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 TEXbook* are the same as corrections to Volume A. Corrections to the softcover version of *The METAfont* book 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 *TEX3.0*. Changes to Volume D refer to the third printing (1991), which differs markedly from earlier printings because it includes all the revisions for *METAfont* 2.0. 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 Akademiïa Nauk SSSR, Doklady.

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

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

**Page A149, lines 3–5** (2/25/93)

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

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

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

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

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

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

- \texttt{\unhbox}(8-bit number), \texttt{\unhcopy}(8-bit number). The specified box register must be void. Nothing happens.

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

petropolitan\ae\} became \{\sl Akademiï\i a Nauk SSSR, Doklady\}.

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

17.12. $\bigl|x+f(x)\bigr|$ $\bigl|\bigl|x-f(x)\bigr|\bigr|$ $\bigl|\bigl|x-f(x)\bigr|\bigr|$. 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

example, if \TeX is implemented for a purely Cyrillic keyboard, the letter ‘Π’ should be
assigned to code ‘160’ and ‘Τ’ to code ‘164’, so that ‘ΠΤ’ still means ‘pt’; or else control

Page A377, lines 17–24 (5/4/92)
\def\sanswitch{\let\n@xt\endsanity \ifnext\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 \n@xt}
\def\eat{\afterassignment\sanitize \let\next=} \ifnext\copytok\relax\aftergroup
\else\ifcat\noexpand\next\aftergroup\fi \ifcat\noexpand\aftergroup\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)
\chardef, 44, 121, 155, 210, 214, 215, 271, 277, 336, 345, 356, 452.
⟨chardef token⟩, 271, 283, 286, 289.

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

Page A470, left column (2/25/93)
margins, see \hoffset, \hsize, \narrower.

Page A471, left column (2/19/93)
\mathchardef, 155, 199, 214, 215, 271, 277, 289, 336, 358, 394.
⟨mathchardef token⟩, 271, 289.
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, 285, 293, 354, 356, 399.
*\unhcopy, 120, 283, 285, 293, 353.

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

whatsits, 95, 110, 157, 226-229, 455.

Page A483, lines 15–21 (2/25/93)

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

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

\begin{verbatim}
define banner \equiv "This is TeX Version 3.1415" \{ printed when \TeX{} starts \}
\end{verbatim}

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{verbatim}
begin print("\(_\langle\text{language}\rangle\)\); print_int(nest[p].pg_field mod \'200000); 
print("\_\langle\text{hyphenmin}\rangle\); print_int(nest[p].pg_field div \'20000000); print_char("\_\langle\text{\*}\rangle\); 
print_int((nest[p].pg_field div \'2000000) mod \'100); print_char("\_\langle\text{\*}\rangle\);
\end{verbatim}
This code assumes that a glue_node and a penalty_node occupy the same number of mem words.

\begin{verbatim}
link(tail) ← new_param_glue(par_fill_skip_code); init_cur_lang ← prev_graf mod '200000;
init_l_hyf ← prev_graf div '20000000; init_r_hyf ← (prev_graf div '200000) mod '100; pop_nest;
\end{verbatim}

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

\begin{verbatim}
math_node: break_width[1] ← break_width[1] − width(s);
kern_node: if subtype(s) ≠ explicit then goto done
           else break_width[1] ← break_width[1] − width(s);
\end{verbatim}

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.

\begin{verbatim}
begin ( Add the width of node \( s \) to break_width 842);
if post_break(cur_p) = null then s ← link(v); { nodes may be discardable after the break }
\end{verbatim}

\section{842.} (Add the width of node \( s \) to break_width 842) ≡

\begin{verbatim}
othercases confusion("disc2")
endcases
\end{verbatim}

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

\begin{verbatim}
kern_node: if subtype(cur_p) = explicit then kern_break
           else act_width ← act_width + width(cur_p);
\end{verbatim}
else if precedes_break(prev_p) then try_break(0, unhyphenated)
else if (type(prev_p) = kern_node) \&\&(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) \&\&(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 . . 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 \leftarrow hmode; space_factor \leftarrow 1000; set_cur_lang; clang \leftarrow cur_lang;
prev_graf \leftarrow (norm_min(left_hyphen_min) \ast 100 + norm_min(right_hyphen_min)) \ast 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) \ast 100 + norm_min(right_hyphen_min)) \ast 200000 + cur_lang;

Page C151, line 11 from the bottom (6/26/93)
scaled 1.42(1 + max(\text{-pen_left, pen_right, pen_top, \text{-pen_bot}))

Page C262, line 15 (6/26/93)
string base_name, base_version; base_name="plain"; base_version="2.71";
def gobble primary g = enddef; def killtext text t = enddef;

culldraw p enddef;

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;

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

Bernshteĭn, Sergeĭ Natanovich, 14.

exponential, see mexp.

killtext, 262, 272.

logarithm, see mlog.

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Preprocessor converts these into numeric constants that are 256 or more. This
This file contains one line per string, starting with string number 256, then number 257,
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

\begin{verbatim}
define banner ≡ 'This is METAfont, Version 2.7182' \{ printed when METAfont starts \}
\end{verbatim}

if \( b > 0 \) then

\[ 2') \text{ Let } Z_k^{(j+1)} = \frac{1}{2}(Z_k^{(j)} + \frac{1}{2}(Z_k^{(j)} + Z_{k+1}^{(j)}), \text{ for } 1 \leq k \leq n - j, \text{ for } 1 \leq j < n. \]

[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.]

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

\begin{verbatim}
p ← dep_list(p); r ← inf_val;
repeat if value(info(p)) ≥ value(r) then
\end{verbatim}

[Delete these spurious lines.]

the meaning of loc should be ‘macro’

if \( (loc = k + 1) \land (length(buffer[k]) = 1) \) then \textit{cur_mod := buffer[k]}
Page D363, lines 10 and 11 (3/1/95)

\textbf{begin if} \ (\texttt{max}_c[\texttt{dependent}] \ \texttt{div} \ 10000 \ \geq \ \texttt{max}_c[\texttt{proto}\_\texttt{dependent}]) \ \textbf{then} \ \texttt{t} \ \leftarrow \ \texttt{dependent}

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

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

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

\texttt{while input\_ptr} > 0 \ \texttt{do}
\begin{itemize}
\item \texttt{if token\_state} \ \texttt{then end\_token\_list else end\_file\_reading;}
\item \texttt{while loop\_ptr} \neq \texttt{null do stop\_iteration;}
\end{itemize}

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

\texttt{loop\_ptr} \leftarrow \texttt{cond\_ptr}; \ \texttt{cond\_ptr} \leftarrow \texttt{link}(\texttt{cond\_ptr}); \ \texttt{free\_node}(\texttt{loop\_ptr}, \texttt{if\_node\_size});

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

Stern, Moritz Abraham: 526.