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 *Akademiĭa 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)

pound sterling, 54, *339*, 428.

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

sterling, 54, *339*, 428.

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

*\unhbox, 120, 283, <u>285</u>, 293, *354*, *356*, *399*.
*\unhcopy, 120, 283, <u>285</u>, 293, *353*.

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

whatsits, 95, 110, 157, 226–229, 455.

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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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)

$prev\_depth \leftarrow ignore\_depth$; $mode\_line \leftarrow 0$; $prev\_graf \leftarrow 0$;

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

if $m = hmode$ **then if** $nest[p].pg\_field \neq$ ´40600000 **then**
    begin $print("\text{␣}(\texttt{language}")$; $print\_int(nest[p].pg\_field$ **mod** ´200000);
    $print(":\texttt{hyphenmin}")$; $print\_int(nest[p].pg\_field$ **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*) ∧ (*subtype*(*prev_p*) ≠ *explicit*) **then** *try_break*(0, *unhyphenated*);

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

---

    if *type*(*q*) = *kern_node* **then**
      if *subtype*(*q*) ≠ *explicit* **then goto** *done1*;

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

---

cur_lang ← *init_cur_lang*; *l_hyf* ← *init_l_hyf*; *r_hyf* ← *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*) ∧ (*subtype*(*s*) = *normal*) **then**
      begin *hb* ← *s*; *hyf_bchar* ← *font_bchar*[*hf*]; **end**
    else goto *done3*;

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

---

  var *n*: 0 . . 64;   { length of current word; not always a *small_number* }
    j: 0 . . 64;   { an index into *hc* }

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

---

  var *k*, *l*: 0 . . 64;   { indices into *hc* and *hyf*; not always in *small_number* range }

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

---

push_nest; *mode* ← *hmode*; *space_factor* ← 1000; *set_cur_lang*; *clang* ← *cur_lang*;
prev_graf ← (*norm_min*(*left_hyphen_min*) ∗ ´*100* + *norm_min*(*right_hyphen_min*)) ∗ ´*200000* + *cur_lang*;

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

---

unsave; *prev_graf* ← *prev_graf* + 3;
push_nest; *mode* ← *hmode*; *space_factor* ← 1000; *set_cur_lang*; *clang* ← *cur_lang*;
prev_graf ← (*norm_min*(*left_hyphen_min*) ∗ ´*100* + *norm_min*(*right_hyphen_min*)) ∗ ´*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 D190, and subsequent pages   (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.]

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**