non-consecutive macro parameter number. Expecting a #1, but found #2. Inserting '1' between # and 2.
Line 379 | \def\#2{}
          ^^^
.. {\def}: \a#12->
{ }: [ignored in vertical mode]
{\show}: A    [^A = "41 = 65]

Line 380 | \show A
the letter A

{ }: [ignored in vertical mode]
{\show}: \a^^@^^@a

Line 381 | \show \a^^@^^@a
\outer macro:#1\par #2->

{\show}: (

Line 382 | \show (
macro:->\delimiter "4162362

{ }: [ignored in vertical mode]
{\message} ...
  {\meaning}: Pushing {\long\outer macro:#1#2U3#4#5#6#7#8#989{->\relax {}} [49 chars] onto input
  {\noexpand}: \lo
.. {\message}: [to "trip.log" and terminal]

\long\outer macro:#1#2U3#4#5#6#7#8#989{->\relax {\lo

{ }: [ignored in vertical mode]
{\show}: \^^C

Line 384 | \show \^^C
\halign

{ }: [ignored in vertical mode]
{\show}: \batchmode

Line 385 | \show \batchmode
\batchmode

{\show}: \error

Line 386 | \show \error
undefined

{\showthe} ...
  {\output}: [parameter] ->{\tracingcommands 0\showthe \outputpenalty \showboxbreadth 9999 ... [50 more tokens in list]
.. {\showthe}:

Line 387 | \showthe \output
{\tracingcommands 0\showthe \outputpenalty \showboxbreadth 9999 \showboxdepth 9999 \hoffset 1sp {\setbox 254
=\box 255\shipout \ifvbox 2\ifhbox 254 \error \fi 54\copy 25\fi

```

```

4} \ifvoid 254\relax \else \error \fi }

  {\showthe} ...
  {\thinmuskip}: 1.0mu plus 2.0fill minus 3.0mu [parameter]
.. {\showthe}:

Line 388 | \showthe \thinmuskip
1.0mu plus 2.0fill minus 3.0mu

  {\showthe} ...
  {\fontdimen}: #1 [rightward slant ratio of font \enorm] = -2.0
.. {\showthe}:

Line 389 | \showthe \fontdimen 1 \enorm
-2.0pt

  {\ifx}: 'T'=\span ? [Chr = Cmd] false
  {\else}: true
  {\par}: [building more page]

% t=30.0 plus 42.0 plus 1.0fil minus 8.0          g=16383.99998 b=0 p=0 c=0#   [# = best break so far]

  {\if}: \span=\relax [internal] ? [neither is a character, treated as equal] true
  {\else}: false
  {\else}: still false [ignoring extra \else clause]
  {\else}: still false [ignoring extra \else clause]
  {\fi}: [end of \if on line 390]
{\fi}: [end of \ifx on line 390]
{\ifdim} ...
  {\iftrue}: true

>ERROR< | Found '1', but expecting a comparison operator '<', '=', '>'. Inserting '='.
Line 391 | \ifdim72p\iftrue t1i\fi n\fi\fi \message{\jobname\ifx\lo\lo OK}\fi
          ^
  {\fi}: [end of \iftrue on line 391]
.. {\ifdim}: 72.0 = 72.26999 ? false
  {\fi}: [end of \ifdim on line 391]
{\fi}

>ERROR< | A \fi has no earlier matching \if or similar test. Ignoring the \fi.
Line 391 | \ifdim72p\iftrue t1i\fi n\fi\fi \message{\jobname\ifx\lo\lo OK}\fi
          ^^^^
  {\message} ...
  {\jobname}: Pushing job name as characters onto input
  {\ifx}: \lo=\lo ? [same token list] true
.. {\message}: [to "trip.log" and terminal]

AnonJobOK

  {\fi}: [end of \ifx on line 391]
{\hangindent}: 2.0pt [was 0.0pt]
{{}: entering simple group [level 1 at line 393]
  {\if}: '1' = '1' ? true
  { }: [ignored in vertical mode]
  {\prevgraf} ...
  {\if}: '0' = '1' ? false
  {\else}: true
... {\prevgraf}: -1 [oops]

```



```

Line 396 | \setbox3\hbox{\vrule}&\moveleft\lastbox % can't do that in math mode
          ^
          {\moveleft}

>ERROR< | Ignoring \moveleft. It is illegal in math mode.
Line 396 | \setbox3\hbox{\vrule}&\moveleft\lastbox % can't do that in math mode
          ^^^^^^^^^
          {\lastbox} ...

>ERROR< | \lastbox can't be used in math mode. Using a void box instead.
Line 396 | \setbox3\hbox{\vrule}&\moveleft\lastbox % can't do that in math mode
          ^^^^^^^^^
... {\lastbox}: \lastbox = void [nothing appended]
   {\unhbox}: \box234 is void
   {\unhcopy}: copying contents of \box3 to horizontal list

>ERROR< | Can't unbox \box3 while in a math mode.
Line 397 | \unhbox234\unhcopy3\accent\x\vfill\vfil\vfilneg\vss % \vfill exits, \vss bad
          ^
          {\accent} ...

>ERROR< | Found "\accent". In math mode, \mathaccent must be used. Using it now, but it can look bad.
Line 397 | \unhbox234\unhcopy3\accent\x\vfill\vfil\vfilneg\vss % \vfill exits, \vss bad
          ^
          {\x}: ^c8 = [È = "C8 = 200]
... {\accent}: ^c8 [È = "C8 = 200]
   {\vfill}

>ERROR< | Found "\vfill". Expecting a math character or left brace after "\accent". Inserting '{'.
Line 397 | \unhbox234\unhcopy3\accent\x\vfill\vfil\vfilneg\vss % \vfill exits, \vss bad
          ^^^^^^^
          {{}: entering \mathaccent group [level 2 at line 397]
           {\vfill}: [exiting math mode first]

>ERROR< | Missing '$' inserted in front of "\vfill" to exit math mode
Line 397 | \unhbox234\unhcopy3\accent\x\vfill\vfil\vfilneg\vss % \vfill exits, \vss bad
          ^^^^^^^

"trip.tex"[Line 397]

   {$}

>ERROR< | Unexpected '$'. Inserting '}' to end current \mathaccent group context.
Line 397 | \unhbox234\unhcopy3\accent\x\vfill\vfil\vfilneg\vss % \vfill exits, \vss bad
          ^^^^^^^
          {}}: leaving \mathaccent group [level 2 at line 397]
   {$}: leaving math group [level 1 at line 397]
       appending hbox, with \mathsurround=0.0pt on either side

>ERROR< | The character ^c8 = [È = "C8 = 200] somewhere within the now-ending math formula can't be typeset.
          | Its font, \textfont 0, hasn't been declared. Ignoring character.
Line 397 | \unhbox234\unhcopy3\accent\x\vfill\vfil\vfilneg\vss % \vfill exits, \vss bad
          ^^^^^^^
          restoring [register] \box3 to vbox : [id=683] (0.0 + -8.53581) × 0.0 [rigid] [1 item]
          [parameter] \fam to 0

>> horizontal mode
   {\vfill}: [changing to vertical mode first]
   {\par}: [ending paragraph]

```

Typesetting paragraph #31 at source line 397:

[]\$[]\$

Relevant parameters:

```
\size=16383.99998, \hsize=100.0, \leftskip=3.0, \rightskip=0.0, \vfuzz=0.0, \hfuzz=0.0
\pretolerance=0, \tolerance=10000, \emergencystretch=0.0 [no third pass]
\looseness=0 [normal], \hbadness=0
\linepenalty=1, \interlinepenalty=-125
\clubpenalty=125, \brokenpenalty=37, \hyphenpenalty=88, \exhyphenpenalty=89
\uchyph=1 [permit uppercase word hyphenation]
\doublehyphendemerits=1000, \finalhyphendemerits=100000, \adjdemerits=782
\parshape=normal, \hangindent=2.0, \hangafter=2 [hanging indentation, if any, begins on line 3]
```

Finding line-breaks: [@=active @@=passive b=badness p=penalty d=demerits t=total demerits]

@firstpass

@secondpass

[]\$[]\$

@\par via @@ b=91 p=-10000 d=*

@@1: line 1.1- t=0 -> @@0

Warning : Found a loose horizontal box [id=771] [badness=91] in paragraph at lines 395--397.

Line 397 : \unhbox234\unhcopy3\accent\X\vfill\vfil\vfilneg\vss % \vfill exits, \vss bad

[]\$[]\$

```
Loose hbox : [id=771] (0.0 + 0.0) x 100.0, stretched using 0.97, contains 9 items
  glue : 3.0 [from \leftskip]
  hbox : [id=765] (0.0 + 0.0) x 0.0 [rigid] [empty]
  etc. : 7 unshown items ... [\showboxbreadth=2]
```

> vertical mode

```
{\vfill}: 0.0pt plus 1.0fill [appending to vertical list]
{\vfil}: 0.0pt plus 1.0fil [appending to vertical list]
{\vfilneg}: 0.0pt plus -1.0fil [appending to vertical list]
{\vss}: 0.0pt plus 1.0fil minus 1.0fil [appending to vertical list]
{\def}: \a ...
```

```
>ERROR< | Unmatched '}' in definition of \a.
          | Inserting a '{' in front of '}' to create an empty definition.
Line 398 | \def\^a{\let\^a\^xyzy\^c\^name \^a\^endcsname}
```

.. {\def}: \a->

```
{{}: entering simple group [level 1 at line 398]
  {\let}: \a = undefined
  {\csname}: 1 character collected
  {\endcsname}: \a constructed [=relax [internal]]
  {\a}: [=relax]
{}}: leaving simple group [level 1 at line 398]
  restoring [name] \a to macro:->
{ } : [ignored in vertical mode]
{\def}: \a->ab \par \c
{\def}: \b->ab \par \c
{\let}: \c = \b = macro:->ab \par \c
{\def}: \b->\a \c
{ } : [ignored in vertical mode]
{\ifx}: \a=\ifx ? [by CmdCode] false
{\else}: true
  {\expandafter}: postponing {\ifx} until after expanding {\b}
```

Calling \b ->\a \c

```
{\ifx}: \a=\c ? [same length, all tokens match] true
```



```

Returning from \b, resuming reading from file "trip.tex"
  {\ifinner}: [now vertical mode] ? false
  {\else}: true
    {\relax}
  {\fi}: [end of \ifinner on line 402]
  {\else}: false
  {\fi}: [end of \ifx on line 402]
{\fi}: [end of \ifx on line 401]
{\ifvmode}: [now vertical mode] ? true
  {$}: [postponing it, starting new paragraph first]

% t=40.0 plus 84.0 plus 1.0fil plus 1.0fill minus 16.0 g=16383.99998 b=0 p=0 c=0# [# = best break so far]

>ERROR< | Page contains vertical glue [0.0pt plus 1.0fil minus 1.0fil] with infinite shrinkage.
| To avoid compressing page to one line, treating this as finite shrinkage.
Line 403 | \ifvmode$\ifmmode\hbox tt\ifhmode\hfilneg\else\error\fi}$\fi\fi % missing {
          ^
>> horizontal mode
  {$}: entering math group [level 1 at line 403]
>>> math mode
  {\ifmmode}: [now math mode] ? true
  {\hbox} ...

>ERROR< | Found 't'. Expecting a left brace after "\hbox". Inserting '{}'.
Line 403 | \ifvmode$\ifmmode\hbox tt\ifhmode\hfilneg\else\error\fi}$\fi\fi % missing {
          ^
>>>> restricted horizontal mode
  ... {\hbox} ...
    {}: entering \hbox group [level 2 at line 403]
    {tt}: [2 letters]
    {\ifhmode}: [now restricted horizontal mode] ? true
    {\hfilneg}: 0.0pt plus -1.0fil [appending to horizontal list]
    {\else}: false
    {\fi}: [end of \ifhmode on line 403]
  {}: leaving \hbox group [level 2 at line 403]
  ... {\hbox}: appending hbox : [id=773] (0.0 + 0.0) × 0.0 [rigid] [3 items]
  {$}: leaving math group [level 1 at line 403]
  appending hbox, with \mathsurround=0.0pt on either side
  restoring [parameter] \fam to 0
>> horizontal mode
  {\fi}: [end of \ifmmode on line 403]
  {\fi}: [end of \ifvmode on line 403]
  {\noalign}: [oops]

>ERROR< | Ignoring \noalign. It is only legal just after a \cr or \cr cr in an alignment context.
Line 404 | \noalign\omit\endcsname % these are extra
          ^^^^^^^^^
  {\omit}: [oops]

>ERROR< | Ignoring \omit. It is illegal outside an \halign{...} or \valign{...} context.
Line 404 | \noalign\omit\endcsname % these are extra
          ^^^^^
  {\endcsname}

>ERROR< | Ignoring \endcsname. There was no previous \csname for it to end.
Line 404 | \noalign\omit\endcsname % these are extra
          ^^^^^^^^^^^^^
  {\fontdimen} ...

```

```

>ERROR< | Found '='. Expecting \font, a name defined with \font, or a font family. Using \nullfont.
Line 405 | \fontdimen 1000=20\varunit\showthe\fontdimen1000\trip\let\PAR=\par
          ^^^^

>ERROR< | Font ? [nullfont.tfm at 1.0pt] is not the most recently loaded font [\enorm = trip.tfm at 2047.99998pt].
          | Can't expand its \fontdimen table to 1000 entries [12 max].
          | [JSBox features, which support dynamic limits at any time, are not enabled.]
Line 405 | \fontdimen 1000=20\varunit\showthe\fontdimen1000\trip\let\PAR=\par
          ^^^^
          {\varunit}: 1.001pt  [= \dimen222] [scaling by 20.0]
.. {\fontdimen}: Dimension #0 [garbage] of font ? set to 20.02014pt
   {\showthe} ...
   {\fontdimen} ...

>ERROR< | Font \ip [trip.tfm [unscaled]] is not the most recently loaded font [\enorm = trip.tfm at 2047.99998pt].
          | Can't expand its \fontdimen table to 1000 entries [13 max].
          | [JSBox features, which support dynamic limits at any time, are not enabled.]
Line 405 | \fontdimen 1000=20\varunit\showthe\fontdimen1000\trip\let\PAR=\par
          ^^^^
          ... {\fontdimen}: #0 [default value (0.0) of font \ip] = 0.0
.. {\showthe}:

Line 405 | \showthe \fontdimen 0 \ip
0.0pt

{\let}: \PAR = \par
{\gdef}: \par->\relax \PAR
{\expandafter}: postponing {\ifx} until after expanding {\csname}
{\csname}: 5 characters collected
{\endcsname}: \xyzy constructed [= \relax [internal]]
{\ifx}: \xyzy=\relax ? true
       {\mag}: 1999 [was 2000]

       Calling \par ->\relax \PAR
       {\relax}
       {\PAR}: [ending paragraph]

Typesetting paragraph #32 at source line 405:
[]$[]$
Relevant parameters:
 \vsize=16383.99998, \hsize=100.0, \leftskip=3.0, \rightskip=0.0, \vfuzz=0.0, \hfuzz=0.0
 \pretolerance=0, \tolerance=10000, \emergencystretch=0.0 [no third pass]
 \looseness=0 [normal], \hbadness=0
 \linepenalty=1, \interlinepenalty=-125
 \clubpenalty=125, \brokenpenalty=37, \hyphenpenalty=88, \exhyphenpenalty=89
 \uchyph=1 [permit uppercase word hyphenation]
 \doublehyphendemerits=1000, \finalhyphendemerits=100000, \adjdemerits=782
 \parshape=normal, \hangindent=0.0, \hangafter=1 [hanging indentation, if any, begins on line 2]

Finding line-breaks: [@=active @@=passive b=badness p=penalty d=demerits t=total demerits]
@firstpass
@secondpass
[]$[]$
@\par via @@0 b=91 p=-10000 d=*
@@1: line 1.1- t=0 -> @@0

Context : "trip.tex"[Line 407] > \par

Warning : Found a loose horizontal box [id=775] [badness=91] in paragraph at lines 403--407.
TokList : \relax \PAR

```

```

:      ^^^^
Line 407 : ^
[]$[]$
Loose hbox : [id=775] (0.0 + 0.0) x 100.0, stretched using 0.97, contains 8 items
  glue : 3.0 [from \leftskip]
  hbox : [id=772] (0.0 + 0.0) x 0.0 [rigid] [empty]
  etc. : 6 unshown items ... [\showboxbreadth=2]

Returning from \par, resuming reading from file "trip.tex"
> vertical mode
  {\fi}: [end of \ifx on line 406]
  {\noindent}: [starting new paragraph]

% t=50.0 plus 126.0 plus 2.0fil plus 2.0fill minus 25.0 g=16383.99998 b=0 p=0 c=0# [# = best break so far]

>> horizontal mode
  {}: entering simple group [level 1 at line 408]
  {\halign}: [changing to vertical mode first]

Calling \par ->\relax \PAR
  {\relax}
  {\PAR}: [ending paragraph]
Returning from \par, resuming reading from file "trip.tex"
> vertical mode
  {\halign}: building successive rows, each containing entries in horizontally tabbed columns ...

Context | "trip.tex"[Line 408]

>ERROR< | The current magnification [1999] has changed from its previous value 2000.
| Magnification must remain constant during a job. Re-installing 2000.
Line 408 | \fi\noindent{\halign to 1trueemm\expandafter{\csname#\endcsname#&#\l{#}\cr
          ^
          {\expandafter}: postponing {} until after expanding {\csname}
          {\csname}: 1 character collected
          {\endcsname}: \# constructed [= \relax [internal]]
>> internal vertical mode
  {}: entering \halign group [level 2 at line 408]
... {\halign}: [preamble] recording templates for each column ...
  {\#}
  {\#}: end of prefix material for column 1's template; collecting suffix
  {\&}: end of column 1's suffix and template, collecting prefix of column 2's template
  {\#}: end of prefix material for column 2's template; collecting suffix
  {\&}: end of column 2's suffix and template, collecting prefix of column 3's template
  {\l}
  {}: [braces unbalanced by 1]
  {\#}: end of prefix material for column 3's template [braces not balanced]; collecting suffix
  {}: braces are balanced
  {\cr}: end of column 3's suffix and template
... {\halign}: preamble has declared templates for 3 columns ...
  \tabskip [= 0.0154 minus 3.21002]
  column 1 prefix: \#
  \tabskip
  column 2: [no extra material to insert]
  \tabskip
  column 3 prefix: \l {
  suffix: }
  \tabskip
  {column entry}: entering hidden alignment item group [level 3 at line 408]

```

```

>>>> restricted horizontal mode
... {\halign}: [row 1] building column 1, inserting its template prefix ...
      {\#}: [=relax]
      {\global}
      {\futurelet} ...
      {&}: material in column 1 of row 1 now ending; no suffix
... {\futurelet}: [peeked past \foo] \endt = \outer endtemplate [internal]
      {\foo}

>ERROR< | Undefined control sequence "\foo".
Line 409 | \global\futurelet\endt\foo&\show\endt&$$&&.)
          ^
          {\relax [internal]}
          {column entry}: leaving hidden alignment item group [level 3 at line 408]
          {column entry}: entering hidden alignment item group [level 3 at line 409]
... {\halign}: [row 1] ending column 1, building column 2 [no prefix] ...
      {\show}: \endt

Line 409 | \show \endt
\outer endtemplate [internal]

      {&}: material in column 2 of row 1 now ending; no suffix
      {column entry}: leaving hidden alignment item group [level 3 at line 409]
      {column entry}: entering hidden alignment item group [level 3 at line 409]
... {\halign}: [row 1] ending column 2, building column 3, inserting its template prefix ...

      Calling \l #1->
      {&}: material in column 3 of row 1 now ending; inserting template suffix
      Calling \l (cont'd)
          #1: $
      Returning from \l [empty body]

>ERROR< | Found '&'. The preamble for this \halign doesn't repeat and can't support more
| than 3 columns. Changing this & to a \cr.
Line 409 | \global\futurelet\endt\foo&\show\endt&$$&&.)
          ^
          {column entry}: leaving hidden alignment item group [level 3 at line 409]
          {column entry}: entering hidden alignment item group [level 3 at line 409]
... {\halign}: ending row 1 ...
... {\halign}: [row 2] building column 1, inserting its template prefix ...
      {\#}: [=relax]
      {&}: material in column 1 of row 2 now ending; no suffix
      {column entry}: leaving hidden alignment item group [level 3 at line 409]
      {column entry}: entering hidden alignment item group [level 3 at line 409]
... {\halign}: [row 2] ending column 1, building column 2 [no prefix] ...

"trip.tex"[Line 409]

      {&}: material in column 2 of row 2 now ending; no suffix
      {column entry}: leaving hidden alignment item group [level 3 at line 409]
      {column entry}: entering hidden alignment item group [level 3 at line 409]
... {\halign}: [row 2] ending column 2, building column 3, inserting its template prefix ...

      Calling \l #1->
          #1: .
      Returning from \l [empty body]
      { }: appending font's inter-word glue [4.0 plus 2.0 minus 88.0]

      Calling \par ->\relax \PAR

```

```
{\relax}
{\PAR}: [ending paragraph]
```

```
Context | "trip.tex"[Line 410] > \par
```

```
>ERROR< | Unexpected end of alignment. Inserting '}' to end current hidden alignment item group context.
```

```
TokList | \relax \PAR
         |      ^^^^
```

```
Line 410 |
```

```
^
```

```
>ERROR< | Found '}'. Missing \cr inserted to end alignment here.
```

```
TokList | \relax \PAR
         |      ^^^^
```

```
Line 410 |
```

```
^
```

```
{\cr [internal]}
```

```
>ERROR< | Misplaced \cr [internal]. Check for missing or extra brace. Inserting a '{'.
```

```
TokList | \relax \PAR
         |      ^^^^
```

```
Line 410 |
```

```
^
```

```
{:}: entering simple group [level 4 at line 410]
  {\cr [internal]}: row 2 of column 3 is ending; inserting template suffix
{:}: leaving simple group [level 4 at line 410]
{column entry}: leaving hidden alignment item group [level 3 at line 409]
{column entry}: entering hidden alignment item group [level 3 at line 410]
```

```
... {\halign}: ending row 2 ...
```

```
>> internal vertical mode
```

```
{column entry}: leaving hidden alignment item group [level 3 at line 410]
```

```
{:}: leaving \halign group [level 2 at line 408]
```

```
... {\halign}: [done] appending 2 rows of aligned material
```

```
Warning : Found a tight horizontal box [id=787] [badness=1] in alignment at lines 408--410.
```

```
TokList : \relax \PAR
         :      ^^^^
```

```
Line 410 :
```

```
^
```

```
[ ] [ ] [ ]
```

```
Tight hbox : [id=787] (0.0 + 0.0) × 1.42262, shrunk using -0.20552, contains 7 items
```

```
glue : 0.0154 minus 3.21002 [from \tabskip]
```

```
unbx : [id=784] (0.0 + 0.0) × 0.0 [rigid] [empty]
```

```
etc. : 5 unshown items ... [\showboxbreadth=2]
```

```
% t=60.0 plus 168.0 plus 2.0fil plus 2.0fill minus 33.0 g=16383.99998 b=0 p=0 c=0# [# = best break so far]
```

```
> vertical mode
```

```
{\PAR}
```

```
Returning from \par, resuming reading from file "trip.tex"
```

```
{\hbox} ...
```

```
>> restricted horizontal mode
```

```
{:}: entering adjusted \hbox group [level 2 at line 411]
```

```
{\}
```

```
{\hrule}: [changing to vertical mode first]
```

```
Context | "trip.tex"[Line 411]
```

```
>ERROR< | Found "\hrule". You can't use it here except for leaders using \leaders or \hrulefill.
```

```
Line 411 | \hbox{\{\hrule\textfont3=\norm\prevdepth\advance\xspaceskip by-\xspaceskip
```

```

          ^^^^^^
{\textfont}:      (family 3) \enorm [was \bigtr^^@p]
{\prevdepth} ...

>ERROR< | The layout is in restricted horizontal mode, but the previous depth is only
| settable in a vertical mode.
Line 411 | \hbox{\hrule\textfont3=\enorm\prevdepth\advance\xspaceskip by-\xspaceskip
          ^^^^^^^^^^^
... {\prevdepth}: 0.0 pt [ignoring; wrong mode]
{\advance} ...
  {\xspaceskip}: -1.0pt [parameter]
... {\advance}: \xspaceskip [ (-1.0pt) + (1.0pt) = (0.0pt) ]
{\spacefactor}: 2000
{ }: entering simple group [level 3 at line 412]
  { }: appending font's inter-word glue [4.0 plus 2.0 minus 88.0]
  [and adding font's extra space: 2.0] [and magnified by (\spacefactor=2000)/1000]
{ }: leaving simple group [level 3 at line 412]
{\everymath}: \radical "3
  was->
{\fontdimen}: Dimension #2 [interword space] of font \ip set to 0pt [was 4pt]
{ $ }: entering math group [level 3 at line 413]
>>> math mode
  Executing \everymath->\radical "3
    {\radical}: using delimiter "0362 = class (ordinary), no small delimiter, large \fam 3 b = [ `b = "62 = 98]
    { }: entering \radical group [level 4 at line 413]
    { }: leaving \radical group [level 4 at line 413]
    {\delimiterfactor}: 1600 [was 10]
    {\left} ...

    Calling (->\delimiter "4162362
      {\delimiter}: delimiter "4162362 = class (open), small \fam 1 b, large \fam 3 b [ `b = "62 = 98]
    ... {\left}: entering math \left .. \right group [level 4 at line 413]
      Returning from (, resuming reading from file "trip.tex"
      {A}: letter maps (via \mathcode) to "7141 [class 7 (inner); \fam 1 \char "41 = 65 = A]
      {a}: letter maps (via \mathcode) to "7161 [class 7 (inner); \fam 1 \char "61 = 97 = a]
      {\right} ...
      {\delimiter}: delimiter "0300 = class (ordinary), no small delimiter, large \fam 3 ^^@ [ `^^@ = "00 = 0 = <null>]
    ... {\right}: leaving math \left .. \right group [level 4 at line 413]
    { $ }: leaving math group [level 3 at line 413]
      appending hbox, with \mathsurround=0.0pt on either side
      restoring [parameter] \delimiterfactor to 10
      [parameter] \fam to 0

>> restricted horizontal mode
  {AA}: [2 letters]
  {\ /}: appending 1.0pt explicit kern for italic correction
  { }: leaving adjusted \hbox group [level 2 at line 411]
  restoring [parameter] \everymath->
  [parameter] \xspaceskip to -1.0pt
  [math font] \textfont3 to \bigtr^^@p
  ... {\hbox}: appending hbox : [id=809] (3545.60136 + 140.80052) x 2070.00168 [rigid] [8 items]

% t=70.0 plus 168.0 plus 2.0fil plus 2.0fill minus 33.0 g=16383.99998 b=0 p=0 c=0# [# = best break so far]

> vertical mode
  { }: [ignored in vertical mode]
  {\openin}: 15 tripos.tex
  {\closein} ...
  {\iftrue}: true
  ... {\closein}: 15 tripos.tex

```

```
{{}: entering simple group [level 2 at line 414]
{\ifeof}: 15 ? true
{\openin}: 100 ...
```

```
>ERROR< | Found 100. Expecting an input file channel between 0 and 15. Using 0 instead.
Line 414 | \openin 15 tripos\closein 15\iftrue{\ifeof 15\openin 100 tripos
          | ^^^
```

```
... {\openin}: 0 tripos.tex
{\def}: \loop->\ifeof 0\let \loop =\relax \else {\global \read 0to \a }\show
      \a \fi \loop
{ }: [ignored in vertical mode]
{\catcode}: \0 <- 15 [invalid] [was 12 = character]
{\catcode}: \[ <- 1 [begin-group] [was 12 = character]
{\outer}
{\def}: \uppercase->

Calling \loop ->\ifeof 0\let \loop =\relax \else {\global \read 0to \a }\show
      \a \fi \loop
{\ifeof}: 0 [tripos.tex] ? false
{\else}: true
  {}: entering simple group [level 3 at line 416]
    {\global}
    {\read}: from file 0 to \a: [1 token]
      \par
    {}: leaving simple group [level 3 at line 416]
  {\show}: \a
```

```
Line 416 | \show \a
macro:->\par
```

```
{\fi}: [end of \ifeof on line 416]
```

```
Calling \loop ->\ifeof 0\let \loop =\relax \else {\global \read 0to \a }\show
      \a \fi \loop
```

```
Returning from \loop while collecting next arguments
{\ifeof}: 0 [tripos.tex] ? false
{\else}: true
  {}: entering simple group [level 3 at line 416]
    {\global}
    {\read}: from file 0 to \a ...
```

```
Context | "trip.tex"[Line 416] > \loop > "tripos.tex"[2]
```

```
>ERROR< | Runaway!? Found \outer macro \uppercase while collecting the definition of macro \a.
| In a \read, this \uppercase will now be treated as space with a '}' inserted after it.
```

```
Line 2 | \uppercase {0{\outputpenalty }}
      | ^^^^^^^^^^^^^
```

```
>ERROR< | Scanned an invalid character (0). Ignoring it.
Line 2 | \uppercase {0{\outputpenalty }}
      | ^
```

```
... {\read}: [1 token] [7 trailing tokens skipped]
  {}: leaving simple group [level 3 at line 416]
  {\show}: \a
```

```
Line 416 | \show \a
macro:->
```

```
{\fi}: [end of \ifeof on line 416]
```

```

Calling \loop ->\ifeof 0\let \loop =\relax \else {\global \read 0to \a }\show
      \a \fi \loop
Returning from \loop while collecting next arguments
{\ifeof}: 0 [tripos.tex] ? false
{\else}: true
  {}: entering simple group [level 3 at line 416]
    {\global}
    {\read}: from file 0 to \a ...

```

```

>ERROR< | Runaway!? Found \outer macro \uppercase while collecting the definition of macro \a.
| In a \read, this \uppercase will now be treated as space with a '}' inserted after it.

```

```

Line 3 | [\uppercase {mmmmmmmmmm}]
| ^^^^^^^^^^^

```

```

Context | "trip.tex"[Line 416] > \loop

```

```

>ERROR< | Runaway!? \read ended without braces being balanced.
TokList | ... \else {\global \read 0to \a }\show \a \fi \loop
| ^

```

```

Line 416 | \catcode`015\catcode`[1\outer\def\uppercase{}]\loop}\else\fi
| ^

```

```

>ERROR< | File ended during \read. Appending a \par to definition being collected.
TokList | ... \else {\global \read 0to \a }\show \a \fi \loop
| ^

```

```

Line 416 | \catcode`015\catcode`[1\outer\def\uppercase{}]\loop}\else\fi
| ^

```

```

... {\read}: [18 tokens]
      [ ]{mmmmmmmmmm}[ \par
  {}: leaving simple group [level 3 at line 416]
  {\show}: \a

```

```

Line 416 | \show \a
macro:->[ ]{mmmmmmmmmm}[ \par

```

```

{\fi}: [end of \ifeof on line 416]

```

```

Calling \loop ->\ifeof 0\let \loop =\relax \else {\global \read 0to \a }\show
      \a \fi \loop

```

```

Returning from \loop while collecting next arguments

```

```

{\ifeof}: 0 [tripos.tex] ? true

```

```

  {\let}: \loop = \relax

```

```

  {\else}: false

```

```

  {\fi}: [end of \ifeof on line 416]

```

```

  {\loop}: [= \relax]

```

```

Returning from \loop, resuming reading from file "trip.tex"

```

```

  {}: leaving simple group [level 2 at line 414]

```

```

restoring [macro] \uppercase to \uppercase

```

```

  [mapping] \catcode of `[ to 12 [character]

```

```

  [mapping] \catcode of `0 to 12 [character]

```

```

  [macro] \loop to undefined

```

```

  {\else}: false

```

```

  {\fi}: [end of \ifeof on line 414]

```

```

  {}: leaving simple group [level 1 at line 408]

```

```

restoring [constructed name] \# to undefined

```

```

{\def}: \test#1->\let \test =

```

```

Calling \test #1->\let \test =

```

```

  #1: .

```

```

  {\let} ...

```



```

Returning from \test, resuming reading from file "trip.tex"
... {\let}: \test = blank space character
{\show}: \test

```

```

Line 417 | \show \test
blank space character

```

```

{\def}: \a#1->\ifcat #1 \message \ifx #1 {\iffalse \fi \the \tokens \fi }
{ } : [ignored in vertical mode]
{\pretolerance}: -1 [was 0]
{\tokens} ...
{\toks}: [= \toks1]

```

```
"trip.tex"[Line 419]
```

```

... {\tokens}: \toks0 = {\a \test }
                    was->
{\unhbox}: [postponing it, starting new paragraph first]

```

```
% t=3754.40189 plus 208.0 plus 2.0fil plus 2.0fill minus 33.0 g=16383.99998 b=0 p=0 c=0# [# = best break so far]
```

```
>> horizontal mode
{\unhbox} ...
```

```

Calling \par ->\relax \PAR
... {\unhbox}: transferring contents of \box16 to layout's horizontal list [register is void]
{\relax}
{\PAR}: [ending paragraph]

```

```
Typesetting paragraph #33 at source line 419:
```

```
[ ]
```

```
Relevant parameters:
```

```

\size=16383.99998, \hsize=100.0, \leftskip=3.0, \rightskip=0.0, \vfuzz=0.0, \hfuzz=0.0
\pretolerance=-1 [skipping first pass], \tolerance=10000, \emergencystretch=0.0 [no third pass]
\looseness=0 [normal], \hbadness=0
\linepenalty=1, \interlinepenalty=-125
\clubpenalty=125, \brokenpenalty=37, \hyphenpenalty=88, \exhyphenpenalty=89
\uchyph=1 [permit uppercase word hyphenation]
\doublehyphendemerits=1000, \finalhyphendemerits=10000, \adjdemerits=782
\parshape=normal, \hangindent=0.0, \hangafter=1 [hanging indentation, if any, begins on line 2]

```

```
Finding line-breaks: [@=active @@=passive b=badness p=penalty d=demerits t=total demerits]
```

```
@firstpass (skipping)
```

```
@secondpass (skipping)
```

```
[ ]
```

```
@\par via @@ b=91 p=-10000 d=*
```

```
@@1: line 1.1- t=0 -> @@0
```

```
Context : "trip.tex"[Line 419] > \par
```

```
Warning : Found a loose horizontal box [id=811] [badness=91] in paragraph at line 419.
```

```
TokList : \relax \PAR
```

```
:
```

```
Line 419 : \pretolerance-1\tokens\toks1\unhbox16\par\everycr{\noalign{\penalty97}}
```

```
[ ]
```

```
Loose hbox : [id=811] (0.0 + 0.0) × 100.0, stretched using 0.97, contains 5 items
```

```
glue : 3.0 [from \leftskip]
```

```
hbox : [id=810] (0.0 + 0.0) × 0.0 [rigid] [empty]
```

```
etc. : 3 unshown items ... [\showboxbreadth=2]
```

```
Returning from \par, resuming reading from file "trip.tex"
```

```
> vertical mode
```

```
{\everycr}: \noalign {\penalty 97}
```

```
was->
```

```
{ }: [ignored in vertical mode]
```

```
{\the} ...
```

```
{\tokens}: [= \toks0]
```

```
... {\the}: Pushing {\a \test } onto input
```

```
Calling \a #1->\ifcat #1 \message \ifx #1 {\iffalse \fi \the \tokens \fi \fi }
```

```
#1: \test
```

```
{\ifcat}: blank space=blank space ? true
```

```
{\message} ...
```

```
{\ifx}: '=' ? true
```

```
{\iffalse}: false
```

```
{\fi}: [end of \iffalse on line 420]
```

```
{\the} ...
```

```
{\tokens}: [= \toks0]
```

```
... {\the}: value converted to text
```

```
{\fi}: [end of \ifx on line 420]
```

```
{\fi}: [end of \ifcat on line 420]
```

```
... {\message}: [to "trip.log" and terminal]
```

```
\a \test
```

```
Returning from \a, resuming reading from file "trip.tex"
```

```
{\ifcase}: looking for case 1
```

```
{\or}: [case 1 matched!]
```

```
{\ifeof} ...
```

```
Context | "trip.tex"[Line 420]
```

```
>ERROR< | Found "\relax [internal]". Expecting an integer constant after "\ifeof". Using 0.
```

```
Line 420 | \the\tokens\ifcase\or\ifeof\fi\def\stopinput{\error\let\input\die}
```

```
... {\ifeof}: 0 [tripos.tex] ? true
```

```
{\relax [internal]}
```

```
{\fi}: [end of \ifeof on line 420]
```

```
{\def}: \stopinput->\error \let \input \die
```

```
{ }: [ignored in vertical mode]
```

```
{\let}: \lb = begin-group character {
```

```
{\let}: \rb = end-group character }
```

```
{\halign}: building successive rows, each containing entries in horizontally tabbed columns ...
```

```
>> internal vertical mode
```

```
{{}: entering \halign group [level 1 at line 421]
```

```
... {\halign}: [preamble] recording templates for each column ...
```

```
{\span}: the next token "\iffalse" will be expanded
```

```
{\iffalse}: false
```

```
{\fi}: [end of \iffalse on line 421]
```

```
{\cr}: recording \cr in column 1's template prefix because of an as-yet unmatched brace
```

```
{#}: end of prefix material for column 1's template [braces not balanced]; collecting suffix
```

```
{&}: recording & in column 1's template suffix because of an as-yet unmatched brace
```

```
{\ifnum}
```

```
{0=}: [3 chars]
```

```
{{}: braces are balanced
```

```
{\fi}
```

```
{\cr}: end of column 1's suffix and template
```

```

... {\halign}: preamble has declared template for 1 column ...
    \tabskip [= 0.0154 minus 3.21002]
    column 1 prefix: \cr
    suffix: &\ifnum 0=\{fi
    \tabskip
{column entry}: entering hidden alignment item group [level 2 at line 421]
  Executing \everycr->\noalign {\penalty 97}
    {\noalign}
    {}: entering \noalign group [level 3 at line 421]
    {\penalty}: 97 [appending to vertical list]
    {}: leaving \noalign group [level 3 at line 421]
>>>> restricted horizontal mode
... {\halign}: [row 1] building column 1, inserting its template prefix ...
    {\cr}

>ERROR< | Ignoring misplaced \cr. Check for missing or extra brace.
TokList | \cr
        | ^^
Line 421 | \let\lb={\let\rb=}\halign\relax{\span\iffalse}\fi\cr#&\ifnum0=\{fi\cr\cr}
        |                                     ^^
        |
        | {\cr}: row 1 of column 1 is ending; inserting template suffix
        | {\&}: [alignment delimiter]

>ERROR< | Found '&'. An alignment delimiter character is illegal here. Missing escape or brace perhaps?
        | [JSBox features, which permit using tab mark characters outside of any alignment, are not enabled.]
Line 421 | \let\lb={\let\rb=}\halign\relax{\span\iffalse}\fi\cr#&\ifnum0=\{fi\cr\cr}
        |                                     ^^
        |
        | {\ifnum}: 0 = 123 ? false
        | {\fi}: [end of \ifnum on line 421]
        | {column entry}: leaving hidden alignment item group [level 2 at line 421]
        | {column entry}: entering hidden alignment item group [level 2 at line 421]
        | ... {\halign}: ending row 1 ...
>> internal vertical mode
    Executing \everycr->\noalign {\penalty 97}
    {\noalign}
    {}: entering \noalign group [level 3 at line 421]
    {\penalty}: 97 [appending to vertical list]
    {}: leaving \noalign group [level 3 at line 421]
    {column entry}: leaving hidden alignment item group [level 2 at line 421]
    {}: leaving \halign group [level 1 at line 421]
    ... {\halign}: [done] appending 1 row of aligned material

% t=3756.40189 plus 290.0 plus 2.0fil plus 2.0fill minus 41.0 g=16383.99998 b=0 p=97 c=97
% t=3766.40189 plus 290.0 plus 2.0fil plus 2.0fill minus 41.0 g=16383.99998 b=0 p=97 c=97

> vertical mode
  { }: [ignored in vertical mode]
  {\let}: \e = \expandafter
  {\def}: \trap#1->
  {\def}: \unbalanced->\halign \lb

  Calling \unbalanced ->\halign \lb
  {\halign}: building successive rows, each containing entries in horizontally tabbed columns ...
>> internal vertical mode
  {}: entering \halign group [level 1 at line 422]
  ... {\halign}: [preamble] recording templates for each column ...
  Returning from \unbalanced, resuming reading from file "trip.tex"
  {}: end of prefix material for column 1's template; collecting suffix
  {\cr}: end of column 1's suffix and template

```

```

... {\halign}: preamble has declared template for 1 column ...
      \tabskip [= 0.0154 minus 3.21002]
      column 1:      [no extra material to insert]
      \tabskip
{column entry}: entering hidden alignment item group [level 2 at line 422]
  Executing \everycr->\noalign {\penalty 97}
    {\noalign}
    {}: entering \noalign group [level 3 at line 422]
    {\penalty}: 97 [appending to vertical list]
    {}: leaving \noalign group [level 3 at line 422]
>>>> restricted horizontal mode
  ... {\halign}: [row 1] building column 1 [no prefix] ...
    {\relax}
    {\e}: postponing {\e} until after expanding {\e}
    {\e}: postponing {\err} until after expanding {\e}
    {\e}: postponing {\e} until after expanding {\e}
    {\e}: postponing {\endit} until after expanding {\e}
    {\e} ...
    {\cr}: row 1 of column 1 is ending; no template suffix
  ... {\e}: postponing {\trap} until after expanding {\outer endtemplate [internal]}
    {\e}: postponing {\err} until after expanding {\e}
    {\e}: postponing {\endit} until after expanding {\trap}

    Calling \trap #1->
      #1: \endtemplate [internal]
    Returning from \trap [empty body]
    {\err}

>ERROR< | Undefined control sequence "\err".
Line 423 | \relax\e\e\err\e\e\endit\e\trap\cr\noexpand\cr}
          ~~~~~~
          {\relax [internal]}
{column entry}: leaving hidden alignment item group [level 2 at line 422]
{column entry}: entering hidden alignment item group [level 2 at line 423]
  ... {\halign}: ending row 1 ...
>> internal vertical mode
  Executing \everycr->\noalign {\penalty 97}
    {\noalign}
    {}: entering \noalign group [level 3 at line 423]
    {\penalty}: 97 [appending to vertical list]
    {}: leaving \noalign group [level 3 at line 423]
    {\noexpand}: \cr
>>>> restricted horizontal mode
  ... {\halign}: [row 2] building column 1 [no prefix] ...
    {\cr}: row 2 of column 1 is ending; no template suffix
    {column entry}: leaving hidden alignment item group [level 2 at line 423]
    {column entry}: entering hidden alignment item group [level 2 at line 423]
  ... {\halign}: ending row 2 ...
>> internal vertical mode
  Executing \everycr->\noalign {\penalty 97}
    {\noalign}
    {}: entering \noalign group [level 3 at line 423]
    {\penalty}: 97 [appending to vertical list]
    {}: leaving \noalign group [level 3 at line 423]
    {column entry}: leaving hidden alignment item group [level 2 at line 423]
    {}: leaving \halign group [level 1 at line 422]

```

"trip.tex"[Line 423]

```

... {\halign}: [done] appending 2 rows of aligned material
% t=3766.40189 plus 290.0 plus 2.0fil plus 2.0fill minus 41.0 g=16383.99998 b=0 p=97 c=97
% t=3776.40189 plus 290.0 plus 2.0fil plus 2.0fill minus 41.0 g=16383.99998 b=0 p=97 c=97
% t=3786.40189 plus 290.0 plus 2.0fil plus 2.0fill minus 41.0 g=16383.99998 b=0 p=97 c=97
> vertical mode
  { }: [ignored in vertical mode]

  Calling \par ->\relax \PAR
    {\relax}
    {\PAR}
  Returning from \par, resuming reading from file "trip.tex"
  {\expandafter}: postponing {\stopinput} until after expanding {\input}
  {\input}: tripos.tex ...
    {\endinginput}: Ignoring rest of tripos.tex, after line 0

    Calling \stopinput ->\error \let \input \die
      {\error}

Context | "trip.tex"[Line 425] > "tripos.tex"[0] > \stopinput

>ERROR< | Undefined control sequence "\error".
TokList | \error \let \input \die
        | ^^^^^^

        {\relax [internal]}
        {\let}: \input = undefined
  Returning from \stopinput, resuming reading from file tripos.tex
  {\input}
  {\input}(cont'd): early end of tripos.tex [0 lines read]
  {\input}

Context | "trip.tex"[Line 425]

>ERROR< | Undefined control sequence "\input".
Line 425 | \expandafter\stopinput\input tripos\endinginput\input % one line of tripos
        | ^^^^^^

        {\relax [internal]}
        {\setbox} ...
        {\vbox}
>> internal vertical mode
  ... {\setbox}: \box10 = \vbox to 8192.0pt ...
    {}: entering \vbox group [level 1 at line 426]
    {\hbox} ...
>>> restricted horizontal mode
  {}: entering adjusted \hbox group [level 2 at line 426]
    {\hbox} ...
    {}: entering \hbox group [level 3 at line 426]
    {\vadjust} ...
>>>> internal vertical mode
  {}: entering \vadjust group [level 4 at line 426]
  {A}: [postponing letter] starting new paragraph first
>>>>> horizontal mode
  {A}: [letter]

Typesetting paragraph #34 at source line 426:
[]\ip A
Relevant parameters:

```

```

\vsiz=16383.99998, \hsiz=100.0, \leftskip=3.0, \rightskip=0.0, \vfuzz=0.0, \hfuzz=0.0
\pretolerance=-1 [skipping first pass], \tolerance=10000, \emergencystretch=0.0 [no third pass]
\looseness=0 [normal], \hbadness=0
\linepenalty=1, \interlinepenalty=-125
\clubpenalty=125, \brokenpenalty=37, \hyphenpenalty=88, \exhyphenpenalty=89
\uchyph=1 [permit uppercase word hyphenation]
\doublehyphendemerits=1000, \finalhyphendemerits=10000, \adjdemerits=782
\parshape=normal, \hangindent=0.0, \hangafter=1 [hanging indentation, if any, begins on line 2]

```

```

Finding line-breaks: [@=active @@=passive b=badness p=penalty d=demerits t=total demerits]
@firstpass (skipping)
@secondpass (skipping)
[]\ip A
@\par via @@ b=86 p=-10000 d=*
@@1: line 1.1- t=0 -> @@

```

```

Warning : Found a loose horizontal box [id=823] [badness=86] in paragraph at line 426.
Line 426 : \setbox10=\vbox to8192pt{\hbox{\hbox{\vadjust{A}}}\vrule\unhbox10\hrule

```

```

[]\ip A
Loose hbox : [id=823] (7.0 + 1.0) x 100.0, stretched using 0.95, contains 6 items
  [uses font \ip = trip.tfm [unscaled]]
  glue : 3.0 [from \leftskip]
  hbox : [id=822] (0.0 + 0.0) x 0.0 [rigid] [empty]
  etc. : 4 unshown items ... [showboxbreadth=2]

```

```

>>>> internal vertical mode
  {}: leaving \vadjust group [level 4 at line 426]
  ... {\vadjust}: appending grouped material to current list
>>>> restricted horizontal mode
  {}: leaving \hbox group [level 3 at line 426]
  ... {\hbox}: appending hbox : [id=825] (0.0 + 0.0) x 0.0 [rigid] [1 item]
  {}: leaving adjusted \hbox group [level 2 at line 426]
  ... {\hbox}: appending hbox : [id=826] (0.0 + 0.0) x 0.0 [rigid] [1 item]
>> internal vertical mode
  {}: leaving \vbox group [level 1 at line 426]

```

```

Warning : Found an underfull vertical box [id=827] [badness=infinite] found at line 426.
Line 426 : \setbox10=\vbox to8192pt{\hbox{\hbox{\vadjust{A}}}\vrule\unhbox10\hrule

```

```

[]
Underfull vbox : [id=827] (8192.0 + 0.0) x 0.0, contains 1 item
  hbox : [id=826] (0.0 + 0.0) x 0.0 [rigid], contains 1 item
  ... {\setbox}: \box10 = vbox : [id=827] (8192.0 + 0.0) x 0.0 [1 item] [was void]
> vertical mode
  {\vrule}: [postponing it, starting new paragraph first]
>> horizontal mode
  {\vrule}: appending vertical rule : (ht+dp)=(**) wd=0.4
  {\unhbox}: transferring contents of \box10 to layout's horizontal list

```

```

>ERROR< | Can't unbox vertical \box10 while in a horizontal mode.
Line 426 | \setbox10=\vbox to8192pt{\hbox{\hbox{\vadjust{A}}}\vrule\unhbox10\hrule

```

```

  {\hrule}: [changing to vertical mode first]

```

```

Calling \par ->\relax \PAR
  {\relax}
  {\PAR}: [ending paragraph]

```

Typesetting paragraph #35 at source line 426:

[]

Relevant parameters:

```
\vsize=16383.99998, \hsize=100.0, \leftskip=3.0, \rightskip=0.0, \vfuzz=0.0, \hfuzz=0.0
\pretolerance=-1 [skipping first pass], \tolerance=10000, \emergencystretch=0.0 [no third pass]
\looseness=0 [normal], \hbadness=0
\linepenalty=1, \interlinepenalty=-125
\clubpenalty=125, \brokenpenalty=37, \hyphenpenalty=88, \exhyphenpenalty=89
\uchyph=1 [permit uppercase word hyphenation]
\doublehyphdemerits=1000, \finalhyphdemerits=10000, \adjdemerits=782
\parshape=normal, \hangindent=0.0, \hangafter=1 [hanging indentation, if any, begins on line 2]
```

Finding line-breaks: [@=active @@=passive b=badness p=penalty d=demerits t=total demerits]

@firstpass (skipping)

@secondpass (skipping)

[]

@\par via @@ b=89 p=-10000 d=*

@@1: line 1.1- t=0 -> @@

Context : "trip.tex"[Line 426] > \par

Warning : Found a loose horizontal box [id=829] [badness=89] in paragraph at line 426.

TokList : \relax \PAR

: ^^^^

Line 426 : \setbox10=\vbox to8192pt{\hbox{\hbox{\vadjust{A}}}\vrule\unhbox10\hrule

[]

Loose hbox : [id=829] (0.0 + 0.0) × 100.0, stretched using 0.966, contains 6 items

glue : 3.0 [from \leftskip]

hbox : [id=828] (0.0 + 0.0) × 0.0 [rigid] [empty]

etc. : 4 unshown items ... [\showboxbreadth=2]

Returning from \par, resuming reading from file "trip.tex"

> vertical mode

{\hrule}: appending horizontal rule : (ht+dp)=(0.4+0.0) wd=*

{\output}: {\showthe \deadcycles \global \advance \countz by1\global \globaldefs -1 \gdef \local
{\unvbox 255\end \rb }

was->{\tracingcommands 0\showthe \outputpenalty \showboxbreadth 9999 \showboxdepth 999
9 \hoffset 1s ... [40 more tokens in list]

{\futurelet}: [peeked past \maxdeadcycles] \dump = the character =

{\maxdeadcycles}: 3 [was 25]

{\show}: \dump

Line 428 | \show \dump

the character =

{\catcode}: `q <- 7 [superscript] [was 11 = letter]

{\catcode}: `^^M <- 0 [escape] [was 5 = line end] [^^M = "0D = 13 = <carriagereturn>]

{\expandafter}: postponing {\let} until after expanding {\csname}

{\csname}: 0 characters collected

{\endcsname}: null command \csname\endcsname constructed [= \relax [internal]]

{\let}: \csname\endcsname = ^^@ = macro:{->{

{\relax}

Calling \csname\endcsname {->{

Context | "trip.tex"[Line 430]


```

>> internal vertical mode
  {{{: entering \vbox group [level 2 at line 433]
    {|copy}: appending a copy of \box10 = vbox : [id=830] (8192.0 + 0.0) x 0.0 [1 item]
    {|box}: appending \box10 = vbox : [id=827] (8192.0 + 0.0) x 0.0 [1 item] [voiding register]
  }}}: leaving \vbox group [level 2 at line 433]
... {|shipout}: vbox : [id=835] (16384.0 + 0.0) x 0.0 [rigid] [3 items]

[-2.2.-1118806.0.11.196608.327680.1572864.1073741823]
>ERROR< | The height [16384.0pt] of this huge page exceeds 16383.99998pt (just under 19 feet). Discarding page.
| [JSBox features, which support twice this limit, are not enabled.]
Line 433 | \escapechar`\tracingoutput0\shipout\vbox{\copy10qq5e^5cbox10}
                                                ^^
Deleting the following box:
vbox : [id=835] (16384.0 + 0.0) x 0.0 [rigid], contains 3 items
vbox : [id=830] (8192.0 + 0.0) x 0.0, contains 1 item
glue : 0.0 plus 40.0 [from \lineskip]
vbox : [id=827] (8192.0 + 0.0) x 0.0, contains 1 item

> vertical mode
  Calling ^M->|relax
  {|relax}
  Returning from ^M, resuming reading from file "trip.tex"
  {|setbox} ...
  {|hbox}

>> restricted horizontal mode
... {|setbox}: \box9 = |hbox ...
  {{{: entering \hbox group [level 2 at line 434]
    {|fontdimen}: Dimension #8 [default rule thickness] of font |ip set to 0pt [was 0.5pt]
    {|afterassignment}: postponing |relax until after next assignment or beginning of next box group
    {|advance}: |prevdepth [nowhere to store result]

>ERROR< | Can't advance |prevdepth. Expecting a parameter name or register.
Line 435 | \afterassignment\relax\advance\prevdepth\afterassignment\relax\futurelet\x
                                                ^^^^^^^^^^^
    {|afterassignment}: postponing |relax until after next assignment or beginning of next box group
    {|futurelet}: [peeked past ^M] |x = |message
    {|relax}

    Calling ^M->|relax
    {|relax}
    Returning from ^M, resuming reading from file "trip.tex"
    {|message} ...
    {|noexpand}: |l
    {|meaning}: Pushing {|long macro:#1|l ->#1} [21 chars] onto input
    {|the} ...
    {|skewchar}: B [B = "42 = 66]
... {|the}: value converted to text
... {|message}: [to "trip.log" and terminal]

|l |long macro:#1|l ->#166

  {|vbox} ...
>>> internal vertical mode
  {{{: entering \vbox group [level 3 at line 436]
    {|hyphenchar}: -1 [disabled] for font |ip = trip.tfm [was ` = "2D = 45]
    {|-}: [postponing it, starting new paragraph first]

>>>> horizontal mode
  {|-}: current font's \hyphenchar is disabled [-1]; same as \discretionary{}{}{}

```

```
{| } : appending font's inter-word glue [rebuilding it after component change]
{BBBBBB}: [6 letters]
```

```
Calling |par ->|relax |PAR
{|relax}
{|PAR}: [ending paragraph]
```

Typesetting paragraph #36 at source line 437:

```
[ ] |ip BBBBBB
```

Relevant parameters:

```
\vsize=16383.99998, \hsize=100.0, \leftskip=3.0, \rightskip=0.0, \vfuzz=0.0, \hfuzz=0.0
\pretolerance=-1 [skipping first pass], \tolerance=10000, \emergencystretch=0.0 [no third pass]
\looseness=0 [normal], \hbadness=0
\linepenalty=1, \interlinepenalty=-125
\clubpenalty=125, \brokenpenalty=37, \hyphenpenalty=88, \exhyphenpenalty=89
\uchyph=1 [permit uppercase word hyphenation]
\doublehyphendemerits=1000, \finalhyphendemerits=10000, \adjdemerits=782
\parshape=normal, \hangindent=0.0, \hangafter=1 [hanging indentation, if any, begins on line 2]
```

Finding line-breaks: [@=active @@=passive b=badness p=penalty d=demerits t=total demerits]

```
@firstpass (skipping)
```

```
@secondpass (skipping)
```

```
[ ]
@\discretionary via @@ b=10000 p=89 d=100008703
```

```
@@1: line 1.0- t=100008703 -> @@0
```

```
@ via @@0 b=10000 p=0 d=100000782
```

```
@ via @@1 b=10000 p=0 d=100000000
```

```
@@2: line 1.0 t=100000782 -> @@0
```

```
|ip BBBBBB
```

```
@\par via @@0 b=62 p=-10000 d=3969
```

```
@\par via @@1 b=66 p=-10000 d=104489
```

```
@\par via @@2 b=66 p=-10000 d=4489
```

```
@@3: line 1.1- t=3969 -> @@0
```

```
Context : "trip.tex"[Line 437] > \par
```

Warning : Found a loose horizontal box [id=837] [badness=62] in paragraph at line 437.

```
TokList : |relax |PAR
```

```
:
:
Line 437 : \-\ BBBBBB\par\hyphenchar\ip`?\-\ BBBBBB}\if$\expandafter\noexpand\do\fi%
          ^^^^^
```

```
[ ] |ip BBBBBB
```

```
Loose hbox : [id=837] (7.0 + 1.0) × 100.0, stretched using 0.85294, contains 12 items
```

```
  [uses font |ip = trip.tfm [unscaled]]
```

```
  glue : 3.0 [from \leftskip]
```

```
  hbox : [id=836] (0.0 + 0.0) × 0.0 [rigid] [empty]
```

```
  etc. : 10 unshown items ... [\showboxbreadth=2]
```

Returning from |par, resuming reading from file "trip.tex"

```
>>> internal vertical mode
```

```
{|hyphenchar}: using `? for font |ip = trip.tfm [ `? = "3F = 63] [was -1]
```

```
{|-}: [postponing it, starting new paragraph first]
```

```
>>>> horizontal mode
```

```
{|-}: using current font's \hyphenchar, same as \discretionary{?}{?} [ `? = "3F = 63]
```

```
Context : "trip.tex"[Line 437]
```

Warning : Ignoring missing character [`? = "3F = 63]. It's not available in font |ip [from trip.tfm].

```
Line 437 : \-\ BBBBBB\par\hyphenchar\ip`?\-\ BBBBBB}\if$\expandafter\noexpand\dol\fi%
           ^
           {}: appending font's inter-word glue [0.0 plus 2.0 minus 88.0]
```

```
"trip.tex"[Line 437]
```

```
{BBBBBB}: [6 letters]
```

```
Typesetting paragraph #37 at source line 437:
```

```
[ ] |ip BBBBBB
```

```
Relevant parameters:
```

```
\vsize=16383.99998, \hsize=100.0, \leftskip=3.0, \rightskip=0.0, \vfuzz=0.0, \hfuzz=0.0
\pretolerance=-1 [skipping first pass], \tolerance=10000, \emergencystretch=0.0 [no third pass]
\looseness=0 [normal], \hbadness=0
\linepenalty=1, \interlinepenalty=-125
\clubpenalty=125, \brokenpenalty=37, \hyphenpenalty=88, \exhyphenpenalty=89
\uchyph=1 [permit uppercase word hyphenation]
\doublehyphendemerits=1000, \finalhyphendemerits=100000, \adjdemerits=782
\parshape=normal, \hangindent=0.0, \hangafter=1 [hanging indentation, if any, begins on line 2]
```

```
Finding line-breaks: [@=active @@=passive b=badness p=penalty d=demerits t=total demerits]
```

```
@firstpass (skipping)
```

```
@secondpass (skipping)
```

```
[ ]
```

```
@\discretionary via @@0 b=10000 p=89 d=100008703
```

```
@@1: line 1.0- t=100008703 -> @@0
```

```
@ via @@0 b=10000 p=0 d=100000782
```

```
@ via @@1 b=10000 p=0 d=100000000
```

```
@@2: line 1.0 t=100000782 -> @@0
```

```
|ip BBBBBB
```

```
@\par via @@0 b=62 p=-10000 d=3969
```

```
@\par via @@1 b=66 p=-10000 d=104489
```

```
@\par via @@2 b=66 p=-10000 d=4489
```

```
@@3: line 1.1- t=3969 -> @@0
```

```
Warning : Found a loose horizontal box [id=839] [badness=62] in paragraph at line 437.
```

```
Line 437 : \-\ BBBBBB\par\hyphenchar\ip`?\-\ BBBBBB}\if$\expandafter\noexpand\dol\fi%
           ^
```

```
[ ] |ip BBBBBB
```

```
Loose hbox : [id=839] (7.0 + 1.0) × 100.0, stretched using 0.85294, contains 12 items
```

```
  [uses font |ip = trip.tfm [unscaled]]
```

```
  glue : 3.0 [from \leftskip]
```

```
  hbox : [id=838] (0.0 + 0.0) × 0.0 [rigid] [empty]
```

```
  etc. : 10 unshown items ... [\showboxbreadth=2]
```

```
>>> internal vertical mode
```

```
  {}: leaving \vbox group [level 3 at line 436]
```

```
  ... {\vbox}: appending vbox : [id=840] (17.0 + 1.0) × 100.0 [rigid] [4 items]
```

```
>> restricted horizontal mode
```

```
  {\if} ...
```

```
  {\expandafter}: postponing {\noexpand} until after expanding {\dol}
```

```
  Calling |dol ->$
```

```
  {\noexpand}: $
```

```
  ... {\if}: '$' = '$' ? true
```

```
  Returning from |dol, resuming reading from file "trip.tex"
```

```
  {\fi}: [end of |if on line 437]
```

```
  {\expandafter}: postponing {\expandafter} until after expanding {\noexpand}
```

```

{|noexpand}: |undefined
{|expandafter}: postponing {|undefined} until after expanding {|noexpand}
{|noexpand}: |expandafter
{|undefined}

```

>ERROR< | Undefined control sequence "|undefined".

Line 438 | \expandafter\expandafter\noexpand\undefined\noexpand\expandafter%

```

{|relax [internal]}
{|expandafter}: postponing {$} until after expanding {|begingroup}
{$}: entering math group [level 3 at line 439]

```

>>> math mode

```

{|begingroup}: entering semi simple group [level 4 at line 439]
{|mathop}
{{}}: entering \mathop group [level 5 at line 439]
{|vbox} ...

```

>>>> internal vertical mode

```

{{}}: entering \vbox group [level 6 at line 439]
{|vss}: 0.0pt plus 1.0fil minus 1.0fil [appending to vertical list]
{{}}: leaving \vbox group [level 6 at line 439]
... {|vbox}: appending vbox : [id=841] (0.0 + 0.0) × 0.0 [rigid] [1 item]
{{}}: leaving \mathop group [level 5 at line 439]

```

>>> math mode

```

{|limits}
{^}: [superscript]
{|mathchoice}

```

>ERROR< | Found "|mathchoice". Expecting a math character or left brace after '^'. Inserting '{'.

Line 439 | \$\begin{group}\mathop{\vbox{\vss}}\limits^{\mathchoice{a}{A|{}}{\mathchoice}

```

{{}}: entering superscript math group [level 5 at line 439]
{|mathchoice}: parsing four brace-enclosed formula choices ...
{{}}: entering first \mathchoice group [level 6 at line 439]
{{}}: leaving first \mathchoice group [level 6 at line 439]

```

>ERROR< | Found 'a'. Expecting a left brace after '}'. Inserting '{'.

Line 439 | \$\begin{group}\mathop{\vbox{\vss}}\limits^{\mathchoice{a}{A|{}}{\mathchoice}

```

{{}}: entering second \mathchoice group [level 6 at line 439]
{a}: letter maps (via \mathcode) to "7161 [class 7 (inner); \fam 1 \char "61 = 97 = a]
{{}}: leaving second \mathchoice group [level 6 at line 439]
{{}}: entering third \mathchoice group [level 6 at line 439]
{A}: letter maps (via \mathcode) to "7141 [class 7 (inner); \fam 1 \char "41 = 65 = A]
{|}: [subscript]
{{}}: entering subscript math group [level 7 at line 439]
{{}}: leaving subscript math group [level 7 at line 439]
{{}}: leaving third \mathchoice group [level 6 at line 439]
{{}}: entering fourth \mathchoice group [level 6 at line 439]
{|mathchoice}: parsing four brace-enclosed formula choices ...

```

>ERROR< | Found '}'. Expecting a left brace after "|mathchoice". Inserting '{'.

Line 439 | \$\begin{group}\mathop{\vbox{\vss}}\limits^{\mathchoice{a}{A|{}}{\mathchoice}

```

{{}}: entering first \mathchoice group [level 7 at line 439]
{{}}: leaving first \mathchoice group [level 7 at line 439]

```

Calling ^M->|relax

Returning from ^M, resuming reading from file "trip.tex"

```

{{}}: entering second \mathchoice group [level 7 at line 440]

```


size : (wd=13.0, ht=16383.99998), with upper left origin (x=0.00002, y=-2.0) [all pts]
 page : #7 [-2] = vbox : [id=160] (16383.99998 + 0.0) × 1000.0, stretched using 16342.0fil [8 items] [box ids 160--197]

size : (wd=100.0, ht=16383.99998), with upper left origin (x=0.00002, y=-2.0) [all pts]
 page : #8 [-2] = vbox : [id=225] (16383.99998 + 1.0) × 100.0, stretched using 16239.0fil [33 items] [box ids 225--246]
 page : #9 [-2] = vbox : [id=257] (16383.99998 + 0.0) × 20.0, stretched using 16331.0fil [12 items] [box ids 257--263]
 page : #10 [-2] = vbox : [id=472] (10000.0 + 2.0) × 28.0, stretched using 9737.58789fil [10 items] [box ids 472--580]
 page : #11 [-2] = vbox : [id=612] (16383.99998 + 2.0) × 100.0, stretched using 16318.0fil [13 items] [box ids 612--634]
 page : #12 [-2] = vbox : [id=641] (16383.99998 + 0.0) × 8236.0, stretched using 16344.0fil [8 items] [box ids 641--645]
 page : #13 [-2] = vbox : [id=665] (16383.99998 + 0.0) × 100.0, stretched using 16332.0fil [8 items] [box ids 665--682]
 page : #14 [-2] = vbox : [id=724] (16383.99998 + 0.0) × 205.12613, stretched using 16344.0fil [10 items] [box ids 724--753]

[[===== Partially Built Page 15 =====]]

Height so far: 3796.40189 plus 332.0 plus 2.0fil plus -803.0fill minus 49.0

Ultimate goal: 16383.99998pt

Contents:

glue : 20.0 plus 1.0fil [from \topskip]
 hbox : [id=755] (0.0 + 0.0) × 100.0, stretched using 0.60527, contains 12 items
 glue : 3.0 [from \leftskip]
 hbox : [id=754] (0.0 + 0.0) × 0.0 [rigid] [empty]
 glue : 4.0 plus 2.0 minus 88.0 [interword space]
 glue : 4.0 plus 2.0 minus 88.0 [interword space]
 glue : 4.0 plus 2.0 minus 88.0 [interword space]
 glue : 4.0 plus 2.0 minus 88.0 [interword space]
 glue : 4.0 plus 2.0 minus 88.0 [interword space]
 glue : 4.0 plus 2.0 minus 88.0 [interword space]
 cost : \penalty 10000 [never]
 glue : 0.0 plus 100.0 [from \parfillskip]
 glue : 0.0 [from \rightskip]
 glue : 0.0 plus 42.0 minus 8.0 [from \parskip]
 glue : 1.8 [\baselineskip (adjusted)]
 hbox : [id=763] (8.2 + 0.0) × 100.0, stretched using 0.9301, contains 8 items
 glue : 3.0 [from \leftskip]
 hbox : [id=758] (0.0 + 0.0) × 0.0 [rigid] [empty]
 \$mth : inserting \mathsurround=0.0pt before starting math formula
 hbox : [id=761] (0.0 + 0.0) × 3.99 [rigid, shifted by -8.2], contains 4 items
 [uses font |smalltrip = trip.tfm magnified by 500/1000 [0.5]]
 glue : 0.0 minus -0.00003fil
 text : |smalltrip M [1 char, wd=3.0pt] [M = "4D = 77]
 kern : 1.0
 glue : \nonscript [suppress next glue/kern]
 mth\$: inserting \mathsurround=0.0pt after ending math formula
 cost : \penalty 10000 [never]
 glue : 0.0 plus 100.0 [from \parfillskip]
 glue : 0.0 [from \rightskip]
 glue : 0.0 plus 1.0fill [\vfill]
 glue : 0.0 plus 42.0 minus 8.0 [from \parskip]
 glue : 10.0 [\baselineskip (adjusted)]
 hbox : [id=771] (0.0 + 0.0) × 100.0, stretched using 0.97, contains 9 items
 glue : 3.0 [from \leftskip]
 hbox : [id=765] (0.0 + 0.0) × 0.0 [rigid] [empty]
 \$mth : inserting \mathsurround=0.0pt before starting math formula
 hbox : [id=766] (0.0 + 0.0) × 0.0 [rigid] [empty]
 hbox : [id=769] (0.0 + 0.0) × 0.0 [rigid] [empty]
 mth\$: inserting \mathsurround=0.0pt after ending math formula
 cost : \penalty 10000 [never]
 glue : 0.0 plus 100.0 [from \parfillskip]

```

glue : 0.0 [from \rightskip]
mark : {twain} [5 chars]
glue : 0.0 plus 1.0fill [\vfill]
glue : 0.0 plus 1.0fil [\vfil]
glue : 0.0 plus -1.0fil [\vfilneg]
glue : 0.0 plus 1.0fil minus 1.0 [\vss]
glue : 0.0 plus 42.0 minus 8.0 [from \parskip]
glue : 10.0 [\baselineskip (adjusted)]
hbox : [id=775] (0.0 + 0.0) × 100.0, stretched using 0.97, contains 8 items
glue : 3.0 [from \leftskip]
hbox : [id=772] (0.0 + 0.0) × 0.0 [rigid] [empty]
$mth : inserting \mathsurround=0.0pt before starting math formula
hbox : [id=773] (0.0 + 0.0) × 0.0 [rigid], contains 3 items
[uses font |ip = trip.tfm [unscaled]]
text : |ip tt [2 chars, total wd=0.0pt] [ `t = "74 = 116] [ `t = "74 = 116]
glue : 0.0 plus -1.0fil [\hfilneg]
mth$ : inserting \mathsurround=0.0pt after ending math formula
cost : \penalty 10000 [never]
glue : 0.0 plus 100.0 [from \parfillskip]
glue : 0.0 [from \rightskip]
glue : 0.0 plus 42.0 minus 8.0 [from \parskip]
glue : 10.0 [\baselineskip (adjusted)]
hbox : [id=779] (0.0 + 0.0) × 1.42262, shrunk using -0.20552, contains 7 items
glue : 0.0154 minus 3.21002 [from \tabskip]
hbox : [id=776] (0.0 + 0.0) × 0.0 [rigid] [empty]
glue : 0.0154 minus 3.21002 [from \tabskip]
hbox : [id=777] (0.0 + 0.0) × 0.0 [rigid] [empty]
glue : 0.0154 minus 3.21002 [from \tabskip]
hbox : [id=778] (0.0 + 0.0) × 4.0, stretched using 0.0 [empty]
glue : 0.0154 minus 3.21002 [from \tabskip]
glue : 10.0 [\baselineskip (adjusted)]
hbox : [id=783] (0.0 + 0.0) × 1.42262, shrunk using -0.20552, contains 7 items
glue : 0.0154 minus 3.21002 [from \tabskip]
hbox : [id=780] (0.0 + 0.0) × 0.0 [rigid] [empty]
glue : 0.0154 minus 3.21002 [from \tabskip]
hbox : [id=781] (0.0 + 0.0) × 0.0 [rigid] [empty]
glue : 0.0154 minus 3.21002 [from \tabskip]
hbox : [id=782] (0.0 + 0.0) × 4.0 [rigid], contains 1 item
glue : 4.0 plus 2.0 minus 88.0 [interword space]
glue : 0.0154 minus 3.21002 [from \tabskip]
glue : 0.0 plus 40.0 [from \lineskip]
hbox : [id=809] (3545.60136 + 140.80052) × 2070.00168 [rigid], contains 8 items
[uses font |ip = trip.tfm [unscaled]]
glue : 6.0 plus 4.0 minus 44.0 [interword space]
$mth : inserting \mathsurround=0.0pt before starting math formula
hbox : [id=791] (3545.60136 + 140.80052) × 614.40031 [rigid], contains 2 items
hbox : [id=789] (1638.40019 + 409.6015) × 614.40031 [rigid, shifted by -268.80098], contains 1 item
[uses font |enorm = trip.tfm at 2047.99998pt]
text : |enorm b [1 char, wd=614.40031pt] [ `b = "62 = 98]
vbox : [id=790] (3545.60136 + 0.0) × 0.0 [rigid], contains 4 items
kern : 1638.40019
rule : (ht+dp)=(1638.40019+0.0) wd=*
kern : 268.80098
hbox : [id=788] (0.0 + 0.0) × 0.0 [rigid] [empty]
glue : -0.00002 plus 2.0fill minus -0.00005 [from \thinmuskip]
hbox : [id=807] (109.40036 + 95.40038) × 1446.60138 [rigid], contains 6 items
[uses font |ip = trip.tfm [unscaled]]
vbox : [id=795] (-1.00002 + 26.9999) × 7.0 [rigid, shifted by -20.99995], contains 10 items
hbox : [id=805] (-1.00002 + 2.0) × 7.0 [rigid], contains 1 item

```

```

      [uses font |ip = trip.tfm [unscaled]]
text : |ip ^^@ [1 char, wd=7.0pt] [^^@ = "00 = 0 = <null>]
hbox : [id=804] (-1.00002 + 2.0) x 7.0 [rigid], contains 1 item
      [uses font |ip = trip.tfm [unscaled]]
text : |ip ^^@ [1 char, wd=7.0pt] [^^@ = "00 = 0 = <null>]
hbox : [id=803] (-1.00002 + 2.0) x 7.0 [rigid], contains 1 item
      [uses font |ip = trip.tfm [unscaled]]
text : |ip ^^@ [1 char, wd=7.0pt] [^^@ = "00 = 0 = <null>]
hbox : [id=802] (-1.00002 + 2.0) x 7.0 [rigid], contains 1 item
      [uses font |ip = trip.tfm [unscaled]]
text : |ip ^^@ [1 char, wd=7.0pt] [^^@ = "00 = 0 = <null>]
hbox : [id=801] (7.0 + 1.0) x 3.0 [rigid], contains 1 item
      [uses font |ip = trip.tfm [unscaled]]
text : |ip A [1 char, wd=2.0pt] [A = "41 = 65]
hbox : [id=800] (-1.00002 + 2.0) x 7.0 [rigid], contains 1 item
      [uses font |ip = trip.tfm [unscaled]]
text : |ip ^^@ [1 char, wd=7.0pt] [^^@ = "00 = 0 = <null>]
hbox : [id=799] (-1.00002 + 2.0) x 7.0 [rigid], contains 1 item
      [uses font |ip = trip.tfm [unscaled]]
text : |ip ^^@ [1 char, wd=7.0pt] [^^@ = "00 = 0 = <null>]
hbox : [id=798] (-1.00002 + 2.0) x 7.0 [rigid], contains 1 item
      [uses font |ip = trip.tfm [unscaled]]
text : |ip ^^@ [1 char, wd=7.0pt] [^^@ = "00 = 0 = <null>]
hbox : [id=797] (-1.00002 + 2.0) x 7.0 [rigid], contains 1 item
      [uses font |ip = trip.tfm [unscaled]]
text : |ip ^^@ [1 char, wd=7.0pt] [^^@ = "00 = 0 = <null>]
hbox : [id=796] (8.0 + 2.0) x 3.0 [rigid], contains 1 item
      [uses font |ip = trip.tfm [unscaled]]
text : |ip B [1 char, wd=3.0pt] [B = "42 = 66]
text : |ip A [1 char, wd=2.0pt] [A = "41 = 65]
kern : 1.0
text : |ip a [1 char, wd=2.0pt] [a = "61 = 97]
kern : 1.0
hbox : [id=806] (-204.80077 + 409.6015) x 1433.60138 [rigid, shifted by -314.20113], contains 1 item
      [uses font |enorm = trip.tfm at 2047.99998pt]
text : |enorm ^^@ [1 char, wd=1433.60138pt] [^^@ = "00 = 0 = <null>]
mth$ : inserting \mathsurround=0.0pt after ending math formula
liga : |ip A <-- {AA} [2-char] [1 char, wd=2.0pt] [A = "41 = 65]
kern : 1.0 [explicit]
glue : 0.0 plus 42.0 minus 8.0 [from \parskip]
glue : 0.0 plus 40.0 [from \lineskip]
hbox : [id=811] (0.0 + 0.0) x 100.0, stretched using 0.97, contains 5 items
      glue : 3.0 [from \leftskip]
      hbox : [id=810] (0.0 + 0.0) x 0.0 [rigid] [empty]
      cost : \penalty 10000 [never]
      glue : 0.0 plus 100.0 [from \parfillskip]
      glue : 0.0 [from \rightskip]
cost : \penalty 97
glue : 10.0 [\baselineskip (adjusted)]
hbox : [id=813] (0.0 + 0.0) x 0.03079 [rigid], contains 3 items
      glue : 0.0154 minus 3.21002 [from \tabskip]
      hbox : [id=812] (0.0 + 0.0) x 0.0 [rigid] [empty]
      glue : 0.0154 minus 3.21002 [from \tabskip]
cost : \penalty 97
cost : \penalty 97
glue : 10.0 [\baselineskip (adjusted)]
hbox : [id=817] (0.0 + 0.0) x 0.03079 [rigid], contains 3 items
      glue : 0.0154 minus 3.21002 [from \tabskip]
      hbox : [id=816] (0.0 + 0.0) x 0.0 [rigid] [empty]

```



```

glue : 0.0154 minus 3.21002          [from \tabskip]
cost : \penalty 97
glue : 10.0                            [\baselineskip (adjusted)]
hbox : [id=819] (0.0 + 0.0) × 0.03079 [rigid], contains 3 items
  glue : 0.0154 minus 3.21002          [from \tabskip]
  hbox : [id=818] (0.0 + 0.0) × 0.0 [rigid] [empty]
  glue : 0.0154 minus 3.21002          [from \tabskip]
cost : \penalty 97
glue : 0.0 plus 42.0 minus 8.0         [from \parskip]
glue : 10.0                            [\baselineskip (adjusted)]
hbox : [id=829] (0.0 + 0.0) × 100.0, stretched using 0.966, contains 6 items
  glue : 3.0                            [from \leftskip]
  hbox : [id=828] (0.0 + 0.0) × 0.0 [rigid] [empty]
  rule : (ht+dp)=(***) wd=0.4
  cost : \penalty 10000 [never]
  glue : 0.0 plus 100.0                  [from \parfillskip]
  glue : 0.0                            [from \rightskip]

[[ ++++++ Pending Contributions to Page 15 ++++++ ]]
Previous depth ignored, 1 line in previous paragraph
1 item:
rule : (ht+dp)=(0.4+0.0) wd=*

[[ ##### Current Nested Layout Lists ##### ]]
[Line 440] math mode entered [empty list]
[Line 439] math mode entered [2 items]
math : [operator] [\limits] vbox : [id=841] (0.0 + 0.0) × 0.0 [rigid], contains 1 item
  glue : 0.0 plus 1.0fil minus 1.0fil    [\vss]
  superscript = list [1 item]
  pick : \mathchoice
  ---- display choice [empty]
  ---- text choice [1 item]
    math : [ordinary] \fam 1 a    [`a = "61 = 97]
  ---- script choice [1 item]
    math : [ordinary] \fam 1 A    [`A = "41 = 65]
    subscript = {}
  ---- scriptscript choice [1 item]
    pick : \mathchoice
    ---- display choice [empty]
    ---- text choice [empty]
    ---- script choice [2 items]
      math : [ordinary] {}
      math : [ordinary] list [1 item]
      math : [fraction] thickness=default
      numer = list [1 item]
      math : [ordinary] \fam 1 B    [`B = "42 = 66]
      denom = {}
    ---- scriptscript choice [empty]
  math : [ordinary] empty
[Line 434] restricted horizontal mode entered [spacefactor=1000] [1 item]
vbox : [id=840] (17.0 + 1.0) × 100.0 [rigid], contains 4 items
hbox : [id=837] (7.0 + 1.0) × 100.0, stretched using 0.85294, contains 12 items
  [uses font |ip = trip.tfm [unscaled]]
  glue : 3.0                            [from \leftskip]
  hbox : [id=836] (0.0 + 0.0) × 0.0 [rigid] [empty]
  disc : if breaking here, leave as is
  glue : 0.0 plus 2.0 minus 88.0         [interword space]
  liga : |ip A <-- {BB} [2-char]         [1 char, wd=2.0pt] [`A = "41 = 65]
  kern : 2.0

```

```

liga : |ip A <-- {BB} [2-char]          [1 char, wd=2.0pt] [ `A = "41 = 65]
kern : 2.0
liga : |ip A <-- {BB} [2-char]          [1 char, wd=2.0pt] [ `A = "41 = 65]
cost : \penalty 10000 [never]
glue : 0.0 plus 100.0                   [from \parfillskip]
glue : 0.0                               [from \rightskip]
glue : 0.0 plus 42.0 minus 8.0          [from \parskip]
glue : 2.0                               [\baselineskip (adjusted)]
hbox : [id=839] (7.0 + 1.0) x 100.0, stretched using 0.85294, contains 12 items
      [uses font |ip = trip.tfm [unscaled]]
      glue : 3.0                          [from \leftskip]
hbox : [id=838] (0.0 + 0.0) x 0.0 [rigid] [empty]
disc : if breaking here, leave as is
glue : 0.0 plus 2.0 minus 88.0          [interword space]
liga : |ip A <-- {BB} [2-char]          [1 char, wd=2.0pt] [ `A = "41 = 65]
kern : 2.0
liga : |ip A <-- {BB} [2-char]          [1 char, wd=2.0pt] [ `A = "41 = 65]
kern : 2.0
liga : |ip A <-- {BB} [2-char]          [1 char, wd=2.0pt] [ `A = "41 = 65]
cost : \penalty 10000 [never]
glue : 0.0 plus 100.0                   [from \parfillskip]
glue : 0.0                               [from \rightskip]
[Line 0] vertical mode entered [1 item] [= pending contributions list]
[[ - - - - - End of Nested Layout Lists - - - - - ]]

{}: leaving math group [level 4 at line 440]
  restoring [parameter] \showboxdepth to 1
    [parameter] \showboxbreadth to 2
    [parameter] \tracingcommands to 2
  Returning from \showlonglists, resuming reading from file "trip.tex"
{$}: leaving math group [level 3 at line 440]
  appending hbox, with \mathsurround=0.0pt on either side
  restoring [parameter] \fam to 0
>> restricted horizontal mode
  {}: leaving \hbox group [level 2 at line 434]
  restoring [name] \x to 200
... {\setbox}: \box9 = hbox : [id=852] (19.6 + 1.0) x 100.98999 [rigid] [6 items] [was void]
> vertical mode
  {\showboxbreadth}: 9 [was 2]
  {\showboxdepth} ...

  Calling ^M->|relax
... {\showboxdepth}: 9 [was 1]
  {|relax}
  Returning from ^M, resuming reading from file "trip.tex"
  {\showbox}: \box9

Line 441 | \showbox 9
hbox : [id=852] (19.6 + 1.0) x 100.98999 [rigid], contains 6 items
vbox : [id=840] (17.0 + 1.0) x 100.0 [rigid], contains 4 items
hbox : [id=837] (7.0 + 1.0) x 100.0, stretched using 0.85294, contains 12 items
      [uses font |ip = trip.tfm [unscaled]]
      glue : 3.0                          [from \leftskip]
hbox : [id=836] (0.0 + 0.0) x 0.0 [rigid] [empty]
disc : if breaking here, leave as is
glue : 0.0 plus 2.0 minus 88.0          [interword space]
liga : |ip A <-- {BB} [2-char]          [1 char, wd=2.0pt] [ `A = "41 = 65]
kern : 2.0
liga : |ip A <-- {BB} [2-char]          [1 char, wd=2.0pt] [ `A = "41 = 65]

```

```

kern : 2.0
liga : |ip A <-- {BB} [2-char]          [1 char, wd=2.0pt] [ `A = "41 = 65]
etc. : 3 unshown items ...              [\showboxbreadth=9]
glue : 0.0 plus 42.0 minus 8.0          [from \parskip]
glue : 2.0                               [\baselineskip (adjusted)]
hbox : [id=839] (7.0 + 1.0) × 100.0, stretched using 0.85294, contains 12 items
      [uses font |ip = trip.tfm [unscaled]]
glue : 3.0                               [from \leftskip]
hbox : [id=838] (0.0 + 0.0) × 0.0 [rigid] [empty]
disc : if breaking here, leave as is
glue : 0.0 plus 2.0 minus 88.0          [interword space]
liga : |ip A <-- {BB} [2-char]          [1 char, wd=2.0pt] [ `A = "41 = 65]
kern : 2.0
liga : |ip A <-- {BB} [2-char]          [1 char, wd=2.0pt] [ `A = "41 = 65]
kern : 2.0
liga : |ip A <-- {BB} [2-char]          [1 char, wd=2.0pt] [ `A = "41 = 65]
etc. : 3 unshown items ...              [\showboxbreadth=9]
$mith : inserting \mathsurround=0.0pt before starting math formula
vbox : [id=842] (19.6 + 0.0) × 0.99 [rigid], contains 4 items
kern : 10.0
hbox : [id=845] (3.5 + 4.1) × 0.99 [rigid], contains 2 items
      [uses font |smalltrip = trip.tfm magnified by 500/1000 [0.5]]
text : |smalltrip A                      [1 char, wd=1.0pt] [ `A = "41 = 65]
hbox : [id=843] (0.0 + 0.0) × -0.01 [rigid, shifted by 4.1] [empty]
kern : 2.0
hbox : [id=848] (0.0 + 0.0) × 0.99, stretched using 0.49501fil, contains 3 items
glue : 0.0 plus 1.0fil minus 1.0fil      [\hss]
vbox : [id=841] (0.0 + 0.0) × 0.0 [rigid], contains 1 item
glue : 0.0 plus 1.0fil minus 1.0fil      [\vss]
glue : 0.0 plus 1.0fil minus 1.0fil      [\hss]
glue : -0.00002 plus 2.0fill minus -0.00005 [from \thinmuskip]
hbox : [id=850] (0.0 + 0.0) × 0.0 [rigid] [empty]
mth$ : inserting \mathsurround=0.0pt after ending math formula

{|PAR}: [building more page]
{|}: entering simple group [level 2 at line 441]
{|output}:
  was->{|showthe |deadcycles |global |advance |countz by1|global |globaldefs -1 |gdef |local
        {|unvbox 255|end |rb }
{|penalty}: -10001 [always] [appending to vertical list]

% t=3796.80188 plus 332.0 plus 2.0fil plus -803.0fill minus 49.0 g=10000.0 b=0 p=-10001 [always] c=-10001# [# = best break so far]

[-2.2.-1118806.0.11.196608.327680.1572864.1073741823]
No delayed output items to execute.
<<<< Page 15 done >>>>

{|deadcycles}: 2
{|}: leaving simple group [level 2 at line 441]
  restoring [parameter] \output->{|showthe |deadcycles |global |advance |countz by1|global |globaldefs -1 |gdef |local
  {|unvbox 255|end |rb }
{|scrollmode} ...

Warning : JSBox does not support scroll mode. Using \nonstopmode instead.
Line 441 : \showbox9\PAR{\output}{\penalty-10001\deadcycles=2}\scrollmode%
          ~~~~~~
... {|scrollmode}: [was batch]
{|hbox} ...
>> restricted horizontal mode

```



```

... {hbox}: appending hbox : [id=854] (0.0 + 0.0) × 0.0 [rigid] [1 item]

%% goal height=16383.99998, max depth=2.0

> vertical mode
  {end}: [not yet] cleaning up leftover lists

% t=20.0 plus 1.0fil          g=16383.99998 b=0 p=0 c=0#    [# = best break so far]
% t=20.0 plus 1.0fil plus 1.0fill  g=16383.99998 b=0 p=-1073741824 [always] c=-1073741824# [# = best break so far]

    Pushing \output->{\showthe \deadcycles \global \advance \countz by1\global \globaldefs -1 \gdef \local
    {}\unvbox 255\end \rb }

>> internal vertical mode
    {{}: entering \output group [level 2 at line 443]
    {showthe} ...
    {deadcycles}: 3
    ... {showthe}:

Line 443 | \showthe \deadcycles
3

    {global}
    {advance}: \countz [-2 + 1 = -1]
    {global}
    {globaldefs}: -1 [was 0]
    {gdef}: local->
    {unvbox}: appending contents of \box255 to vertical list; voiding register
    {end}: [not yet] returning layout to normal vertical mode [now in internal vertical mode]

>ERROR< | The end command is illegal in internal vertical mode. Ignoring it.
Line 443 | \escapechar127\global\tracingoutput1\global\escapechar256\end

    {rb}: } [end-group]

>ERROR< | Output routine has unbalanced braces.
TokList | ... \gdef \local {}\unvbox 255\end \rb }
Line 443 | \escapechar127\global\tracingoutput1\global\escapechar256\end

    {}}: leaving \output group [level 2 at line 443]
    restoring [macro] \local to undefined
    Returning from \output

%% goal height=16383.99998, max depth=2.0

% t=20.0 plus 1.0fil          g=16383.99998 b=0 p=0 c=0#    [# = best break so far]

> vertical mode
  {end}: [not yet] cleaning up leftover lists

% t=20.0 plus 1.0fil plus 1.0fill  g=16383.99998 b=0 p=0 c=0#    [# = best break so far]
% t=20.0 plus 1.0fil plus 2.0fill  g=16383.99998 b=0 p=-1073741824 [always] c=-1073741824# [# = best break so far]

>ERROR< | User \output routine has been called \maxdeadcycles=3 times without calling \shipout.
| Ignoring \output and calling \shipout on \box255 now.
Line 443 | \escapechar127\global\tracingoutput1\global\escapechar256\end

Shipping out a completed page [-1.2.-1118806.0.11.196608.327680.1572864.1073741823]:
  vbox : [id=858] (16383.99998 + 0.0) × 100.0, stretched using 8182.0fill, contains 7 items

```

```

glue : 20.0 plus 1.0fil [from \topskip]
hbox : [id=854] (0.0 + 0.0) × 0.0 [rigid], contains 1 item
  file : \write [log file] {\if 01{\else unbal}\fi }
hbox : [id=855] (0.0 + 0.0) × 100.0 [rigid] [empty]
glue : 0.0 plus 1.0fill [\vfill]
cost : \penalty 10000 [never]
hbox : [id=857] (0.0 + 0.0) × 100.0 [rigid] [empty]
glue : 0.0 plus 1.0fill [\vfill]

```

Executing and removing delayed output items (but retaining \specials) ...

> write [shipout] mode

```

  {write} ...
  {if}: '0' = '1' ? false
  {else}: true

```

>ERROR< | Found "fi". Unbalanced \write has fewer real '{'s than '}'s. Some material will be ignored.

```

TokList | \if 01{\else unbal}\fi
        | ^^^

```

Line 443 | \escapechar127\global\tracingoutput1\global\escapechar256\end

```

... {write}: [to "trip.log"]

```

unbal

... finished executing delayed output items.

<<<< Page 16 done >>>>

> vertical mode

```

  {end}

```

>ERROR< | Unexpected end. Inserting \endgroup to end current semi simple group context.

Line 443 | \escapechar127\global\tracingoutput1\global\escapechar256\end

```

  {endgroup [internal]}: leaving semi simple group [level 1 at line 430]
                        restoring [parameter] \showboxdepth to 1
                        [parameter] \showboxbreadth to 2
                        [register] \box9 to void
                        [macro] \l to \long macro:#1->

```

4 fonts loaded and used in job:

```

1: ip      = trip.tfm [unscaled]
2: smalltrip = trip.tfm magnified by 500/1000 [0.5]
3: bigtr^^@p = trip.tfm at 20.0pt
4: enorm    = trip.tfm at 2047.99998pt

```

Warning : Input file channel 0 is still open. Closing tripos.tex.

Warning : Output file channel 0 is still open. Closing 8terminal.tex.

Layout contains approximately 33 spacer-separated text objects (usually words).

Run time: 0.159 second