

Bugs in *Computers & Typesetting*

21 September 1990

This is a list of corrections made to *Computers & Typesetting*, Volumes A–E, since the last publication of the Errata and Changes list (25 March 90). Corrections 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.

Page A124, lines 18–21 (9/5/90)

Floating insertions can be accommodated as a special case of split insertions, by making each floating topinsert start with a small penalty, and by having zero as the associated `\floatingpenalty`; non-floating insertions like footnotes are accommodated by associating larger penalties with split insertions (see Appendix B).

Page A165, lines 2–3 (8/13/90)

Type the formula $\bar{\mathbf{x}}^T \mathbf{M} \mathbf{x} = 0 \iff \mathbf{x} = \mathbf{0}$, using as few keystrokes as possible. (The first ‘0’ is roman, the second is bold. The superscript ‘T’ is roman.)

Page A317, line 17 (5/17/90)

`\pretolerance=9999 \tolerance=9999 \parindent=0pt`

Page A321, lines 16–17 (8/13/90)

18.6. `\bf\bar{x}^{\rm T}Mx={\rm 0}\iff x=0$`. (If you typed a space between `\rm` and 0, you wasted a keystroke; but don’t feel guilty about it.)

Page Exiii, replacement for last four lines (4/30/90)

- “AMS Euler—A new typeface for mathematics” by Donald E. Knuth and Hermann Zapf, *Scholarly Publishing* **21** (1989), 131–157. *The story of a design project that helps bridge the gulf between mathematics and art.*

- “Meta-Marks: Preliminary studies for a Pandora’s Box of shapes” by Neenie Billawala, Stanford Computer Science report 1259 (Stanford, California, July 1989), 132 pp. *Lavishly illustrated studies in parameter variation, leading to the design of a new typeface called Pandora.*

Changes to the Programs and Fonts

21 September 1990

TEX

Changes subsequent to errata publication, 25 March 90:

-----Here I draw the line with respect to further changes

390. Uninitialized nullfont parameters (found by Lance Carnes, 11 May 90).

```
@x module 552
hyphen_char[null_font]:="-"; skew_char[null_font]:=-1;
@y
hyphen_char[null_font]:="-"; skew_char[null_font]:=-1;
bchar_label[null_font]:=non_address;
font_bchar[null_font]:=non_char; font_false_bchar[null_font]:=non_char;
@z
```

391. Disable `\write{\the\prevgraf}` (B. Jackowski, July 1990).

```
@x module 422
begin nest[nest_ptr]:=cur_list; p:=nest_ptr;
while abs(nest[p].mode_field)<>vmode do decr(p);
scanned_result(nest[p].pg_field)(int_val);
end
@y
if mode=0 then scanned_result(0)(int_val) {|prev_graf=0| within \.{\write}}
else begin nest[nest_ptr]:=cur_list; p:=nest_ptr;
while abs(nest[p].mode_field)<>vmode do decr(p);
scanned_result(nest[p].pg_field)(int_val);
end
@z
```

392. Report correct line number when buffer overflows (George Russell).

```
@x module 538
begin if input_ln(cur_file,false) then do_nothing;
firm_up_the_line;
if end_line_char_inactive then decr(limit)
else buffer[limit]:=end_line_char;
first:=limit+1; loc:=start; line:=1;
@y
begin line:=1;
if input_ln(cur_file,false) then do_nothing;
firm_up_the_line;
if end_line_char_inactive then decr(limit)
else buffer[limit]:=end_line_char;
first:=limit+1; loc:=start;
@z
```

393. (I sincerely hope that there won't be any more)

METAFONT

Changes since 25 March 1990.

-----Here I draw the line with respect to further changes

555. Don't try system area if an area was given (see tex82.bug number 312; found by Jonathan Kew, May 1990)

@x

```
pack_file_name(cur_name,MF_area,cur_ext);
if a_open_in(cur_file) then goto done;
```

@y

```
if cur_area="" then
begin pack_file_name(cur_name,MF_area,cur_ext);
if a_open_in(cur_file) then goto done;
end;
```

@z

556. Report correct line number when buffer overflows (CET, Jul 90).

@x module 794

```
begin if not input_ln(cur_file,false) then do_nothing;
firm_up_the_line;
buffer[limit]:="%"; first:=limit+1; loc:=start; line:=1;
```

@y

```
begin line:=1;
if input_ln(cur_file,false) then do_nothing;
firm_up_the_line;
buffer[limit]:="%"; first:=limit+1; loc:=start;
```

@z

557. (I sincerely hope that there won't be any more)

Computer Modern fonts

Changes since 25 March 1990.

No current changes.