ETEX document class for J3 work

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Contents

1 **1 Introduction**

2 This paper describes a IAT_EX document class designed to be used for constructing J3 documents.

3 It is intended to be used both for setting the standard, and for writing meeting papers.

4 2 Large-scale document structure

5 LATEX documents begin with a \documentclass command. The J3 document class is derived 6 from the book document class. All of the options of that class continue to work. An additional 7 option memo has been added that makes \section the top level structure. If memo does not 8 appear, \chapter is the top level structure. The \documentclass command at the beginning 9 of this document is:

10 \documentclass[twoside,11pt,memo]{j3}

In addition to the memo option and options of the book class, one can put the following options
in the \documentclass command:

color turns on background color for notes. This is the default but it's easier to change the
default than to add new \documentclass options.

nocolor turns off background color for notes. The reason for this is that most versions of
the X-windows previewer, xdvi, are not able to cope with the commands that generate
background colors. Also, the "device independent" (dvi) file processor for output to Laser
Jet printers, dvilj, also doesn't understand those commands.

¹⁹ The primary differences between the book document class and the j3 document class are:

(1) The default page style is to have headers and footers on every page. The headers
and footers have a flush-left part, a flush-right part and a centered part.

If memo does not appear, the page heading is as for the draft standard. If memo appears, nothing is put into the center of the headers and footers, and the page numbering becomes "Page <this-page> of <last-page>." In the latter case, one is expected to put \label{lastpage} immediately before the \end{document} command. The memo option is intended for producing meeting papers.

Two commands, that you are expected to renew, are invoked during production of the page headers and footers. The first is \hdate, and the second is \vers. Neither one has an argument. Here are examples of the commands to renew them. You can put them immediately after the \documentclass command.

\renewcommand{\hdate}{\today\ \printtime} % Date for headers and footers
\renewcommand{\vers}{paper number>} % Version for headers

- 19The \hftitle command is used to fill the center part of the header and footer. Its11default if memo is absent is WORKING DRAFT. If memo appears, its default is empty. In12this document, it's
- 13 \renewcommand{\hftitle}{\LaTeX\ class for J3}
- 15The \hff command, default \sffamily\bfseries\large, is used to set the header16and footer font.

7 8

- 17 (2) There is a new sectioning command \annex. It generates the correct form of page
 18 heading for annexes of 007. It is a synonym for \appendix.
- (3) The sectioning commands invoke a command \secfort to set the font for sections.
 The default is \sffamily. You can, of course, renew this command. The \chapter
 command puts "Section" before the chapter number, and a colon after. Unlike in
 the book class, our \chapter command puts the title all on one line.
- 23 (4) The page layout is adjusted to be the same as the draft standard.
- 24(5)Numerous environments and commands have been added. These are described be-25low.

26 **3** Cross-reference labels

The document class provides a command \divn that takes two arguments. The first is expected 27 to be a sectioning command, and the second is the title of the section. It invokes its first 28 argument and gives it its second argument. Then it creates a label consisting of "D" followed 29 by the chapter number in arabic numerals and a colon, and then the second argument. Blanks 30 and everything else except T_EX special characters, e.g. " and }, are significant in labels, and 31 the case of letters is significant. The chapter number is inserted in an attempt to make labels 32 unique. If memo is specified, the chapter number is zero. Remember that in IATFX one can refer 33 to the text of an entity's number with the \ref command, and to the text of its page number 34 with the **\pageref** command. This section was begun with 35

- 36 \divn\section{Cross-reference labels}
- 37 This reference, i.e. (3), was produced with \ref{D0:Cross-reference labels}.
- 38 You can't use \dim if the section title has a command in it (because of the).
- 39 In any case, you can create your own labels, on section commands or elsewhere, with the IAT_{EX}
- 40 \label command. If a label is in a table, an equation, a figure, an item in a list, the left-hand
- 41 side of a BNF term, a constraint (6), a note (8), and perhaps a few other places, a \ref to that
- 42 label will produce the object's number, not the section number.
- 43 The \nref command is provided to make references to note numbers consistent: It puts "Note"44 before the note number.

45 **4** Font specifiers

- ⁴⁶ There are several font specifiers:
- st The \st command sets its argument in "syntax term" type face. The default definition is
 \emph, which in turn defaults to italic.
- 3 obs The **\obs** command sets its argument in "obsolete font". The command
- 4 \obs{obsolete} produces obsolete.
- 5 cf The \cf command sets its argument in "code font" font. The command
- 6 \cf{code font} produces code font.
- 7 obscf is a combination of obs and cf

8 5 Support for BNF

9 Numerous commands are provided to support BNF.

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10 5.1 Commands to create BNF

11 5.1.1 The bnf command

The \bnf command is the basic command to set BNF rules. It takes three arguments. The 12 first is the syntax number and syntax term. The second is either is or or (of course, you can 13 14 stick anything you want in there). The third is the right-hand side of the BNF rule. The first argument is set in a box 2.25 inches wide. The second is set in \bf font in a box equal to the 15 width of or plus 1em. The third one is set in a LATEX \mbox, so if it is long, it will extend 16 into the margin instead of being folded. It isn't folded automatically, because we want the 17 continuation mark (see 5.1.7). 18 19 If an internal flag **Obnfindex** is **true** it puts the entire syntax rule in the index of syntax rules.

20 This flag is set by \bnfi (5.1.4) and cleared by \bnfn (5.1.9) and \bnfx (5.1.8) commands.

21 There is a \bmf command that doesn't put things in the index.

22 For example, the command \bnf{\st{abc}}{is}{DEF \st{ghi} JK} produces

23 abc is DEF ghi JK

24 The \bnf command doesn't automatically start or finish a paragraph, so if you don't put blank
25 lines or \\ around it, you will find a BNF rule in the middle of a line.

Other commands described below are usually easier to use, so you probably won't use either\bnf or \bmf directly.

28 **5.1.2** The xsn command

The \xsn ("explicit syntax number") command takes two arguments. The first is an optional syntax rule number (optional arguments are enclosed in square brackets). The second argument is a syntax term. It puts "R" in front of the first argument and sets it in a box 0.5in wide, and then sets the second in the \st type face. This is one of the ways to create the first argument for the \bnf command. Using \xsn in the previous example, e.g. \bnf{\xsn[604]{abc}}[is]{DEF \st{ghi} JK} produces

35 R604 abc is DEF ghi JK

36 You probably won't use $\sin directly$.

37 **5.1.3 The** sn **command**

38 The sn ("syntax name") command takes one argument, a syntax term. It sets its argument

39 in st type face. Then it creates a new syntax number by incrementing the sr ("syntax rule")

40 counter, and concatenating it (with at least two digits) onto the chapter or section number 1 (the latter if memo is specified). Finally, it creates a label consisting of sr: (for "syntax rule")

2 followed by the argument.

3 Using \sn in the previous example, e.g. \bnf{\sn{abc}}{is}{DEF \st{ghi} JK} produces

4 R501 *abc* is DEF *ghi* JK

5 Notice that we're in section 5, and that is the leading digit of the syntax rule number. Also
6 notice that "R" has been put ahead of the syntax number. This is because \sn uses \xsn
7 (5.1.2) to combine the generated syntax number and the syntax term. You probably won't use

8 \sn directly.

9 5.1.4 The bnfi command

10 The \bnfi ("BNF is") command takes two arguments. The first is the syntax rule name, and 11 the second is the (first line of) its right-hand side. It generates a syntax rule number and 12 sets the name, using the \sn command. Then it puts this as the first argument of the \bnf 13 command, puts is as the second argument, and puts its second argument as the third argument

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of \bnf. If memo is not present in the \documentclass command, it enters the syntax term into 14

the index of syntax terms, to be displayed with the syntax rule number and a bold face page 15 number, enters the entire syntax rule in the index of syntax rules, and sets a switch that causes 16

subsequent syntax rules also to be entered in that index. Our above example could have been 17

written \bnfi{abc}{DEF \st{ghi} JK}, producing 18

R502abc19

is DEF ghi JK

This would put "abc (R502), 4" into the index of syntax terms. By the way, the "index term" 20 is *abc* alone, so if you put a reference to *abc* in the syntax term index (using the \tindex) 21

command – see section 7), it will come at the same place in the index. 22

Notice that the example syntax rule above is not exactly the same as in section 5.1.3, because 23 a new syntax rule number has been invented. In this document, it also generates a duplicate 24 label sr:abc, because the term *abc* was also defined in section 5.1.3. (If you have duplicate 25 labels, a ref command refers to the last one of them, so references to sr:abc will be to R502.) 26

5.1.5 The bnfo command 27

The bnfo ("BNF or") command takes one argument – the (first line of the) right-hand side 28 29 of the or part of a syntax rule. It's the same as \bnf{}{or}{<right-hand-side>}. We might continue our above example with \bnfo{PQR \st{xyz}}, which produces 30

31

or PQR xyz

5.1.6 The bnfr command 32

The \bnfr ("BNF right-hand-side") command takes one argument – (one line of) the right-33 hand side of a syntax rule. It puts the \bnfc syntax rule continuation symbol (see 5.1.7) before 34 its argument, and then uses the result as the third argument for \bnf, i.e. it's the same as 35 \bnf{}{}{\bnfc <right-hand side>}. 36

5.1.7 The bnfc command 37

38 The \bnfc ("BNF continuation") command has no arguments. It produces the BNF continuation symbol, viz. \blacksquare . You need to put this at the end of the right-hand side of continued BNF 39 rules, but \bnfr (see 5.1.6) will put it at the beginning of continuing lines for you. 40

5.1.8 The bnfx command 41

The \bnfx ("BNF is with eXplicit rule number") command takes three arguments. The first 42 is an explicitly specified rule number. The second is the syntax term. The third is the (first 43 line of the) right-hand side of the rule. The first two arguments are put together by \xsn . 1 This result is then used as the first argument of \bnf, with is for the second argument, and 2 the third argument of \bnfx is used as the third argument for \bnf. This one is intended to 3 be useful for producing meeting papers, wherein you want to refer to a syntax rule number in 4 the standard, not have LATFX invent one for you. It does not enter its name into the index of 5 syntax terms, or the rule into the index of syntax rules, and it turns off the switch that causes 6 subsequent BNF-generation commands to put their rules into the index of syntax rules. 7

5.1.9 The bnfn command 8

The \bnfn ("BNF is with rule number gotten by reference to a Name") takes two arguments: 9 the syntax term for the left-hand side, and the (first line of the) right-hand side. The syntax 10 number is gotten by reference to the name (the first argument). This command is used when 11quoting a syntax rule in a place other than its home. The syntax rules that are defined in 12 section 7 of the standard but referenced in section 3 are set using the \bnfn command. It does 13 not enter its name into the index of syntax terms, or the rule into the index of syntax rules, 14

and it turns off the switch that causes subsequent BNF-generation commands to put their rulesinto the index of syntax rules.

17 5.1.10 The bnfz command

18 The \bnfz ("BNF zilch – BNF is with no rule number") command takes two arguments: the 19 syntax term for the left-hand side, and the (first line of the) right-hand side. No syntax rule 20 number is produced, but the left-hand side is indented the same amount it would be if a syntax 21 number were provided.

22 5.1.11 The bnfb command

23 The \bnfb ("BNF block") command takes one argument: a part of the right-hand side of a
24 syntax rule. It doesn't put \bnfc before the right-hand side. It is intended to be used for
25 constructs.

26 **5.2 Commands to reference syntax terms**

There are several commands to display and reference syntax terms and rule numbers. The ones that claim to enter syntax terms into the index of syntax terms only do so if the memo option is not present in the documentclass command.

30 **5.2.1** The si command

31 The \si ("syntax index") command takes one argument - a syntax term. It sets it in \st type
32 face, and enters the reference into the index of syntax terms.

33 5.2.2 The stdef command

34 The \stdef ("syntax term definition") command takes one argument – a syntax term. It sets
35 it in \st type face, and enters the reference into the index of syntax terms with a bold-face
36 page number.

37 5.2.3 The sir command

The \sir ("syntax index with reference number") command takes one argument - a syntax
term. It sets it in \st type face, then sets its rule number between parentheses, and finally
enters the reference into the index of syntax terms. For example, \sir{abc} produces abc
(R502) (abc was defined in section 5.1.4).

1 5.2.4 The sid command

2 The \sid ("syntax index with definition page number") command takes one argument - a
3 syntax term. It sets it in \st type face, then enters the reference into the index of syntax
4 terms, with its rule number, as a definition - i.e., with a bold-face page number.

5 5.2.5 The sidn command

6 The \sidn ("syntax index with no syntax number but a definition page number") command
7 takes one argument - a syntax term. It sets its argument in \st type face, and enters it in the
8 index with a bold face page number. This is intended to be used for the definition of terms
9 that are defined by explanation rather than BNF rules - e.g. *letter*.

10 5.2.6 The sinr command

11 The \sinr ("syntax index with no syntax number") command takes one argument – a syntax 12 term. It sets its argument in \st type face, and enters it in the index. This is intended to be

12 term. It sets its argument in \st type face, and enters it in the index. This is intended
13 used for terms that are defined by explanation rather than BNF rules – e.g. *letter*.

14 5.2.7 The snref command

15 The \snref ("syntax number reference") command takes one argument - a syntax term. It
16 sets its syntax rule number (not between parentheses). For example \snref{abc} produces
17 R502 (abc was defined in section 5.1.4).

18 **5.2.8 The** sref command

19 The \sref ("syntax reference") command takes one argument – a syntax term. It does every20 thing that the \sir command does, except for putting a reference in the index.

21 6 Constraints

22 There is a list environment for setting several consecutive constraints, and a command for 23 setting one constraint. They both invent new constraint numbers in the same way that syntax 24 rule numbers are invented (but with a "C" instead of an "R"). See section 5.1.3.

25 6.1 The cons environment

26 The cons environment is a list environment for setting several consecutive constraints. Each27 constraint is introduced by an \item command. For example,

- 28 \begin{cons}
- 29 \item First constraint.
- 30 \item Second constraint.
- 31 \end{cons}
- 32 produces
- 33 C601 First constraint.
- 34 C602 Second constraint.

As with any list environment, you can put your own labels in optional arguments of the \itemcommand.

The width of the label is the same as the space allowed for the syntax rule number in a BNFdefinition (actually 0.5in + 1em).

1 6.2 The dcons command

2 The \dcons command produces one constraint. It takes two arguments. The first one is 3 optional (remember that optional arguments are enclosed in square brackets). It is an explicit 4 constraint number (with "C" if you want it) to override the generated one. The generated 5 constraint number includes the section number. The constraint counter is incremented even if 6 an explicit one is provided.

7 The second argument is the text of the constraint. Here is an example of a constraint on R502,
8 produced by \dcons{(\snref{abc}) The \st{ghi} shall be a ghi.}:

- 9 C603 (R502) The ghi shall be a ghi.
- 10This command does not comprise a paragraph. Moreover, its body is set using "hanging11indentation," which has a scope of the entire paragraph in which it appears. This12paragraph is an example of the surprise you'll get if you try to separate \dcons from
- 13 adjacent text with \backslash .

14 **7** Commands for indexing

15 There are three low-level commands to generate index terms. The reason for three is to have16 separate indices for general terms, syntax terms, and the syntax rules themselves.

17 The commands are \mindex to enter a term in the "main" index, \rindex to enter a complete

18 syntax rule in the "syntax rule" index, and \tindex to enter a syntax term in the "syntax term"

19 index. There is also a \mindex* command that sets its text and puts it in the index. There are

20 also \mindexd and \mindexd* commands that are for definitions – they put a bold-face page

21 number in the index.

22 The BNF commands use \tindex and \rindex. You will probably not use \tindex directly -

23 it is preferable to use it by way of si (5.2.1) or sir (5.2.3). The tindex command is not

24 effective if memo appears in the \documentclass command. The \rindex command doesn't do 25 anything if the class-internal flag @bnfindx is false, so there's no reason to try to use \rindex

26 directly. It is also not effective if memo appears in the \documentclass command.

27 The \kw command puts a keyword into the index. The \kw* command puts the keyword into
28 the text and the index. There are also \kwd and \kwd* commands that are for definitions 29 they put a bold-face page number in the index.

30 8 Environment for notes

The note environment increments a note counter, sets **NOTE** followed by the section and note numbers separated by a period, and then puts the body of the note in a box. If a note is split, the note heading is duplicated on the continuing page with "(cont.)".

Note backgrounds can be colored. The color can be specified by defining noteback, e.g., 34 \definecolor{noteback}{gray}{0.95}. Note coloring can be turned off by putting the 35 nocolor option in the \documentclass command, or by specifying the \nocolor command. It 36 37 can be turned back on with the \docolor command. One reason to turn off note background coloring is that it is done by PostScript specials. Neither xdvi nor dvilj know what to do with 38 these; they just throw up their hands in despair "Oh Dear! PostScript color specials! I better 39 just do black (no matter what the color)!" So you get a black background with black text on 40 it. 41

42 Here's a note created by

- 2 This is a note. Its background color is noteback and its
- 3 foreground color is notefore.
- 4 \end{note}

NOTE 8.1

This is a note. Its background color is noteback and its foreground color is notefore.

5 9 Support for the intrinsic procedures sections

6 9.1 Subsections in the intrinsic procedures sections

7 The \insubsection ("intrinsic subsection") command sets its argument with the same spacing,

8 size and font as a \subsection command, but it doesn't create a table-of-contents entry.

^{1 \}begin{note}

9 9.2 Environment for the table of specific and generic names

10 The threecol environment is used to set the three-column table of specific and generic names

in section 13.6. Actually, there are four columns – one for the bullet that indicates the specific
name is not allowed to be an actual argument, but the equivalent tag in Frame was named
threecol.

14 9.3 Environment to display intrinsic procedure summaries

15 The \insum environment is a list environment intended for the intrinsic procedure summaries16 in section 13.

17 9.4 Environment for arguments for intrinsic procedures

18 The args environment is a list environment. Each item sets its optional argument (the one in19 square brackets) in bold face type in a 1.5in box. Also see 9.5.

20 9.5 A command to display intrinsic procedure arguments

21 The \intrinarg command takes two arguments. The first is an intrinsic procedure argument
22 name, and the second is its description. It does the same thing as the args environment (9.4),
23 but only for one argument.

24 **9.6** An enumeration environment for intrinsic function argument cases

The incase environment is a list environment. The label of each item is set in \emph type face. It consists of the word "Case" followed by the optional argument of the \item command in parentheses, followed by a colon. If no item label argument is given, one is generated in lower-case roman numerals. The item label is set in a box 0.8125 inches wide.

29 9.7 Paragraphs in intrinsic procedure descriptions

In the intrinsic procedures sections, paragraphs are introduced by a word in bold-face type –
or not – but in either case, the paragraph is indented using the \inp command (11.2) and the
length \II ("intrinsic indent"), which has a value of 0.5in.

The paragraphs that are introduced by a word in bold-face type are generated by the following
commands. The commands that end in B are intended to be "bigger" – then have more line
spacing.

command	introductory word	command	introductory word
argument	Argument	arguments	Arguments
class	Class	desc	Description
example	Example	exampleB	Example
examples	Examples	examplesB	Examples
reschar	Result Characteristics	restriction	Restriction
result	Result	resvalue	Result Value
resvalueB	Result Value		

1 These commands generate an inpara ("intrinsic paragraph") command, which takes two ar-

2 guments – the bold-faced word, and the rest of the paragraph. The inpara command puts a

3 period after the bold-faced word, and sets the whole thing as an "indented paragraph" using

4 the $\ inp$ command.

5 10 Miscellaneous list environments

6 There are several list environments, with their label widths and styles chosen to match the draft7 standard.

8 **10.1** A general enumeration environment

- 9 The enum environment is similar to the ${\rm LAT}_{\rm E\!X}$ enumerate environment. The differences are
- 10 (1) the outermost label width is 3/4 inch
- 11 (2) the remaining label widths are 3/8 inch
- 12 (3) the numbering for the outermost level is arabic in parentheses
- 13 (4) the numbering for the second level is lower-case alphabetic in parentheses
- 14 (a) that is, like this one

15 The remainder of its behavior is the same as for the IAT_EX enumerate environment. I looked 16 superficially for three-level lists in the draft standard, but didn't find any. If there are any, it 17 will be easy to change enum to have the same style.

18 10.2 A "non-bold label" description environment

19 The nbdesc environment is a list environment that works like the $\square T_E X$ description environ-20 ment, except that it doesn't set the labels in bold face type.

21 **11** Miscellaneous commands

22 **11.1** Commands to define a term

23 The \tdef command sets its argument in bold face type, and creates an index entry for it that24 will have a bold face page number.

25 The \tdeff command just sets its argument in bold face type, without creating an index entry.

26 **11.2** A command to generate an indented paragraph

27 The \inp command generates an "indented paragraph." It takes one argument: The amount to28 indent the paragraph. The entire paragraph is indented this amount. It doesn't matter where29 it appears in the paragraph.

1 **11.3** A command to generate a hanging indented paragraph

2 The \hin command generates a "hanging indented paragraph." It takes one argument: The
3 amount to indent the paragraph. The first line of the paragraph is not indented, but the rest
4 of the paragraph is indented the amount given by the first argument. It doesn't matter where
5 it appears in the paragraph.

6 **11.4 Captions in tables**

7 The \jcaption ("J3 caption") command generates a caption for a table that consists of the
8 word "Table" followed by the table number and a colon, and then its argument in bold-face
9 type. It also makes a label for the table that consists of "T" followed by a colon, followed by
10 the text of the caption.

11 The \ccaption ("continued caption") command generates a caption for the part of a table

12 continued onto a subsequent page as for \jcaption but followed by "(cont.)". It doesn't 13 generate a label.

14 **11.5** Double underline

15 Some of the table headings are formatted with a double underline. This is generated with the16 \dul command.

17 **12 Generating the standard**

The standard is organized as a top-level document that includes low-level documents. IAT_EX provides an \includeonly command that allows to process only a part of the document, without clobbering the cross references and indexes for the rest of it. If you want to generate just one part, uncomment the \includeonly near the top of the main document and put a file name in it (without .tex). Unfortunately, you frequently get an extra page or two at the beginning and/or end of the section.

- 24 There is a Makefile to make the standard.
- 25 The command make 007.dvi runs latex on 007.tex. Then it runs makeindex using the J3
- 26 index style file j3.ist. Then it postprocesses the index using the hyperindex program because
- hyperlinks from the index to the n'th page of the document, not the page numbered n (theseare different because the page numbering is restarted after the front matter. Then it converts
- 29 the index of syntax rules to something that can be put back into the document. This consists
- 30 of using sed to remove hyperpage from the end of each line. Using makeindex wouldn't be
- 31 appropriate, because that would sort the syntax rules incorrectly (e.g. all of the **or** rules would
- 32 come at the end) but it would have replaced the hyperpage references. Finally, it runs latex
- 33 twice more, to make sure that all of the cross references and line numbers are correctly resolved.
- 34 The result is the $T_{\rm E}X$ "device independent" file <code>007.dvi</code>.
- 35 Having 007.dvi, one can convert it for output on different printers. One can use make 007.ps
- 36 to make a PostScript file 007.ps. One could also view it using xdvi on Unix systems or an
- 37 equivalent program on other systems, or convert it for different printers. There aren't any
- 38 Makefile sections for other conversions.
- 39 PDF is generated by make 007.pdf. This section in the Makefile very much like the 007.dvi
 40 section, but it uses pdflatex instead of latex.
- 41 Text is made from PDF by make 007.txt.
- 42 The command make all makes dvi, PostScript, PDF and text.
- 43 The command make clean deletes all of LATEX's output and intermediate files.
- 1 The command make ui-index makes the "index of unresolved issues" paper. It uses the file
- 2 ui-index.tex, into which you will need to insert the \hdate and \vers commands (2).

3 13 Commands useful in generating meeting papers

4 13.1 The edits command

5 The **\edits** command generates a description of the typographical conventions. It takes two 6 arguments. The first one is optional (remember that optional arguments appear in square 7 brackets). The section title is "Edits" followed by the optional first argument. The second one 8 is the version of the draft standard to which the edits apply, e.g. 01-007r2.

9 13.2 The sep command

10 The \sep command creates a vertical space of 5pt, and then generates a line that goes all the 11 way across the page. It has no arguments. Here's what it does:

12 13.3 The mgpar command

- 13 The \mgpar command creates a marginal paragraph. Its primary use is to put page and line \mgpar
- 14 numbers in the margin. There's a marginal paragraph adjacent to the first line of this paragraph.
- 15 The \mgpar* command doesn't begin with an empty mbox. This changes vertical spacing, which
- 16 usually makes it wrong, but improves things for marginal paragraphs adjacent to notes.

17 13.4 The mgpare command

The \mgpare command creates a marginal paragraph in \mmph font (hence the "e" in the name). \mmppare
There's also \mgpare* that works as for \mmppar*.

20 13.5 Put boxes around stuff

The boxit environment puts a box around its content. The lbox environment also puts a box around its content, but it does it by using the longtable environment, so it can be split at "new item" (\\) signals at page boundaries.

24 **13.6** Note with explicit note number

The xnote environment creates a note – in the same way that note does (8), but instead of
inventing a note number, you specify it. The command \begin{xnote}{XYZ} introduces an
environment that creates a note box with NOTE XYZ above it.

28 13.7 J3 internal note

29 The jnote environment creates a note – in the same way that note does, but instead of inventing
30 a note number, it puts J3 internal note above the box.

13.8 References to the standard

- 32 The xr package can be used to make "external references," by putting the following in a paper:
- 33 \usepackage{xr}
- 34 \externaldocument{007}

This requires that the 007.aux file be accessible. Using the tetex T_EX distribution on Linux or Unix, this can be done by naming the appropriate directory in the TEXMFLOCAL environment variable. The directory named in TEXMFLOCAL needs to have a tex subdirectory, and that subdirectory needs to have a latex subdirectory. All of the subdirectories there are automatically searched. I put a "soft link" from there to HOME/f2000/007, which is in turn a "soft link" to the directory having the .tex files for the current standard. There are probably analogous ways to set things up for Windows-based distributions of T_EX .

- 3 I run latex on the standard, using the Makefile the editor prepared, to generate the .aux4 files. After making the current draft of the standard, I run texhash.
- 5 Once things are set up, and the .aux files generated, cross references in meeting papers can be
- 6 identical to cross references in the standard, thereby saving some work for the editor.