

Subject: Defects in the conversion to L^AT_EX
 From: Van Snyder

Page and line numbers in the margin refer to 01-007r4. Line numbers in the text refer to the T_EX files.

j3.cls

Table of contents starts a new page in “memo” mode

At lines 778-790, replace

```
\chapter*{\contentsname
  \mkboth{%
    \MakeUppercase\contentsname}{\MakeUppercase\contentsname}}%
```

with

```
\if@majorchapter
  \chapter*{\contentsname
    \mkboth{%
      \MakeUppercase\contentsname}{\MakeUppercase\contentsname}}%
\else
  \section*{\contentsname
    \mkboth{%
      \MakeUppercase\contentsname}{\MakeUppercase\contentsname}}%
\fi
```

BNF commands try to make indexes in “memo” mode

The BNF commands `\bnfi` etc. try to make index items if `memo` appears in the `\documentclass` command.

At line 997, replace

```
\newcommand{\rindex}[1]{\if@bnfindx\index[r]{#1}\fi} % Index of syntax rules
```

with

```
\newcommand{\rindex}[1]{\if@majorchapter
  \if@bnfindx\index[r]{#1}\fi % Index of syntax rules
\fi}
```

At lines 1000-1001, replace

```
\def\@tindex#1{\index[t]{#1}#1} % Index + text
\def\@tindex#1{\index[t]{#1}}
```

with

```
\def\@tindex#1{\if@majorchapter\index[t]{#1}\fi#1} % Index + text
\def\@tindex#1{\if@majorchapter\index[t]{#1}\fi} % Index only
```

Line numbers in constraints

To get line numbers on all of the lines of constraints, replace line 1174:

“`\parbox[t]{0.5in}{#1}\parbox[t]{\CL}{#2}`” by: “`\parbox[t]{0.5in}{#1}\hin{0.5in}{#2}`”.

You can then delete the construction of CL at lines 1170-1172:

```
\newlength{\CL}
\setlength{\CL}{\textwidth}
\addtolength{\CL}{-0.5in}
```

Cross references to notes

Cross references to notes were generally omitted during the conversion. I have listed several repairs below, but I don't know that I found them all. In order to make references to notes easier, add the following after line 1371, between `\setcounter{table}{\value{nc}}` and

`\begin{longtable}[r]{|>\beforenote\columncolor{noteback}}p{\w@nb}<\afternote|}`:

```
\def\label##1{\@bsphack
  \protected@write\@auxout{}%
    {\string\newlabel{##1}{\{Note \thenc\}{\thepage}}}%
  \@esphack}
```

(I'm not really clever enough to have figured this out on my own. Like most of `j3.cls`, I copied it from somewhere – `/usr/share/texmf/tex/latex/base/latex.ltx` in this case – and then made a lucky guess about how to change it.)

Without this, you would need to put in “`Note \ref{section-label}.\ref{note-label}`”. With this, you can use “`\ref{note-label}`” alone. (“`Note \ref{note-label}`” shouldn't be used – “`Note`” is part of the label). If you'd rather put in the “`Note`” than have the `\ref` generate it, remove it from the third line of the definition of `\label`.

Making colored notes optional

There appears to be only one X_Dvi that has been hacked to support PostScript color specials, which are what is used to get colored background and foreground in notes. Also, the `dvilj` driver doesn't understand PostScript color specials. The effect is a black background and a black foreground – even if the background “color” is white! Unfortunately, our usual printer – the one Richard usually brings – won't duplex PostScript.

Add the following after line 75 (`\@bfnfindxfalse`)

```
% Stuff about note colors:
\newcommand{\beforenote}{\color{notefore}}
\newcommand{\afternote}{\relax}
\newcommand{\notestart}{%
  \begin{longtable}[r]{|>\beforenote\columncolor{noteback}}p{\w@nb}<\afternote|}}
\DeclareOption{nocolor}{%
  \renewcommand{\beforenote}{\relax}%
  \renewcommand{\notestart}{%
    \begin{longtable}[r]{|>\beforenote}p{\w@nb}<\afternote|}}
}
```

Delete lines 1364-66 (definitions of `beforenote` and `afternote` have been moved – see previous paragraph).

At lines 1372, 1390 and 1409, replace the command that starts the table used to represent notes, *viz.*

```
\begin{longtable}[r]{|>{\beforenote\columncolor{noteback}}p{\w@nb}<{\afternote}|}%
with \notestart.
```

The effect of this is to allow a `nocolour` option in the `\documentclass` command, i.e. you could replace `\documentclass[twoside,10pt]{j3}` at line 1 in `007.tex` with `\documentclass[twoside,10pt,nocolour]{j3}` and not have a colored background in notes, so you could see them in an un-hacked X_Dvi.

Incorrect comments

At lines 1085-1086, replace

```
% "Produce a syntax term and put in the index with a 'definition' page #
% but without a syntax term reference number (presumable because it
```

with

```
% "Produce a syntax term and put it in the index with a 'definition' page #
% but without a syntax term reference number (presumably because it
```

At line 1242, replace

```
% Environment to put around a table that saves and restores the table counter
```

with

```
% Environment for the ‘‘three column’’ table of generic and specific names
```

007.tex

The comment at lines 16-17 has two typos: “colors” ⇒ “color” and “RequiresPackage” ⇒ “RequirePackage”. The latter blunder also appears at line 34. Add “get” after “don’t” at line 53.

Foreword – intro.tex

Last line: “D” ⇒ “F” (line 37).	xii
Item (4): Hyphenate “VOLATILE” (line 73).	xiii
At the end: Add two more indices (line 153).	xiv

Section 2 – c02.tex

References to Tables 2.1 (twice) and 2.2 missing.	13:32
Replace “in and . shows” by “in Table \ref{T2:Requirements on statement ordering} and Table \ref{T2:Allowed}. Table \ref{T2:Requirements on statement ordering} shows” (line 301).	
Reference to Table 2.2 missing.	13:38
Insert Table \ref{T2:Allowed} before shows (line 309).	
Delete the extraneous blank between “n” and “th” (line 834).	20:32-33

Section 4 – c04.tex

Delete the extraneous blank between “ <i>hex-digit</i> ” and “s” (line 326)	35:19
First line of NOTE 4.13: “FORTRAN” ⇒ “FORTRAN” (line 581).	38:29+2
Seventh line of NOTE 4.13: “FORTRAN” ⇒ “FORTRAN” (line 590).	38:29+8
First line of Note 4.46: Delete the extraneous blank between “ <i>type-name</i> ” and “s” (line 1627).	53
First line in Note 4.52: Insert reference to Note 4.31 at the end of the line (line 1739).	55:5+2
Third line in Note 4.54: Insert reference to Note 4.51 after “in” (line 1918).	57:15+4
First line in Note 4.56: Insert reference to Note 4.21 after “in” (line 1948).	58
Third line in Note 4.57: Insert reference to Note 4.29 after “in” (line 1967).	58:5+4

Section 5 – c05.tex

Fourth line from the end of Note 5.27: Insert a reference to Note 4.20 after “from” (line 1548).	85
Third line from the end of Note 5.27: Insert a reference to Note 4.30 after “from” (line 1549).	

Section 6 – c06.tex

First line of C612: Delete the extraneous blank between “ <i>section-subscript</i> ” and “s” (line 145).	99:4-
Last line of Note 6.8: Add a reference to Note 4.21 (line 247).	100
First line of C628: Delete the extraneous blank between “ <i>allocate-shape-spec</i> ” and “s” (line 591).	105:1-
Delete the extraneous blank between “ <i>allocate-object</i> ” and “s” (line 634).	105:19

Section 7 – c07.tex

First line of C720: Delete the extraneous blank between between “ <i>bounds-spec</i> ” and “s” (line 2086).	136:10-
First line of C721: Delete the extraneous blank between “ <i>bounds-remapping</i> ” and “s” (line 2090).	136:11-
Delete the extraneous blank between “ <i>forall-body-construct</i> ” and “s” (line 2625).	143:26
Delete the extraneous blank between “ <i>forall-construct</i> ” and “s” (line 2671).	144:10-11
Delete the extraneous blank between “ <i>where-construct</i> ” and “s” (line 2672).	144:11

Section 8 – c08.tex

“Transfer” appears to have a blank between the “T” and the “ransfer”. Actually, there’s an index item there. Move the \mindex before the “transfer” (line 71).	148:2
First line of C807: Delete the extraneous blank between “ <i>case-value-range</i> ” and “s” (line 252).	159:28-
First line of Note 8.15: Insert a reference to Note 8.14 after “from” (line 582).	155
First line of Note 8.20: Insert a reference to Note 8.19 after “from” (line 969).	160

Section 10 – c10.tex

Needs a space before “-0.5”. Ideally, needs a new line, but this probably requires putting a minipage in the table. Also needs a new line after “negative”, which will be tedious for the same reason (lines 972, 978). 221:12+3,6

Section 12 – c12.tex

R1211 is double-spaced. Probably due to overfull hbox. (line 623) 249:16

First line of Note 12.25: Insert a reference to Note 5.16 after “See” (line 1080). 256:14+2

Section 16 – c16.tex

“\label{” ⇒ “\label{” (line 949). 387:11

Delete the extraneous blank after “**unspecified storage unit**” (line 1032). 388:13

Annex A – aa.tex

“FORTRAN” ⇒ “FORTRAN” (line 37). 397:18

“FORTRAN” ⇒ “FORTRAN” (line 391). 401:36

“FORTRAN” ⇒ “FORTRAN” (line 547). 403:32

“FORTRAN” ⇒ “FORTRAN” (line 575). 404:8

“FORTRAN” ⇒ “FORTRAN” (line 587). 404:14

“FORTRAN” ⇒ “FORTRAN” (line 842). 407:14

“FORTRAN” ⇒ “FORTRAN” (line 853). 407:21

“FORTRAN” ⇒ “FORTRAN” (line 925). 408:20

Annex C – ac.tex

“\$>\$” ⇒ “>” (line 318). 418:28

Remove double spacing (lines 807-815). 427:10-18

Insert a reference to Note 4.51 after “in” (line 2336). 450:41

Insert a reference to Note 12.38 after “also” (line 2994). 461:32