This is a list of all corrections made to *Computers & Typesetting* between 15 March 1992 and the publication of the final printed versions of those books. Corrections made to the softcover version of *The T_EXbook* are the same as corrections to Volume A. Corrections to the softcover version of *The METAFONTbook* are the same as corrections to Volume C. Changes to Volume B refer to the fourth printing (1991), which differs markedly from earlier printings because it includes all the revisions for T_EX3.0. Changes to Volume D refer to the third printing (1991), which differs markedly from earlier printings because it includes all the revisions for METAFONT2.0. Changes to the mini-indexes and master indexes of Volumes B and D are not shown here unless they are not obviously derivable from what has been shown.

Page A23, line 14 (9/1/92)

a command and you type '`tex`' or '`run tex`' or something like that.)

Page A53, line 23 (7/7/92)

scientiarum imperialis petropolitanæ became *Akademiiâ Nauk SSSR, Doklady.*

Page A146, line 2 from the bottom (2/25/93)

`$\bigl| |x|-|y| \bigr|$` $\bigl||x|-|y|\bigr|$

Page A149, lines 3–5 (2/25/93)

example, we used `\bigl` and `\bigr` to produce $\bigl||x|-|y|\bigr|$ in one of the previous illustrations; `\left` and `\right` don't make things any bigger than necessary, so '`$\left|\left|x\right|-\left|y\right|\right|$`' yields only '$\bigl||x|-|y|\bigr|$'.

Page A158, line 18 from the bottom (2/25/93)

are four possibilities for each of these fields. A field can be

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Page A282, line 9 from the bottom (7/8/92)

category 4) are intercepted by the alignment process, en route to T_EX's stomach, so

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Page A293, new paragraph after line 15 (4/9/92)

■ `\unhbox`⟨8-bit number⟩, `\unhcopy`⟨8-bit number⟩. The specified box register must be void. Nothing happens.

Page A309, line 23 (7/7/92)

`petropolitan\ae\/} became {\sl Akademi\t\i a Nauk SSSR, Doklady}.`

Page A320, line 11 (1/26/93)

17.12. `$\bigl(x+f(x)\bigr) \big/ \bigl(x-f(x)\bigr)$`.   Notice especially the

Page A349, second line from the bottom   (7/8/92)

---
expand to a ⟨number⟩ en route to TEX's "stomach"; `\multiply` wouldn't work, because

---
Page A358, bottom line   (2/3/93)

---
it is easy to define `\ldots` and `\cdots` macros that give the proper spacing in most

---
Page A370, lines 28 and 29   (9/1/92)

---
example, if TEX is implemented for a purely Cyrillic keyboard, the letter 'п' should be
assigned to code ´160 and 'т' to code ´164, so that 'пт' still means 'pt'; or else control

---
Page A377, lines 17–24   (5/4/92)

```
\def\sanswitch{\let\n@xt\endsanity \ifx\next\endsanity
  \else\ifcat\noexpand\next\stoken\aftergroup\space\let\n@xt=\eat
   \else\ifcat\noexpand\next\bgroup\aftergroup{\let\n@xt=\eat
    \else\ifcat\noexpand\next\egroup\aftergroup}\let\n@xt=\eat
     \else\let\n@xt=\copytok\fi\fi\fi\fi \n@xt}
\def\eat{\afterassignment\sanitize \let\next= }
\long\def\copytok#1{\ifcat\noexpand#1\relax\aftergroup\noexpand\fi
  \ifcat\noexpand#1\noexpand~\aftergroup\noexpand\fi
```

Page A455, line 25   (2/26/93)

---
rent language" is set equal to `\language`. Whenever a character is added to the cur-

---
Page A459, second line of entry for ampersand   (3/22/92)

Page A461, right column   (2/19/93)

Page A467, left column   (2/25/93)

Page A470, left column   (2/25/93)

Page A471, left column   (2/19/93)

Page A474, right column   (3/22/92)

Page A477, right column   (3/22/92)

Page A480, left column   (4/9/92)

Page A481, left column   (2/25/93)

Page A483, lines 15–21   (2/25/93)

```
P.O. Box 869
Santa Barbara, CA 93102-0869 USA.
}
```

Don't delay, write today! That number again is

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Santa Barbara, CA 93102-0869 USA.

Page B2, line 10 from the bottom   (2/27/93)

---

define *banner* ≡ ´This␣is␣TeX,␣Version␣3.1415´   { printed when TEX starts }

Page B89, line 12   (2/27/93)

In horizontal mode, the *prev_graf* field is used for initial language data.

Page B89, line 20   (2/27/93)

---

pg_field, *ml_field*: *integer*; *aux_field*: *memory_word*;
[Also delete the definitions of *lhmin* and *rhmin*, lines 32 and 33.]

Page B90, line 13   (2/27/93)

---

prev_depth ← *ignore_depth*; *mode_line* ← 0; *prev_graf* ← 0;

Page B91, top three lines   (2/27/93)

---

if *m* = *hmode* **then if** *nest*[*p*].*pg_field* ≠ ´40600000 **then**
  begin *print*("␣(language"); *print_int*(*nest*[*p*].*pg_field* **mod** ´200000);
  print(":hyphenmin"); *print_int*(*nest*[*p*].*pg_field* **div** ´20000000); *print_char*(",");
  print_int((*nest*[*p*].*pg_field* **div** ´200000) **mod** ´100); *print_char*(")");

Page B344, lines 21 and 22   (2/27/93)

This code assumes that a *glue_node* and a *penalty_node* occupy the same number of *mem* words.

Page B344, line 30   (2/27/93)

$link(tail) \leftarrow new\_param\_glue(par\_fill\_skip\_code);$ $init\_cur\_lang \leftarrow prev\_graf$ **mod** $'200000;$
$init\_l\_hyf \leftarrow prev\_graf$ **div** $'20000000;$ $init\_r\_hyf \leftarrow (prev\_graf$ **div** $'200000)$ **mod** $'100;$ $pop\_nest;$

Page B353, line 4   (2/27/93)

Kern nodes do not disappear at a line break unless they are *explicit*.

Page B353, lines 15 and 16   (2/27/93)

$math\_node$: $break\_width[1] \leftarrow break\_width[1] - width(s);$
$kern\_node$: **if** $subtype(s) \neq explicit$ **then goto** *done*
  else $break\_width[1] \leftarrow break\_width[1] - width(s);$

Page B354, lines 6 and 7   (2/27/93)

will be the background plus l_1, so the length from cur_p to cur_p should be $\gamma + l_0 + l_1 - l$. If the post-break text of the discretionary is empty, a break may also discard q; in that unusual case we subtract the length of q and any other nodes that will be discarded after the discretionary break.

Page B354, line 18   (2/27/93)

begin ⟨ Add the width of node s to *break_width* 842 ⟩;

Page B354, line 22   (2/27/93)

if $post\_break(cur\_p) = null$ **then** $s \leftarrow link(v);$ { nodes may be discardable after the break }

Page B355, top line   (2/27/93)

842.   ⟨ Add the width of node s to *break_width* 842 ⟩ ≡

Page B355, lines 9–14   (2/27/93)

$hlist\_node, vlist\_node, rule\_node, kern\_node$: $break\_width[1] \leftarrow break\_width[1] + width(s);$
othercases $confusion("disc2")$
endcases

Page B364, line 10   (2/27/93)

a glue node, penalty node, explicit kern node, or math node.

Page B366, line 11 from the bottom   (2/27/93)

$kern\_node$: **if** $subtype(cur\_p) = explicit$ **then** $kern\_break$
  else $act\_width \leftarrow act\_width + width(cur\_p);$

Page B367, line 21 (2/27/93)

> **else if** $precedes\_break(prev\_p)$ **then** $try\_break(0, unhyphenated)$
> **else if** $(type(prev\_p) = kern\_node) \wedge (subtype(prev\_p) \neq explicit)$ **then** $try\_break(0, unhyphenated)$;

Page B372, lines 12 and 13 (2/27/93)

> **if** $type(q) = kern\_node$ **then**
>   **if** $subtype(q) \neq explicit$ **then goto** $done1$;

Page B376, line 3 from the bottom (2/27/93)

> $cur\_lang \leftarrow init\_cur\_lang$; $l\_hyf \leftarrow init\_l\_hyf$; $r\_hyf \leftarrow init\_r\_hyf$;

Page B377, lines 11 and 12 (2/27/93)

$cur\_lang, init\_cur\_lang$: $ASCII\_code$; { current hyphenation table of interest }
$l\_hyf, r\_hyf, init\_l\_hyf, init\_r\_hyf$: $integer$; { limits on fragment sizes }

Page B378, line 5 from the bottom, overriding earlier change (2/27/93)

> **else if** $(type(s) = kern\_node) \wedge (subtype(s) = normal)$ **then**
>   **begin** $hb \leftarrow s$; $hyf\_bchar \leftarrow font\_bchar[hf]$; **end**
> **else goto** $done3$;

Page B394, lines 12 and 13 (2/27/93)

> **var** n: $0 \mathinner{.\,.} 64$; { length of current word; not always a $small\_number$ }
> j: $0 \mathinner{.\,.} 64$; { an index into hc }

Page B404, line 21 (2/27/93)

> **var** k, l: $0 \mathinner{.\,.} 64$; { indices into hc and hyf; not always in $small\_number$ range }

Page B460, lines 21 and 22 (2/27/93)

$push\_nest$; $mode \leftarrow hmode$; $space\_factor \leftarrow 1000$; set_cur_lang; $clang \leftarrow cur\_lang$;
$prev\_graf \leftarrow (norm\_min(left\_hyphen\_min) * \mathtt{'}100 + norm\_min(right\_hyphen\_min)) * \mathtt{'}200000 + cur\_lang$;

Page B492, line 6 from the bottom (2/27/93)

$unsave$; $prev\_graf \leftarrow prev\_graf + 3$;
$push\_nest$; $mode \leftarrow hmode$; $space\_factor \leftarrow 1000$; set_cur_lang; $clang \leftarrow cur\_lang$;
$prev\_graf \leftarrow (norm\_min(left\_hyphen\_min) * \mathtt{'}100 + norm\_min(right\_hyphen\_min)) * \mathtt{'}200000 + cur\_lang$;

Page C151, line 11 from the bottom (6/26/93)

> scaled $1.42(1 + \max(-pen\_lft, pen\_rt, pen\_top, -pen\_bot))$

Page C262, line 15 (6/26/93)

string base_name, base_version; base_name="plain"; base_version="2.71";

Page C262, line 29 (6/26/93)

```
def gobble primary g = enddef; def killtext text t = enddef;
```

Page C271, bottom line (6/26/93)

```
 culldraw p enddef;
```

Page C272, three new lines for top of page (6/26/93)

```
def culldraw expr p = addto pic_ doublepath p.t_ withpen currentpen;
 cull pic_ dropping(-infinity,0) withweight default_wt_;
 addto_currentpicture also pic_; pic_:=nullpicture; killtext enddef;
```

Page C272, replacement for former line 5 (6/26/93)

```
  (cut_ scaled (1+max(-pen_lft,pen_rt,pen_top,-pen_bot))
```

Page C296, line 24 (2/3/93)

the definition of `rp` is changed to '`]..tension 4..`', and if '`scaled 5pt`' is inserted

---

Page C299, line 3 (5/15/92)

a Bernshteĭn polynomial of order $n - 1$.)

Page C347, left column (5/15/92)

  Bernshteĭn, Sergeĭ Natanovich, 14.

Page C348, left column (6/26/93)

  `culldraw`, *271*, <u>272</u>.

Page C350, left column (6/26/93)

  exponential, *see* `mexp`.

Page C352, left column (6/26/93)

  `killtext`, <u>262</u>, *272*.

Page C352, right column (6/26/93)

  logarithm, *see* `mlog`.

Page C361, lines 14 and 15 (2/25/93)

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Page Dxiv, line 13 (4/19/96)

---

preprocessor converts these into numeric constants that are 256 or more. This

---

Page Dxiv, line −1 (4/19/96)

This file contains one line per string, starting with string number 256, then number 257,

---

Page Dxv, lines 10 and 11 (4/19/96)

In this case, occurrences of `""` in the `WEB` program will be replaced by 256; occurrences of
`"This longer string"` will be replaced by 257. The symbol `@$` stands for the numeric

---

Page D2, line −17 (8/7/98)

---

define *banner* ≡ ´This␣is␣METAFONT,␣Version␣2.7182´ { printed when METAFONT starts }

Page D50, line 26 (8/7/98)

---

   if $b > 0$ **then**

Page D138, line 14 from the bottom (3/6/95)

   2′) Let $Z_k^{(j+1)} = \frac{1}{2}(Z_k^{(j)} + Z_{k+1}^{(j)})$, for $1 \leq k \leq n - j$, for $1 \leq j < n$.

Page D190, D191, D194, D195 (6/26/93)

[Several changes to the code in sections 415, 416, 424, and 425 were made to METAFONT version
2.71 in July 1991, too numerous to mention here. They are documented in file `mf84.bug` as bug
number 560. We also delete lines 4 and 5 of page D194.]

Page D216, line 10 from the bottom (7/15/92)

---

will be offset by w_1 or w_2, unless its slope drops to zero en route to the eighth octant; in the latter

---

Page D289, lines 9 and 10 (6/26/93)

   $p \leftarrow dep\_list(p);\ \ r \leftarrow inf\_val;$
   repeat if $value(info(p)) \geq value(r)$ **then**

Page D296, lines 8 and 9 from the bottom (9/13/98)

[Delete these spurious lines.]

Page D297, mini-index (6/6/98)

---

    the meaning of *loc* should be 'macro'

Page D310, line 7 (8/7/98)

---

   if $(loc = k + 1) \wedge (length(buffer[k]) = 1)$ **then** $cur\_mod := buffer[k]$

Page D363, lines 10 and 11   (3/1/95)

---

   begin if $(max\_c[dependent]$ **div** $´10000 \geq max\_c[proto\_dependent])$ **then** $t \leftarrow dependent$

Page D512, line 13   (11/23/98)

$print\_int(round\_unscaled(internal[year]));$ $print\_char(\texttt{"."});$

Page D518, insert new material between lines 7 and 8   (3/20/95)

---

while $input\_ptr > 0$ **do**
  if $token\_state$ **then** end_token_list **else** $end\_file\_reading;$
while $loop\_ptr \neq null$ **do** $stop\_iteration;$

Page D518, line 18   (3/20/95)

  $loop\_ptr \leftarrow cond\_ptr;$ $cond\_ptr \leftarrow link(cond\_ptr);$ $free\_node(loop\_ptr, if\_node\_size);$

Page D546, left column   (4/11/96)

    Stern, Moritz Abraham: 526.