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 \TeX\book* are the same as corrections to Volume A. Corrections to the softcover version of *The META\FONT\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 META\FONT2.0. 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 `\texttt{tex}' or `\texttt{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)

$\bigl| |x|-|y| \bigr|$  
\[\bigl| |x|-|y| \bigr|\]

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 `\texttt{$\left|\left|x\right|\right|-\left|\left|y\right|\right|$}' yields only `\texttt{|\texttt{x}|-\texttt{y}|}'.

---

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

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

Page A232, 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}\texttt{(8-bit number)}, \texttt{\unhcopy}\texttt{(8-bit number)}. The specified box register must be void. Nothing happens.

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

petropolitanæ/} became \{\texttt{\textsc{akademijat\textbackslash i a nauk sssr, doklady}}\}.

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

17.12. $\bigl(\add\bigl(x+f(x)\bigr)\bigr) \big/ \bigl(\add(x-f(x)\bigr)$ Notice especially the
Page A349, second line from the bottom (7/8/92)

expand to a \(\langle\)number\rangle\ en route to \TeX\’s “stomach”; \verb|\multiply| wouldn’t work, because

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

it is easy to define \verb|\ldots| and \verb|\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 ‘\(\Pi\)’ should be assigned to code ‘\(160\)’ and ‘T’ to code ‘\(164\)’, so that ‘\(\Pi T\)’ still means ‘pt’; or else control

Page A377, lines 17–24 (5/4/92)

\begin{verbatim}
def\sanswitch{\let\nostxt\endsanity \ifnext\endsanity
  \else\ifcat\noexpand\next\stoken\aftergroup\space\let\nostxt=\eat
  \else\ifcat\noexpand\next\bgroup\aftergroup{\let\nostxt=\eat
    \else\let\nostxt=\copytok\fi\fi\fi\fi \nostxt}
def\eat{\afterassignment\sanitize \let\next= }
\long\def\copytok#1{\ifcat\noexpand#1\relax\aftergroup\noexpand\fi
  \ifcat\noexpand#1\noexpand~\aftergroup\noexpand\fi
\end{verbatim}

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

rent language” is set equal to \verb|\language|. Whenever a character is added to the cur-

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

\begin{verbatim}231–248, 282, 339, 344, 385–386, 428.\end{verbatim}

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

\begin{verbatim}^*\chardef, 44, 121, 155, 210, 214, 215, 271, 277, 336, 343, 345, 356, 452.\end{verbatim}

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

Greek, 127–128, 137, 156, 164, 319, 358, 430, 434.

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

margins, see \verb|\hoffset|, \verb|\hsize|, \verb|\narrower|.

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

\begin{verbatim}^*\mathchardef, 155, 199, 214, 215, 271, 277, 289, 336, 395, 394.\end{verbatim}
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, 283, 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

\TeX\ Users Group
P.O. Box 869
Santa Barbara, CA 93102-0869 USA.

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

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

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

In horizontal mode, the \texttt{prevgraf} field is used for initial language data.

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

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

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

\texttt{prev_depth \leftarrow \texttt{ignore_depth}; mode_line \leftarrow 0; prevgraf \leftarrow 0;}

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

\begin{verbatim}
if \texttt{m = hmode then if nest[\texttt{p}].pg_field \neq \texttt{40600000} then begin print("_\texttt{(language)}"); print_int(nest[\texttt{p}].pg_field mod \texttt{200000}); print(".hyphenmin"); print_int(nest[\texttt{p}].pg_field div \texttt{20000000}); print_char("*",*); print_int((nest[\texttt{p}].pg_field div \texttt{20000000}) mod \texttt{100}); print_char("*");
\end{verbatim}
This code assumes that a glue node and a penalty node occupy the same number of mem words.

`link(tail) ← new_param_glue(par_fill_skip_code); init_cur_lang ← prev_graf mod '200000;`  
`init_lhyf ← prev_graf div '2000000; init_rhyf ← (prev_graf div '200000) mod '100; pop_nest;`  

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

`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);`  

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 ⟨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 }`  

`hlist_node, elist_node, rule_node, kern_node: break_width[1] ← break_width[1] + width(s);`  
`othercases confusion("disc2")`  
`endcases`  

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

if type(q) = kern_node then
  if subtype(q) \neq explicit then goto done1;

begin hb \leftarrow s; hyf_bchar \leftarrow font_bchar[hf]; end
else goto done3;

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

pushnest; mode \leftarrow hmode; space_factor \leftarrow 1000; set_cur_lang; clang \leftarrow cur_lang;
prev_graf \leftarrow (\text{norm_min(left_hyphen_min)} * 100 + \text{norm_min(right_hyphen_min)}) * 200000 + cur_lang;

unsave; prev_graf \leftarrow prev_graf + 3;
pushnest; mode \leftarrow hmode; space_factor \leftarrow 1000; set_cur_lang; clang \leftarrow cur_lang;
prev_graf \leftarrow (\text{norm_min(left_hyphen_min)} * 100 + \text{norm_min(right_hyphen_min)}) * 200000 + cur_lang;

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;
(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)))
the definition of \texttt{rp} is changed to '...tension 4...', and if 'scaled 5pt' is inserted
a Bernshtein polynomial of order $n - 1$.)
Berenshtein, Sergei Natanovich, 14.
culldraw, 271, 272.
exponential, see \texttt{mexp}.
killtext, 262, 272.
logarithm, see \texttt{mlog}.
P.O. Box 869
Santa Barbara, CA 93102-0869 USA.
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

define banner ≡ 'This_is_METAfont,,Version_2.7182' { printed when METAfont starts }

if b > 0 then

2') Let \( Z_{k+1}^{(j+1)} = \frac{1}{2}(Z_{k}^{(j)} + Z_{k+1}^{(j)}) \), for \( 1 \leq k \leq n - j \), 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 mf.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

\( p \leftarrow \text{dep}_\text{list}(p); \ r \leftarrow \text{inf}_\text{val}; \)
\text{repeat if } value(\text{info}(p)) \geq value(r) \text{ then}

[Delete these spurious lines.]

the meaning of \( \text{loc} \) should be 'macro'

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

\[ \text{begin if } (\text{max}_c[\text{dependent}] \div 10000 \geq \text{max}_c[\text{proto\_dependent}]) \text{ then } t \leftarrow \text{dependent} \]

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

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

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

\[ \text{while } \text{input\_ptr} > 0 \text{ do } \]
\[ \quad \text{if } \text{token\_state} \text{ then } \text{end\_token\_list} \text{ else } \text{end\_file\_reading}; \]
\[ \text{while } \text{loop\_ptr} \neq \text{null} \text{ do } \text{stop\_iteration}; \]

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

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

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

Stern, Moritz Abraham: 526.