Subject: Defects in the conversion to LaTeX
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Page and line numbers in the margin refer to 01-007r4. Line numbers in the text refer to the TeX 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\@tindexs#1{\index[t]{#1}#1}                       % Index + text
\def\@tindex#1{\index[t]{#1}}                          % Index only
```

with

```
\def\@tindexs#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 XDvi 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 (`\@bnfindxfalse`)

```
% 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 `nocolor` option in the `\documentclass` command, i.e. you could replace `\documentclass[twoside,10pt]{j3}` at line 1 in `007.tex` with `\documentclass[twoside,10pt,nocolor]{j3}` and not have a colored background in notes, so you could see them in an un-hacked XDvi.

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. 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).	13:32
Reference to Table 2.2 missing. Insert `Table \ref{T2:Allowed}` before `shows` (line 309).	13:38
Delete the extraneous blank between "*n*" and "th" (line 834).	20:32-33

Section 4 – c04.tex

Delete the extraneous blank between "*hex-digit*" 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 "*type-name*" 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). Third line from the end of Note 5.27: Insert a reference to 4.30 after from (line 1549).	85

Section 6 – c06.tex

First line of C612: Delete the extraneous blank between "*section-subscript*" 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 "*allocate-shape-spec*" and "s" (line 591).	105:1-
Delete the extraneous blank between "*allocate-object*" and "s" (line 634).	105:19

Section 7 – c07.tex

First line of C720: Delete the extraneous blank between between "*bounds-spec*" and "s" (line 2086).	136:10-
First line of C721: Delete the extraneous blank between "*bounds-remapping*" and "s" (line 2090).	136:11-
Delete the extraneous blank between "*forall-body-construct*" and "s" (line 2625).	143:26
Delete the extraneous blank between "*forall-construct*" and "s" (line 2671).	144:10-11
Delete the extraneous blank between "*where-construct*" 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 "*case-value-range*" 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

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