This is a list of all corrections made to Computers & Typesetting, Volumes A, B, C, and D, between 1 January 1991 and 15 March 1992. Corrections made to the softcover version of The T<sub>F</sub>Xbook 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. Some of the corrections below have already been made in reprintings of the books. 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. Dozens of changes, too many to list here, have been made to Volume E because of recent upgrades to the Computer Modern font source files. Those changes, which affect only the digitization at low resolution and the appearance of lowercase delta and some characters in the math symbols fonts (but not the TFM files), are documented at the end of file cm85.bug.

Page A96, lines 9–11

(9/18/91)

Some German words traditionally change their spelling when they are split between lines. For example, 'backen' becomes 'bak-ken' and 'Bettuch' becomes 'Bett-tuch'. How can you instruct  $T_FX$  to produce such effects?

Page A178, line 17	(11/19/91)
If you say '' in any formula, plain	$T_EX$ will do its
Page A286, bottom two lines and continuing into A287	(11/21/91)

stands for zero or more (assignment) commands other than \setbox. If the assignments are not followed by a (character), where (character) stands for any of the commands just discussed in the previous paragraph, TEX treats \accent as if it were \char, except that the space factor is set to 1000. Otherwise the character that follows the assignment is accented by the character that corresponds to the (8-bit number). (The purpose of the intervening assignments is to allow the accenter and accentee to be in different fonts.) If the accent must be moved up or down, it is put into an hbox that is raised or lowered. Then the accent is effectively superposed on the character by means of kerns, in such a way that the width of the accent does not influence the width of the resulting horizontal list. Finally, TFX sets \spacefactor=1000.

Page A291, lines 6–8	(11)	/21,	/91	I)
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'}' may be followed by optional (assignment) commands other than \setbox, after which '\$\$' must conclude the display.  $T_EX$  will insert the \abovedisplayskip and \belowdisplayskip glue before and after the result of the alignment.

Page A293, line 14	(9/18/91)
explained in Appendix G. T <sub>E</sub> X scans (one optional space) after complet formula; this is usually the implicit space at the end of a line in the in	ting a displayed put file.
Page A311, bottom four lines	(9/18/91)
12.7. 1000, except: 999 after O, B, S, D, and J; 1250 after the com the exclamation point, the right-quote marks, and the periods. If a p just after the B (i.e., if the text had said 'B. Sally'), the space factor a would have been 1000, not 3000.	nma; 3000 after eriod had come fter that period
Page A314, lines 16–18 from the bottom	(1/10/92)
14.8. ba\ck/en and Be\ttt/uch, where the macros $ck$ and $ttt/$	are defined by
\def\ck/{\discretionary{k-}{k}{ck}} \def\ttt/{tt\discretionary{-}{t}{}}	
Page A354, line 8	(9/18/91)
\def\multispan#1{\omit\mscount=#1\relax\loop\ifnum\mscount>1	\sp@n\repeat}
Page A356, line 11 from the bottom	(9/23/91)
\else{\ooalign{\unhbox0\crcr\hidewidth\char'30\hidewidth}}	\fi}
Page A358, line 8 from the bottom	(9/18/91)
<pre>\mathchardef\mapstochar="3237 \def\mapstochar\righta;</pre>	rrow}
Page A359, line 13	(11/4/91)
\def\overrightarrow#1{\m@th\ialign{##\crcr	
Page A359, line 16	(11/4/91)
\def\overleftarrow#1{\m@th\ialign{##\crcr	
Page A359, line 19	(11/4/91)
\def\overbrace#1{\vbox{\m@th\ialign{##\crcr\noalign{	\kern3pt}
Page A359, line 22	(11/4/91)

 $\label{limit} \label{limit} \label{limit}$ 

(11/19/91)

(11/4/91)

(11/4/91)

Page A359, lines 7–14 from the bottom	(1/11/92)
\def\lgroup{\delimiter"462833A }	\def\rgroup{\delimiter"562933B }
<pre>\def\lmoustache{\delimiter"437A340 }</pre>	<pre>\def\rmoustache{\delimiter"537B341 }</pre>
<pre>\def\uparrow{\delimiter"3222378 }</pre>	<pre>\def\Uparrow{\delimiter"322A37E }</pre>
<pre>\def\downarrow{\delimiter"3223379 }</pre>	<pre>\def\Downarrow{\delimiter"322B37F }</pre>
<pre>\def\updownarrow{\delimiter"326C33F }</pre>	<pre>\def\arrowvert{\delimiter"026A33C }</pre>
<pre>\def\Updownarrow{\delimiter"326D377 }</pre>	<pre>\def\Arrowvert{\delimiter"026B33D }</pre>
<pre>\def\vert{\delimiter"026A30C }</pre>	<pre>\def\Vert{\delimiter"026B30D }</pre>
<pre>\def\backslash{\delimiter"026E30F }</pre>	<pre>\def\bracevert{\delimiter"077C33E }</pre>

Page A360,	line	13		
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\phantom, \smash, \root, and other operations. (Actually \phantom and \smash are not perfect: They assume that the current style is uncramped.)

Page A360, line 2 from the bottom (1	11/4	4/9	1)
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\def\c@ncel#1#2{\m@th\ooalign{\$\hfil#1\mkern1mu/\hfil\$\crcr\$#1#2\$}}

Page A361, top line

 $\label{lef} \label{lef} \lab$ 

Page A364, line 5 from the bottom

\def\fmtname{plain}\def\fmtversion{3.141}

Page A377, the bottom 17 lines	(9/18/91)
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story: Macro **\stest** decides whether or not a given token list register begins with a  $\langle \text{space token} \rangle$  as defined in Chapter 24. If so, the macro decides whether the token is explicit and/or funny and/or active.

\newif\ifspace \newif\iffunny \newif\ifexplicit \newif\ifactive \def\stest#1{funnyfalse \expandafter\s\the#1! \stest} \def\s{\global\explicitfalse \global\activefalse \futurelet\next\ss} \def\ss{\ifact\noexpand\next\stoken\let\nxt\sx\else\let\nxt\ns\fi\nxt} \def\ss{\spacetrue\ifx\next\stoken\let\nxt\sss\else\let\nxt=\sss\fi\nxt} \long\def\sss#1 #2\stest{\def\next{#1}% \ifx\next\empty \global\explicittrue \else\testactive#1\s\fi} \long\def\sss#1#2\stest{\funnytrue{\escapechar=\if\*#1'?\else`\*\fi\relax \if#1\string#1\uccode`#1=`~ % we assume that ~ is an active character \uppercase{\ifcat\noexpand#1}\noexpand~\global\activetrue \else\testactive#1\s\fi} \long\def\ns#1\stest{\spacefalse} \long\def\testactive#1#2\s{\expandafter\tact\string#1\s\tact} \long\def\tact#1#2\stext{\def\next{#2}\ifx\next\xs\global\activetrue \else\ifx\next\empty \global\activetrue\fii} \def\xs{\s}

Page A444, lines 15–26	(3	26/	/91	)
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14. If the current item is an Ord atom, go directly to Rule 17 unless all of the following are true: The nucleus is a symbol; the subscript and superscript are both empty; the very next item in the math list is an atom of type Ord, Op, Bin, Rel, Open, Close, or Punct; and the nucleus of the next item is a symbol whose family is the same as the family in the present Ord atom. In such cases the present symbol is marked as a text symbol. If the font information shows a ligature between this symbol and the following one, using the specified family and the current size, then insert the ligature character and continue as specified by the font; in this process, two characters may collapse into a single Ord text symbol, and/or new Ord text characters may appear. If the font information shows a kern between the current symbol and the next, insert a kern item following the current atom. As soon as an Ord atom has been fully processed for ligatures and kerns, go to Rule 17.

Page A446, lines 5 and 6 from the bottom (1)	/13	/92	2)
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are used to change the current style just as in the first pass, so that both passes have the same value of C when they work on any particular atom.

Page A447, in the parameter usage table	(1/1)	3/92)
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[Delete the entry for ' $\sigma_2$ '; the entry for ' $\sigma_{17}$ ' moves down to the bottom of the left column.]

Page A447, line 2 after the parameter usage table $(1/$	13/92)
to parameters in arbitrary families: Rule 17 uses <b>\fontdimen</b> parameter 2 (space	) to de-
Page A467, entry for \hss (9/	18/91)
*\hss, 71-72, 82-83, 233, 283, 285, 290, 442.	
Page A467, new subentry under hyphenation (9/	18/91)
suppressing, 93, 414, 424, 454.	
Page A476, right column (11/	(21/91)
*\setbox, 66-67, 77, 81, <u>120</u> , 276, 279, 286, 291, <i>386-392</i> .	
Page B2, line 10 from the bottom	(1/11/92)
define $banner \equiv \text{This}_{\sqcup}\text{Is}_{\sqcup}\text{TeX},_{\sqcup}\text{Version}_{\sqcup}3.141^{-} $ { printed when TEX star	rts }
Page B18, lines 21 and 22	(10/12/91)

must have an *xchr* equivalent in the local character set. (This restriction applies only to preloaded strings, not to those generated dynamically by the user.)

Page	B26.	new	line	before	fourth	line	from	bottom
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*nl: integer*; { new-line character to restore }

Page	B26.	bottom	line	and	top	3	lines	of	B27
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else begin if selector > pseudo then
 begin print\_char(s); return; { internal strings are not expanded }
 end;
if ((Character s is the current new-line character 244)) then
 if selector < pseudo then
 begin print\_ln; return; end;
 nl ← new\_line\_char; new\_line\_char ← -1; { temporarily disable new-line character }
 j ← str\_start[s];
while j < str\_start[s + 1] do
 begin print\_char(so(str\_pool[j])); incr(j); end;
 new\_line\_char ← nl; return;
end;</pre>

Page B27, lines 9 and 10

(9/19/91)

**60.** Control sequence names, file names, and strings constructed with \string might contain ASCII\_code values that can't be printed using *print\_char*. Therefore we use *slow\_print* for them:

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Page	B27	lines	1.3-2	'n
TUL		- IIIIOD	- <b>TO</b> 4	

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var j: pool_pointer; { current character code position }
begin if (s \ge str_ptr) \lor (s < 256) then print(s)
else begin j \leftarrow str_start[s];
while j < str_start[s+1] do
begin print(so(str_pool[j])); incr(j);
end;
end;
end;
```

Page B28, line 8

**else begin** *slow\_print*(*format\_ident*); *print\_ln*;

 Page B33, line 3
 (1/11/92)

 recursively. A similar interlock is provided by set\_box\_allowed.
 (1/11/92)

 Page B33, new line to come after line 14
 (1/11/92)

 set\_box\_allowed: boolean;
 { is it safe to do a \setbox assignment? }

 Page B33, new line to come after line 20
 (1/11/92)

 $set\_box\_allowed \leftarrow true;$ 

(1/24/92)

(1/24/92)

(9/19/91)

(1/24/92)

Page B36, line 12	(9/19/91)
$\mathbf{begin} \ print\_nl("You_{\sqcup}want_{\sqcup}to_{\sqcup}edit_{\sqcup}file_{\sqcup}"); \ slow\_print(input\_stack[base\_ptr])$	.name_field);
Page B46, lines 9 and 10	(5/24/91)
arithmetic; see $TUGboat$ <b>3</b> ,1 (March 1982), 10–27. (But the routines cited there is to allow negative glue ratios.)	nust be modified
Page B47, lines 2 and 3	(5/24/91)
structures on a <i>memory_word</i> , which contains either a (signed) integer, possi (signed) <i>glue_ratio</i> , or a small number of fields that are one half or one quarter	bly scaled, or a of the size used
Page B177, lines 10 and 11	(9/19/91)
<b>begin</b> $print_err("Bad\_mathchar");$ $help2("A\_mathchar\_number\_must\_be\_between\_0\_and\_32767.")$	
Page B196, new lines after line 11	(1/13/92)
if $align\_state < 1000000$ then {unmatched '}' aborts the line} begin repeat $get\_token$ ; until $cur\_tok = 0$ ; $align\_state \leftarrow 1000000$ ; goto $done$ ; end;	
Page B208, line 21	(9/19/91)
<b>begin</b> $slow_print(a)$ ; $slow_print(n)$ ; $slow_print(e)$ ;	
Page B214, line 14	(9/19/91)
<b>begin</b> $wlog(banner)$ ; $slow_print(format_ident)$ ; $print("_{\sqcup \sqcup}")$ ; $print_int(day)$ ; $print(day)$ ; $print(day$	$a_char("_{\sqcup}");$
Page B214, line 2 from the bottom	(9/19/91)
$print\_char("("); incr(open\_parens); slow\_print(name); update\_terminal; state \leftarrow print\_char("("); incr(open\_parens); slow\_print\_char("("); incr(op$	$new\_line;$
Page B234, line 22	(9/19/91)
$print("\_in\_font\_"); slow\_print(font\_name[f]); print\_char("!"); end\_diagnostic$	(false);
Page B267, lines 7 and 8	(9/19/91)
<pre>print_nl("Output_written_on_"); slow_print(output_file_name); print("_("); print_int(total_pages); print("_page");</pre>	
Page B296, new lines after line 8 of section 716	(1/11/92)
if $f < 0$ then begin $decr(n); f \leftarrow f + 200000;$ end;	

Page B297, new lines after line 7 of section 717	(1/11/92)
if $f < 0$ then begin $decr(n); f \leftarrow f + 200000;$ end;	
Page B348, bottom two lines	(1/3/92)
Up to three passes might be made through the paragraph in an attempt of feasible breakpoints. On the first pass, we have $threshold = pretolerant$	to find at least one set $ace$ and $second_pass =$
Page B364, line 20	(1/3/92)
<b>863.</b> The ' <b>loop</b> ' in the following code is performed at most thrice per o	call of <i>line_break</i> , since
Page B377, insert new line after line 12	(9/19/91)
<i>hyf_bchar: halfword</i> ; { boundary character after $c_n$ }	
Page B378, line 12 from the bottom	(9/19/91)
$hyf\_bchar \leftarrow character(s); \ c \leftarrow qo(hyf\_bchar);$	
Page B378, line 9 from the bottom	(1/10/92)
$hb \leftarrow s; \ incr(hn); \ hu[hn] \leftarrow c; \ hc[hn] \leftarrow lc\_code(c); \ hyf\_bchar \leftarrow non$	$a_char;$
Page B378, line 5 from the bottom	(9/19/91)
else if $(type(s) = kern\_node) \land (subtype(s) = normal)$ then $hb \leftarrow s$ else goto $done3$ ;	
Page B379, line 6	(9/19/91)
$j \leftarrow hn; \ q \leftarrow lig\_ptr(s); \ \mathbf{if} \ q > null \ \mathbf{then} \ hyf\_bchar \leftarrow character(q);$	
Page B379, new line between lines 14 and 15	(1/10/92)
if $odd(subtype(s))$ then $hyf_bchar \leftarrow font_bchar[hf]$ else $hyf_bchar \leftarrow non_char[hf]$	har;
Page B379, line 19	(9/19/91)
if $hn < l\_hyf + r\_hyf$ then goto $done1$ ; { $l\_hyf$ and $r\_hyf$ are always $\geq 1$	}
Page B380, lines 9–11 from the bottom reduce to a single line	(1/10/92)

 $q \leftarrow link(hb); \ link(hb) \leftarrow null; \ r \leftarrow link(ha); \ link(ha) \leftarrow null; \ bchar \leftarrow hyf\_bchar;$ 

 $cur_{-}r = \begin{cases} character(lig_stack), & \text{if } lig_stack > null; \\ font_bchar[cur_font], & \text{otherwise;} \end{cases}$ 

(3/15/92)

 $except when \ character(lig\_stack) = font\_false\_bchar[cur\_font]. \ Several \ additional \ global \ variables are needed.$ 

Page B438, line 13 from the bottom	(3/15/92)
$cur_q \leftarrow tail; \ cur_l \leftarrow character(lig_stack);$	
Page B507, line 6 of section 1241	(1/11/92)
$scan\_optional\_equals;$	
if $set_box_allowed$ then $scan_box(box_flag + n)$	
else begin print_err("Improper_"); print_esc("setbox");	
netp2("Sorry,_\setbox_ls_not_allowed_arter_\nailgn_ln_a_display,")	
end;	
Page B511, new line inserted after line 3	(1/24/92)
<pre>flushable_string: str_number; { string not yet referenced }</pre>	
Page B512, new line inserted after line 3 of section 1260	(1/24/92)
$flushable\_string \leftarrow str\_ptr - 1;$	
Page B512, the former line 6 of section 1260	(1/24/92)
<b>begin if</b> $cur_name = flushable_string$ <b>then</b>	
<b>begin</b> flush_string; cur_name \leftarrow font_name[f]; <b>end</b> ;	
Page B512, line 10 from the bottom	(9/19/91)
$set\_font: \ \mathbf{begin} \ print("\mathtt{select}_{\sqcup}\mathtt{font}_{\sqcup}"); \ \ slow\_print(font\_name[chr\_code]);$	
Page B514, line 9	(1/11/92)
$set\_box\_allowed \leftarrow false; \ prefixed\_command; \ set\_box\_allowed \leftarrow true;$	
Page B515, line 19	(9/19/91)
$slow\_print(s); \ update\_terminal;$	
Page B516, line 2	(9/19/91)

**begin** print\_err(""); slow\_print(s);

Page B531, lines 19 and 20	(9/19/91)
<pre>print_nl("Beginning_to_dump_on_file_"; slow_print(w_make_name_string(fmt_file_"); slow_print(format_ident)</pre>	ile)); flush_string;
Page B533, line 29	(9/19/91)
begin print_nl("Transcript_written_on_"); slow_print(log_name); print_d	char(".");
Page B538, line 13	(9/19/91)
10: $slow\_print(n);$	
Page B577, left column	(12/23/91)
[Add 798 to the index entries for 'system dependencies'.]	
Page C262, line 15 (3/26/9	1)
string base_name, base_version; base_name="plain"; base_version="2.7";	—
Page C271, line 17 from the bottom $(3/26/9)$	1)
currentpen_path shifted (z.t_) withpen penspeck enddef;	
Page C347, Bront"e entry $(1/29/9)$	1)
[The accent was clobbered; her name should, of course, be Brontë. Fix the entries for Düre Möbius, and Stravinsky in the same way.]	er,
Page C348, left column $(1/11/9)$	2)
compound statement, $\underline{155}$ , 217.	
Page C353, right column $(1/11/9)$	$\overline{2)}$
*numeric, 55, <u>56</u> , <i>65</i> , 88.	—
Page C354, miscellaneous entries in both columns $(1/11/9)$	$\overline{2)}$
<pre>*openwindow, <u>191-193</u>, 220, 277, 312-313. *or, 65, <u>170</u>, 210, 237, 288-289. *pair, 55, <u>56</u>, 65. *path, 55, <u>56</u>, 171. *pen, 55, <u>56</u>, 65, 170. *picture, 55, <u>56</u>, 114.</pre>	_
Page C356, right column $(1/11/9)$	$\overline{2)}$
*string, 55, <u>56</u> , 69.	
Page C357, right column $(1/11/9)$	$\overline{2)}$
*transform, 55, <u>56</u> , 57, 141-143, <i>160</i> , 266.	

Page D2, last line of section 2 (1/24/92)define *banner* = 'This\_is\_METAFONT, Version\_2.71' { printed when METAFONT starts } Page D102, line 15 from the bottom Then  $eq_type(h(x)) = taq_token$  and equiv(h(x)) = p, where p is a two-word value node with Page D188, lines 16 and 17 (1/24/92)errors. Our subroutines also obey the identity t[a, b] + t[b, a] = a + b. Page D190, new copy before bottom four lines if  $x_{coord}(r) < x_{coord}(pp)$  then  $x_{coord}(r) \leftarrow x_{coord}(pp)$ else if  $x\_coord(r) > dest\_x$  then  $x\_coord(r) \leftarrow dest\_x$ ;  $\mathbf{if} \ \mathit{left\_x}(r) > \mathit{x\_coord}(r) \ \mathbf{then}$ **begin**  $left_x(r) \leftarrow x\_coord(r)$ ; **if**  $right_x(pp) > x\_coord(r)$  **then**  $right_x(pp) \leftarrow x\_coord(r)$ ; **end**; if  $right_x(r) < x_coord(r)$  then **begin** right\_ $x(r) \leftarrow x_{-coord}(r)$ ; **if** left\_ $x(qq) < x_{-coord}(r)$  **then** left\_ $x(qq) \leftarrow x_{-coord}(r)$ ; **end**; Page D191, new copy before bottom two lines of section 416 (1/24/92)if  $x_{coord}(s) < x_{coord}(r)$  then  $x_{coord}(s) \leftarrow x_{coord}(r)$ else if  $x_{coord}(s) > dest_x$  then  $x_{coord}(s) \leftarrow dest_x$ ;

if  $left_x(s) > x_coord(s)$  then **begin**  $left_x(s) \leftarrow x\_coord(s)$ ; **if**  $right_x(r) > x\_coord(s)$  **then**  $right_x(r) \leftarrow x\_coord(s)$ ; **end**; if  $right_x(s) < x_coord(s)$  then **begin**  $right_x(s) \leftarrow x\_coord(s)$ ; **if**  $left_x(qq) < x\_coord(s)$  **then**  $left_x(qq) \leftarrow x\_coord(s)$ ; **end**;

Page D194, lines 4 and 5

[Delete those two lines; I no longer believe that the assertion has been proved (although it might be true).]

Page D194, lines 7–13 of section 424

if  $y_{-coord}(r) < y_{-coord}(p)$  then  $y_{-coord}(r) \leftarrow y_{-coord}(p)$ else if  $y\_coord(r) > dest\_y$  then  $y\_coord(r) \leftarrow dest\_y$ ; if  $x\_coord(p) + y\_coord(r) > dest_x + dest_y$  then  $y\_coord(r) \leftarrow dest_x + dest_y - x\_coord(p)$ ; if  $left_y(r) > y_coord(r)$  then **begin**  $left_y(r) \leftarrow y\_coord(r)$ ; **if**  $right_y(p) > y\_coord(r)$  **then**  $right_y(p) \leftarrow y\_coord(r)$ ; **end**; if  $right_y(r) < y_coord(r)$  then **begin**  $right_y(r) \leftarrow y\_coord(r)$ ; **if**  $left_y(q) < y\_coord(r)$  **then**  $left_y(q) \leftarrow y\_coord(r)$ ; **end**;

Page D194, lines 8–11 from the bottom

if  $right_y(r) < y_coord(r)$  then **begin**  $right_y(r) \leftarrow y\_coord(r)$ ; **if**  $left_y(q) < y\_coord(r)$  **then**  $left_y(q) \leftarrow y\_coord(r)$ ; **end**;

## (11/1/91)

(1/24/92)

(1/24/92)

(1/24/92)

(1/24/92)

Page D195, lines 3–9 of section 425	(1/24/92)
if $y\_coord(s) < y\_coord(r)$ then $y\_coord(s) \leftarrow y\_coord(r)$ else if $y\_coord(s) > dest\_y$ then $y\_coord(s) \leftarrow dest\_y$ ;	
if $x\_coord(r) + y\_coord(s) > dest\_x + dest\_y$ then $y\_coord(s) \leftarrow dest\_x + dest\_y - x\_coord$ if $left\_y(s) > y\_coord(s)$ then	(r);
<b>begin</b> $left_y(s) \leftarrow y\_coord(s)$ ; if $right_y(r) > y\_coord(s)$ then $right_y(r) \leftarrow y\_coord(s)$ if $right_y(s) < y\_coord(s)$ then	; <b>end</b> ;
<b>begin</b> $right_y(s) \leftarrow y\_coord(s)$ ; <b>if</b> $left_y(q) < y\_coord(s)$ <b>then</b> $left_y(q) \leftarrow y\_coord(s)$ ;	end;
Page D195, lines 3–7 from the bottom if section 425	(1/24/92)
$ \begin{array}{l} \text{if } right\_y(s) < y\_coord(s) \text{ then} \\ \text{begin } right\_y(s) \leftarrow y\_coord(s); \text{ if } left\_y(q) < y\_coord(s) \text{ then } left\_y(q) \leftarrow y\_coord(s); \end{array} \end{array} $	end;
Page D289, lines 9 and 10	(11/1/91)
$p \leftarrow dep\_list(p); \ r \leftarrow inf\_val;$ repeat if $value(info(p)) \ge value(r)$ then	
Page D486, line 18	(11/1/91)

The  $label\_loc$  and  $label\_char$  arrays have been set up to record all the starting addresses; we have