About pLTEX 2ε

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pIATEX is a Japanese IATEX format, which is adjusted/extended to be more suitable for writing Japanese documents. It requires pTEX¹, a TEX engine with extensions for Japanese typesetting, which is designed for high-quality Japanese book "p"ublishing.² Both of them were developed by ASCII Corporation (and its successor ASCII Media Works), so they are often referred to as "ASCII pTEX" and "ASCII pIATEX" respectively.

In 2010, ASCII pT_EX was incorporated into the world-wide T_EX distribution, T_EX Live. Since then, pT_EX has been maintained/improved/changed along with T_EX Live sources. In recent versions of T_EX Live and W32T_EX (around 2011), the default engine of pIAT_EX changed from original pT_EX to ε -pT_EX (pT_EX with ε -T_EX extension). Also, the original IAT_EX itself is also frequently updated. On the other hand, pIAT_EX remained unchanged since 2006, which resulted in some incompatibility and limitations.

To follow these upstream changes, we (Japanese T_EX Development Community³) decided to fork ASCII plaT_EX and distribute the "community edition." The development version is available from GitHub repository⁴. The forked community edition is different from the original ASCII edition, so any bug reports and requests should be sent to Japanese T_EX Development Community, using GitHub Issue system.

This document (platex-en.pdf) is a brief explanation of the pLATEX 2_{ε} community edition. It is somewhat of a historical document now, since pLATEX 2_{ε} came into existence in 1995 (although the English translation has been done by Japanese TeX Development Community since 2017).

¹The pTpX website: https://asciidwango.github.io/ptex/ (in Japanese)

²There is another old implementation of Japanese IATEX by NTT Electrical Communications Laboratories, named JIATEX (unavailable in TEX Live). Also, MiKTEX has another program platex for Polish, but it has nothing to do with our Japanese pIATEX!

³https://texjp.org

⁴https://github.com/texjporg/platex

1 Introduction to this document

This document briefly describes $pIATEX 2_{\varepsilon}$, but is not a manual of $pIATEX 2_{\varepsilon}$. For the basic functions of $pIATEX 2_{\varepsilon}$, see [1] (in Japanese). For extensions of some commands for vertical writing (which were first described in [2] in Japanese), see plext.dtx section in pldoc-en.pdf.

For Japanese typesetting, please refer to the documentation of pTEX (or "Japanese TEX"; the preliminary version of pTEX), [3] (in Japanese), [4] (in English) and [5] (in English).

This document consists of following parts:

Section 1 This section; describes this document itself.

Section 2 Brief explanation of extensions in pIATEX 2ε . Also describes the standard classes and packages.

Section 3 The compatibility note for users of the old version of pIATEX 2_{ε} or those of the original IATEX 2_{ε} .

Appendix A Describes DOCSTRIP Options for this document.

Appendix B Description of 'pldoc.tex' (counterpart for 'source2e.tex' in IAT_EX 2ε).

Appendix C Description of a shell script to process 'pldoc.tex', and a tiny perl program to check DOCSTRIP guards, etc.

2 About Functions of pI $\!^{A}$ TEX 2ε

The structure of pLATEX 2_{ε} is similar to that of LATEX 2_{ε} ; it consists of 3 types of files: a format (platex.ltx), classes and packages.

2.1 About the Format

To make a format for pIAT_EX, process "platex.ltx" with INI mode of ε -pT_EX.⁵ A handy command 'fmtutil-sys' (or 'fmtutil') for this purpose is available in T_EX Live. The following command generates platex.fmt.

```
fmtutil-sys --byfmt platex
```

The content of platex.ltx is shown below. In the current version of pLATEX, first we simply load latex.ltx and modify/extend some definitions by loading plcore.ltx.

 $_1 \; \langle *\mathsf{plcore} \rangle$

⁵Formerly both pTEX and ε -pTEX can make the format file for pLATEX, however, it's not true anymore because LATEX requires ε -TEX since 2017.

Temporarily disable \dump at the end of latex.ltx.

- 2 \let\orgdump\dump
- 3 \let\dump\relax

Load latex.ltx here. Within the standard installation of TeX Live, hyphen.cfg provided by "Babel" package will be used.

```
4 \input latex.ltx
```

If \typeout is still undefined, the input of LaTeX kernel should have failed; abort now.

```
5 \ifx\typeout\undefined
6 \errhelp{Please reinstall LaTeX, or check e-TeX availability.}%
   \errmessage{Failed to load 'latex.ltx' properly}%
8 \expandafter\end
9 \fi
Load plcore.ltx.
10 \typeout{*****************************
          *^^J%
11
          * making pLaTeX format^^J%
12
          *^^J%
13
          **************
14
15 \makeatletter
16 \input plcore.ltx
```

Load font-related default settings, pldefs.ltx. If a file pldefs.cfg is found, then that file will be used instead. Some code may be executed after loading.

In the previous version, we displayed pLATEX version on the terminal, so that it can be easily recognized during format creation; however \everyjob can contain any code other than showing a banner, so now disabled.

23 %\the\everyjob

Load platex.cfg if it exists at runtime.

Dump to the format file.

- 32 \let\dump\orgdump
- 33 \let\orgdump\@undefined
- 34 \makeatother

```
35 \dump
36 %\endinput
```

37 (/plcore)

The file plcore.ltx, which provides modifications/extensions to make pLATEX 2ε , is a concatenation of stripped files below using DOCSTRIP program.

- plvers.dtx defines the format version of pLATEX 2ε .
- plfonts.dtx extends NFSS2 for Japanese font selection.
- plcore.dtx defines other modifications to LATEX 2ε .

Moreover, default settings of pre-loaded fonts and typesetting parameters are done by loading pldefs.ltx inside platex.ltx.⁶ This file pldefs.ltx is also stripped from plfonts.dtx.

Attention:

You can customize pLATEX 2_{ε} by tuning these settings. If you need to do that, copy/rename it as pldefs.cfg and edit it, instead of overwriting pldefs.ltx itself. If a file named pldefs.cfg is found at a format creation time, it will be read as a substitute of pldefs.ltx.

2.1.1 Version

The version (like "2021-11-15") and the format name ("pLaTeX2e") of pLaTeX2 ε are defined in plvers.dtx.

2.1.2 NFSS2 Commands

LATEX 2_{ε} uses NFSS2 as a font selection scheme, however, it supports only alphabetic fonts. pLATEX 2_{ε} extends NFSS2 to enable selection of Japanese fonts in a consistent manner with the original NFSS2.

Most of the interface commands are defined to be clever enough, so that it can automatically judge whether it is going to change alphabetic fonts or Japanese fonts. It works almost fine with most of the widely used classes and packages, without any modification.

For the defail of (the original) NFSS2, please refer to fntguide.tex in IATEX 2ε .

2.1.3 Output Routine and Floats

plcore.dtx modifies and extends some IATEX $2_{\mathcal{E}}$ commands for Japanese processing.

⁶ASCII pL^ATEX loaded pldefs.ltx inside plcore.ltx; however, pL^ATEX community edition newer than 2018 loads pldefs.ltx inside platex.ltx.

- Preamble commands
- Page breaking
- Line breaking
- The order of float objects
- Crop marks ("tombow")
- Footnote macros
- Cross-referencing
- Verbatim

2.2 Classes and Packages

Classes and packages bundled with pLATEX 2_{ε} are based on those in original LATEX 2_{ε} , with some Japanese localization.

pLATEX $2_{\mathcal{E}}$ classes:

- jarticle.cls, jbook.cls, jreport.cls
 Standard *yoko-kumi* (horizontal writing) classes; stripped from jclasses.dtx.
- tarticle.cls, tbook.cls, treport.cls

 Standard *tate-kumi* (vertical writing) classes; stripped from jclasses.dtx.
- jltxdoc.cls

 Class for typesetting Japanese .dtx file; stripped from jltxdoc.dtx.

pLATEX 2ε packages:

• plext.sty

Useful macros and extensions for vertical writing; stripped from plext.dtx.

• ptrace.sty

pLATEX $2_{\mathcal{E}}$ version of tracefnt.sty; the package tracefnt.sty overwrites pLATEX $2_{\mathcal{E}}$ -style NFSS2 commands, so ptrace.sty provides redefinitions to recover pLATEX $2_{\mathcal{E}}$ extensions. Stripped from plfonts.dtx.

 \bullet pfltrace.sty

pLATEX 2_{ε} version of fltrace.sty (introduced in LATEX 2_{ε} 2014/05/01); stripped from plcore.dtx.

• oldpfont.sty

Provides pIATFX 2.09 font commands; stripped from pl209.dtx.

The packages "ascmac.sty" and "nidanfloat.sty", which had been included in previous versions of pLATeX, is now distributed as a separate bundle.

3 Compatibility with Other Formats and Older Versions

Here we provide some information about the compatibility between current pLATEX 2ε and older versions or original LATEX 2ε .

3.1 Compatibility with $\LaTeX 2_{\varepsilon}$

pLATEX 2_{ε} is in most part upward compatible with LATEX 2_{ε} , but some parameters are adjusted to be suitable for Japanese. Therefore, you should not expect identical output, even though the same source can be processed on both LATEX 2_{ε} and pLATEX 2_{ε} .

We hope that most classes and packages meant for LaTeX 2_{ε} works also for pLaTeX 2_{ε} without any modification. However for example, if a class or a package redefines a command which is already modified by pLaTeX 2_{ε} , it might cause an error at the worst case. We cannot tell whether a class or a package works fine with pLaTeX 2_{ε} beforehand; the easiest way is to try to use it. If it fails, please refer to the log file or a package manual.

Some LATEX packages are known to be incompatible with pLATEX. For those packages, pLATEX-specific patches might be available. Please refer to the documentation of the plautopatch package (by Hironobu Yamashita).

3.2 Compatibility with pLATEX 2.09

pLATEX 2_{ε} has 'pLATEX 2.09 compatibility mode'; use \documentstyle to enter it, but the support might be limited. Note that the 2.09 compatibility mode is provided solely to allow you to process very old documents, which were written for a very old system.

3.3 Support for Package 'latexrelease'

pLATEX provides 'platexrelease' package, which is based on 'latexrelease' package (introduced in LATEX <2015/01/01>). It may be used to ensure stability where needed, by emulating the specified format date without regenerating the format file. For more detail, please refer to its documentation.

A DOCSTRIP Options

By processing platex.dtx with DOCSTRIP program, different files can be generated. Here are the DOCSTRIP options for this document:

| Option | Function | |
|------------------------|--|--|
| plcore | Generates a fragment of format sources | |
| pldoc | Generates 'pldoc.tex' for type setting pIATEX 2_{ε} sources | |
| shprog | Generates a shell script to process 'pldoc.tex' | |
| plprog | Generates a tiny perl program to check DOCSTRIP guards nesting | |
| Xins | Generates a DOCSTRIP batch file 'Xins.ins' for generating the | |
| | above shell/perl scripts | |

B Documentation of pIATEX 2_{ε} sources

The contents of 'pldoc.tex' for type setting pLATEX 2_{ε} sources is described here. Compared to individual processings, batch processing using 'pldoc.tex' prints also changes and an index. The whole document will have about 200 pages.

By default, the description of pLATEX 2_{ε} sources is written in Japanese. If you need English version, first save

\newif\ifJAPANESE

as platex.cfg, and process pldoc.tex (pLATEX 2_{ε} Community Edition newer than July 2016 is required).

First, create pldoc.dic; it serves as a dictionary for 'mendex' (Japanese index processor⁷), which is necessary for indexing control sequences containing Japanese characters (\ 西曆 and \ 和曆).

```
38 (*pldoc)
39 \begin{filecontents}{pldoc.dic}
40 西暦 せいれき
41 和暦 われき
42 \end{filecontents}
```

We use jltxdoc class; we also require plext package, since plext.dtx contains several examples of partial vertical writing. Also, as of 2022 doc package v3.0 depends on hyperref, so we add a driver option dvipdfmx and load pxjahyper using plautopatch scheme. plautopatch 経由で pxjahyper パッケージも読み込みます。

- 43 \RequirePackage{plautopatch}
- 44 \documentclass[dvipdfmx,a4paper]{jltxdoc}
- $45 \AddToHook\{env/macro/before\}\{\catcode`_=12\relax\}$
- 46 \AddToHook{env/macro/after}{\catcode'_=8\relax}

⁷Developed by ASCII Corporation; the program 'makeindex' cannot handle Japanese characters properly, especially Kanji characters which should be sorted by its readings.

```
47 \usepackage{plext}
48 \listfiles
Do not index some T<sub>F</sub>X primitives, and some common plain T<sub>F</sub>X commands.
50 \DoNotIndex{\def,\long,\edef,\xdef,\gdef,\let,\global}
51 \DoNotIndex{\if,\ifnum,\ifdim,\ifcat,\ifmmode,\ifvmode,\ifhmode,\%
              \iftrue,\iffalse,\ifvoid,\ifx,\ifeof,\ifcase,\else,\or,\fi}
52
53 \verb|\DoNotIndex{\box,\copy,\setbox,\unvbox,\unhbox,\hbox,\gamma}|
54
              \vbox,\vtop,\vcenter}
55 \DoNotIndex{\@empty,\immediate,\write}
56 \DoNotIndex{\egroup,\bgroup,\expandafter,\begingroup,\endgroup}
57 \DoNotIndex{\divide,\advance,\multiply,\count,\dimen}
58 \DoNotIndex{\relax,\space,\string}
59 \DoNotIndex{\csname,\endcsname,\@spaces,\openin,\openout,%
60
              \closein,\closeout}
61 \DoNotIndex{\catcode,\endinput}
62 \DoNotIndex{\jobname,\message,\read,\the,\m@ne,\noexpand}
63 \DoNotIndex{\hsize,\vsize,\hskip,\vskip,\kern,\hfil,\hfill,\hss,\vss,\unskip}
65 \DoNotIndex{\dp,\wd,\ht,\setlength,\addtolength}
66 \DoNotIndex{\newcommand, \renewcommand}
Set up the Index and Change History to use \part.
68 \ifJAPANESE
69 \IndexPrologue{\part*{索 引}%
                   \markboth{索 引}{索 引}%
70
                   \addcontentsline{toc}{part}{索 引}%
72 イタリック体の数字は、その項目が説明されているページを示しています。
73 下線の引かれた数字は、定義されているページを示しています。
74 その他の数字は、その項目が使われているページを示しています。}
75 \else
76 \IndexPrologue{\pi*{Index}}
                   \markboth{Index}{Index}%
77
                   \addcontentsline{toc}{part}{Index}%
78
79 The italic numbers denote the pages where the corresponding entry
80 is described, numbers underlined point to the definition,
81 all others indicate the places where it is used.}
82 \fi
83 %
84 \ifJAPANESE
85 \GlossaryPrologue{\part*{変更履歴}%
86
                   \markboth{変更履歴}{変更履歴}%
                   \addcontentsline{toc}{part}{変更履歴}}
87
88 \else
89 \GlossaryPrologue{\part*{Change History}%
                   \markboth{Change History}{Change History}%
90
                   \addcontentsline{toc}{part}{Change History}}
91
92 \fi
```

Modify the standard \changes command slightly, to better cope with this multiple file document.

```
94 \makeatletter
 95 \def\changes@#1#2#3{%
     \let\protect\@unexpandable@protect
 96
     \edef\@tempa{\noexpand\glossary{#2\space
97
                   \currentfile\space#1\levelchar
98
                   \ifx\saved@macroname\@empty
 99
                      \space\actualchar\generalname
100
101
                   \else
                      \expandafter\@gobble
102
                      \saved@macroname\actualchar
103
                      \string\verb\quotechar*%
104
                      \verbatimchar\saved@macroname
105
                      \verbatimchar
106
                   \fi
107
                   :\levelchar #3}}%
108
     \@tempa\endgroup\@esphack}
109
Codelines are allowed to run over a bit without showing up as overfull.
110 \renewcommand*\MacroFont{\fontencoding\encodingdefault
                       \fontfamily\ttdefault
111
                       \fontseries\mddefault
112
113
                       \fontshape\updefault
114
                       \small
115
                       \hfuzz 6pt\relax}
Section numbers now reach eg 19.12 which need more space.
116 \renewcommand*\l@subsection{\@dottedtocline{2}\{1.5em\}\{2.8em\}\}
117 \renewcommand*\l@subsubsection{\@dottedtocline{3}{3.8em}{3.4em}}
118 \makeatother
Produce a Change Log and (2 column) Index.
119 \RecordChanges
120 \CodelineIndex
121 \EnableCrossrefs
122 \setcounter{IndexColumns}{2}
123 \settowidth\MacroIndent{\ttfamily\scriptsize 000\ }
Set the title, authors and the date for this document.
124 \title{The \pLaTeXe\ Sources}
125 \author{Ken Nakano \& Japanese \TeX\ Development Community}
126
127 % Get the date and patch level from plvers.dtx
128 \makeatletter
129 \let\patchdate=\@empty
130 \begingroup
      \def\ProvidesFile#1\pfmtversion#2#3\ppatch@level#4{%
132
         \date{#2}\xdef\patchdate{#4}\endinput}
133
      \input{plvers.dtx}
134 \endgroup
136 % Add the patch version if available.
137 \def\Xpatch{0}
138 \ifx\patchdate\Xpatch\else
139 % number is assumed
140 \ifnum\patchdate>0
```

```
\edef\@date{\@date\space Patch level\space\patchdate}
141
142 \else
     \edef\@date{\@date\space Pre-Release\patchdate}
143
144 \fi\fi
145
146 % Add the last update info, in case format date unchanged
147 % Note: \@ifl@t@r can be used only in preamble.
148 \def\lastupd@te{0000/00/00}
149 \begingroup
      \def\ProvidesFile#1[#2 #3]{%
150
         \def\@tempd@te{#2}\endinput
151
         \@ifl@t@r{\@tempd@te}{\lastupd@te}{%
152
             \global\let\lastupd@te\@tempd@te
153
         }{}}
154
      \let\ProvidesClass\ProvidesFile
155
      \let\ProvidesPackage\ProvidesFile
156
      \input{plvers.dtx}
157
158
      \input{plexpl3.dtx}
159
      \input{plfonts.dtx}
160
      \input{plcore.dtx}
      \input{plext.dtx}
161
      \input{pl209.dtx}
162
      \input{kinsoku.dtx}
163
      \input{jclasses.dtx}
164
165
      \input{jltxdoc.cls}
166 \endgroup
167 \@ifl@t@r{\lastupd@te}{\pfmtversion}{%
     \edef\@date{\@date\break (last updated: \lastupd@te)}%
169 }{}
170 \mbox{ \mbox{\mbox{makeatother}}}
Here starts the document body.
171 \begin{document}
172 \pagenumbering{roman}
173 \maketitle
174 \renewcommand\maketitle{}
175 \tableofcontents
176 \clearpage
177 \pagenumbering{arabic}
178
179 \DocInclude{plvers}
                          % pLaTeX version
180
181 \DocInclude{plexpl3} % additions to expl3
182
183 \DocInclude{plfonts} % NFSS2 commands
185 \DocInclude{plcore}
                          % kernel commands
186
                          % external commands
187 \DocInclude{plext}
188
189 \DocInclude{pl209}
                          \% 2.09 compatibility mode commands
190
191 \DocInclude{kinsoku} % kinsoku parameter
192
```

```
193 \DocInclude{jclasses} % Standard class
195 \DocInclude{jltxdoc} % dtx documents class
196
Stop here if ltxdoc.cfg says \AtEndOfClass{\OnlyDescription}.
197 \StopEventually{\end{document}}
198
Print Change History and Index. Please refer to Appendix C.1 for processing of
Change History and Index.
199 \clearpage
200 \pagestyle{headings}
201 % Make TeX shut up.
202 \hbadness=10000
203 \newcount\hbadness
204 \hfuzz=\maxdimen
205 %
206 \PrintChanges
207 \clearpage
208 %
209 \begingroup
210
     \def\endash\{--\}
     \catcode'\-\active
211
212
     \def-{\futurelet\temp\indexdash}
213
     \def \in {\index dash {\ifx\temp-\endash {\if}}}
214
     \P
215
216 \setminus endgroup
Make sure that the index is not printed twice (ltxdoc.cfg might have a second
command).
217 \let\PrintChanges\relax
218 \let\PrintIndex\relax
219 \end{document}
220 (/pldoc)
```

C Additional Utility Programs

C.1 Shell Script mkpldoc.sh

A shell script to process 'pldoc.tex' and produce a fully indexed source code description. Run sh mkpldoc.sh to use it.

C.1.1 Content of mkpldoc.sh

First, delete auxiliary files which might be created in the previous runs.

```
221 (*shprog)
222 (ja)rm -f pldoc.toc pldoc.idx pldoc.glo
223 (en)rm -f pldoc-en.toc pldoc-en.idx pldoc-en.glo
```

```
First run: empty the config file ltxdoc.cfg.

224 echo "" > ltxdoc.cfg

Now process pldoc.tex.

225 ⟨ja⟩platex pldoc.tex

226 ⟨en⟩platex -jobname=pldoc-en pldoc.tex
```

Make the Change log and Glossary (Change History) using mendex. 'Mendex' is a Japanese index processor, which is mostly upward compatible with 'makeindex' and automatically handles readings of Kanji words.

Option -s employs a style file for formatting. Here we use gind.ist and gglo.ist from \LaTeX 2ε .

Option -o specifies output index file name.

Option -f forces to output Kanji characters even non-existent in dictionaries. (Makeindex does not have this option.)

```
227 (ja)mendex -s gind.ist -d pldoc.dic -o pldoc.ind pldoc.idx

228 (en)mendex -s gind.ist -d pldoc.dic -o pldoc-en.ind pldoc-en.idx

229 (ja)mendex -f -s gglo.ist -o pldoc.gls pldoc.glo

230 (en)mendex -f -s gglo.ist -o pldoc-en.gls pldoc-en.glo
```

Second run: append \includeonly{} to ltxdoc.cfg to speed up things. This run is needed only to get changes and index listed in .toc file.

```
231 echo "\includeonly{}" > ltxdoc.cfg 232 \langle ja \rangleplatex pldoc.tex 233 \langle en \rangleplatex -jobname=pldoc-en pldoc.tex
```

Third and final run: restore the cfg file to put everything together.

```
234 echo "" > ltxdoc.cfg
235 ⟨ja⟩platex pldoc.tex
236 ⟨en⟩platex -jobname=pldoc-en pldoc.tex
237 # EOT
238 ⟨/shprog⟩
```

C.2 Perl Script dstcheck.pl

Here we provide a perl script which helps checking the nested DOCSTRIP guards. Usage:

```
perl dstcheck.pl <file-name>
```

The description of this script itself is available only in Japanese.

```
239 (*plprog)
240 ##
241 ## DOCSTRIP 文書内の環境や条件の入れ子を調べる perl スクリプト
242 ##
243 push(@dst,"DUMMY"); push(@dst,"000");
244 push(@env,"DUMMY"); push(@env,"000");
```

```
if (/^%<\*([^>]+)>/) { # check conditions
246
       push(@dst,$1);
247
       push(@dst,$.);
248
     } elsif (/^%<\/([^>]+)>/) {
249
250
       $linenum = pop(@dst);
       $conditions = pop(@dst);
251
252
       if ($1 ne $conditions) {
         if ($conditions eq "DUMMY") {
253
           print "ARGV: '</1>' (1.$.) is not started.\n";
254
255
           push(@dst,"DUMMY");
           push(@dst,"000");
256
         } else {
257
           print "$ARGV: '<*$conditions>' (1.$linenum) is ended ";
258
           print "by '<*$1>' (1.$.)\n";
259
260
261
       }
     }
262
263
     if (/^{*} *\\begin\{verbatim\}/) { # check environments
       while(<>) {
264
           last if (/^% *\end_{verbatim});
265
       }
266
267
     } elsif (/^% *\\begin\{([^{\}]+)\\}\((.*)\\}/) {
       push(@env,$1);
268
       push(@env,$.);
269
     } elsif (/^% *\\begin\{([^{\}]+)\\}/) {
270
271
       push(@env,$1);
272
       push(@env,$.);
     } elsif (/^% *\\end\{([^{}]+)\}/) {
273
       $linenum = pop(@env);
274
       $environment = pop(@env);
275
276
       if ($1 ne $environment) {
         if ($environment eq "DUMMY") {
277
           print "$ARGV: '\\end{$1}' (1.$.) is not started.\n";
278
           push(@env,"DUMMY");
279
           push(@env,"000");
280
281
         } else {
282
           print "$ARGV: \\begin{$environement} (1.$linenum) is ended ";
283
           print "by \\end{$1} (1.$.)\n";
284
       }
285
     }
286
287 }
288 $linenum = pop(@dst);
289 $conditions = pop(@dst);
290 \ \mbox{while} ($conditions ne "DUMMY") {
       print "$ARGV: '<*$conditions>' (1.$linenum) is not ended.\n";
291
       $linenum = pop(@dst);
292
293
       $conditions = pop(@dst);
294 }
295 $linenum = pop(@env);
296 $environment = pop(@env);
297 while ($environment ne "DUMMY") {
```

```
print "$ARGV: '\begin{$environment}' (1.$linenum) is not ended.\n";

print "$ARGV: '\begin{$environment}' (1.$linenum) is not ended.\n";

senvironment = pop(@env);

senvironment
```

C.3 DOCSTRIP Batch file

Here we introduce a DOCSTRIP batch file 'Xins.ins,' which generates the scripts described in Appendix C.1 and C.2.

```
304 \langle *Xins \rangle
305 \input docstrip
306 \keepsilent
307 {\catcode'#=12 \gdef\MetaPrefix{## }}
308 \ensuremath{\mbox{\sc declarepreamble}\mbox{\sc thispre}}
309 \setminus endpreamble
310 \slashed{usepreamble}\thispre
311 \declarepostamble \this post
312 \endpostamble
313 \text{ } \text{usepostamble} \text{ } \text{thispost}
314 \generate{
       \file{dstcheck.pl}{\from{platex.dtx}{plprog}}
315
316
       \file{mkpldoc-en.sh}{\from{platex.dtx}{shprog,en}}
317
318 }
319 \endbatchfile
320 \langle /Xins \rangle
```

References

- [1] 中野 賢『日本語 IATEX 2ε ブック』 アスキー, 1996.
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Change History

| 1995/05/08 v1.0 | 2017/09/24 v1.0o |
|---|-------------------------------------|
| first edition 2 | Allow negative patch level for |
| 1995/08/25 v1.0a | pre-release 9 |
| Added 'Compatibility', 'Usage of | 2017/11/11 v1.0p |
| DOCSTRIP' and 'References' 2 | Moved banner saving code from |
| 1996/02/01 v1.0b | platex.ltx to plcore.ltx 3 |
| Adjusted for the latest DOCSTRIP | 2017/11/29 v1.0q |
| (omake-sh.ins and | New English documentation |
| omake-pl.ins 14 | added 1 |
| 1997/01/23 v1.0c | 2017/12/02 v1.0r |
| Adjusted for the latest DOCSTRIP. 14 | English references added 2 |
| Don't copy gind.ist and gglo.ist | 2017/12/05 v1.0s |
| from | Moved loading default settings |
| TEXMF/tex/latex2e/base | from plcore.ltx to |
| directory | platex.ltx 3 |
| 1997/01/25 v1.0c | 2018/02/07 v1.0t |
| Add to filecontents environment | Moved ascmac package to separate |
| for pldoc.dic | bundle 6 |
| 1997/01/29 v1.0c | 2018/02/18 v1.0u |
| Rename pltpatch.ltx to | Moved nidanfloat package to |
| plpatch.ltx 9 | separate bundle 6 |
| 2016/01/27 v1.0d | 2018/04/06 v1.0v |
| Add -e test before rm command . 11 | Sync with the latest source2e.tex 9 |
| Updated descriptions of pLATEX 2ε | 2018/04/08 v1.0w |
| files | Stop showing banner during |
| 2016/02/16 v1.0e | format generation for safety 3 |
| Add a description of platexrelease 6 | 2018/09/03 v1.0x |
| 2016/04/12 v1.0f | Mention platexcheat (Japanese |
| Update document | only) |
| 2016/05/07 v1.0g | Mention plautopatch 6 |
| Save LATEX banner | Update document 1 |
| 2016/05/08 v1.0h Exclude plpatch.ltx from the | 2018/09/22 v1.0y |
| document 9 | Show last update info on |
| 2016/05/12 v1.0i | pldoc.pdf 9 |
| Undefine temporary command | 2019/09/29 v1.0z |
| \organia \orange \o \orange | Fix typos in document 1 |
| 2016/05/20 v1.0j | 2020/03/24 v1.1 |
| Add description of 'pfltrace' 5 | Update document 1 |
| 2016/05/21 v1.0k | 2020/09/26 v1.1a |
| Print also changes | Add plexpl3.dtx 10 |
| 2016/06/19 v1.0l | 2020/09/28 v1.1b |
| Get the patch level from | Add hook after loading defs 3 |
| plvers.dtx9 | 2021/02/25 v1.1c |
| 2016/08/26 v1.0m | Check for latex.ltx status 3 |
| Moved loading platex.cfg from | 2021/03/14 v1.1d |
| plcore.ltx to platex.ltx 3 | Print expl3 commands correctly 7 |
| 2016/09/14 v1.0n | 2022/03/06 v1.1e |
| Improved banner saving method 3 | Adapt to new ltxdoc.cls 7 |